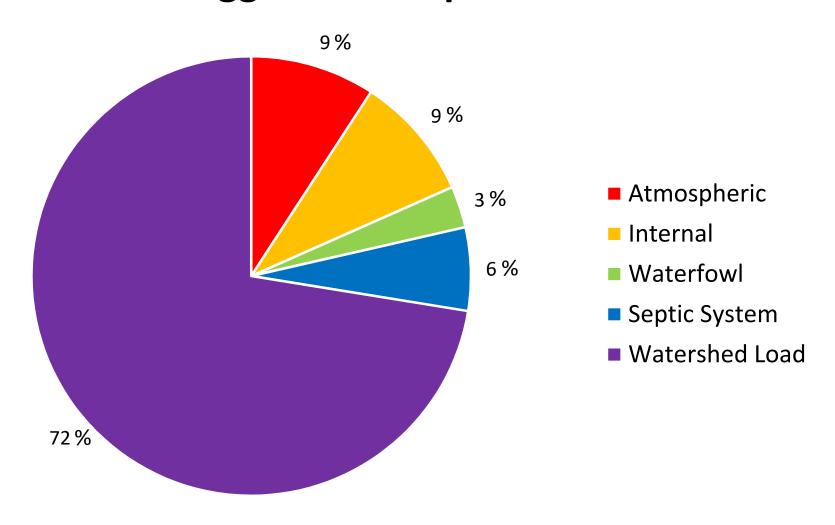
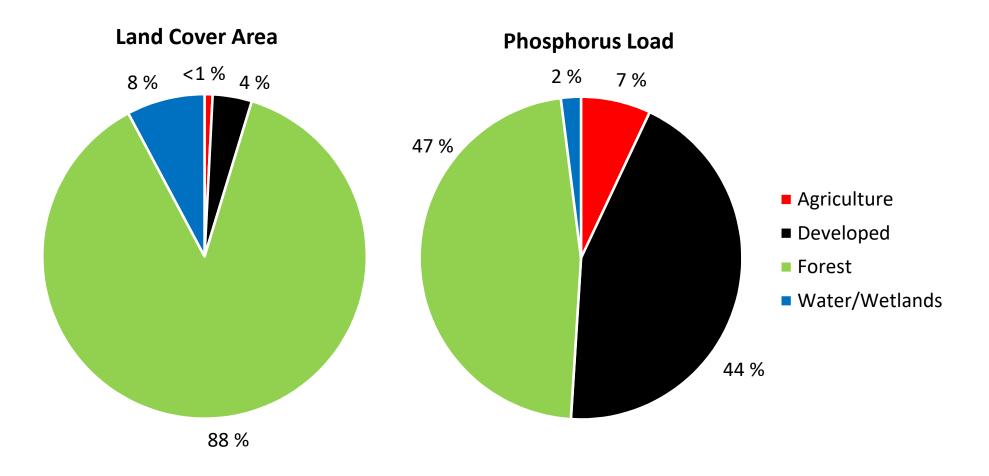
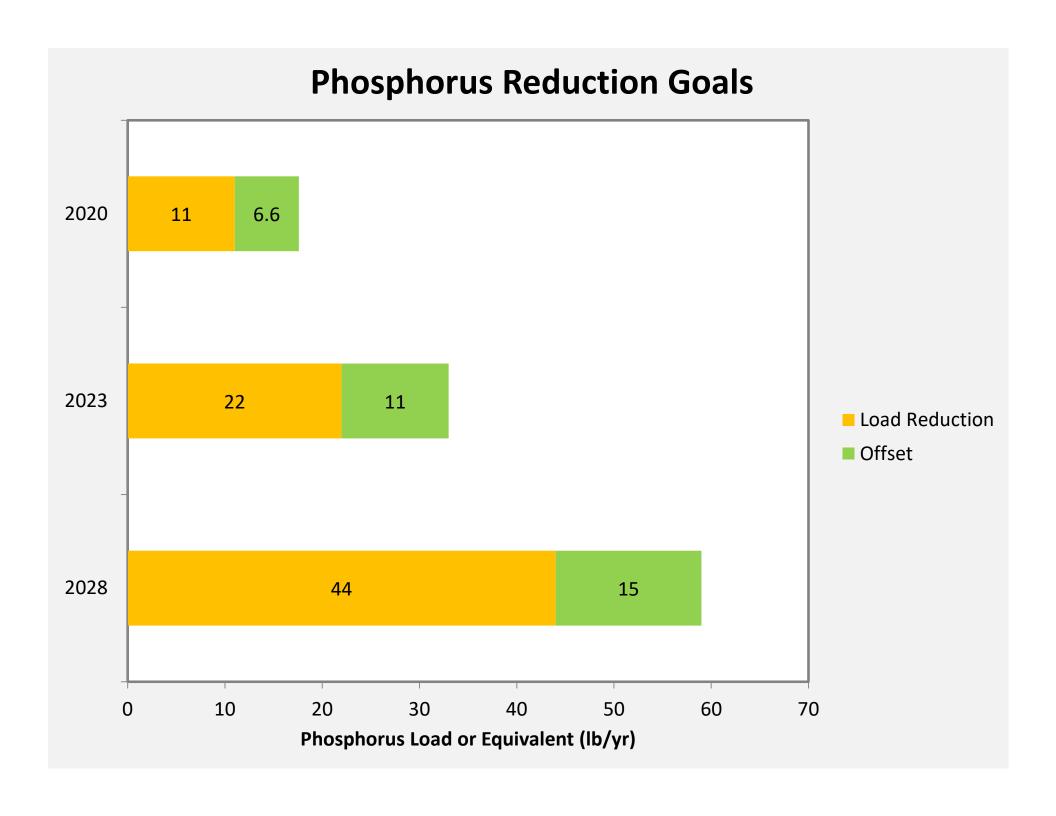


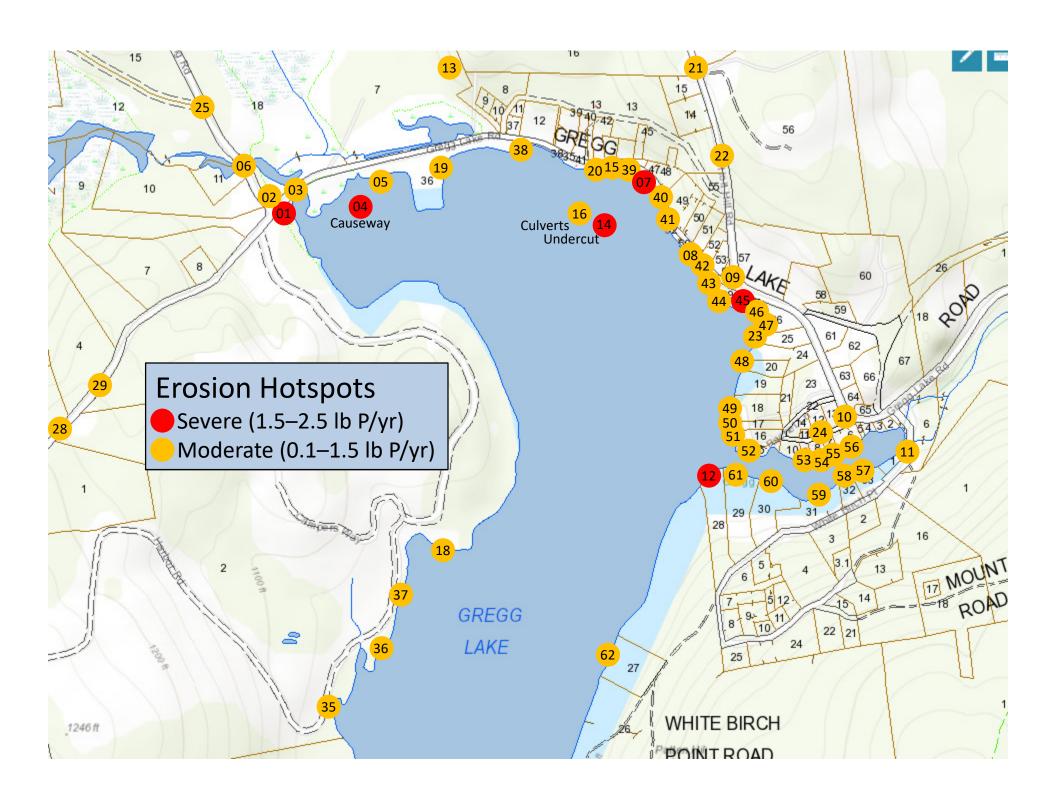
#### **Current Gregg Lake Phosphorus Sources**



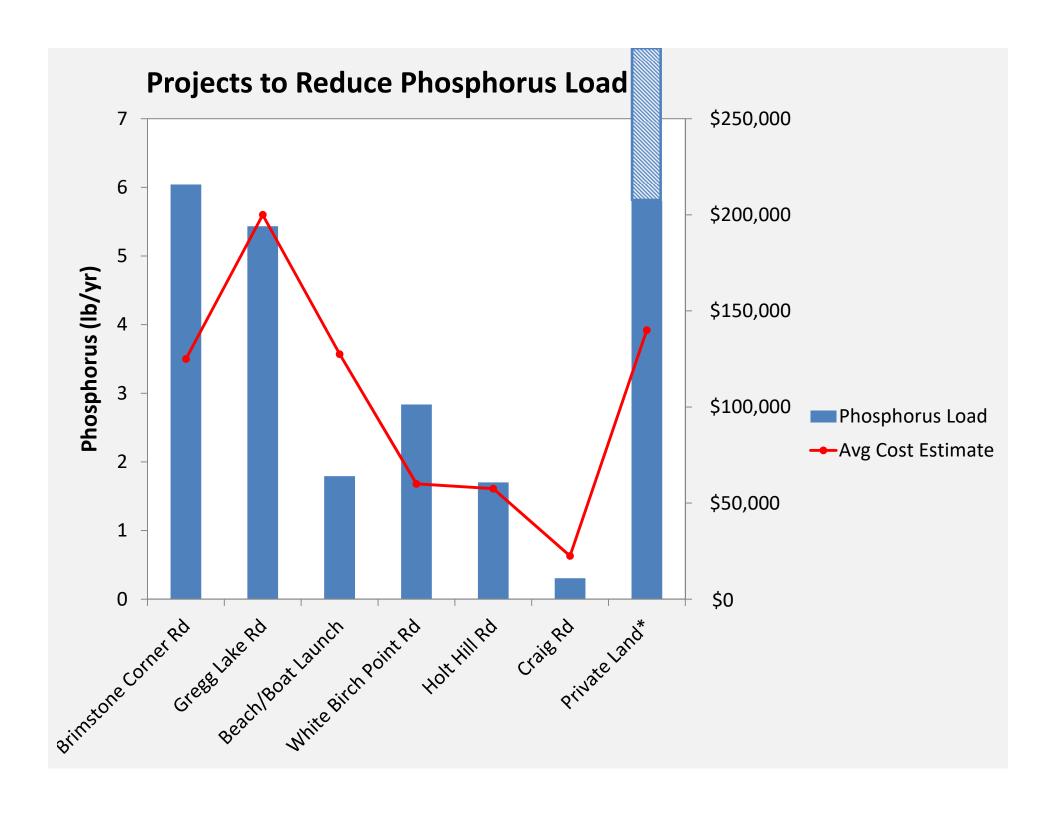
#### **Gregg Lake Watershed**











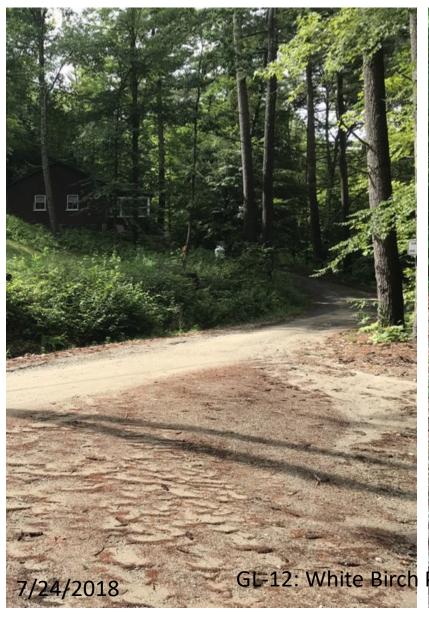


## Brimstone Corner Road (6 lb P/yr)

- Culverts, catch basins
- Turnouts, check dams
- Stabilize shoulder, ditches
- Reshape and crown road



# White Birch Point Road (2.8 lb P/yr)

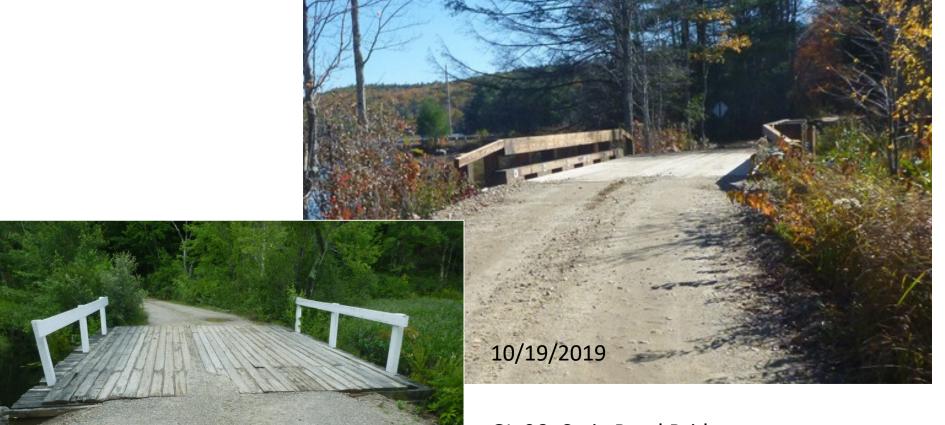




# Holt Hill Road (1.7 lb P/yr)



# Craig Road Bridge (0.3 lb P/yr)



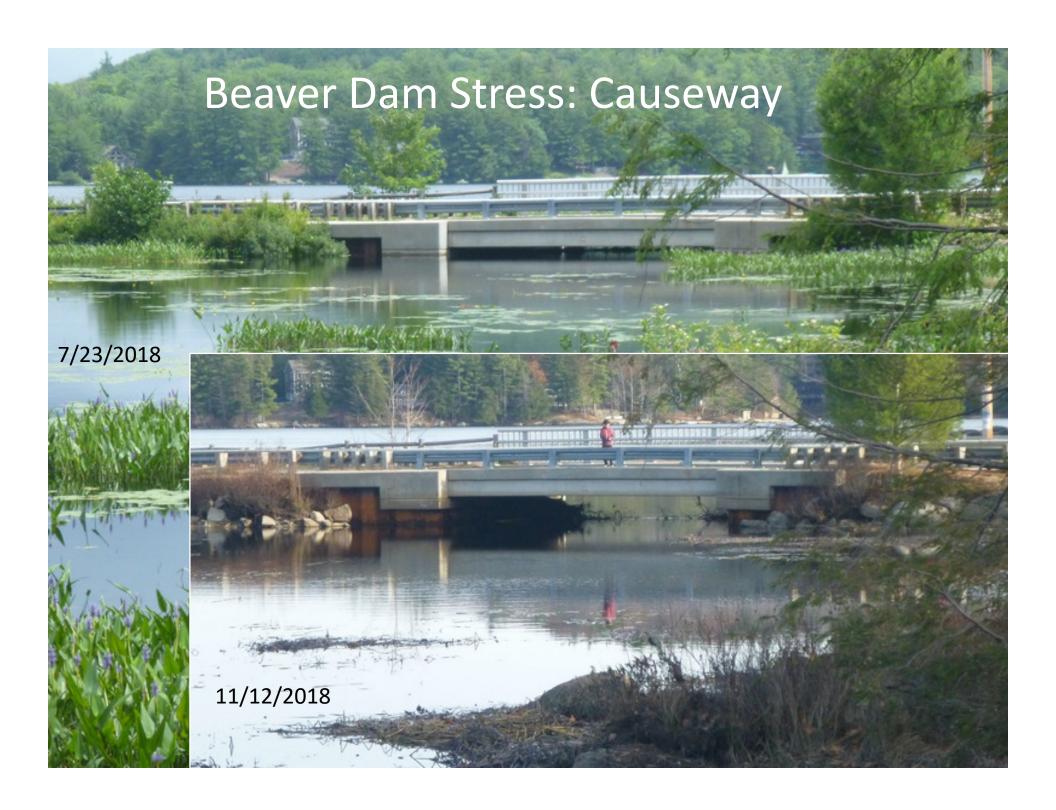
7/23/2018

GL-06: Craig Road Bridge

# Beaver Dam Stress: Craig Road

GL-06: Craig Road Bridge



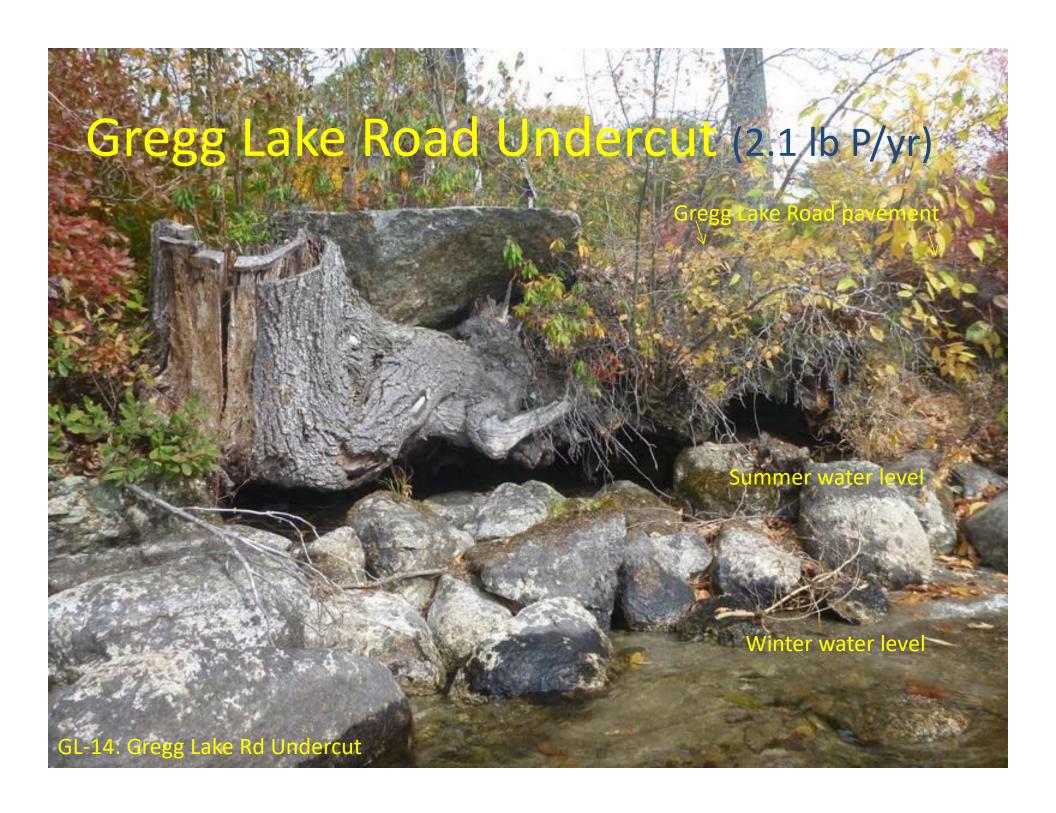




# Gregg Lake Road/Causeway (5.4 lb P/yr)

Reinforce shoulders
Revegetate





#### **Erosion Control: Gabion Baskets**

Engineering option for undercut/shoulders



https://www.gabion1.com/gabion\_erosion\_control.htm

https://www.warnerconstruction.co.nz/services/civilengineering/oakura-gabion-basket-wall/

# Town Beach & Boat Launch (1.8 lb P/yr)



#### Private Landowner Engagement

- Stormwater and sediment management
- Septic upgrades & management
- Soak Up the Rain/LakeSmart

# **Dumping Sand**



# Clearing Shoreline Vegetation







#### Lawn





# Stormwater Runoff



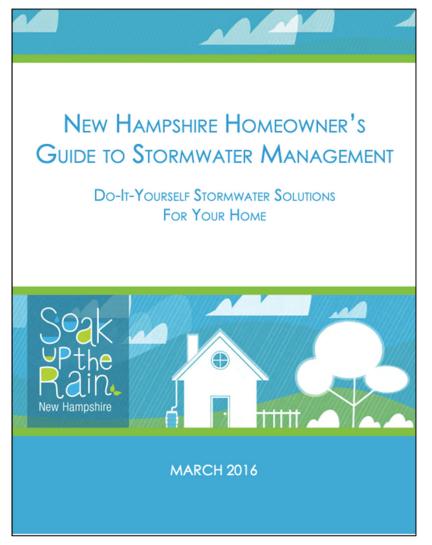


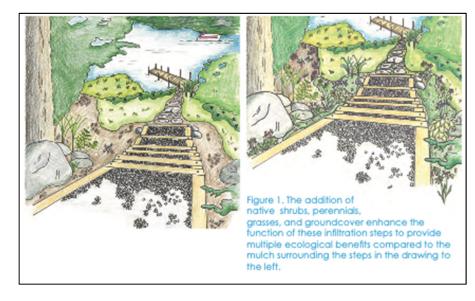
# Septic System Upgrades





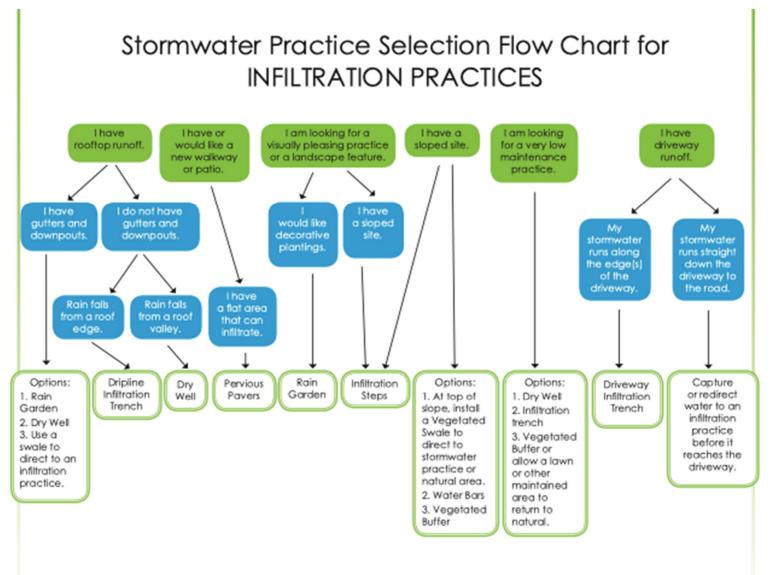
# Private Landowner Engagement





https://www4.des.state.nh.us/SoakNH/wp-content/uploads/2016/04/NH-Homeowner-Guide-2016.pdf

# Private Landowner Engagement



NEW HAMPSHIRE HOMEOWNER'S GUIDE ö STORMW MANAGEMENT DO-IT-YOURSELF STORMWATER SOLUTIONS

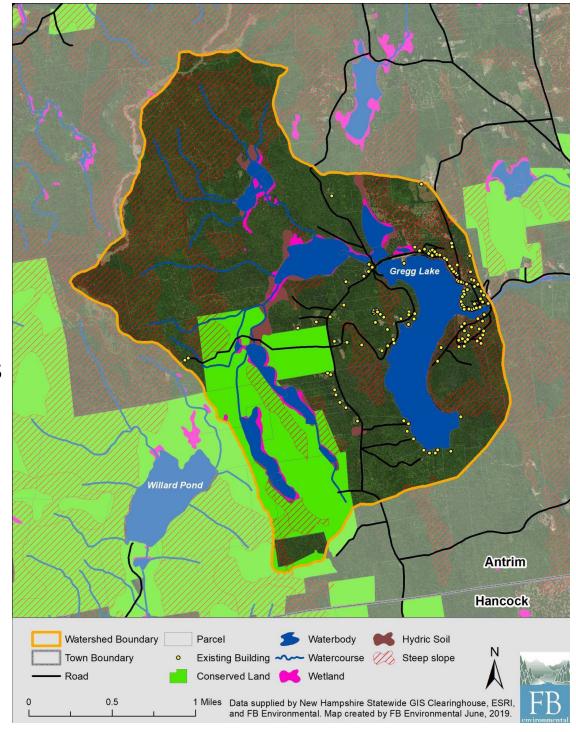
# Regulatory Changes

- Zoning
  - 100 ft setback for new construction
  - Lot sizes
    - Lakefront Residential—2 acres
    - Rural Conservation—3 acres
    - 275 additional houses could be built
- Ordinances
  - Harmful shoreline practices
  - Enforcement
  - Informed contractors
- Conservation easements

# Existing Land Use

126 buildings

Many areas with steep slopes

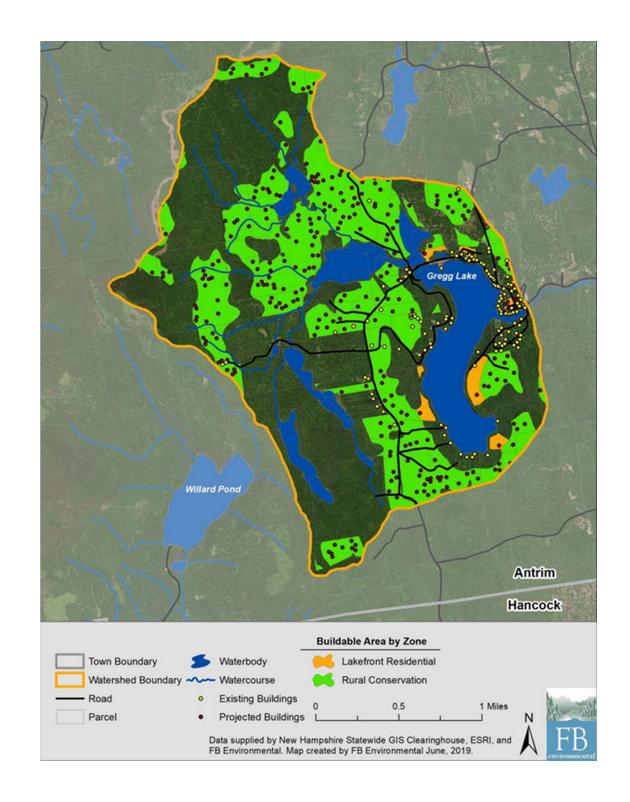


# Watershed Build-out Scenario

Rural conservation district Minimum lot size ~3 acres

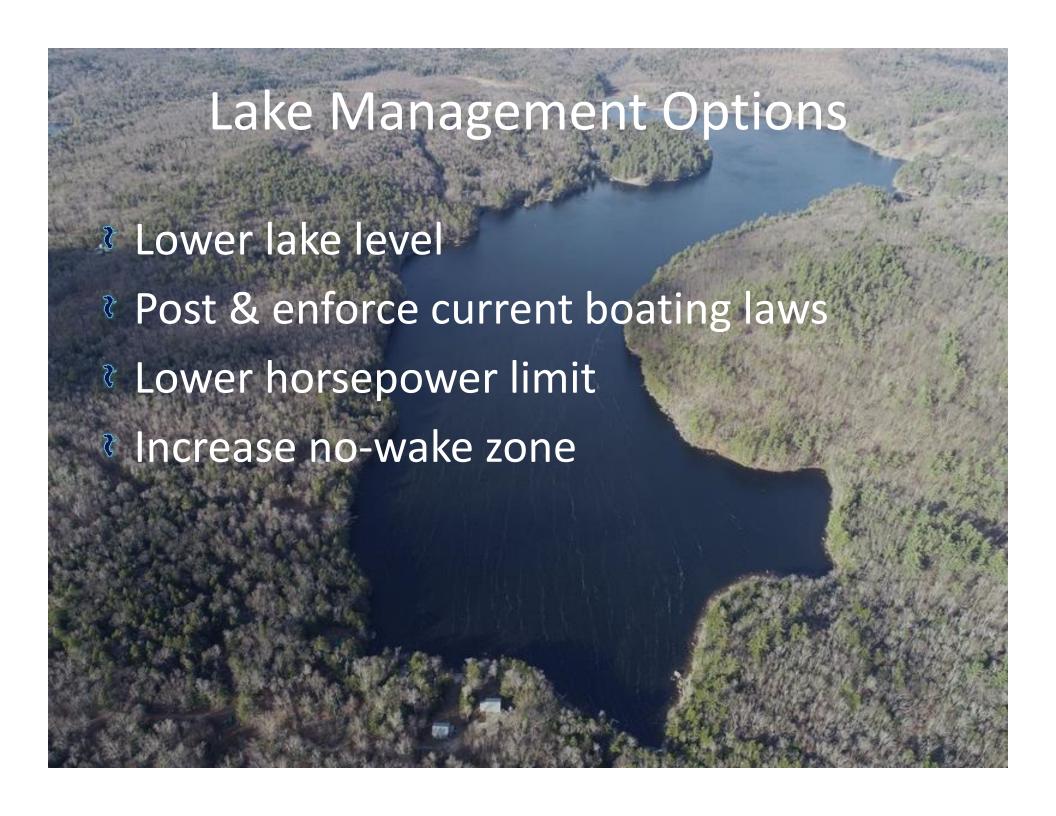
Lakefront residential district
Single family minimum lot size ~2
acres
Duplex minimum lot size ~3 acres

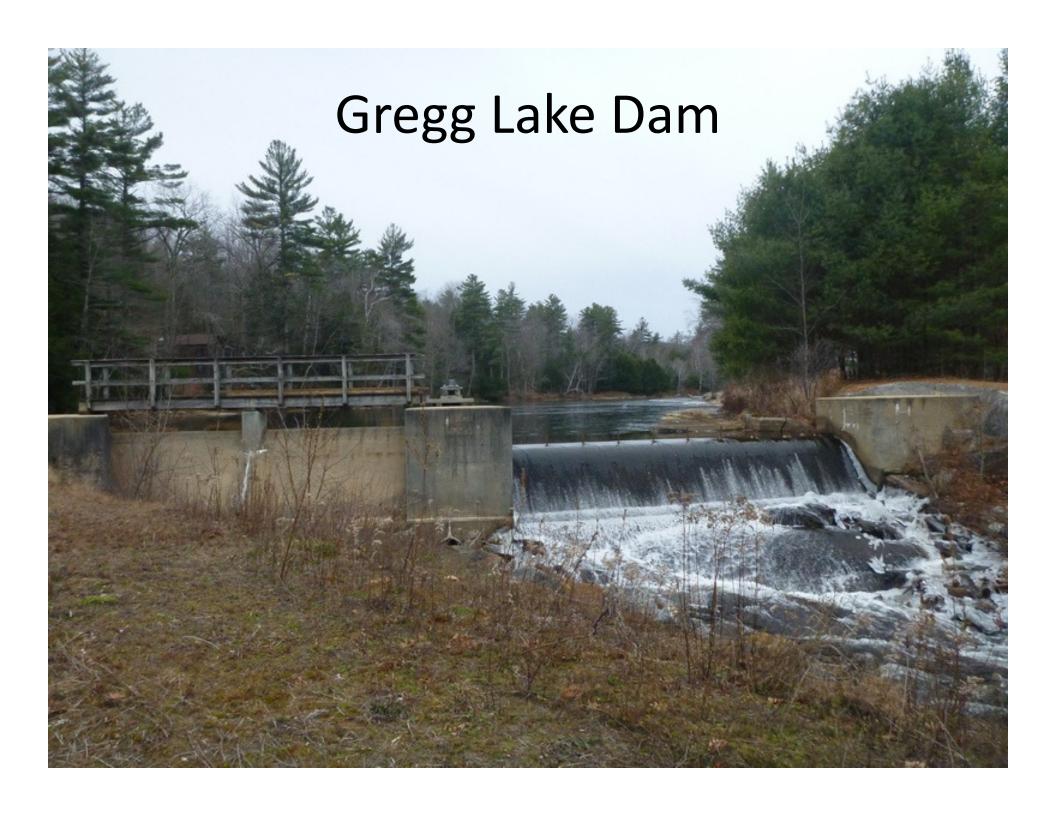
Potential for 275 additional buildings



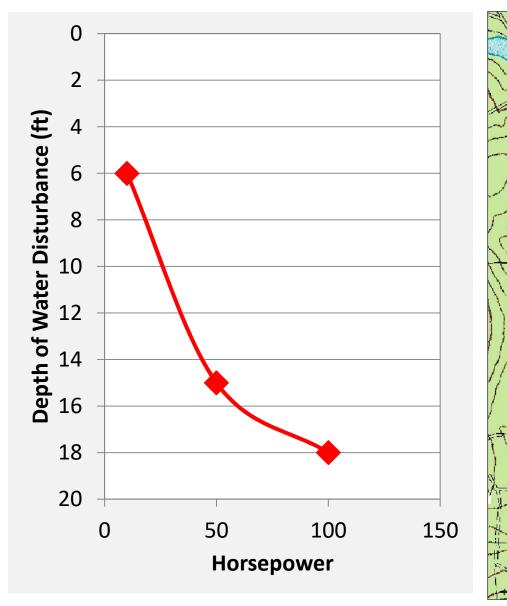
#### Conservation Easements

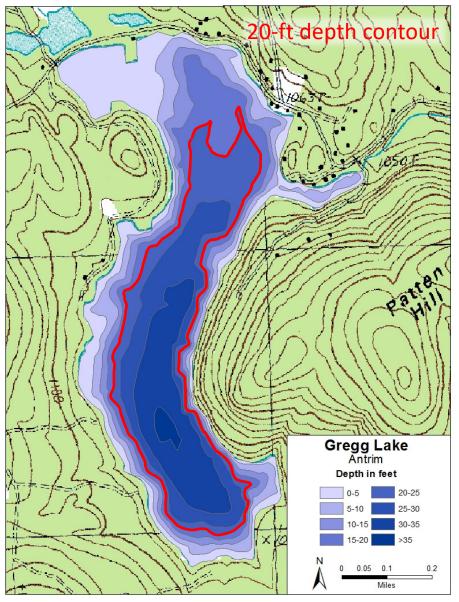


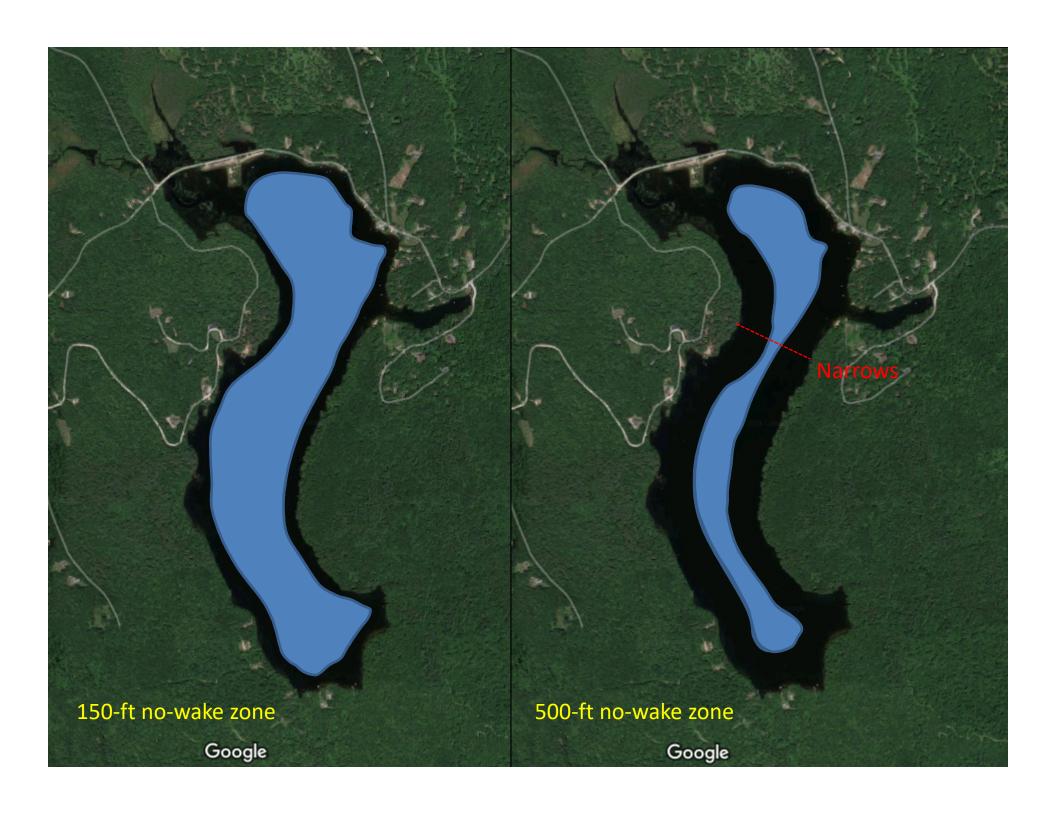




#### Motorboat Impacts — Depth & Wake







# **Shoreline Erosion**



### Action Plan—2020 Goal

Action	Responsible	P Load Reduction (lb/yr)
Brimstone Corner Rd	TOA/HWY	6.0
Craig Rd/Bridge	TOA/HWY	0.3
Conservation easement (prevent 8 houses)	Private	5.1
Lower Lake Level	TOA/HWY	2.0
Enforce current boating laws	WMPC	1.5
Stormwater BMPs/Landscaping (4)	Private	1.7
Septic upgrades (2)	Private	1.0
Beaver box (Craig Rd bridge)	TOA	0.2
Apply for grant funding	WMPC	
	Total for 2020	12.5 + 5.3
	Target	11 + 6.6

### Action Plan—2023 Goal

Action	Responsible	P Load Reduction (lb/yr)
Gregg Lake Rd/Causeway	TOA/WMPC/Grant	3.7
Beach/Boat Launch	TOA/WMPC/Grant	1.8
White Birch Point Rd	TOA/HWY	2.8
Stormwater BMPs/Landscaping (5)	Private	2.2
Septic upgrades (2)	Private	1.0
Reduce HP limit	TOA/WMPC	2.0
Increase no-wake zone	TOA/WMPC	1.0
Culvert/Catch basin maintenance	TOA/HWY	1.5
Zoning/Ordinances	TOA/WMPC	2.5
Conservation easement	Private	2.5
	Total for 2023	16 + 5.0
	<b>Cumulative Total</b>	28.5 + <b>10.3</b>
	Target	22 + 11

### Action Plan—2028 Goal

Action	Responsible	P Load Reduction (lb/yr)
Holt Hill Rd	TOA/HWY	1.7
Gregg Lake Rd/Causeway/Bridge	TOA/WMPC/Grant	2.0
Stormwater BMPs/Landscaping (15)	Private	5.8
Septic upgrades/maintenance (9)	Private	4.5
Culvert/Catch basin upgrades/maintenance	TOA/HWY	1.5
Conservation easement	Private	2.2
Zoning/Ordinances	TOA/WMPC	2.5
	Total for 2028	<b>15.5 + 4.7</b>
	<b>Cumulative Total</b>	44 + 15
	Target	44 + 15

