

# THOMPSON LAKE Watershed Survey Report

**MAY 2023** 

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Thompson Lake Environmental Association



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#### **Acknowledgements**

Following are the names of the individuals and their respective organizations who assisted with the Thompson Lake Watershed Survey and deserve recognition for their efforts.

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Special thanks to the Thompson Lake Environmental Association for providing lunch, as well as hats and other helpful materials, to all who assisted during the watershed survey. Additional thanks go to the Maine Department of Environmental Protection for providing the necessary technical materials to record the watershed survey data.

#### **Contents**

Acknowledgements	ii
Thompson Lake Watershed Survey Sector Map	vi
Introduction	1
Threats to Water Quality	1
Watershed Information	4
Summary of Prior Watershed Work	4
Ongoing TLEA Activities	6
Watershed Survey Purpose	6
Watershed Survey Methods	7
Results	8
Thompson Lake Watershed Survey Site Map	9
Summary of Sites by Land Use Type	10
Additional Site Examples	17
Low Impact Sites	17
Medium Impact Sites	19
High Impact Sites	20
Recommendations	22
Next Steps	25
Resources	26
Conservation Practices for Property Owners	26
Contacts	27
Permitting Information	28
Appendices	29
Appendix A: Sector Maps	30
Appendix B: Sector Descriptions	56
Appendix C: Thompson Lake Watershed Survey Form	60
Appendix D: Table of Thompson Lake Watershed Survey Sites	62

## Thompson Lake Watershed Survey Sector Map

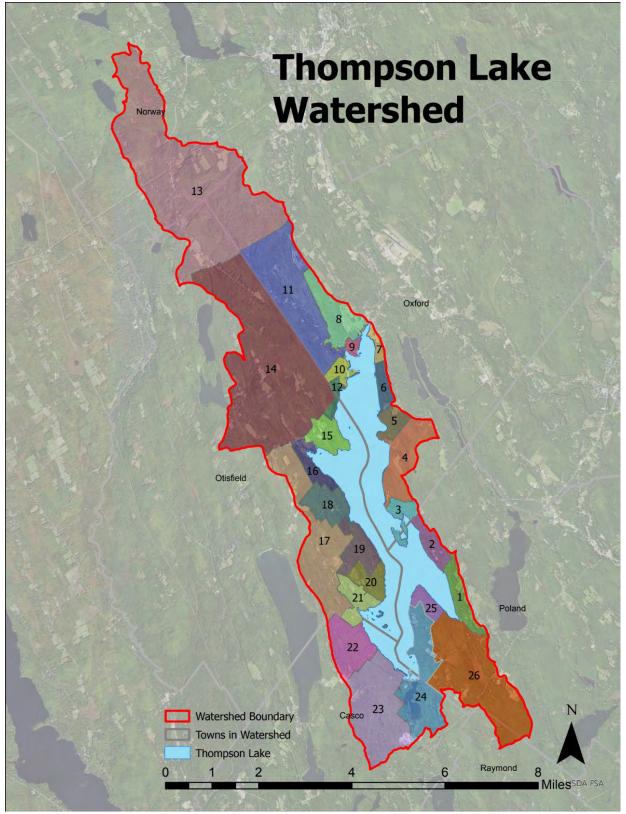


Figure 1. Map of the Thompson Lake Watershed Survey sectors.

Credit: Maine DEP

#### Introduction

This report summarizes results of the non-point source (NPS) pollution watershed survey conducted within the Thompson Lake Watershed in the spring of 2023. This survey was organized by Thompson Lake Environmental Association (TLEA) and conducted by residential volunteers led by trained surveying professionals from Maine Department of Environmental Protection Agency, Cumberland County Soil and Water Conservation District (SWCD), Andy Valley SWCD, Oxford County SWCD, and independent consultants. The survey identified areas of erosion that are causing, or could cause, sediment deposition into the lake that can impact water quality. Identifying such sites allows TLEA and lake stakeholders to determine overall watershed needs and pursue assistance to best help protect and improve Thompson Lake through updating Thompson Lake's 2013 Watershed Protection Plan. Thus, information gathered from the survey provides an overall snapshot of the lake's status at the time the survey was conducted. All site-specific recommendations listed from this survey are generic and may require more detailed remediation plans and permits prior to addressing.

#### Threats to Water Quality

The greatest threat to Thompson Lake's water quality is non-point source (**NPS**) pollution, primarily from soil erosion. Soil particles from erosion can decrease water clarity and disrupt conditions necessary to support a healthy environment for fish and other aquatic life. Soil particles also easily bind to other pollutants, particularly phosphorus, which can greatly impact

#### **Non-Point Source (NPS) Pollution:**

Pollution that is difficult to identify as having an individual source or point of origin because it likely is coming from multiple different sources. In the case of this report, NPS pollution refers to pollution caused by stormwater runoff that picks up pollutants as it drains through the Thompson Lake watershed.

lake water quality. Excess phosphorus washing into Thompson Lake from soil erosion and other sources can increase algal and aquatic plant growth. As the algae and plants die off, the amount of dissolved oxygen available in the lake's water column decreases, which impacts fish and other more advanced aquatic organisms that rely on oxygen-rich waters for survival.

#### **Phosphorus:**

Phosphorus is a critical nutrient for supporting plant growth yet in excess it can considerably impact lake water quality. It is considered the limiting nutrient for algae and aquatic plant growth. Algal blooms, a quick and excessive growth of algae, can be caused by an increase of phosphorus in a waterbody, in turn decreasing water quality.

Reducing soil erosion greatly reduces the amount of phosphorus washing into a waterbody. Soil erosion commonly occurs in areas where once forested lands have been developed particularly on residential properties, driveways, and roads. Other sources of excess phosphorus loading to a lake can come from fertilizer use, pet waste, failing or improperly operating septic systems, and impervious areas such as rooftops and paved roads and driveways.

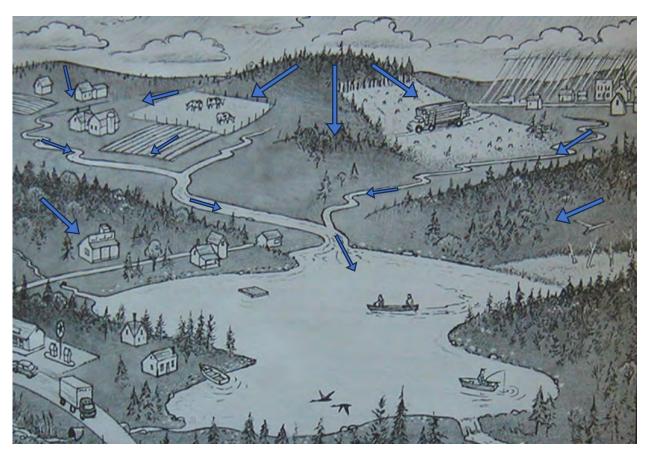


Figure 2. Image depicting the movement of water through a watershed.

Credit: Maine DEP

#### Watershed:

A watershed is an area of land where all water from precipitation, rivers, streams, and other channels drains to a particular waterbody (**See Figure 2**). Larger watersheds can be made up of smaller watersheds that each have their own specific drainage area. Watersheds are separated from each other by their surrounding elevated terrain or ridges, called drainage divides.

Because all water within a watershed will drain to a certain location, in the case of this report, Thompson Lake, many activities can influence its water quality. It is important to consider what is being drained into ditches, streams, rivers, and across roads and other impervious surfaces when identifying sources of NPS pollution in a watershed.

#### Watershed Information

Thompson Lake is a 4,419-acre lake located in the towns of Oxford, Poland, Casco, and Otisfield in southwest Maine (**See Figure 1**). The lake's watershed covers a total area of about 22,400 acres, or 35.3 square miles, and resides within Androscoggin, Cumberland, and Oxford County. The lake has a flushing rate of 0.2 times/year and drains to the Little Androscoggin River in Oxford. The lake is currently listed as *Threatened* on MDEP's list of *Nonpoint Source Priority Watersheds* due to its outstanding water quality and sensitivity to phosphorus loading and is also listed on Chapter 502 of the Maine Stormwater Law's *Lakes Most at Risk from New Development*.

The Thompson Lake Watershed is a valuable resource to the economy and quality of life in its associated towns. The watershed is the setting for over 1,300 seasonal and year-round residences. Public access for boaters is provided at three launches in Oxford (Pismo Beach, Robinson Marina, and the Thompson Lake Public Boat Launch off Route 121), Thompson Lake Marina in Casco, and through one access point at the end of Otisfield Cove Road in Otisfield. Oxford residents enjoy the Town's Pismo Beach on the lake. Three summer youth camps: Agassiz Village and Camp Fernwood in Poland and Kamp Kohut in Oxford, draw hundreds of campers annually. Thompson Lake attracts many day users during every season but especially for winter and spring fishing. The Maine Department of Inland Fisheries & Wildlife manages the lake for landlocked salmon. With a maximum depth of 121 feet, the Lake provides extensive fish and wildlife habitat and outstanding opportunities for swimming and boating.

The Thompson Lake Watershed provides a significant benefit to the surrounding regional economy and is the setting of important habitat for Maine's wildlife. Furthermore, the lake is personally significant to many residents in the area. Thompson lake is generally considered to have stable water quality, but shoreline development and other human activities near the lake have the potential to put the watershed at risk. Thompson Lake's water quality is of both significant environmental and economic concern, which is why continued efforts have been made to protect the watershed. Formed in 1971, from a group of over 150 individuals focused on the mission of preserving Thompson Lake's water quality, the Thompson Lake Environmental Association (**TLEA**) has played an essential role in organizing environmental protection projects for the watershed.

#### Summary of Prior Watershed Work

TLEA and partners first conducted watershed surveys in 1994 and 1999. The 1994 survey was funded by Section 604 (b) of the Clean Water Act and was sponsored by the Maine Congress of Lake Associations. This survey led to the first 319 implementation project on Thompson Lake in 1995: the *Thompson Lake Watershed Project -Phase I* (319 grant #95-09), which included costsharing erosion-control demonstration projects throughout the watershed, technical assistance, workshops, and public education.

The 1999 watershed survey was part of the *Thompson Lake Watershed Management Plan* (319 grant #998-04) and was sponsored by a coalition including TLEA, the Maine Department of Environmental Protection (**Maine DEP**), consultants, and the Soil and Water Conservation Districts (SWCDs) in Androscoggin and Oxford Counties. This led to the second implementation project on Thompson Lake in 2001: the *Thompson Lake Watershed Management Plan* 

Implementation Project -Phase II (319 grant #2001R-10), which was sponsored by the Androscoggin Valley SWCD. This project created the Thompson Lake Youth Conservation Corps (YCC), installed cost-share erosion control demonstration projects, and provided education and outreach on NPS pollution and water quality protection.

In 2008-2010, TLEA funded a survey of the western portion of the watershed (southern part of Otisfield). Ninety-six soil erosion sites were identified (*Thompson Lake Watershed Survey in Otisfield - 2008*). In 2009, the southern sections of the watershed located in Casco and Poland were surveyed and resulted in the identification of 109 sites. The remaining northern sections of the watershed, located in Oxford, Norway, and the northeastern portion of Otisfield were surveyed in 2010. This final phase of the survey identified 143 sites. These surveys are jointly referred to as *Thompson Lake Watershed Survey - Southern and Northern Sections*.

Based on the findings of the 2008 survey, TLEA applied for and was awarded funding to conduct the *Thompson Lake Watershed Improvement Project - Phase III, Otisfield* (319 grant #2010RR08) from 2010 through 2012. Through this project, 18 NPS sites were addressed within the Town of Otisfield, 25 technical assistance site visits were conducted, and 10 residential matching grants were awarded.

To continue the successful NPS remediation work completed to-date, the Cumberland County Soil and Water Conservation District (**CCSWCD**) working with TLEA sought out and was awarded 319 implementation grant funds in 2013 to help address the highest priority NPS sites in Casco and Poland through a Phase IV *Thompson Lake Watershed Improvement Project* which began in 2014. During this phase, 12 abatement sites were addressed and over 30 technical assistance site visits were conducted throughout the Casco and Poland region of the watershed. Additionally, public awareness was prioritized during this phase to educate the public on watershed issues and promote stewardship through technical assistance and outreach presentations. After the conclusion of this phase in 2016, over 27 tons of sediment, equating to over 23 pounds of phosphorus, per year, were no longer draining into Thompson Lake due to the BMPs installed at the 12 abatement sites.

#### **Ongoing TLEA Activities**

TLEA is committed to the protection of the Thompson Lake Watershed and organizes the following activities and programs for water conservation efforts:

- Recurring water quality testing for phosphorus, Chlorophyll a, color, conductivity, pH, and living organisms.
- Milfoil removal and invasive species monitoring. TLEA has removed over 500 tons of milfoil from the watershed and monitors for milfoil reinfestation every summer.
- Managing a courtesy boat inspection program for identifying, removing, and preventing the introduction of invasive aquatic plants.
- Implementing the Youth Conservation Corps to assist landowners by addressing erosion and installing erosion control BMPs on their properties.
- Supporting the Maine LakeSmart program and other public education programs.
- Conducting an annual loon count on Thompson Lake.
- Distributing a seasonal newsletter, *The Observer*, to members of the TLEA to provide updates on Thompson Lake and its ongoing conservation efforts.

#### TLEA Youth Conservation Corps (YCC)

TLEA currently hosts a yearly Youth Conservation Corps program to assist residents in implementing lake water quality protection conservation practices. The YCC began in 2002 as part of a 319 Federal Clean Water Act grant. Federal funding ended in 2004. Because the YCC was very popular with watershed residents, TLEA decided to continue the program and seek out numerous funding sources to keep it going.

#### **Watershed Survey Purpose**

The 2023 Thompson Lake Watershed Survey, hereafter referred to as the "survey" or "watershed survey," was conducted to update data on sources of erosion and NPS pollution throughout the Thompson Lake Watershed to guide future lake protection efforts, particularly to be used in obtaining federal grant funding. **This survey was not conducted to be used for any enforcement purposes.** The survey was also conducted to raise awareness to the public and inform landowners about the impact of NPS pollution on Thompson Lake. Data collected from the survey will be used to create an updated watershed protection plan which will outline steps needed to best protect and improve the water quality of Thompson Lake.

#### **Watershed Survey Methods**

The watershed survey was conducted following Maine DEP's "A citizen's guide to Volunteer Lake Watershed Surveys", 2011. Twenty-six sectors were designated within the Thompson Lake Watershed to be surveyed. Each of these sectors were assigned to be surveyed by a small group of volunteers led by one trained technical leader. Most of the watershed survey was conducted on May 19th and 20th of 2023 with follow-up work completed on June 22nd of 2023.

The watershed survey's steering committee was comprised by representatives of TLEA, Maine DEP, CCSWCD, Town of Otisfield, Town of Poland, Androscoggin Valley Soil and Water Conservation District (AVSWCD), and Oxford County Soil and Water Conservation District (**OCSWCD**) and assisted in coordinating all surveying logistics. Watershed survey volunteers attended a training hosted by the Maine DEP. 2140 postcards were sent by TLEA prior to May 19th to inform landowners within the watershed about the survey and provide an option to optout of having their property surveyed. TLEA received 18 opt-out requests. Survey sector maps and information packets were created by Maine DEP and provided to volunteers and technical leaders during the survey. All developed areas within each sector were assessed, excluding forested areas, wetlands, or properties who opted out of being surveyed. Focus was given to human activity land use changes such as paved areas, properties, trails, culvert crossings, and other areas concerned with stormwater runoff. A site would be documented if it was determined to likely be bringing sediment or polluted runoff into the lake. Tablet computers were used to document the sites using the ArcGIS Survey123 application. Documented site attributes included signs of erosion, type of erosion, size of the eroded area, site number, site pictures, location description, GPS coordinate location, land use type, slope, level of filtering or size of buffer, problem description, problem solutions, the expected technical level to install, and the expected cost to fix (See Appendix C).

After all relevant site attributes were collected, an impact score for the site was calculated based on the type of erosion, the size of the area affected, and the presence of filtering or buffers. Each of the possible values for these attributes were given individual scores of 1, 2, or 3. The total impact score was determined by the sum of these individual scores, and were designated as Low (3-5 points), Medium (6-7 points), or High (8-9 points) (**See Figure 3**). This impact score was used to help determine the priority of each site and the potential for a site to impact the water quality of Thompson Lake.

Type of Erosion	Area	Buffers and Other Filters
Gully - 3	Large - <b>3</b>	No filter, all channelized direct flow into lake or stream - 3
Rill - 2	Medium - 2	Some buffer or filtering, but visible signs of concentrated flow and/or sediment movement through buffer and into lake - 2
Sheet - 1	Small - <b>1</b>	Significant buffer or filtering - 1

**CCSWCD** 

Impact (sum of Type of Erosion and Area): High: 8-9 points, Medium: 6-7 points, Low: 3-5 points

Figure 3. Table used to determine site impact ratings.

#### **Results**

The Thompson Lake Watershed survey identified a total of 299 sites that may be impacting, or have the potential to impact, the water quality of the Thompson Lake Watershed (**See Figure 6**). Most sites identified in the survey were located along the shoreline or at nearby residential areas and roads. About 194 of the 299 sites were within 250 feet of the shoreline. Of the 299 identified sites, 100 (34%) were low impact, 132 (44%) were medium impact, and 67 (22%) were high impact (**See Figure 4**).

The sectors that contained the most sites were Sector 18, with 21 sites, Sector 6, with 22 sites, and Sector 12, with 25 sites. The sectors that contained the largest number of high impact sites were Sector 23, with 6 high impact sites, Sector 12, with 7 high impact sites, and Sector 18, with 9 high impact sites. (**See Figure 5**). High impact sites should be prioritized, as they are likely contributing the most significant sediment load into Thompson Lake.

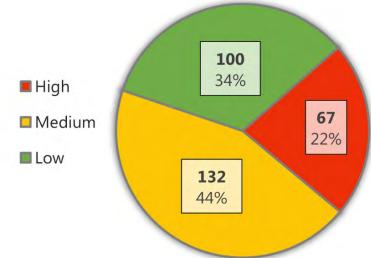


Figure 4. Distribution of site impact ratings.

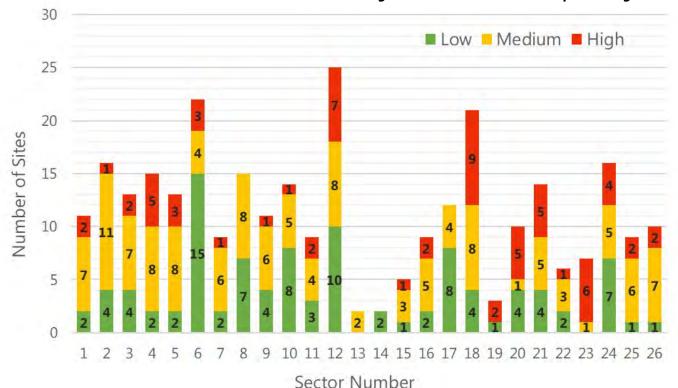


Figure 5. Distribution of the number of sites and their level of impact per sector.

# Thompson Lake Watershed Survey Site Map

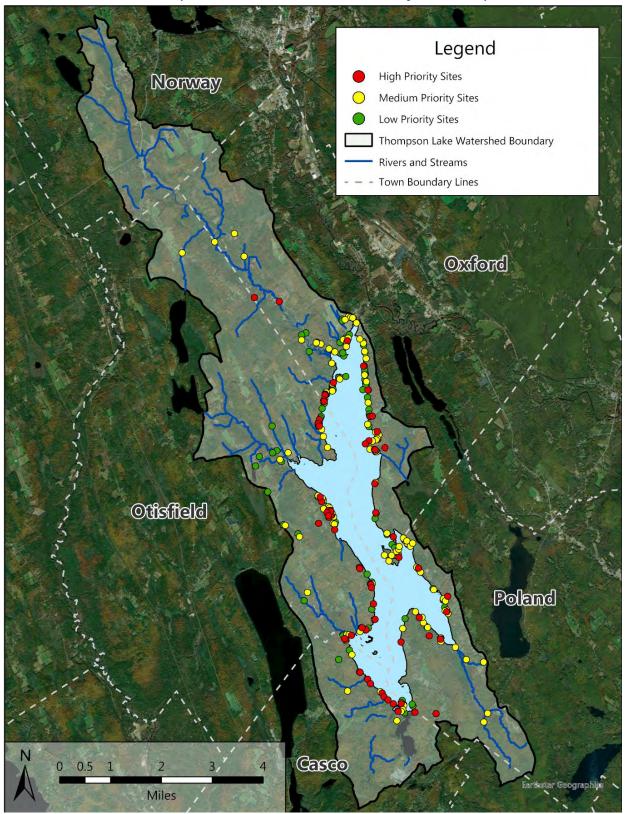


Figure 6. Map of the 2023 Thompson Lake NPS Sites, Impact Rating.

The projected cost to address each site was estimated during the survey (**See Figure 7**). Of the 299 sites, 69 were projected to be high cost (more than \$2500), 150 were projected to be medium cost (\$500 to \$2500), and 80 were projected to be low cost (less than \$500). High costs were often associated with medium or high impact sites, whereas low costs were more often associated with low impact sites. Many low impact sites were also found on residential properties and can more easily be addressed directly by landowners due to their lower costs.

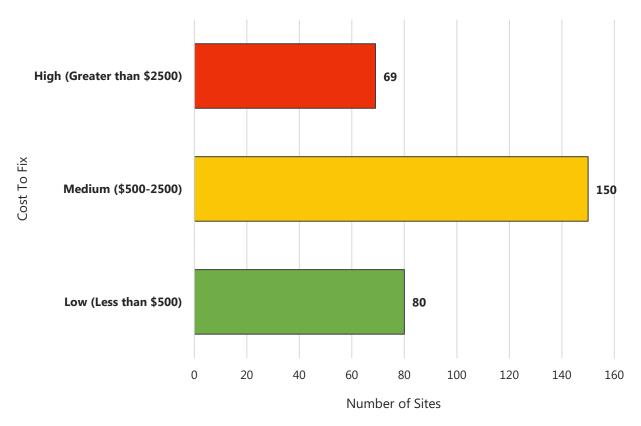


Figure 7. Number of sites by their projected cost to fix.

#### Summary of Sites by Land Use Type

Documented NPS sites were categorized by the type of land use associated with them. Land use types included "Residential," "Driveways," "Private Roads," "Town Roads," "State Roads," "Beach Access," "Boat Access," "Commercial," "Trails or Paths," and an "Other" category for sites that could not be defined into any of the other categories (**See Figure 8**). The impact ratings for each land use category were assessed from the survey results (**See Figure 9**).

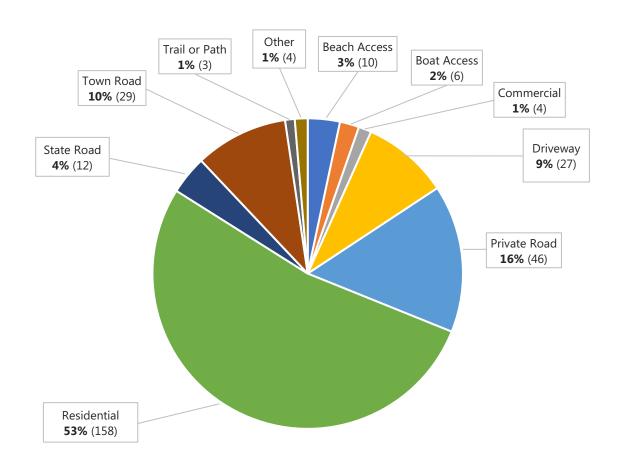


Figure 8. Distribution of sites per land use type.

Land Use Type	Low Impact	Medium Impact	High Impact	Total
Residential	60	75	23	158
Private Road	11	17	18	46
Town Road	10	13	6	29
Driveway	6	14	7	27
State Road	3	5	4	12
Beach Access	4	4	2	10
Boat Access	3	1	2	6
Other	0	1	3	4
Commercial	1	2	1	4
Trail or Path	2	0	1	3

Figure 9. Table of site impact ratings by land use type.

#### **Residential:**

The watershed survey identified a total of 158 residential sites. Out of those 158 sites, 60 were low impact, 75 were medium impact, and 23 were high impact. This land use type made up the majority of sites. These sites were identified by any erosion occurring on a residential property, Residential sites were often found along or near the edge of the shoreline, as much of the housing and developments is lakefront property.

Residential sites are often related to areas that see frequent use and foot traffic, like paths, beach access areas, and boat access areas. Common problems at residential sites include bare soils, surface erosion, roof runoff erosion, and inadequate or lack of shoreline vegetation. The combination of surface erosion with a lack of shoreline vegetation can allow polluted runoff to more easily enter the lake without any filtering.





#### **Driveways:**

The watershed survey identified a total of 27 driveway sites that were separate from the residential sites. Out of those 27 sites, 6 were low impact, 14 were medium impact, and 7 were high impact.

A common problem at driveway sites is sheet surface erosion, and oftentimes as more problematic surface erosion in the form of channelized rills or gullies. Additional problems at driveway sites are often associated with ditch erosion and culvert failures. Driveway sites at lakefront properties often direct stormwater straight towards the shoreline. Without adequate stormwater controls, stormwater runoff on driveways can result in surface erosion carrying sediment into the lake.

Site 21-10: Low impact driveway site that has identified sheet erosion.



#### **Private, Town, and State Roads:**

The watershed survey identified a total of 87 road sites. Out of these 87 sites, 46 were private roads, 29 were town roads, and 12 were state roads. Additionally, 24 of these sites were low impact, 35 were medium impact, and 28 were high impact.

Common problems at road sites include road shoulder erosion, winter sand build-up, ditch erosion, ditch bank failure, culvert instability, culvert clogs, undersized culverts, and other larger drainage issues associated with culverts. Erosion from roadways is often more significant and can pose a larger threat to water quality.

Site 12-16: High impact state road site that has identified gully surface erosion, a clogged and unstable culvert, ditch erosion, road shoulder erosion, and buildup of winter sand, and evidence of a considerable amount of sediment and gravel washing into a catch basin.



#### **Beach Access and Boat Access:**

The watershed survey identified a total of 10 beach access sites and 6 boat access sites. Of the 10 beach access sites, 4 were low-impact, 4 were medium-impact, and 2 were high-impact. Of the 6 boat access sites, 3 were low impact, 1 was medium impact, and 2 were high impact.

Common problems at beach and boat access sites include unstable shoreline access, lack of shoreline vegetation, shoreline erosion, and bare soil. Shorelines are susceptible to erosion if native vegetation has been removed, or if the area frequently experiences heavy foot traffic.



Site 12-22: High impact beach access site. This site has identified surface erosion in the form of sheet, rill, and gully erosion, as well as bare soil, shoreline erosion, and a lack of shoreline vegetation as primary problems.

#### **Commerical:**

The watershed survey identified a total of 4 commerical sites. Out of those 4 sites, 1 was low impact, 2 were medium impact, and 1 was high impact.

Common problems at commerical sites vary, but those identified from the survey were surface erosion, lack of shoreline vegetation, bare soils, unstable shoreline access.



Site 20-01: A low impact trail/path site that has identified sheet surface erosion.



Site 4-03: A high impact commercial site. This site has identified gully surface erosion, shoreline erosion, and inadequate shoreline vegetation as primary problems.

#### **Trails or Paths:**

The watershed survey identified a total of 3 trail or path sites. Out of those 3 sites, 2 were low impact, and 1 was high impact.

The most common problem on trails and paths is surface erosion, which is influenced by frequent foot traffic.

#### Other:

The watershed survey identified 4 sites that could not be catergorized into any of the other land use types. Some of the land uses for the sites in this catergory were a summer camp, a volleyball court, and areas that may have included both private and municipal property. Of these 4 sites, 1 was medium impact, and 3 were high impact.



Site 7-03: A medium impact 'other' site that has identified gully sheet erosion at a volleyball court in Sector 7

# **Additional Site Examples**

Below are examples of additional sites that were identified during the watershed survey, grouped into their respective site impact rating.

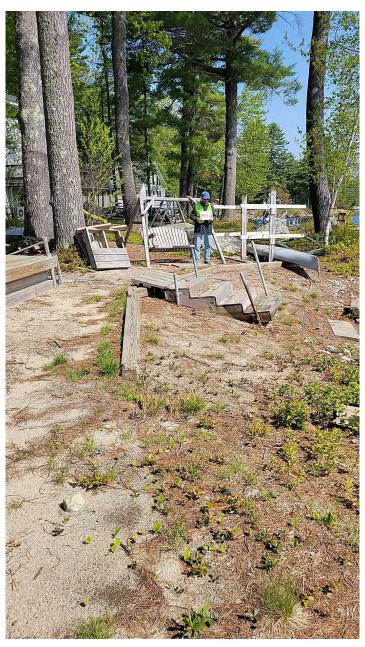
## **Low Impact Sites**



Site 3-04: Low impact residential site.



Site 3-04: Low impact driveway site.





Site 11-02: Low impact town road site.

# **Medium Impact Sites**









Site 8-09: Medium impact town road site.

# **High Impact Sites**





Site 1-10: High impact residential site. Large area experiencing gully erosion flowing directly into the lake without a buffer.

Site 18-21: High impact residential site. Few erosion and sediment controls for active construction on site.





Site 26-03: High impact private road site.

Site 18-05: High impact town road site.

#### **Recommendations**

The table below provides examples of recommendations that are often suggested for addressing common site issues. The recommendations are separated into several distinct categories associated with what is present at the site land use types.

Culverts		
Armor Inlet or Outlet	Stone, or similar aggregate material, can be used to armor the areas outside of the inlet or outlet to protect them from further erosion.	
Enlarge or Access Drainage Area	The drainage area of a culvert, areas that drain runoff to the inlet of a culvert, may change over time. If the amount of stormwater collected in a drainage area increases from when a culvert was originally constructed, the culvert may need to be enlarged to accommodate for the larger volume of stormwater. Culverts that are sized too small can cause erosion due to high velocity runoff discharging from the outlet.	
Install Plunge Pool	Plunge pools are structures that are installed outside of outfalls to reduce high velocity runoff and turn it into sheet flow. These structures are not installed directly in streams.	
Remove Clog	Over time, culverts can collect sediment and other debris that can restrict flow and cause larger drainage issues. Occasional maintenance is needed to clean out clogs from culverts to ensure they are working as intended.	
Replace	Culverts may need to be replaced as they deteriorate over time naturally or are inadvertently damaged or crushed beyond the point of repair.	

Ditch	
Install Check Dams	Check dams are berms, often made with stone or other aggregate materials, that can be installed in ditches to reduce the velocity of channelized stormwater runoff.
Install Turnouts	Turnouts are additions to ditches that allow stormwater runoff to divert away from the ditch and towards a natural, vegetated area. This allows the runoff to slow down and turn into sheet flow, which can reduce the rate of channelized stormwater erosion and allow suspended sediment to settle.
Vegetate	Bare areas can be seeded in ditches to stabilize soil and prevent erosion. Vegetation will also help slow down the velocity of stormwater runoff in ditches.
Roads and Driveways	
Install Catch Basin	A catch basin may be recommended to install on a road if it is experiencing drainage issues or sedimentation in a low spot.
Install Runoff Diverters	Runoff diverters can be installed into driveways and roads in the form of rubber razor water bars, open top culverts, and broad-based dips. These diverters move runoff away from roads and often towards vegetated areas where the runoff can slow down and spread out as sheet flow.
Reshape (Crown)	Reshaping or crowing a road can help divert water from the roadway and prevent erosion and other drainage issues.
<b>Construction Site</b>	
Install Erosion and Sediment Controls	Recommendations are often provided for construction sites if adequate erosion and sediment controls are not identified. Common erosion and sediment controls on construction sites are erosion control mulch, erosion control berms, silt fences, and check dams.
Paths	
Install Infiltration Steps	Infiltration steps are structures (stairs/steps) made from crushed stone that help infiltrate stormwater runoff and prevent it from causing surface erosion on slopes that are often used as foot paths.

Roofs	
Install Drywell at Gutter Downspout	A drywell is small area of crushed stone that is installed at the discharge point of a gutter downspout to collect runoff and reduce the energy from high velocity flows.
Install Infiltration Trench at Roof Dripline	An infiltration trench is a trench lined with crushed stone that is installed along the dripline of a roof to prevent erosion from roof runoff.
Install Rain Barrel	Rain barrels can be used to collect and store water from roof runoff. Gutter downspouts can be moved to redirect runoff into rain barrels. Collected runoff is helpful for conserving water and can be used to water gardens or other plants.
Vegetation	
Establish or Add to Buffer	Adding vegetation to the shoreline can help act as a buffer for collecting sediment and a filter for stormwater. Vegetation can also help hold soil in place to prevent erosion occurring directly on the shoreline.
Limit/No Raking	Limiting raking and leaving a layer of leaves on the ground can help reduce surface erosion from rainfall. The decomposition of leaf litter can also be beneficial for building healthy soil.
Seed Bare Soil	Seeding bare soil can help stabilize soil to prevent erosion and will also help reduce the velocity of stormwater runoff.
Other	
Erosion Control Mulch	Erosion control mulch is a specifically designed mulch that can be used on bare or exposed soil to help prevent erosion from rainfall or runoff. This is helpful to use until an area can be seeded and vegetation is established.
Install Rain Garden	Rain gardens are bowl shaped gardens that have stormwater runoff intentionally diverted towards them for the purpose of filtration.
Install Riprap	Riprap can be installed in instances where considerable soil erosion is occurring on an unstable bank slope that needs to be armored to prevent further erosion or washouts. It should be noted that riprap is intended mainly for stabilization and does not actively filter pollutants from stormwater.

#### **Next Steps**

TLEA, with support from a steering committee comprised of local stakeholder, will create an updated Watershed Protection Plan using the information gathered from the watershed survey. The updated protection plan will provide a list of action items, methods, and timeline for lake protection efforts for the next 10 years. The protection plan will prioritize impact sites identified from the survey and include estimated action item costs, along with resources and potential funding sources. The completion of an updated Thompson Lake Watershed Protection Plan will also allow the waterbody to be eligible for federal Section 319 Clean Water Act grant funds to assist in addressing impact sites. Addressing NPS sites found from the watershed survey and implementing practices to maintain the water quality of Thompson Lake will require the combined efforts of the TLEA, landowners, and other relevant state and local organizations.

#### **Resources**

#### **Conservation Practices for Property Owners**

Landowners are encouraged to address NPS pollution sites on their property that can be reasonably managed without outside assistance. This watershed survey report provides general information that may give landowners a better idea of how to make their property more resilient and manage NPS pollution. Factsheets on implementing conservation practices to protect lake water quality are available on **Cumberland County Soil and Water Conservation District's website:** <a href="https://www.cumberlandswcd.org/documents-1/yardscaping">https://www.cumberlandswcd.org/documents-1/yardscaping</a>

Relevant factsheets include:

Addressing Driveway	• Infiltration Steps	• Small Shrubs
Runoff	• Live Staking	• Soil Drainage
Addressing Roof Runoff	• Paths	• Soil Testing
• Diverters	<ul><li>Perennials</li></ul>	• Tall Shrubs
• Erosion Control Mulch	• Planting	• Trees
• Groundcovers	Site Design	• Vegetative Buffer

**CCSWCD** 

#### Contacts

Thompson Lake Environmental Association (TLEA)

Mailing Address: PO Box 25, Oxford, ME 04270

Office Address: 163 Pleasant Street, Oxford, ME 04270

Phone: (207)-539-4535

Website: <a href="https://thompsonlake.org/">https://thompsonlake.org/</a>

#### Maine Department of Environmental Protection (Maine DEP)

Watershed Management and/or Shoreland and Natural Resource Protection Act Permitting and Regulations

Mailing and Office Address: 312 Canco Road #4, Portland, ME 04103

Phone: (207)-822-6300

Watershed Management Website: <a href="https://www.maine.gov/dep/land/watershed/index.html">https://www.maine.gov/dep/land/watershed/index.html</a>

Shoreland Zoning Website: <a href="https://www.maine.gov/dep/land/slz/">https://www.maine.gov/dep/land/slz/</a>

Natural Resource Protection Act permitting: <a href="https://www.maine.gov/dep/land/nrpa/">https://www.maine.gov/dep/land/nrpa/</a>

#### Androscoggin Valley Soil and Water Conservation District (AVSWCD)

Mailing and Office Address: 254 Goddard Road, Lewiston, ME 04240

Phone: (207)-241-5374

Website: https://www.androscogginswcd.org/

#### Cumberland County Soil and Water Conservation District (CCSWCD)

Mailing and Office Address: 35 Main Street, Suite #3, Windham, ME 04062

Phone: (207)-892-4700

Website: <a href="https://www.cumberlandswcd.org/">https://www.cumberlandswcd.org/</a>

#### Oxford County Soil and Water Conservation District (**OCSWCD**)

Mailing and Office Address: 17 Olson Road, Suite #3, South Paris, ME 04281

Phone: (207)-744-3111

Website: <a href="https://oxfordcountyswcd.org/">https://oxfordcountyswcd.org/</a>

#### **Permitting Information**

Maine watershed protection is ensured through the cooperation of lake residents and through laws and ordinances created and enforced by the State of Maine and local municipalities. The following laws and ordinances require permits for activities adjacent to wetlands and waterbodies.

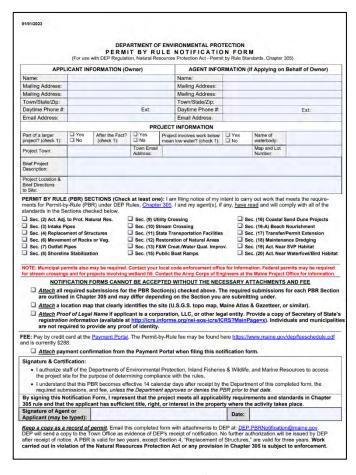
**Shoreland Zoning Law**: Construction, clearing of vegetation and soil movement within <u>250 feet</u> of lakes, ponds, and many wetlands, and within <u>75 feet</u> of most streams, falls under the Shoreland Zoning Act, which is administered by through town's Code Enforcement Officer and the Planning Board.

**Natural Resources Protection Act (NRPA)**: Soil disturbance & other activities within <u>75 feet</u> of the lakeshore or stream also falls under the NRPA, which is administered by the DEP. Contact the DEP and Town Code Enforcement Officer if you have any plans to construct, expand or relocate a structure, clear vegetation, create a new path or driveway, stabilize a shoreline or otherwise disturb the soil on your property. Even if projects are planned with the intent of enhancing the environment, contact the DEP and town to be sure rules are properly followed.

#### How to apply for a Permit by Rule with DEP:

To ensure that permits for small projects are processed efficiently, the DEP has a streamlined permit process called Permit by Rule. These are simple applications that allow the DEP to quickly review the project.

- Fill out a notification form and submit fees and any required materials before starting any work. Forms are available from your town code enforcement officer, Maine DEP offices, or online at
  - https://www.maine.gov/dep/land/nrpa/nrpa-pbr-notification.pdf.
- The permit will be reviewed by DEP within 14 days. If you do not hear from DEP in 14 days, you can assume your permit is approved and you can proceed with work on the project.
- Follow all standards required for the specific permitted activities to minimize soil erosion.
   It is important that you obtain a copy of the standards so you will be familiar with the law's requirements.



Permit By Rule Notification Form

# THOMPSON LAKE Watershed Survey Report

# **APPENDICES**



**CCSWCD** 

# **Appendices**

Appendix A: Sector Maps

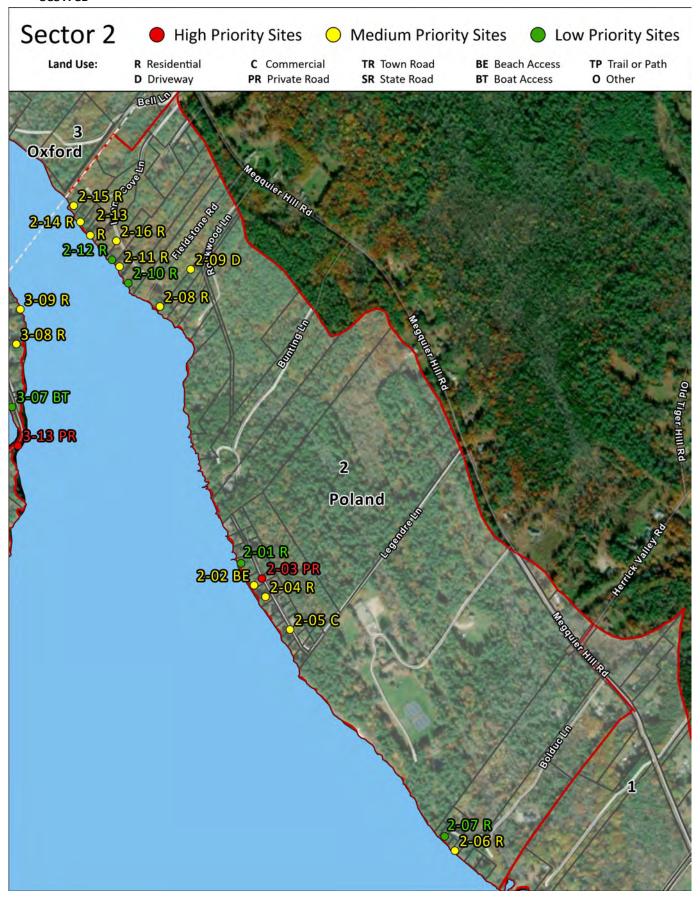
Appendix B: Sector Descriptions

Appendix C: Thompson Lake Watershed Survey Form

Appendix D: Table of Thompson Lake Watershed Survey Sites

### Appendix A: Sector Maps



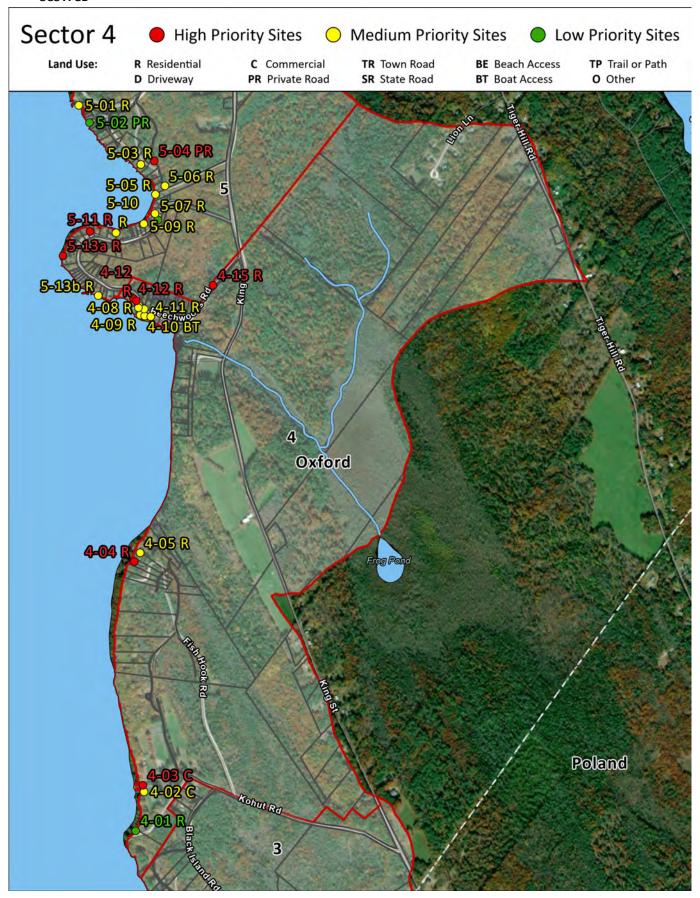


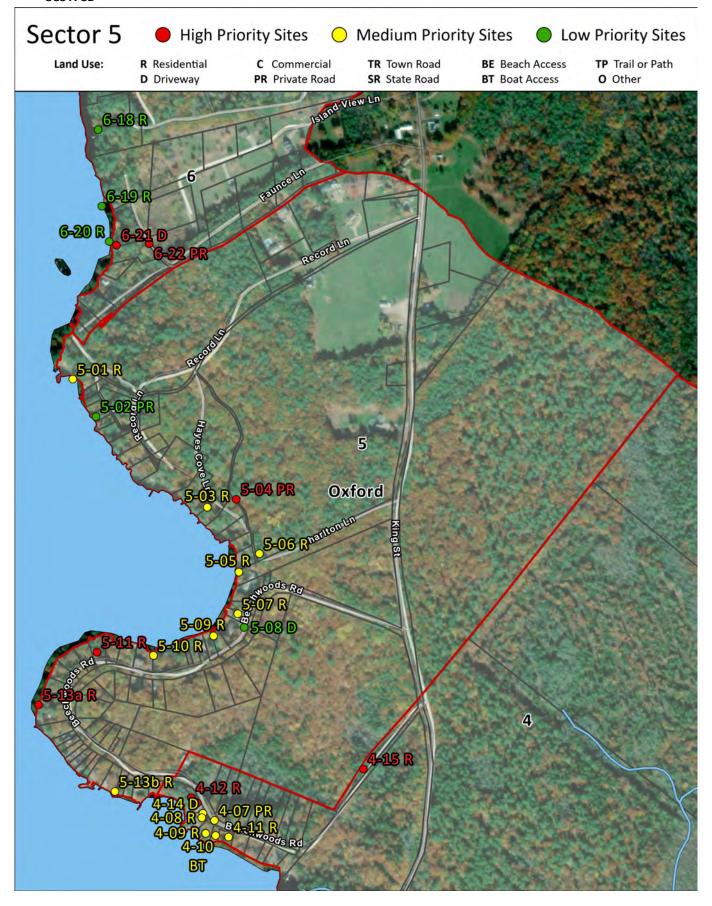
2023 THOMPSON LAKE WATERSHED SURVEY REPORT **CCSWCD** Sector 3 High Priority Sites Medium Priority SitesLow Priority Sites **R** Residential TP Trail or Path Land Use: **C** Commercial TR Town Road **BE** Beach Access **D** Driveway PR Private Road SR State Road **BT** Boat Access O Other Kohut Rd 4 4-02 C 4-01 R Kohut Ro 3 **Oxford** 3-02 R 203 PR 2-08 R 3-09 R 405 R 3-08 R 06 R **Poland** 3-07 BT 3-12 R

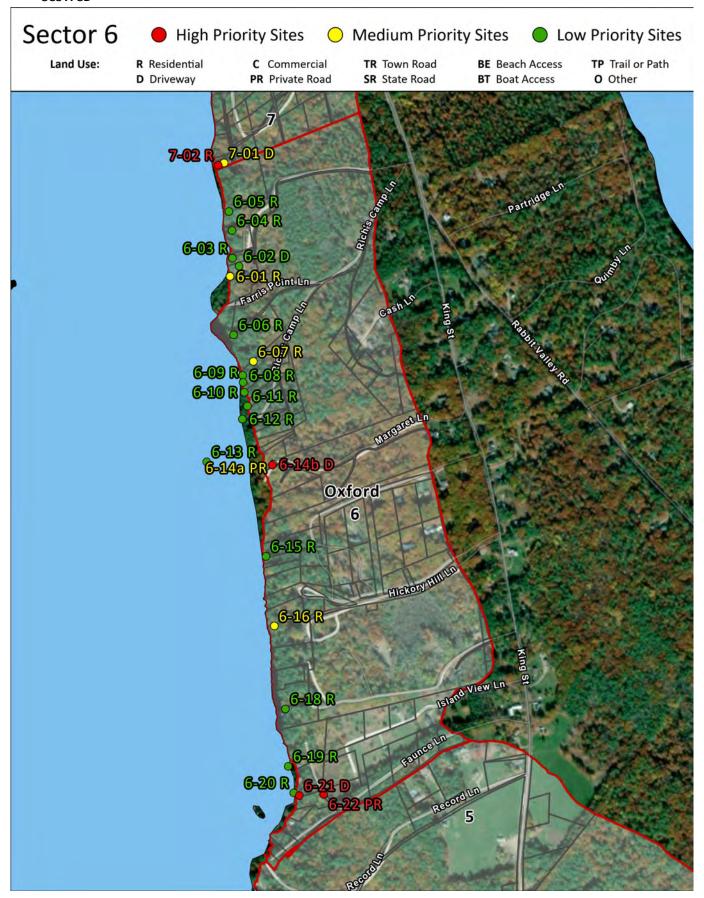
3-10 R

Otisfield

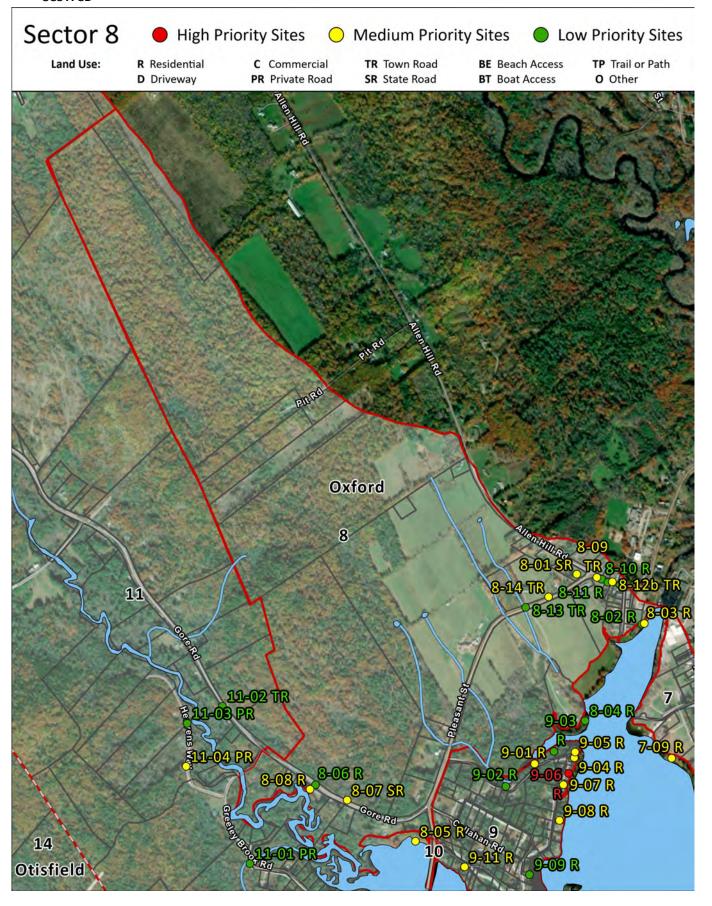
3-13 PR





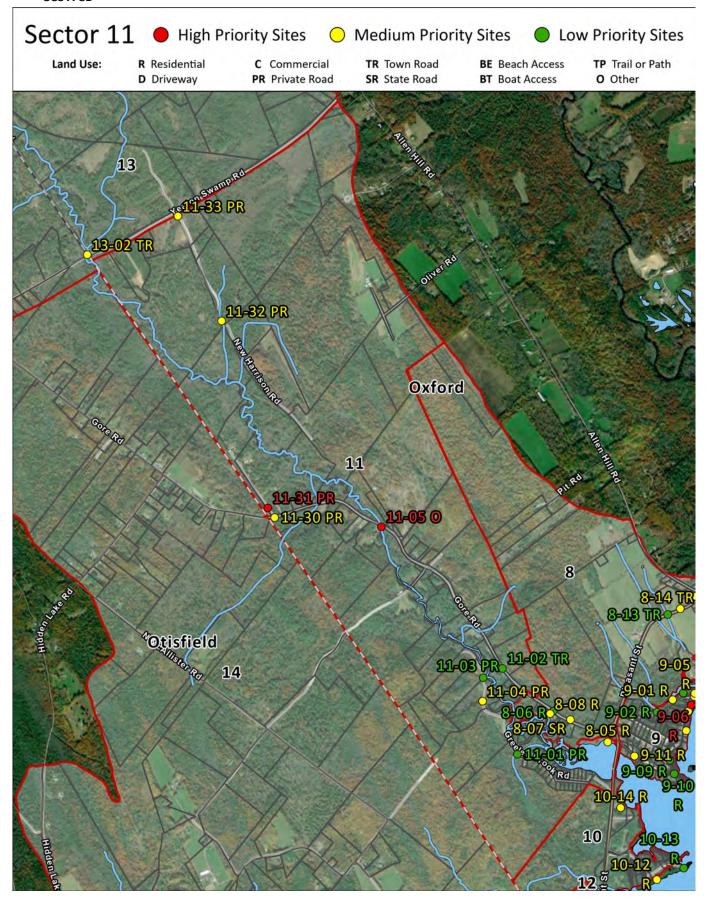


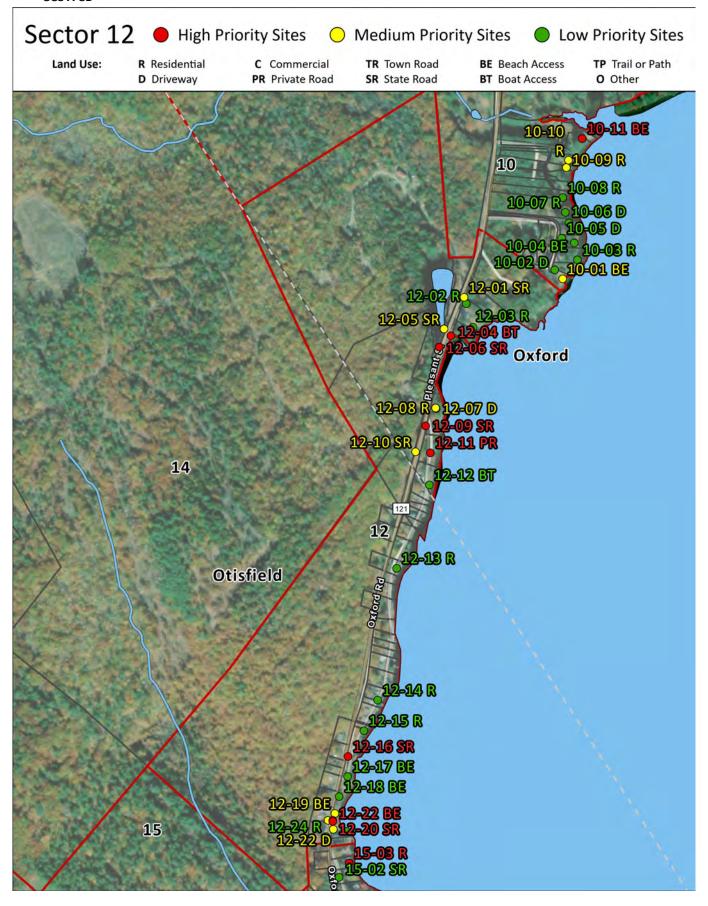


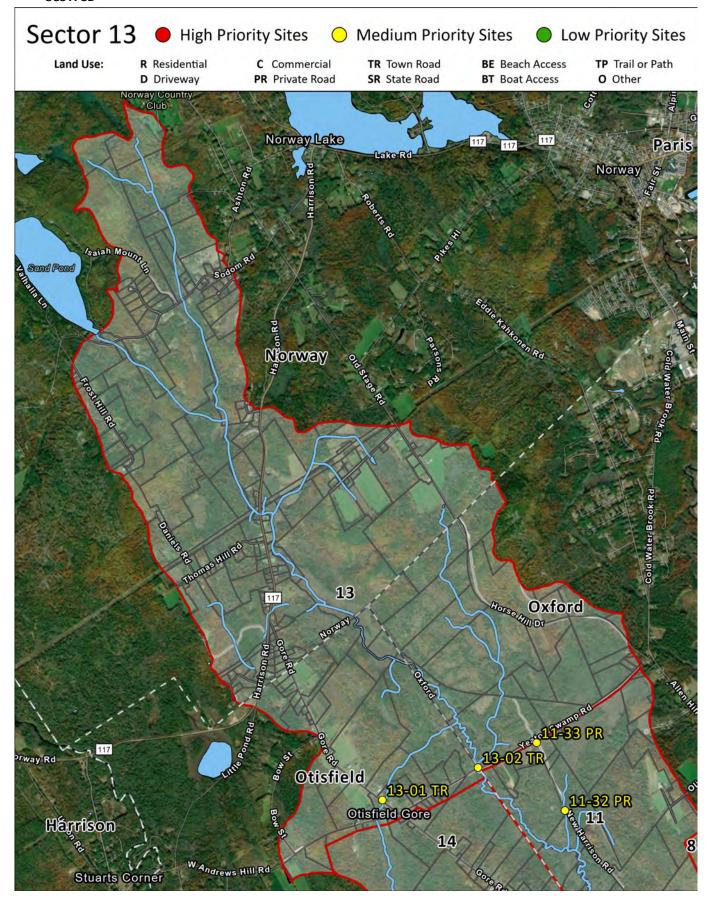


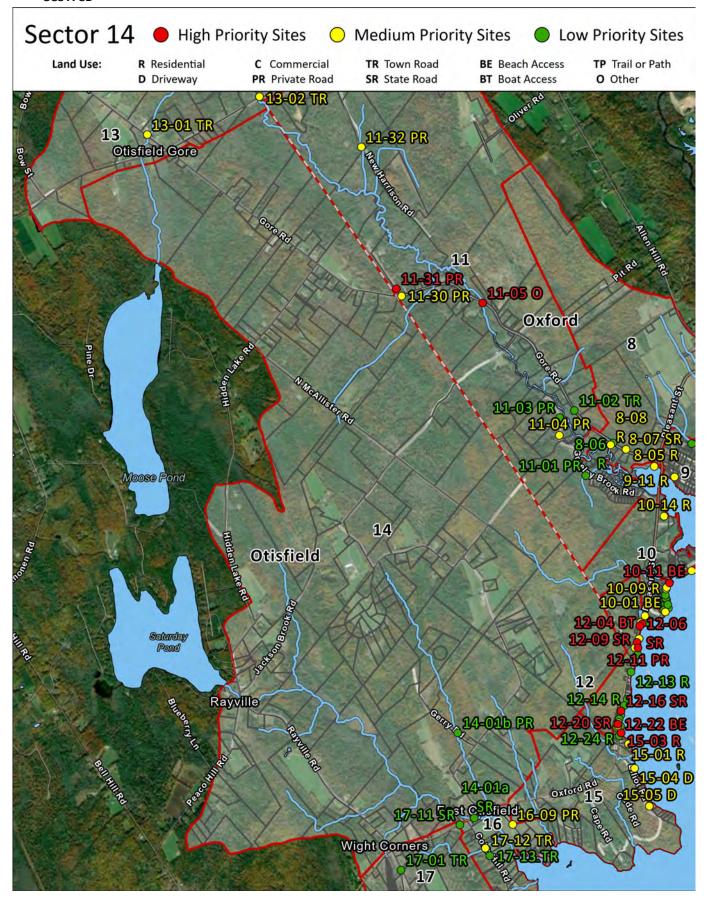


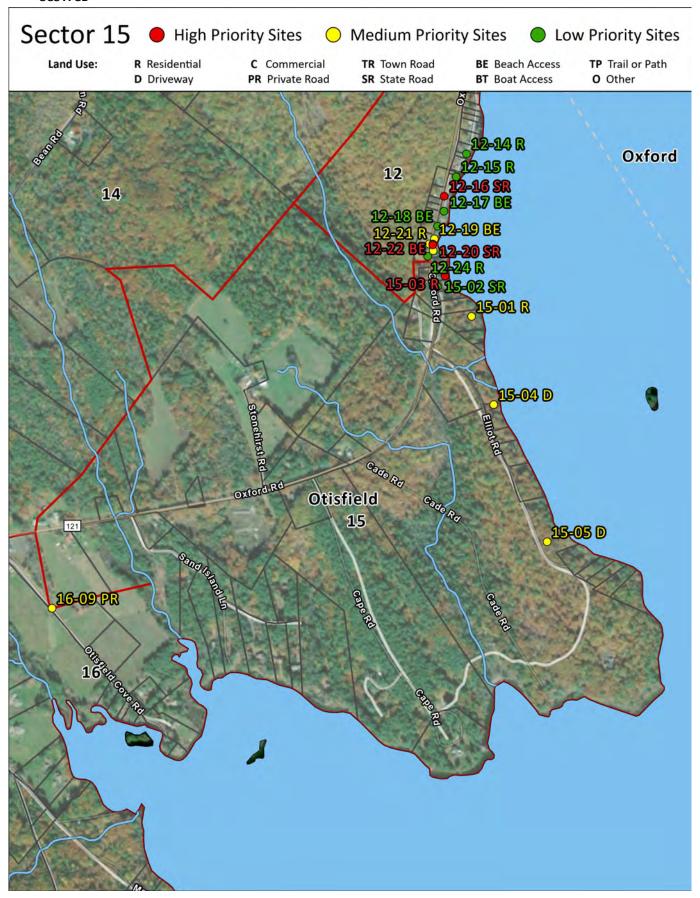




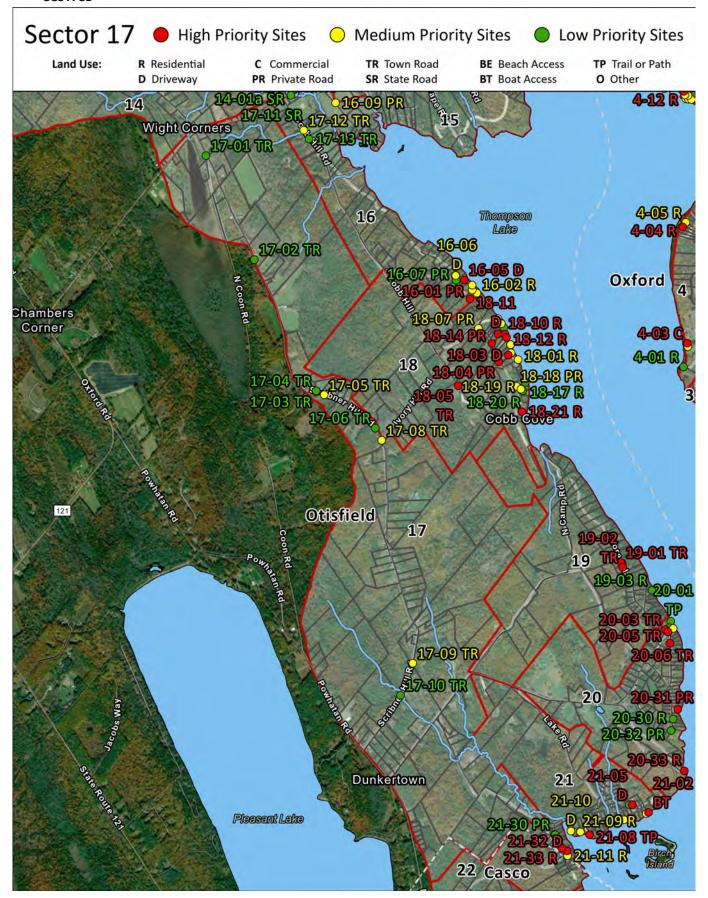


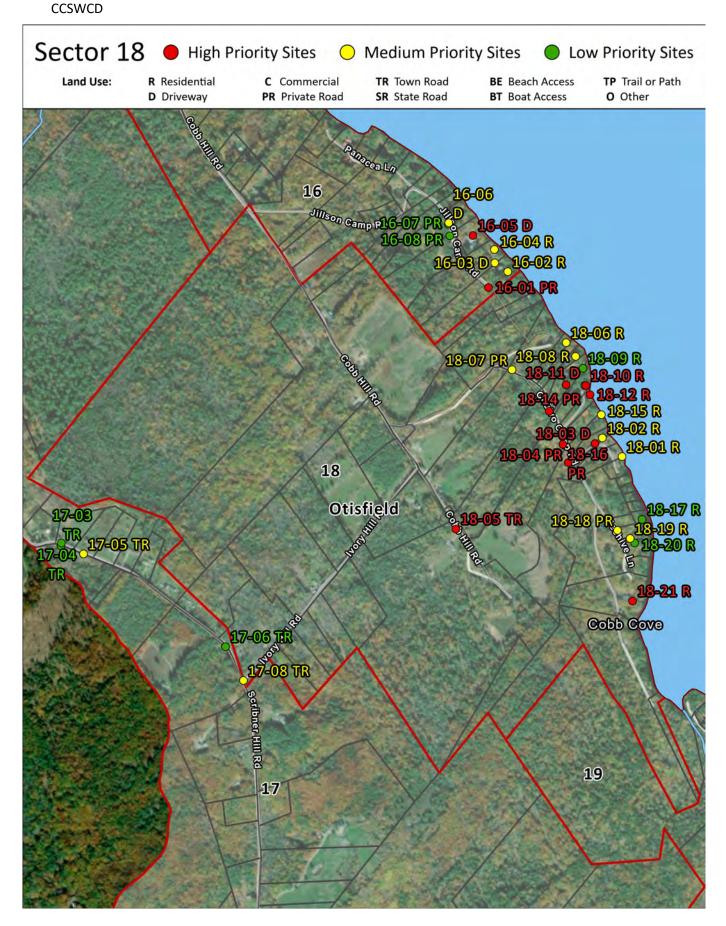








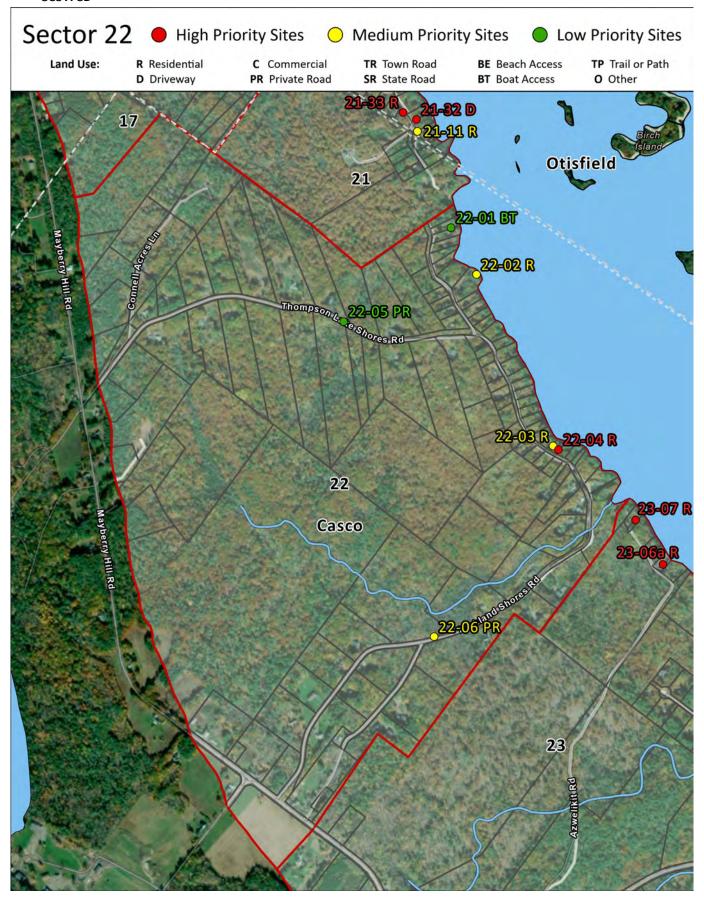




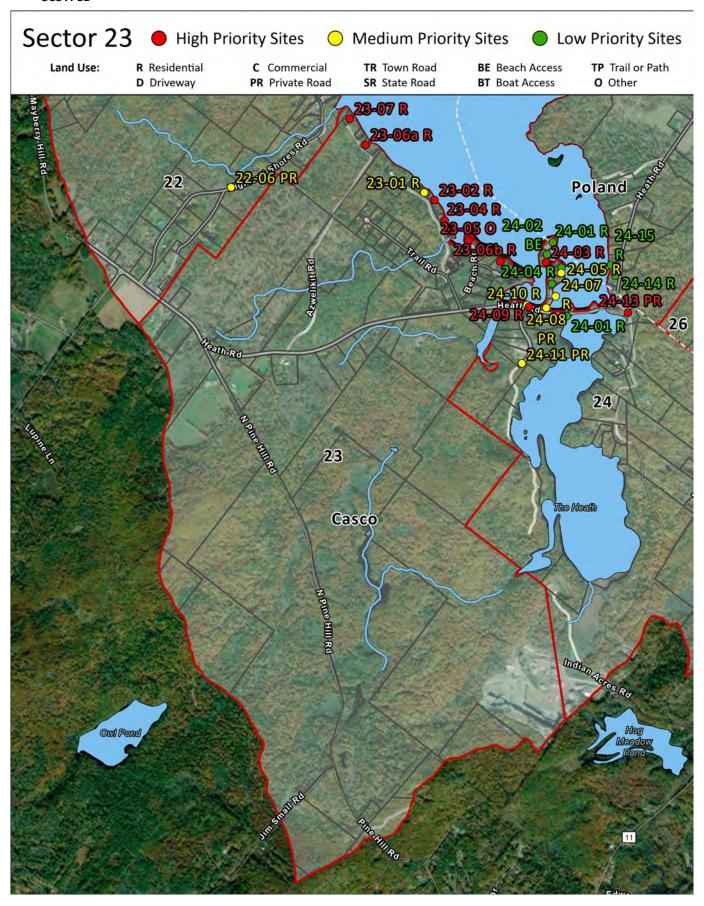


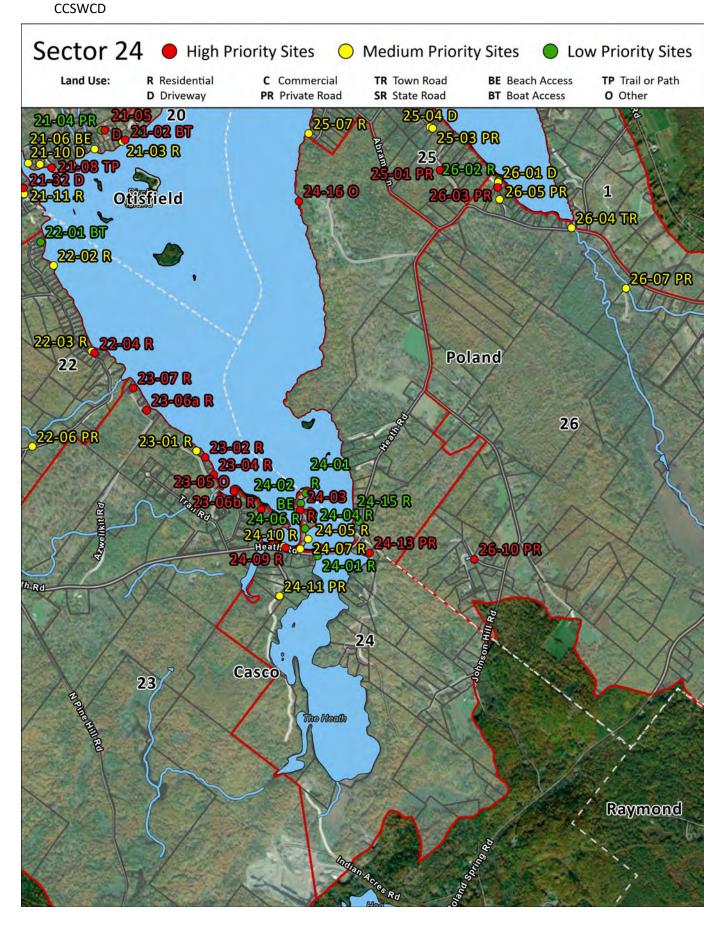






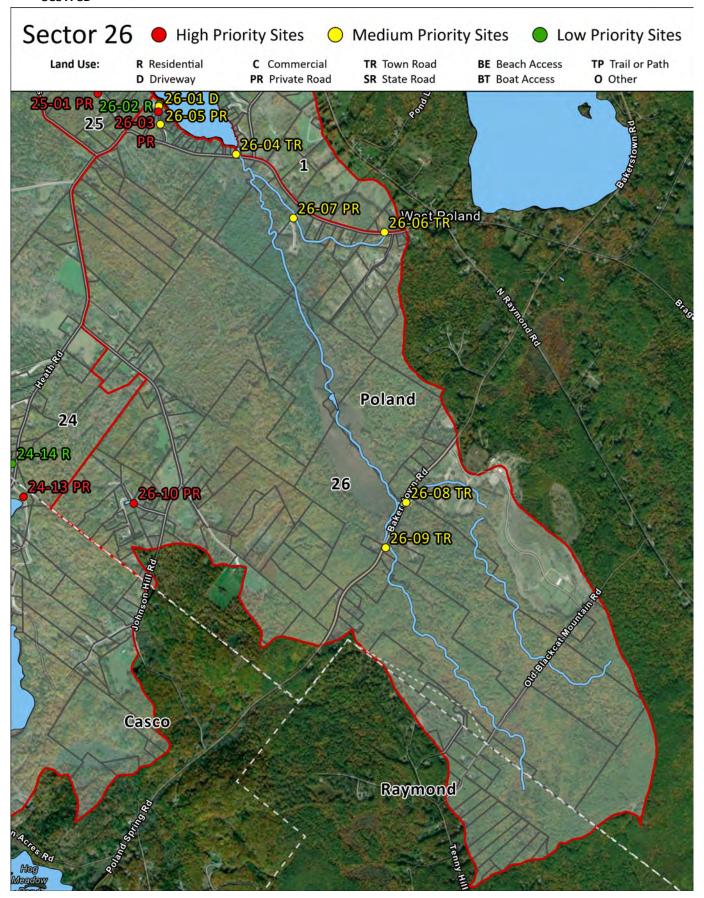
**CCSWCD** 





**CCSWCD** 





### Appendix B: Sector Descriptions

**Sector 1:** This sector is in the town of Poland, along the southeastern shore of Thompson Lake. The southern edge of this sector begins around the crossing of Johnson Hill Road and the Potash Brook. The eastern edge of this sector runs approximately along Megquier Hill Road and continues north to the intersection with Bolduc Lane. Not all areas along Megquier Hill Road are included, as the watershed boundary only roughly follows the length of this road. Properties on the shoreline roads to the south of Serenity Cove Lane and to the north of Johnson Hill Road are included in this sector.

**Sector 2:** This sector is located directly north of the adjacent Sector 1. Continuing north from the southern boundary of this sector at the intersection of Bolduc Lane and Megquier Hill Road, Sector 2 includes Camp Fernwood Lane, Legendre Lane, Bunting Lane, Rockwood Lane, and Island Cove Lane. Like Sector 1, the eastern border of this sector runs approximately along the Megquier Hill Road until reaching the northern border at the intersection of Island Cove Lane.

**Sector 3:** This sector is located to the northwest of Sector 2 and continues to follow the watershed along the eastern edge of Thompson Lake. The southeastern portion of this sector is located within Poland, but quickly crosses into the town of Oxford and contains King Street along the eastern border. The north border of Sector 3 is approximately along Kohut Road and continues west until reaching the area around the intersection at Black Island Road. Sector 3 also contains the entirety of Black Island Road.

**Sector 4:** This sector is located to the north of Sector 3. The southern border of this sector begins at the end of Kohut Road, and continues north along Fish Hook Road and King Street. The north border of this sector is along Beechwoods Road. This sector also contains portions of Tiger Hill Road and Lion Lane along its northeastern boundary.

**Sector 5:** This sector is located north of Sector 4. The sector continues along King Street, and contains the northern portion of Beechwoods Road, as well as Charlton Lane, Record Lane, and other nearby camp roads along the shoreline. The northern boundary of this sector ends just before reaching Faunce Lane.

**Sector 6:** This sector is located north of Sector 5. The southern boundary of this sector begins at Faunce Lane, and contains Island View Lane, Bamberg Lane, Cotton Lane, Lakewood Estates Lane, Margaret Lane, Rich's Camp Lane, and other camp roads branching from these. The northern boundary of this sector ends a short distance north of Sanborn Lane.

**Sector 7:** This sector is located north of Sector 6. The southern boundary of this sector begins just north of Sanborn Lane. This eastern boundary of this sector borders King Street. Roads included in Sector 7 are Cooper Lane, Lexie Lane, Howlin Wolf Lane, Royal Shores Lane, Pismo Beach Road, and Grove Street. The northern boundary of Sector 7 ends at the northern tip of Thompson Lake where it begins draining into the Little Androscoggin River.

**Sector 8:** This sector is located to the west of Sector 7. The eastern boundary begins to the west of where Thompson Lake begins draining into the Little Androscoggin River. The northern boundary of this sector moves along a portion of Allen Hill Road, and moves west, containing only a small portion of Pit Road. This sector also contains a section of Pleasant Street and Gore Road. The southern and eastern portion of Sector 8 border the shoreline of Thompson Lake and Sector 9.

**Sector 9:** This sector is located along a small peninsula next to the southeastern boundary of Sector 8. Roads contained in this sector are Pine Point Road, Callahan Road, and Milligan Circle. The southeastern boundary of this sector borders the shoreline of Thompson Lake, and the western border is adjacent to Pleasant Street.

**Sector 10:** This sector is located to the south of Sector 9, continuing south along Pleasant Street. This sector includes streets like Patriots Way, Briggs Lane, Paradise Lane, and Fairturn Acres. The eastern boundary of this sector borders the shoreline of Thompson Lake. The southern boundary ends just before reaching Rocky Point Drive.

**Sector 11:** This sector is located to the west of Sectors 8, 9, and 10. Continuing northwest from these sectors along Gore Road, Sector 11 includes roads adjacent to Greeley Brook, like Greeley Brook Road, Heavens Way, Kayla Drive, and New Harrison Road. The western boundary of this sector is parallel to Kayla Drive, the northern boundary is along Yeaton Swamp Road, and the eastern boundary is a short distance west of Allen Hill Road.

**Sector 12:** This sector is located to the south of Sector 10 and continues down Pleasant Street and crosses the border into Otisfield where it joins with Canada Hill Shores and State Route 121. This sector borders the shoreline of Thompson Lake to the east. The southern boundary of this sector ends just before intersecting Thompson Lane.

**Sector 13:** This sector is located to the northwest of Sector 11 and is the northern-most sector in the watershed survey. The southern boundary of this sector is adjacent to Yeaton Swamp Road. The sector continues north along Horse Hill Road on the eastern side, and Gore Road on the western side. The sector continues north where Gore Road meets Harrison Road in Norway. The northern boundary of this sector ends around Sodom Road, where the Lombard Brook adjoins with Sand Pond. Some roads included in this sector are Isaiah Mountain Lane, Outlet Lane, Moose Hill Drive, Chute Drive, Kennedy Drive, Thomas Hill Road, Daniels Road, and Frost Hill Road.

**Sector 14:** This sector is located to the south of Sector 13, and to the west of Sector 11. Some roads included in this sector are Bonney Hill Road, Gore Road, East Andrews Hill Road, Hidden Lake Road, Bean Road, Rayville Road, Peaco Hill Road, and Jackson Brook Road. The southern boundary of this sector borders Sectors 12, 15, 16, and State Route 121.

**Sector 15:** This sector is located to the south of Sector 14 and 12, and north of Sector 16. Sector 15 move south along State Route 121 and includes areas along the peninsula that contains Elliot Road, Kip Road, Cape Road, and Sand Island Road. The western boundary of this sector ends along Otisfield Cove Road.

- **Sector 16:** This sector is located to the southwest of Sector 15. The northeastern corner of Sector 16 begins along State Route 121 and Otisfield Cove Road. This sector continues south along Cobb Hill Road, and includes Martin's Way, Jillson Camp Road, and Panacea Lane. The southern boundary of this sector ends just south of Jillson Camp Road.
- **Sector 17:** This sector is located to the west of Sectors 16, 18, and 19. The northern boundary of Sector 17 begins at the intersection of State Route 121 and Scribner Hill Road. The rest of the sector continues south along Scribner Hill Road, with its eastern border intersecting Ivory Hill Road and its western border intersecting Powhatan Road. The southern boundary of this sector runs along Forrest Edwards Road.
- **Sector 18:** This sector is located to the south of Sector 16, east of Sector 17, and north of Sector 19. The eastern border of Sector 18 borders the shoreline of Thompson Lake. Roads contained in this sector are Scribner Hill Road, Ivory Hill Road, Cobb Hill Road, Franks Lane, Beehive Lane, Ohuivo Camp Road, and a few other adjacent camp roads.
- **Sector 19:** This sector continues south along the western shore of Thompson Lake, bordering the eastern boundary of Sector 17 and the southern boundary of Sector 18. Roads contained in this sector include Rocky Road, North Camp Road, and Shore Road. The southern boundary of this sector ends just before Rocky Road intersects Silvaqua Road.
- **Sector 20:** This sector is located to the south of Sector 19. The northern border begins along Silvaqua Road and Shore Road, and the southern border is located slightly north of Lake Road. Road contained in this sector include Silvaqua Road, Shore Road, Loop Road, Forrest Edwards Road, and Orchard Lane.
- **Sector 21:** This sector is located just south of Sector 20, with its northern boundary beginning at the intersection of Forrest Edwards Road and Lake Road. Roads contained in this sector include Lake Road, Moosewa Trail, Wayaka Lane, Wacipi Pines Road, and Milky Way. The southern portion of this sector crosses into the town of Casco along Wayaka Road. The western boundary of this sector is east of Kilbey Edwards Road and the southern boundary is just north of Upper Shore Drive.
- **Sector 22:** This sector is located south of Sector 21, with its north boundary located at the ends of Upper Shore Drive and Connell Acres Lane, and along the length of Thompson Lake Shores Road. The western border of this sector is slightly east of Mayberry Hill Road and the southern border is along Highland Shores Road and George Hannon Road.
- **Sector 23:** This sector is located south of Sector 22 and is on the southern edge of Thompson Lake. Some of the roads contained in this sector are Heath Road, Trail Road, Azwelikit Road, Pine Hill Road, East Beach Road, Beach Road, Loon Lane, and Cottage Road. The eastern boundary of this sector ends just before reaching Bass Lane, near the Thompson Lake Marina. The sector also extends south until it reaches its boundary at Burner Ridge Road.

# **2023 THOMPSON LAKE WATERSHED SURVEY REPORT**CCSWCD

**Sector 24:** This sector is located east of Sector 23, at the southernmost point of Thompson Lake. The northern boundary of this parcel extends along Parsons Point Road and the shoreline of Thompson Lake until reaching Abrams Lane. The eastern boundary extends along Heath Road. This sector also contains roads along the Thompson Lake Heath, like Bass Lane, Stillwater Road, Keepa Way, and Indian Acres Road, as well as the Agassiz Village Summer Camp near its northern boundary. This sector crosses back into the town of Poland.

**Sector 25:** This sector is located to the north of Sector 24 at the Abrams Lane boundary. This small sector is located on Abrams Point, and includes Little Hill Lane, Loon Point Lane, Abrams Lane, Florence Lane, and a small portion of Johnson Hill Road.

**Sector 26:** This sector is located east of Sectors 24 and 25, and south of Sector 1. It is the last sector along the southern edge of Thompson Lake before meeting with Sector 1, along the eastern edge of the Lake. Sector 26 extends south along the Potash Brook and includes roads like Johnson Hill Road, Tenny Hill Road, Lucy's Drive, Edwards Road, Knoll Road, and Bakerstown Road. The southern portion of this sector includes a small amount of land in the town of Raymond.

#### 2023 THOMPSON LAKE WATERSHED SURVEY REPORT

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## Appendix C: Thompson Lake Watershed Survey Form

Final Site #	Checked by	/ Date				
	Lake Watershed	Survey				
REMINDER: Only wr	ite up if there is likely transport	of sediment or phosphorus into the lake.				
ector & Site	Date Surveyo	r Initials Time				
ocation (house #, road, utility po	nle #)					
uilding Color	Landowner Name					
ax Map & Lot	Talked to Landowner?					
low into Lake via (check <u>ONE)</u> :	☐ Directly into Lake ☐ Stre	am				
GPS Coordinates in UTM						
no degrees or decimal points						
Land Use/Activity (Circle <u>ONE)</u>		ption of Problems e <u>ALL</u> that apply				
State Road*	Surface Erosion	Soil				
Town Road*	Slight /Sheet	Bare				
Private Road*	Moderate/Rill Severe/ Gulley	Uncovered Pile Delta in Stream/Lake				
Driveway*	Culvert Unstable Inlet / Outlet	Winter Sand				
Residential	Clogged	Roof Runoff Erosion				
Commercial	Crushed / Broken	Shoreline				
Municipal / Public	Undersized	Undercut				
	Misaligned	Lack of Shoreline Vegetation				
Beach Access	Culvert is too short or too long	Inadequate Shoreline Vegetation				
Boat Access*	Culvert outlet is hanging Culvert diameter smaller than	Erosion				
Trail or Path	the width of the channel	Unstable Access				
Logging	Possible larger drainage issues	Agriculture				
	Culvert shows evidence of	Livestock Access to Waterbody				
Agriculture	extreme weather event (blown	Tilled Eroding Fields				
Construction Site	out) Ditch	Manure Washing off Site				
OTHER:	Slight Erosion	OTHER:				
* Is it: paved, gravel or	Moderate Erosion	Potential Septic Issue Fertilizer Use in SLZ				
other/unknown?	Severe Erosion	Hazardous Materials				
outer, annual m	Bank Failure	Invasive Plants on Shoreline				
	Undersized					
	Road Shoulder Erosion					
	Slight					
	Moderate					
	Severe					
	Roadside Plow/Grader Berm					

Site is linked to another: Cause of Site # \_\_\_\_\_ Result of Site # \_\_\_\_\_

	Recommendations	4
Culvert	Roads / Driveways	Paths & Trails
Armor Inlet/Outlet	Remove Grader/Plow Berms	Define Foot Path
Remove Clog	Build Up	Stabilize Foot Path
Replace	Add New Surface Material	Infiltration Steps
Enlarge	Gravel	Install Runoff Diverter (waterbar)
Realign	Blue Stone Gravel	Erosion Control Mulch
Adjust Length	Pavement	Roof Runoff
Install Culvert	Reshape (Crown)	Infiltration Trench @ roof dripline
Install Plunge Pool (I/O)	Vegetate Shoulder	Drywell @ gutter downspout
Drainage area assessment needed	Install Catch Basin	Rain Barrel
Ditch	Install Detention Basin	Other
Vegetate	Install Runoff Diverters	Install Runoff Diverter (waterbar)
Armor with Stone	Broad-based Dip	Mulch / Erosion Control Mix
Reshape Ditch	Open Top Culvert	Rain Garden
Install Turnouts	Rubber Razor	Infiltration Trench
Install Ditch	Waterbar	Water Retention Swales
Install Check Dams	Construction Site	Rip Rap
Remove debris/sediment	Mulch	Vegetation
Install Sediment Pools	Silt Fence / EC Berms	Establish Buffer
Other Suggestions:	Seed / Hay	Add to/Extend Buffer
Remove Invasive Plants	Check Dams	No Raking
Septic Inspection	C. C	Reseed bare soil & thinning grass

<u>Impact</u>: Circle one choice in each column, add the three selected numbers together, and then circle the site's corresponding impact rating (high, medium, or low).

Type of Erosion	Area	Buffers and Other Filters	IMPACT
Gully - 3	Large - 3	No filter, all channelized direct flow into lake or stream - 3	<u>High</u> : 8-9 pts
Rill - 2	Medium - 2	Some buffer or filtering, but visible signs of concentrated flow and/or sediment movement through buffer and into lake - 2	<u>Med</u> : 6-7 pts
Sheet - 1	Small - 1	Significant buffer or filtering* - 1	<u>Low</u> : 3-5 pts

<sup>\*</sup> Confirm there is likely sediment/runoff delivery. If not, do not write up as a site.

Cost to Fix		Technical Level to Install					
High:         Greater than \$2,500           Medium:         \$500-\$2,500           Low:         Less than \$500		High: Medium: Low:	Site requires engineered design Technical person should visit site & make recommendations Property owner can accomplish with reference materials				
Certified Lake	eSmart Property?	No Potentia	al YCC Project? ☐ Yes ☐ No ☐ Maybe				

## Appendix D: Table of Thompson Lake Watershed Survey Sites

Sector & Site	Location	Town	Flow into lake via	Land use	Problems	Size of Area Exposed or Eroded	Recommendations	Impact Rating	Cost to Fix	Technical Level to Install
01-01	48 Proulx Lane	Poland	Directly into lake	Residential	Surface Erosion-Rill, Shoreline- Undercut	300 ft	Ditch: Install Check Dams, remove debris/sediment, Install Sediment Pools. Vegetation: Add to Buffer. Other: Install Runoff Diverter (waterbar). Water channelizes where pump house is and leads to lake	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
01-02	58 Proulx Lane	Poland	Directly into lake	Residential	Ditch-Gully Erosion, Shoreline- Erosion	100 ft	Culvert: Install Plunge Pool, Assess Drainage Area. Ditch: Vegetate, Install Check Dams, remove debris/sediment, Install Sediment Pools. Roads: Vegetate Shoulder, Install Catch Basin. Vegetation: Establish Buffer. Other: Water Retention Swales	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
01-03	58 Proulx Lane	Poland	Minimal Vegetation	Residential	Surface Erosion-Sheet, Surface Erosion-Rill	300 ft	Roads: Reshape (Crown), Install Runoff Diverters-Broad-based Dip, Install Runoff Diverters-Open Top Culvert. Vegetation: Establish Buffer, Add to Buffer. Other: Install Runoff Diverter (waterbar), Mulch/Erosion Control Mix	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
01-04	Top of 35 Proulx Lane (Driveway – Road)	Poland	Directly into lake	Private Road	Surface Erosion-Sheet, Surface Erosion-Gully, Culvert-Hanging Outlet, Culvert-Larger Drainage Issues, Ditch-Gully Erosion, Road Shoulder Erosion-Rill	500 ft	Culvert: Replace, Armor Inlet/Outlet. Ditch: Install Check Dams. Roads: Install Catch Basin, Vegetate Shoulder	High	High: Greater than \$2,500	Medium: Technical person should visit site & make recommendations
01-05	67 Half Moon Lane	Poland	Directly into lake	Residential	Surface Erosion-Rill, Ditch-Rill Erosion, Ditch-Sheet Erosion, Shoreline-Erosion	200 ft	Ditch: Install Ditch, Install Check Dams, Install Sediment Pools, Vegetate.  Roads: Vegetate Shoulder, Install Catch Basin	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
01-06	77 Half Moon Lane	Poland	Directly into lake	Residential	Surface Erosion-Sheet, Surface Erosion-Rill, Soil-Bare, Shoreline- Lack of Shoreline Vegetation, Shoreline-Inadequate Shoreline Vegetation, Shoreline-Erosion, Roof Runoff Erosion	100 ft	Paths: Define Foot Path, Stabilize Foot Path, Install Runoff Diverter (waterbar). Roof: Infiltration Trench @ roof dripline. Vegetation: Establish Buffer, Add to Buffer. Other: Mulch/Erosion Control Mix, Rain Garden, Infiltration Trench	Low	Medium: \$500-\$2,500	Low: Property owner can accomplish with reference materials
01-07	Below 55 Lunt Lane	Poland	Ditch	Residential	Culvert-Hanging Outlet, Culvert- Larger Drainage Issues, Ditch- Undersized, Road Shoulder Erosion-Sheet	300 ft	Culvert: Adjust Length, Install Plunge Pool, Assess Drainage Area. Ditch: Vegetate, Reshape Ditch, Armor with Stone, Install Check Dams. Roads: Vegetate Shoulder. Install check dams in stream/channel	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
01-08	84 Lunt Lane	Poland	Directly into lake	Residential	Surface Erosion-Sheet, Soil-Bare	500 ft	Paths: Define Foot Path, Install Runoff Diverter (waterbar), Erosion Control Mulch. Vegetation: Establish Buffer, Add to Buffer. Other: Mulch/Erosion Control Mix, Water Retention Swales	Medium	Low: Less than \$500	Low: Property owner can accomplish with reference materials
01-09	84 Lunt Lane	Poland	Directly into lake	Residential	Surface Erosion-Sheet, Surface Erosion-Rill, Shoreline-Lack of Shoreline Vegetation, Shoreline- Erosion	100 ft	Roads: Vegetate Shoulder. Vegetation: Establish Buffer, Add to Buffer. Other: Install Runoff Diverter (waterbar)	Low	Medium: \$500-\$2,500	Low: Property owner can accomplish with reference materials
01-10	78 Lunt Lane	Poland	Directly into lake	Residential	Surface Erosion-Gully, Surface Erosion-Sheet, Surface Erosion- Rill, Other-HazMat	300 ft	Culvert: Assess Drainage Area. Roads: Install Catch Basin, Install Runoff Diverters-Open Top Culvert. Construction Site: Check Dams. Vegetation: Establish Buffer, Add to Buffer. Other: Install Runoff Diverter (waterbar). Open top culvert not installed properly on road shoulder and full of debris-big road wash out led to large gully in construction site	High	High: Greater than \$2,500	High: Site requires engineered design

Sector & Site	Location	Town	Flow into lake via	Land use	Problems	Size of Area Exposed or Eroded	Recommendations	Impact Rating	Cost to Fix	Technical Level to Install
01-11	Corner of Lunt Lane close to 53 Lunt Lane	Poland	Ditch	Private Road	Surface Erosion-Rill, Ditch- Undersized, Ditch-Rill Erosion, Ditch-Bank Failure, Road Shoulder Erosion-Rill, Road Shoulder Erosion-Sheet	200 ft	Ditch: Vegetate, Armor with Stone, Reshape Ditch, Install Check Dams. Roads: Install Runoff Diverters-Open Top Culvert, Reshape (Crown), Remove Grader/Plow Berms. Open top culvert not installed properly, causing more shoulder erosion, create better ditch along entire lower section of Lunt Road.	Medium	High: Greater than \$2,500	High: Site requires engineered design
02-01	118 Legendre Road	Poland	Directly into lake	Residential	Surface Erosion-Sheet, Shoreline-Erosion, Shoreline- Inadequate Shoreline Vegetation	10 x 20 ft	Vegetation: Establish Buffer, No Raking. Other: Infiltration Trench, Mulch/Erosion Control Mix. Add roof gutter	Low	Low: Less than \$500	Low: Property owner can accomplish with reference materials
02-02	114 Legendre Road	Poland	Directly into lake	Beach Access	Surface Erosion-Sheet	8 x 8 ft, 5 x 20 ft, 20 x 30 ft	Vegetation: No Raking, Establish Buffer. Add crushed rock and barrier to parking area, ECM, or other surface at beach access	Medium	Medium: \$500-\$2,500	Low: Property owner can accomplish with reference materials
02-03	Between 114 & 118 Legendre Road	Poland	Directly into lake	Private Road	Culvert-Unstable inlet/outlet, Culvert-Larger Drainage Issues	2 x 50 ft	Culvert: Install Plunge Pool. Piped culvert from road creating channelized flow to lake	High	Low: Less than \$500	Low: Property owner can accomplish with reference materials
02-04	102 Legendre Road	Poland	Directly into lake	Residential	Surface Erosion-Rill, Soil-Bare, Roof Runoff Erosion	50 x 20 ft, 20 x 2 ft	Paths: Define Foot Path, Install Runoff Diverter (waterbar), Erosion Control Mulch. Roof: Infiltration Trench @ roof dripline, Drywell @ gutter downspout. Vegetation: No Raking, Add to Buffer. Other: Mulch/Erosion Control Mix. Digging rock and exposing soil in addition to dirt paths and water runoff from garage across road needs stabilization, definition and awareness of activities. Could also move activities back from shoreline	Medium	Medium: \$500-\$2,500	Low: Property owner can accomplish with reference materials
02-05	79 Bolduc Lane	Poland	Directly into lake	Commercial	Surface Erosion-Sheet, Soil-Bare	100x100 feet	Vegetation: Establish Buffer, No Raking, Reseed bare soil & thinning grass. Other: Infiltration Trench, Rip Rap. Questionable land use, looks like possible rental for group camping	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
02-06	6 Haskell Lane	Poland	Directly into lake	Residential	Surface Erosion-Sheet, Roof Runoff Erosion	25 x 30 ft	Paths: Define Foot Path. Roof: Infiltration Trench @ roof dripline.  Vegetation: Establish Buffer, Reseed bare soil & thinning grass, No Raking.  Other: Mulch/Erosion Control Mix	Medium	Medium: \$500-\$2,500	Low: Property owner can accomplish with reference materials
02-07	11 Haskell Lane	Poland	Directly into lake	Residential	Surface Erosion-Sheet	20 x 30 ft	Vegetation: Establish Buffer, Reseed bare soil & thinning grass, No Raking. Other: Mulch/Erosion Control Mix. Berm shoreline and add plantings	Low	Low: Less than \$500	Low: Property owner can accomplish with reference materials
02-08	31 Rockwood Lane	Poland	Minimal Vegetation	Residential	Surface Erosion-Sheet	15 x 100 ft	Paths: Install Runoff Diverter (waterbar), Define Foot Path. Vegetation: No Raking, Establish Buffer. Other: Install Runoff Diverter (waterbar), Infiltration Trench, Mulch/Erosion Control Mix. Road provides lots of h2o volume. Need gutters	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
02-09	31 Rockwood Lane	Poland	Minimal Vegetation	Driveway		200 x 5 ft	Roads: Install Runoff Diverters-Broad-based Dip, Install Runoff Diverters- Waterbar, Install Detention Basin, reshape (Crown), Add gravel, Add recycled asphalt. Other: Septic Inspection	Medium	High: Greater than \$2,500	Medium: Technical person should visit site & make recommendations
02-10	73 Island Cove Lane	Poland	Directly into lake	Residential	Surface Erosion-Sheet, Roof Runoff Erosion	40 x 40 ft	Paths: Infiltration Steps. Roof: Infiltration Trench @ roof dripline.  Vegetation: No Raking, Establish Buffer. Other: Rain Garden, Infiltration  Trench	Low	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
02-11	Between 67 and 59 Island Cove Lane (Maybe 63 Island Cove Lane)	Poland	Directly into lake	Residential	Surface Erosion-Sheet	15 x 40 ft	Paths: Infiltration Steps, Erosion Control Mulch	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations

Sector & Site	Location	Town	Flow into lake via	Land use	Problems	Size of Area Exposed or Eroded	Recommendations	Impact Rating	Cost to Fix	Technical Level to Install
02-12	59 Island Cove Lane	Poland	Minimal Vegetation	Residential	Surface Erosion-Sheet, Culvert- Hanging Outlet, Other-Bare soils and paths needed	40 x 20 ft	Paths: Stabilize Foot Path, Erosion Control Mulch. Vegetation: Add to Buffer, No Raking. Other: Install Runoff Diverter (waterbar)	Low	Low: Less than \$500	Low: Property owner can accomplish with reference materials
02-13	4 Cove View Place	Poland	Directly into lake	Residential	Surface Erosion-Sheet, Shoreline-Lack of Shoreline Vegetation	40 x 50 ft	Paths: Define Foot Path, Erosion Control Mulch. Vegetation: Establish Buffer, No Raking. Other: Rain Garden, Water Retention Swales	Medium	Low: Less than \$500	Low: Property owner can accomplish with reference materials
02-14	12 Cove View Place	Poland	Directly into lake	Residential	Surface Erosion-Sheet, Shoreline-Inadequate Shoreline Vegetation, Roof Runoff Erosion	30 x 30 ft	Roof: Infiltration Trench @ roof dripline, Drywell @ gutter downspout, Rain Barrel. Vegetation: Establish Buffer, No Raking, Reseed bare soil & thinning grass. Other: Infiltration Trench, Mulch/Erosion Control Mix, Install Runoff Diverter (waterbar)	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
02-15	16 Cove View Place	Poland	Directly into lake	Residential	Surface Erosion-Sheet, Shoreline-Lack of Shoreline Vegetation	50 x 40 ft	Paths: Define Foot Path, Infiltration Steps, Install Runoff Diverter (waterbar), Erosion Control Mulch. Vegetation: Add to Buffer, No Raking, Reseed bare soil & thinning grass. Check out Wild Seed Project for native ground covers that grow in part shade	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
02-16	57 Island Cove Lane	Poland	Directly into lake	Residential	Surface Erosion-Rill, Culvert- Clogged, Culvert-Larger Drainage Issues	30 x 10 ft	Culvert: Armor Inlet/Outlet, Remove Clog, Install Plunge Pool	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
03-01	14 Mallard Lane	Oxford	Minimal Vegetation	Residential	Shoreline-Undercut, Shoreline- Lack of Shoreline Vegetation, Other-Direct discharge culvert into lake	6 feet	Vegetation: Establish Buffer. Inspect the culvert for discharge	Low	Low: Less than \$500	Low: Property owner can accomplish with reference materials
03-02	12 Mallard Lane	Oxford	Minimal Vegetation	Residential	Surface Erosion-Sheet, Shoreline-Lack of Shoreline Vegetation, Shoreline-Erosion	15 feet	Vegetation: Establish Buffer	Medium	Low: Less than \$500	Low: Property owner can accomplish with reference materials
03-03	Causeway to Black Island	Oxford	Minimal Vegetation	Private Road	Road Shoulder Erosion-Gully, Shoreline-Inadequate Shoreline Vegetation	100 to 200 feet of road	Ditch: Install Turnouts. Roads: Vegetate Shoulder. Was informed further up the road towards black island has erosion issues could install a turnout into the vegetation before it reaches the causeway	High	High: Greater than \$2,500	Medium: Technical person should visit site & make recommendations
03-04	157 Black Island Road	Oxford	Minimal Vegetation	Residential	Surface Erosion-Sheet, Shoreline-Erosion, Shoreline- Unstable Access, Shoreline-Lack of Shoreline Vegetation	10 by 5 feet	Vegetation: Establish Buffer, Reseed bare soil & thinning grass. They place there dock here so likely won't do a buffer	Low	Low: Less than \$500	Low: Property owner can accomplish with reference materials
03-05	163 Black Island Road	Oxford	Minimal Vegetation	Residential	Surface Erosion-Sheet	600 square feet	Paths: Define Foot Path, Infiltration Steps, Erosion Control Mulch	Low	Medium: \$500-\$2,500	Low: Property owner can accomplish with reference materials
03-06	183 Black Island Road	Poland	Minimal Vegetation	Residential	Surface Erosion-Rill, Soil-Bare, Shoreline-Inadequate Shoreline Vegetation, Shoreline-Erosion, Roof Runoff Erosion	40 by 100 feet	Paths: Define Foot Path, Install Runoff Diverter (waterbar), Infiltration Steps. Roof: Infiltration Trench @ roof dripline. Vegetation: Add to Buffer, No Raking, Reseed bare soil & thinning grass. Very large area of eroded paths	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
03-07	Boat Launch on Black Island Road	Poland	Directly into lake	Boat Access	Surface Erosion-Gully, Surface Erosion-Rill, Shoreline-Erosion, Shoreline-Unstable Access	12 by 10 feet	Paths: Install Runoff Diverter (waterbar). Could vegetate shoulder possibly rubber razor or water bar	Low	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations

Sector & Site	Location	Town	Flow into lake via	Land use	Problems	Size of Area Exposed or Eroded	Recommendations	Impact Rating	Cost to Fix	Technical Level to Install
03-08	174 Black Island Road	Poland	Minimal Vegetation	Residential	Surface Erosion-Sheet, Surface Erosion-Rill, Soil-Bare, Shoreline- Inadequate Shoreline Vegetation, Roof Runoff Erosion, Other-Invasive Plants, and erosion coming from several gutters around the property flowing across gravel driveway and down through the yard into lake.	20 feet	Paths: Install Runoff Diverter (waterbar). Roof: Drywell @ gutter downspout. Vegetation: Add to Buffer	Medium	Medium: \$500-\$2,500	Low: Property owner can accomplish with reference materials
03-09	166 Black Island Road	Poland	Minimal Vegetation	Residential	Surface Erosion-Rill, Surface Erosion-Sheet, Soil-Bare, Shoreline-Inadequate Shoreline Vegetation, Shoreline-Erosion, Roof Runoff Erosion	30 feet by 30 feet	Paths: Define Foot Path, Install Runoff Diverter (waterbar). Roof: Drywell @ gutter downspout. Vegetation: Add to Buffer. Boat launch also has no buffer and erosion issues	Medium	Medium: \$500-\$2,500	Low: Property owner can accomplish with reference materials
03-10	254 Black Island Road	Poland	Ditch	Residential	Surface Erosion-Sheet, Ditch- Gully Erosion, Roof Runoff Erosion, Other-Gutter system is weirdly designed and shooting water through piping across lawn which is running down path into Lake	40 by 40 feet	Paths: Define Foot Path, Install Runoff Diverter (waterbar). Roof: Drywell @ gutter downspout, Infiltration Trench @ roof dripline. Vegetation: Add to Buffer	Medium	Medium: \$500-\$2,500	Low: Property owner can accomplish with reference materials
03-11	279 Black Island Road	Oxford	Minimal Vegetation	Residential	Surface Erosion-Sheet, Soil-Bare	50 feet of path	Vegetation: Add to Buffer	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
03-12	271 Black Island Road	Poland	Minimal Vegetation	Residential	Surface Erosion-Sheet, Surface Erosion-Rill, Road Shoulder Erosion-Gully, Soil-Bare, Shoreline-Lack of Shoreline Vegetation, Roof Runoff Erosion	40 by 200 feet	Roads: Install Catch Basin, Install Runoff Diverters-Waterbar. Paths: Define Foot Path, Install Runoff Diverter (waterbar). Roof: Drywell @ gutter downspout. Vegetation: Add to Buffer	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
03-13	Causeway between Black Island and Megquire Island	Poland	Directly into lake	Private Road	Surface Erosion-Sheet, Road Shoulder Erosion-Sheet, Road Shoulder Erosion-Gully	10-30 feet	N/A	High	High: Greater than \$2,500	High: Site requires engineered design
04-01	171 Kohut Road	Oxford	Minimal Vegetation	Residential	Surface Erosion-Sheet, Shoreline-Undercut, Roof Runoff Erosion	70 x 2 ft	Roof: Infiltration Trench @ roof dripline. Vegetation: No Raking	Low	Low: Less than \$500	Low: Property owner can accomplish with reference materials
04-02	Camp Kohut, 151 Kohut Road	Oxford	Directly into lake	Commercial	Surface Erosion-Rill, Shoreline- Lack of Shoreline Vegetation, Shoreline-Erosion	20 x 50 ft	Paths: Infiltration Steps, Erosion Control Mulch. Vegetation: Establish Buffer	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
04-03	Camp Kohut	Oxford	Directly into lake	Commercial	Surface Erosion-Gully, Shoreline- Erosion, Shoreline-Unstable Access, Shoreline-Inadequate Shoreline Vegetation	10 x 20 ft	Roads: Add gravel. Paths: Stabilize Foot Path. Stone, geotextile needed to stabilize area where heavy equipment put in docks at waterfront	High	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations

Sector & Site	Location	Town	Flow into lake via	Land use	Problems	Size of Area Exposed or Eroded	Recommendations	Impact Rating	Cost to Fix	Technical Level to Install
04-04	137 Fish Hook Road	Oxford	Minimal Vegetation	Residential	Surface Erosion-Gully, Shoreline- Unstable Access, Shoreline- Inadequate Shoreline Vegetation, Other-Deep gully from road to shoreline and unstable eroding pathways	20 x 100 ft	Roads: Install Runoff Diverters-Waterbar, Install Runoff Diverters-Open Top Culvert, Install Runoff Diverters-Rubber Razor. Paths: Stabilize Foot Path, Install Runoff Diverter (waterbar), Define Foot Path. Vegetation: Reseed bare soil & thinning grass, Establish Buffer. Other: Infiltration Trench, Rain Garden, Mulch/Erosion Control Mix, Water Retention Swales	High	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
04-05	135 Fish Hook Road	Oxford	Directly into lake	Residential	Surface Erosion-Sheet, Shoreline-Lack of Shoreline Vegetation, Shoreline-Erosion, Shoreline-Unstable Access	20 x 20 ft	Paths: Stabilize Foot Path, Define Foot Path, Erosion Control Mulch.  Vegetation: Add to Buffer. Other: Mulch/Erosion Control Mix	Medium	Low: Less than \$500	Low: Property owner can accomplish with reference materials
04-06	131 Fish Hook Road	Oxford	Directly into lake	Residential	Surface Erosion-Sheet, Soil-Bare, Shoreline-Unstable Access, Shoreline-Inadequate Shoreline Vegetation	10 x 15 ft	Paths: Define Foot Path, Stabilize Foot Path, Erosion Control Mulch. Vegetation: Add to Buffer, No Raking. Other: Mulch/Erosion Control Mix	Low	Low: Less than \$500	Low: Property owner can accomplish with reference materials
04-07	Beechwoods Road, near CMP Pole 32	Oxford	Stream	Private Road	Surface Erosion-Sheet, Culvert- Too short/long, Culvert-Crushed Broken, Culvert-Diameter too small, Culvert-Clogged, Ditch- Gully Erosion, Road Shoulder Erosion-Sheet	45 x 3 ft	Culvert: Replace, Enlarge, Adjust Length, Install Plunge Pool, Armor Inlet/Outlet. Ditch: Install Sediment Pools	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
04-08	153 Beechwoods Road	Oxford	Directly into lake	Residential	Surface Erosion-Sheet, Shoreline-Lack of Shoreline Vegetation, Shoreline-Erosion	25 X 4 ft	Vegetation: Establish Buffer, Add to Buffer	Medium	Low: Less than \$500	Low: Property owner can accomplish with reference materials
04-09	155 Beechwoods Road	Oxford	Directly into lake	Residential	Surface Erosion-Sheet, Shoreline-Lack of Shoreline Vegetation, Shoreline- Inadequate Shoreline Vegetation, Shoreline-Erosion	25 X 40 ft	Paths: Define Foot Path, Erosion Control Mulch. Vegetation: Establish Buffer, No Raking, Add to Buffer	Medium	Low: Less than \$500	Low: Property owner can accomplish with reference materials
04-10	Right of way, Beechwoods Road	Oxford	Directly into lake	Boat Access	Surface Erosion-Sheet, Soil-Bare, Shoreline-Unstable Access, Shoreline-Erosion, Shoreline- Inadequate Shoreline Vegetation	60 X 15 ft	Paths: Erosion Control Mulch. Stabilize boat access with crushed stone	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
04-11	161 Beechwoods Road	Oxford	Directly into lake	Residential	Surface Erosion-Sheet, Shoreline-Lack of Shoreline Vegetation, Shoreline- Inadequate Shoreline Vegetation, Shoreline-Erosion	45 X 25 ft	Paths: Erosion Control Mulch, Define Foot Path, Stabilize Foot Path.  Vegetation: Establish Buffer, Add to Buffer. Working with YCC to address this year	Medium	Medium: \$500-\$2,500	Low: Property owner can accomplish with reference materials
04-12	169 Beechwoods Road	Oxford	Directly into lake	Residential	Surface Erosion-Gully, Shoreline- Erosion, Shoreline-Inadequate Shoreline Vegetation, Shoreline- Lack of Shoreline Vegetation, Shoreline-Unstable Access	25 x 40 ft	Paths: Define Foot Path, Stabilize Foot Path, Erosion Control Mulch. Vegetation: Establish Buffer, Add to Buffer. Other: Infiltration Trench, Mulch/Erosion Control Mix	High	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
04-13	171 Beechwoods Road	Oxford	Directly into lake	Residential	Surface Erosion-Gully, Shoreline- Lack of Shoreline Vegetation, Shoreline-Erosion, Shoreline- Unstable Access	40 x 30 ft	Paths: Define Foot Path, Stabilize Foot Path, Erosion Control Mulch. Vegetation: Establish Buffer	High	Medium: \$500-\$2,500	Low: Property owner can accomplish with reference materials

Sector & Site	Location	Town	Flow into lake via	Land use	Problems	Size of Area Exposed or Eroded	Recommendations	Impact Rating	Cost to Fix	Technical Level to Install
04-14	175 Beechwoods Road	Oxford	Directly into lake	Driveway	Surface Erosion-Sheet, Soil-Bare, Shoreline-Inadequate Shoreline Vegetation, Shoreline-Erosion	60 x 20 ft	Roads: Add gravel, Reshape (Crown), Vegetate Shoulder, Install Runoff Diverters-Rubber Razor, Install Runoff Diverters-Open Top Culvert. Vegetation: Establish Buffer. Other: Rain Garden, Mulch/Erosion Control Mix, Infiltration Trench	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
04-15	49 Silva Lane	Oxford	Directly into lake	Residential	Surface Erosion-Gully, Soil-Bare, Shoreline-Lack of Shoreline Vegetation, Shoreline- Inadequate Shoreline Vegetation, Shoreline-Erosion	50 x 20 ft	Paths: Define Foot Path. Vegetation: Establish Buffer. Other: Rain Garden, Infiltration Trench, Mulch/Erosion Control Mix	High	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
05-02	6 Longmire Lane shared partly with 8 Longmire Lane	Oxford	Directly into lake	Private Road	Surface Erosion-Sheet, Soil-Bare	12 x 100 ft	Roads: Vegetate Shoulder, Install Runoff Diverters-Waterbar. Vegetation: Add to Buffer. Other: Install Runoff Diverter (waterbar). Landowner installed his owner French drain which has made a difference to amount of erosion. But still with bigger rain events a lot of water and sediment seems to be entering the lake. More drains needed.	Low	Medium: \$500-\$2,500	Low: Property owner can accomplish with reference materials
05-03	97 Hayes Cove Road	Oxford	Directly into lake	Residential	Surface Erosion-Sheet, Soil-Bare	10 x 50 ft	Paths: Install Runoff Diverter (waterbar), Erosion Control Mulch.  Vegetation: Add to Buffer. Replace steps with new log bars and add gravel  and or mulch instead of asphalt	Medium	Medium: \$500-\$2,500	Low: Property owner can accomplish with reference materials
05-04	101 Hayes Cove Road	Oxford	Directly into lake	Private Road	Surface Erosion-Sheet, Surface Erosion-Gully, Ditch-Sheet Erosion, Road Shoulder Erosion- Sheet, Road Shoulder Erosion- Gully, Soil-Bare, Roadside Plow/Grader Berm	30 x 150 ft	Ditch: Install Ditch, Armor with Stone, Install Check Dams, Install Sediment Pools. Roads: Install Catch Basin. Construction Site: Check Dams. Other: Mulch/Erosion Control Mix	High	High: Greater than \$2,500	Medium: Technical person should visit site & make recommendations
05-05	48 Charlton Lane	Oxford	Directly into lake	Residential	Surface Erosion-Rill, Shoreline- Erosion	7 x 3 ft	Other: Rain Garden, Infiltration Trench. They have a little retention pool and stone garden installed but needs to be reinforced. Minor project	Medium	Low: Less than \$500	Low: Property owner can accomplish with reference materials
05-06	Between 115 Hayes Cove Road and 48 Charlton Lane	Oxford	Directly into lake	Residential	Surface Erosion-Rill, Culvert- Clogged, Ditch-Gully Erosion, Ditch-Rill Erosion, Soil-Bare	20 x 30 ft	Culvert: Remove Clog. Ditch: Reshape Ditch, remove debris/sediment, Vegetate, Armor with Stone	Medium	Medium: \$500-\$2,500	Low: Property owner can accomplish with reference materials
05-07	47 Beechwoods Road	Oxford	Minimal Vegetation	Residential	Surface Erosion-Rill, Soil-Bare, Shoreline-Lack of Shoreline Vegetation	10 x 50 ft. And 5 x 50 ft	Roads: Install Runoff Diverters-Rubber Razor, Install Catch Basin.  Vegetation: Reseed bare soil & thinning grass. Install 2to 3 razor bars and one just after house gutter. Then a dry well stone garden on base of driveway. Reseed bare grass running from driveway to lawn to lake	Medium	Medium: \$500-\$2,500	Low: Property owner can accomplish with reference materials
05-08	51 Beechwoods Road	Oxford	Minimal Vegetation	Driveway	Surface Erosion-Sheet, Soil-Bare, Shoreline-Lack of Shoreline Vegetation	12 x 100 ft	Roads: Install Runoff Diverters-Rubber Razor, Install Catch Basin. Vegetation: Establish Buffer. Other: Mulch/Erosion Control Mix, Rain Garden, Install Runoff Diverter (waterbar)	Low	Medium: \$500-\$2,500	Low: Property owner can accomplish with reference materials
05-09	57 Beechwoods Road	Oxford	Directly into lake	Residential	Surface Erosion-Rill, Ditch-Sheet Erosion, Ditch-Rill Erosion, Road Shoulder Erosion-Rill, Soil-Bare	2 ft x 100 ft	Ditch: Install Check Dams, Vegetate. Vegetation: Establish Buffer. Other: Rain Garden, Infiltration Trench. Man made ditch runs right from road into lake	Medium	Medium: \$500-\$2,500	Low: Property owner can accomplish with reference materials

Sector & Site	Location	Town	Flow into lake via	Land use	Problems	Size of Area Exposed or Eroded	Recommendations	Impact Rating	Cost to Fix	Technical Level to Install
05-10	16 Longmire Lane	Oxford	Directly into lake	Residential	Surface Erosion-Rill, Surface Erosion-Sheet, Road Shoulder Erosion-Rill, Soil-Bare	12 ft x 100 ft	Roads: Install Runoff Diverters-Waterbar, Install Runoff Diverters-Rubber Razor, Add gravel. Paths: Define Foot Path. Roof: Infiltration Trench @ roof dripline. Vegetation: Reseed bare soil & thinning grass. Other: Install Runoff Diverter (waterbar), Mulch/Erosion Control Mix. Up above house at end of primitive driveway has rill. Could use French drain or berm or drain to divert water from rill. Mulch and defined path by shorefront.	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
05-10	65 Beechwoods Road (No number for this tax lot)	Oxford	Directly into lake	Residential	Surface Erosion-Rill, Surface Erosion-Sheet, Soil-Bare, Shoreline-Lack of Shoreline Vegetation, Shoreline-Erosion	10 x 10 ft area and another 10 x 10 ft area	Vegetation: Establish Buffer. Other: Mulch/Erosion Control Mix, Install Runoff Diverter (waterbar), Rip Rap. Erosion control mulch on bare soil areas. Stop having beach side fire. Fire pit contributes to bare sand areas. Diverter needed on both sides of driveway before ascending into lake. Rip rap would make sense here	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
05-11	91 Beechwoods Road	Oxford	Directly into lake	Residential	Surface Erosion-Rill, Surface Erosion-Sheet, Soil-Bare, Shoreline-Erosion	15 x 80 ft	Paths: Stabilize Foot Path, Define Foot Path. Other: Mulch/Erosion Control Mix, Install Runoff Diverter (waterbar). Huge area of bare soil running from driveway to beach.	High	Medium: \$500-\$2,500	Low: Property owner can accomplish with reference materials
05-13a	103 Beechwoods Road	Oxford	Directly into lake	Residential	Surface Erosion-Sheet, Surface Erosion-Rill, Surface Erosion- Gully, Shoreline-Erosion, Shoreline-Inadequate Shoreline Vegetation	Two areas: 50 x 75 ft and 25 x 75 ft	Vegetation: Establish Buffer. Other: Mulch/Erosion Control Mix. The property is a big mound of bare soil. One foot buffer before lake but huge surface area with rills and a gully carrying sediment to the lake. Needs a lot of mulch and extensive buffer up hillside. Not one place where water could be drained	High	Medium: \$500-\$2,500	Low: Property owner can accomplish with reference materials
05-13b	127 Beechwoods Road	Oxford	Directly into lake	Residential	Surface Erosion-Sheet, Surface Erosion-Rill, Soil-Bare, Shoreline- Lack of Shoreline Vegetation	15 x 30 ft	Paths: Define Foot Path, Erosion Control Mulch. Vegetation: Establish Buffer. Other: Mulch/Erosion Control Mix	Medium	Low: Less than \$500	Low: Property owner can accomplish with reference materials
06-01	59 Sanborn Lane	Oxford	Minimal Vegetation	Residential	Surface Erosion-Rill, Shoreline- Erosion	50 x 10 ft	Paths: Define Foot Path, Stabilize Foot Path, Infiltration Steps. Other: Mulch/Erosion Control Mix. Reduce the number of paths, mulch paths or infiltration steps in steep areas, mulch seating areas/yard	Medium	Low: Less than \$500	Low: Property owner can accomplish with reference materials
06-02	59 Sanborn Lane	Oxford	Minimal Vegetation	Driveway	Surface Erosion-Sheet	20 by 30 ft	Roads: Install Runoff Diverters-Waterbar, Install Runoff Diverters-Open Top Culvert. Install water bar between driveway and walkway to divert water to vegetation instead of running into backyard. Potentially add a box culvert across the road before driveway to reduce the amount of runoff coming off road	Low	Low: Less than \$500	Low: Property owner can accomplish with reference materials
06-03	55 Sanborn Lane	Oxford	Directly into lake	Residential	Surface Erosion-Sheet, Shoreline-Erosion	35 by 3 ft	Paths: Stabilize Foot Path, Infiltration Steps. Other: Mulch/Erosion Control Mix. Add stone under deck and erosion control mulch on garden areas and any other bare soil/paths	Low	Low: Less than \$500	Low: Property owner can accomplish with reference materials
06-04	51 Sanborn Lane	Oxford	Minimal Vegetation	Residential	Surface Erosion-Sheet, Shoreline-Erosion, Roof Runoff Erosion	10 by 15 ft	Roof: Infiltration Trench @ roof dripline, Drywell @ gutter downspout.  Vegetation: Reseed bare soil & thinning grass. Other: Mulch/Erosion  Control Mix. Plant or mulch bare soil areas, (blueberry sod), add to buffer on the north corner of shoreline where bare soil could potentially be causing sheet erosion	Low	Low: Less than \$500	Low: Property owner can accomplish with reference materials
06-05	49 Sanborn Lane	Oxford	Directly into lake	Residential	Surface Erosion-Sheet, Shoreline-Erosion	3 by 20 ft	Paths: Erosion Control Mulch. Vegetation: No Raking. Other: Mulch/Erosion Control Mix. Mulch bare soil areas and minimize raking, allow bare areas to naturally revegetate where possible	Low	Low: Less than \$500	Low: Property owner can accomplish with reference materials
06-06	69 Rich's Camp Lane	Oxford	Directly into lake	Residential	Surface Erosion-Sheet, Shoreline-Erosion,	15 by 10 ft	Paths: Define Foot Path, Stabilize Foot Path, Erosion Control Mulch.  Vegetation: Add to Buffer. ECM on steps and around seating area, add  plants around seating area and along shoreline	Low	Low: Less than \$500	Low: Property owner can accomplish with reference materials

Sector & Site	Location	Town	Flow into lake via	Land use	Problems	Size of Area Exposed or Eroded	Recommendations	Impact Rating	Cost to Fix	Technical Level to Install
06-07	79 Rich's Camp Lane	Oxford	Directly into lake	Residential	Surface Erosion-Rill, Surface Erosion-Sheet, Soil-Bare, Shoreline-Lack of Shoreline Vegetation, Shoreline- Inadequate Shoreline Vegetation, Shoreline-Erosion	50 by 15 ft rough estimate	Construction Site: Mulch. Paths: Stabilize Foot Path. Roof: Rain Barrel. Vegetation: Add to Buffer, No Raking. Other: Mulch/Erosion Control Mix. Add plants wherever possible, add stone under the house (not in stream drainage) to stabilize soil, mulch pathways and bare soil	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
06-08	83 Rich's Camp Lane	Oxford	Directly into lake	Residential	Surface Erosion-Rill, Shoreline- Inadequate Shoreline Vegetation, Shoreline-Erosion	7 by 8 ft	Vegetation: Add to Buffer. Allow more plants to grow on slope, potential stabilization, water bar or coir log	Low	Low: Less than \$500	Low: Property owner can accomplish with reference materials
06-09	87 Rich's Camp Lane	Oxford	Minimal Vegetation	Residential	Surface Erosion-Sheet, Shoreline-Inadequate Shoreline Vegetation	12 by 12 ft	Roof: Drywell @ gutter downspout. Vegetation: Add to Buffer, Reseed bare soil & thinning grass. Other: Mulch/Erosion Control Mix. Add stones and native plants around stream drainage	Low	Low: Less than \$500	Low: Property owner can accomplish with reference materials
06-10	91 Rich's Camp Lane	Oxford	Minimal Vegetation	Residential	Surface Erosion-Sheet	5 by 15 ft	Paths: Define Foot Path, Stabilize Foot Path, Erosion Control Mulch. Vegetation: Add to Buffer	Low	Low: Less than \$500	Low: Property owner can accomplish with reference materials
06-11	97 Rich's Camp Lane	Oxford	Minimal Vegetation	Residential	Surface Erosion-Sheet, Roof Runoff Erosion	5 by 20 ft	Roof: Infiltration Trench @ roof dripline. Vegetation: Add to Buffer, Establish Buffer	Low	Low: Less than \$500	Low: Property owner can accomplish with reference materials
06-12	99 Rich's Camp Lane	Oxford	Directly into lake	Residential	Surface Erosion-Sheet, Surface Erosion-Rill, Shoreline-Erosion, Roof Runoff Erosion	10 by 10 ft	Roof: Infiltration Trench @ roof dripline, Rain Barrel. Dripline trench on sides of building, gutter to rain barrel or send to vegetated area or dry well from the roof section that flows directly to shoreline. Add plants around low area on shoreline that drains from dripline	Low	Low: Less than \$500	Low: Property owner can accomplish with reference materials
06-13	Last house on Rich's Camp Lane	Oxford	Directly into lake	Residential	Surface Erosion-Sheet, Shoreline-Inadequate Shoreline Vegetation	5 by 6 ft	Vegetation: Add to Buffer. Other: Mulch/Erosion Control Mix. Mulch bare soil, plant the corner of the property by the fire pit	Low	Low: Less than \$500	Low: Property owner can accomplish with reference materials
06-14 <mark>a</mark>	Margaret's Lane (where camp driveways branch)	Oxford	Minimal Vegetation	Private Road	Surface Erosion-Gully	60 ft x 8 in gully, 3in deep avg	Culvert: Install Culvert. Roads: Add gravel	Medium	High: Greater than \$2,500	Medium: Technical person should visit site & make recommendations
06-14b	73 Margaret's Lane	Oxford	Minimal Vegetation	Driveway	Surface Erosion-Gully, Road Shoulder Erosion-Gully	100 ft narrow gully	Roads: Reshape (Crown), Install Runoff Diverters-Broad-based Dip, Install Runoff Diverters-Open Top Culvert. Reduce runoff from site above, reshape driveway and add box culverts and/or dips	High	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
06-15	69 Lakewood Estates Lane	Oxford	Directly into lake	Residential	Surface Erosion-Sheet	3 by 15 ft	Paths: Infiltration Steps	Low	Low: Less than \$500	Low: Property owner can accomplish with reference materials
06-16	65 Hickory Hill Lane	Oxford	Directly into lake	Residential	Surface Erosion-Rill, Soil-Bare	30 by 25 ft, 7 by 75 ft path	Paths: Define Foot Path, Stabilize Foot Path, Erosion Control Mulch.  Vegetation: Add to Buffer, No Raking. If ATV track is needed, add thick  layer of erosion control mulch over the path	Medium	Low: Less than \$500	Low: Property owner can accomplish with reference materials

Sector & Site	Location	Town	Flow into lake via	Land use	Problems	Size of Area Exposed or Eroded	Recommendations	Impact Rating	Cost to Fix	Technical Level to Install
06-18	65 Bamberg Lane	Oxford	Directly into lake	Residential	Surface Erosion-Sheet, Soil-Bare	20 by 20 ft	Vegetation: Add to Buffer. Other: Mulch/Erosion Control Mix	Low	Low: Less than \$500	Low: Property owner can accomplish with reference materials
06-19	18 McAllister Lane	Oxford	Directly into lake	Residential	Surface Erosion-Sheet, Shoreline-Lack of Shoreline Vegetation, Shoreline-Erosion	3 by 5 ft	Vegetation: Add to Buffer. Other: Mulch/Erosion Control Mix	Low	Low: Less than \$500	Low: Property owner can accomplish with reference materials
06-20	10 McAllister Lane	Oxford	Directly into lake	Residential	Surface Erosion-Sheet, Shoreline-Erosion, Roof Runoff Erosion	10 by 5 ft	Roof: Infiltration Trench @ roof dripline. Vegetation: Add to Buffer, No Raking. Other: Mulch/Erosion Control Mix. Mulch seating area and add to buffer	Low	Low: Less than \$500	Low: Property owner can accomplish with reference materials
06-21	10 McAllister Road	Oxford	Directly into lake	Driveway	Surface Erosion-Rill	100 by 30 ft	Roads: Install Runoff Diverters-Open Top Culvert, Install Runoff Diverters- Broad-based Dip, Install Runoff Diverters-Waterbar. Runoff diverters along driveway and water bar at end	High	Medium: \$500-\$2,500	Low: Property owner can accomplish with reference materials
06-22	McAllister Road	Oxford	Ditch	Private Road	Surface Erosion-Gully	150 by 10 ft	Roads: Reshape (Crown), Install Runoff Diverters-Broad-based Dip, Install Runoff Diverters-Open Top Culvert, Install Runoff Diverters-Waterbar, Install Runoff Diverters-Rubber Razor	High	Medium: \$500-\$2,500	Low: Property owner can accomplish with reference materials
07-01	Farthest south house on Cooper Lane (Likely 56 Cooper Lane)	Oxford	Stream	Driveway	Surface Erosion-Gully, Culvert- Clogged	75 by 1.5 ft, 15 by 10 ft bank	Culvert: Remove Clog, Enlarge. Roads: Vegetate Shoulder. Remove clog and enlarge culvert to prevent water flowing down driveway and over bank	Medium	Medium: \$500-\$2,500	Low: Property owner can accomplish with reference materials
07-02	Southernmost house on Cooper Lane (Likely 56 Cooper Lane)	Oxford	Directly into lake	Residential	Surface Erosion-Sheet, Shoreline-Lack of Shoreline Vegetation, Shoreline- Inadequate Shoreline Vegetation, Shoreline-Erosion	30 by 20 ft	Paths: Infiltration Steps, Stabilize Foot Path. Vegetation: Add to Buffer. Other: Mulch/Erosion Control Mix. Lots of erosion, would be helped a lot by buffer plantings or just letting trees grow up and using ECM on bare soil	High	Low: Less than \$500	Low: Property owner can accomplish with reference materials
07-03	76 Cooper Lane (near yellow cottage	Oxford	Minimal Vegetation	Other: Volleyball court	Surface Erosion-Gully	50 ft by 2 ft	Roads: Install Runoff Diverters-Waterbar. Define edges of volleyball court and add water bars, direct drainage away from court with either a culvert or vegetated ditching around the court	Medium	Medium: \$500-\$2,500	Low: Property owner can accomplish with reference materials
07-04	23 Howlin Wolf Lane	Oxford	Directly into lake	Residential	Surface Erosion-Rill, Soil-Bare, Shoreline-Erosion	50 by 30 ft	Roads: Add gravel. Vegetation: Add to Buffer, No Raking. Other: Install Runoff Diverter (waterbar), Mulch/Erosion Control Mix. Add surface material to cover sand on driveway, define driveway and mulch all non-driveway areas	Medium	Low: Less than \$500	Low: Property owner can accomplish with reference materials
07-05	19 Howlin Wolf Lane	Oxford	Directly into lake	Residential	Surface Erosion-Sheet	35 by 10 ft	Vegetation: Add to Buffer. Bank stabilization	Medium	High: Greater than \$2,500	High: Site requires engineered design
07-06	40 Royal Shores Lane	Oxford	Minimal Vegetation	Residential	Surface Erosion-Sheet	20 by 3 ft	Paths: Stabilize Foot Path, Infiltration Steps, Erosion Control Mulch	Low	Low: Less than \$500	Low: Property owner can accomplish with reference materials
07-07	48 Royal Shores Lane	Oxford	Minimal Vegetation	Driveway	Surface Erosion-Rill	65 by 15 ft driveway, 40 x 4 ft path	Roads: Install Runoff Diverters-Rubber Razor, Install Runoff Diverters- Waterbar. Paths: Erosion Control Mulch. Let buffer regrow after tree cutting	Medium	Medium: \$500-\$2,500	Low: Property owner can accomplish with reference materials
07-08	52 Royal Shores Lane	Oxford	Minimal Vegetation	Driveway	Surface Erosion-Rill	40 by 10 ft	Roads: Install Runoff Diverters-Rubber Razor. Paths: Infiltration Steps.  Convert part of stone path to infiltration pathway	Low	Low: Less than \$500	Low: Property owner can accomplish with reference materials

Sector & Site	Location	Town	Flow into lake via	Land use	Problems	Size of Area Exposed or Eroded	Recommendations	Impact Rating	Cost to Fix	Technical Level to Install
07-09	17 Grove Street	Oxford	Directly into lake	Residential	Surface Erosion-Sheet, Shoreline-Lack of Shoreline Vegetation	10 by 30 ft	Vegetation: Establish Buffer, Add to Buffer, Reseed bare soil & thinning grass	Medium	Low: Less than \$500	Low: Property owner can accomplish with reference materials
08-01	By 123 Pleasant Street near telephone pole	Oxford	Ditch	State Road	Surface Erosion-Sheet, Culvert- Unstable inlet/outlet, Soil- Uncovered Pile	N/A	Culvert: Replace. Construction Site: Silt Fence/EC Berms	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
08-02	14 Lake Street	Oxford	Stream	Residential	Soil-Uncovered Pile, Shoreline- Inadequate Shoreline Vegetation, Roof Runoff Erosion	N/A	Roof: Infiltration Trench @ roof dripline. Vegetation: Add to Buffer, No Raking. Other: Rain Garden, Infiltration Trench, Remove Invasive Plants.	Low	Low: Less than \$500	Low: Property owner can accomplish with reference materials
08-03	100 Pleasant Street	Oxford	Stream	Residential	Surface Erosion-Rill, Culvert- Clogged, Culvert-Crushed Broken, Soil-Bare, Soil- Uncovered Pile, Shoreline-Lack of Shoreline Vegetation, Shoreline-Inadequate Shoreline Vegetation, Shoreline-Erosion	N/A	Culvert: Remove Clog, Assess Drainage Area. Ditch: Install Check Dams. Construction Site: Check Dams, Mulch, Silt Fence/EC Berms. Paths: Define Foot Path. Vegetation: Establish Buffer, Add to Buffer, Reseed bare soil & thinning grass	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
08-04	174 Pleasant Street	Oxford	Directly into lake	Residential	Surface Erosion-Sheet, Soil-Bare	N/A	Vegetation: Establish Buffer, Add to Buffer, No Raking, Reseed bare soil & thinning grass	Low	Low: Less than \$500	Low: Property owner can accomplish with reference materials
08-05	16 Gore Road	Oxford	Directly into lake	Residential	Surface Erosion-Sheet, Soil-Bare, Roof Runoff Erosion	N/A	Paths: Define Foot Path, Stabilize Foot Path, Infiltration Steps, Install Runoff Diverter (waterbar), Erosion Control Mulch. Roof: Infiltration Trench @ roof dripline. Vegetation: Add to Buffer, Reseed bare soil & thinning grass	Medium	Medium: \$500-\$2,500	Low: Property owner can accomplish with reference materials
08-06	62 Gore Road	Oxford	Directly into lake	Residential	Surface Erosion-Sheet, Soil-Bare	N/A	Vegetation: Establish Buffer, Add to Buffer, Reseed bare soil & thinning grass	Low	Low: Less than \$500	Low: Property owner can accomplish with reference materials
08-07	Gore Road, 50 Utility Pole	Oxford	Ditch	State Road	Culvert-Clogged, Ditch-Sheet Erosion	N/A	Culvert: Assess Drainage Area	Medium	Medium: \$500-\$2,500	High: Site requires engineered design
08-08	62 Gore Road	Oxford	Directly into lake	Residential	Surface Erosion-Sheet, Soil-Bare, Soil-Winter Sand, Shoreline- Undercut, Shoreline-Lack of Shoreline Vegetation, Shoreline- Inadequate Shoreline Vegetation, Shoreline-Erosion, Shoreline-Unstable Access	N/A	Vegetation: Establish Buffer, Add to Buffer, No Raking, Reseed bare soil & thinning grass. Other: Install Runoff Diverter (waterbar), Rain Garden	Medium	Medium: \$500-\$2,500	High: Site requires engineered design
08-09	123 Pleasant Street	Oxford	Ditch	Town Road	Surface Erosion-Rill, Culvert- Clogged, Culvert-Larger Drainage Issues, Culvert- Diameter too small, Ditch-Sheet Erosion, Ditch-Undersized, Road Shoulder Erosion-Rill, Soil-Bare, Soil-Winter Sand	N/A	Culvert: Remove Clog, Enlarge. Ditch: Vegetate. Roads: Remove Grader/Plow Berms, Vegetate Shoulder	Medium	Medium: \$500-\$2,500	High: Site requires engineered design
08-10	122 Pleasant Street	Oxford	Minimal Vegetation	Residential	Surface Erosion-Sheet, Soil-Bare, Soil-Winter Sand	N/A	Vegetation: Reseed bare soil & thinning grass, Add to Buffer	Low	Low: Less than \$500	Low: Property owner can accomplish with reference materials

Sector & Site	Location	Town	Flow into lake via	Land use	Problems	Size of Area Exposed or Eroded	Recommendations	Impact Rating	Cost to Fix	Technical Level to Install
08-11	118 Pleasant Street	Oxford	Minimal Vegetation	Residential	Surface Erosion-Sheet, Soil-Bare, Soil-Winter Sand	N/A	Vegetation: Reseed bare soil & thinning grass, Add to Buffer	Low	Low: Less than \$500	Low: Property owner can accomplish with reference materials
08-12a	115 Pleasant Street	Oxford	Ditch	Town Road	Surface Erosion-Sheet, Ditch- Sheet Erosion	N/A	Culvert: Remove Clog. Ditch: Vegetate, Remove debris/sediment	Low	Medium: \$500-\$2,500	High: Site requires engineered design
08-12b	119 Pleasant Street	Oxford	Ditch	Town Road	Surface Erosion-Sheet, Culvert- Clogged, Ditch-Rill Erosion, Ditch-Bank Failure, Road Shoulder Erosion-Sheet, Soil- Bare, Soil-Uncovered Pile, Soil- Winter Sand	N/A	Culvert: Remove Clog. Ditch: Vegetate, Reshape Ditch. Roads: Vegetate Shoulder	Medium	Medium: \$500-\$2,500	High: Site requires engineered design
08-13	163 Pleasant Street	Oxford	Ditch	Town Road	Surface Erosion-Sheet, Culvert- Clogged, Ditch-Sheet Erosion	N/A	N/A	Low	Low: Less than \$500	Medium: Technical person should visit site & make recommendations
08-14	145 Pleasant Street	Oxford	Ditch	Town Road	Surface Erosion-Rill, Culvert- Clogged, Culvert-Unstable inlet/outlet, Culvert-Crushed Broken, Culvert-Larger Drainage Issues, Ditch-Rill Erosion	N/A	Culvert: Remove Clog, Replace, Armor Inlet/Outlet, Realign. Ditch: Vegetate, Armor with Stone, Reshape Ditch, Remove debris/sediment	Medium	Medium: \$500-\$2,500	High: Site requires engineered design
09-01	54 Pine Point Road	Oxford	Directly into lake	Residential	Surface Erosion-Sheet, Soil-Bare, Shoreline-Lack of Shoreline Vegetation	25 x 15 ft. 40 x 15 ft	Vegetation: Add to Buffer. Other: Mulch/Erosion Control Mix	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
09-02	58 Pine Point Road	Oxford	Directly into lake	Residential	Surface Erosion-Sheet, Soil-Bare	30 x 10 ft	Roof: Infiltration Trench @ roof dripline. Vegetation: Add to Buffer, No Raking. Other: Mulch/Erosion Control Mix	Low	Medium: \$500-\$2,500	Low: Property owner can accomplish with reference materials
09-03	66 Pine Point Road	Oxford	Directly into lake	Residential	Surface Erosion-Sheet, Soil-Bare	15 x 5 ft	Paths: Define Foot Path, Stabilize Foot Path, Erosion Control Mulch	Low	Low: Less than \$500	Low: Property owner can accomplish with reference materials
09-04	72 Pine Point Road	Oxford	Directly into lake	Residential	Surface Erosion-Sheet, Soil-Bare, Shoreline-Lack of Shoreline Vegetation, Shoreline- Inadequate Shoreline Vegetation	100 x 100v	Paths: Define Foot Path, Stabilize Foot Path, Install Runoff Diverter (waterbar), Erosion Control Mulch. Vegetation: Establish Buffer, No Raking. Other: Mulch/Erosion Control Mix, Rain Garden	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
09-05	76 Pine Point Road	Oxford	Directly into lake	Residential	Surface Erosion-Sheet, Soil-Bare, Shoreline-Lack of Shoreline Vegetation	30 x 30 ft	Paths: Define Foot Path, Stabilize Foot Path. Vegetation: Add to Buffer. Other: Mulch/Erosion Control Mix. The second photo is the lake access for the house across the street and should be a separate site.	Medium	Medium: \$500-\$2,500	Low: Property owner can accomplish with reference materials
09-06	78 Pine Point Road	Oxford	Directly into lake	Residential	Surface Erosion-Gully, Shoreline- Undercut	10 x 5 ft	Other: Rip Rap	High	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
09-07	84 Pine Point Road	Oxford	Directly into lake	Residential	Surface Erosion-Sheet, Soil-Bare, Shoreline-Lack of Shoreline Vegetation	40 x 40 ft	Paths: Define Foot Path, Infiltration Steps. Vegetation: Add to Buffer, No Raking, Reseed bare soil & thinning grass. Other: Mulch/Erosion Control Mix	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations

Sector & Site	Location	Town	Flow into lake via	Land use	Problems	Size of Area Exposed or Eroded	Recommendations	Impact Rating	Cost to Fix	Technical Level to Install
09-08	98 Pine Point Road	Oxford	Directly into lake	Residential	Surface Erosion-Sheet, Soil-Bare	60 x 25 ft	Paths: Define Foot Path, Install Runoff Diverter (waterbar), Erosion Control Mulch. Vegetation: Add to Buffer	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
09-09	128 Pine Point Road	Oxford	Directly into lake	Residential	Surface Erosion-Sheet, Soil-Bare	20 x 20 ft	Paths: Define Foot Path. Vegetation: Add to Buffer. Other: Mulch/Erosion Control Mix, Rain Garden	Low	Low: Less than \$500	Low: Property owner can accomplish with reference materials
09-10	138 Pine Point Road	Oxford	Directly into lake	Residential	Surface Erosion-Sheet, Soil-Bare, Shoreline-Undercut	15 x 15 ft	Paths: Infiltration Steps. Other: Mulch/Erosion Control Mix. Define path	Low	Low: Less than \$500	Low: Property owner can accomplish with reference materials
09-11	182 Pine Point Road	Oxford	Directly into lake	Residential	Surface Erosion-Sheet, Soil-Bare	40 x 20 ft	Paths: Define Foot Path, Stabilize Foot Path, Erosion Control Mulch	Medium	Low: Less than \$500	Low: Property owner can accomplish with reference materials
10-01	24 Fairturn Acres	Oxford	Directly into lake	Beach Access	Surface Erosion-Gully, Other- Road runoff crossing property and eroding beach below retaining wall.	15 x 5 ft	Vegetation: Add to Buffer. Other: Rain Garden	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
10-03	22 Fairturn Acres	Oxford	Minimal Vegetation	Residential	Surface Erosion-Sheet, Soil-Bare, Shoreline-Lack of Shoreline Vegetation	15 x 15 ft	Vegetation: Add to Buffer, No Raking, Reseed bare soil & thinning grass. Other: Mulch/Erosion Control Mix	Low	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
10-05	20 Fairturn Acres	Oxford	Minimal Vegetation	Driveway	Surface Erosion-Sheet, Soil-Bare	15 x 15 ft	Roads: Install Catch Basin. Other: Mulch/Erosion Control Mix	Low	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
10-06	18 Fairturn Acres	Oxford	Minimal Vegetation	Driveway	Surface Erosion-Sheet, Soil-Bare, Other-Runoff down driveway carrying sediment. Some residential areas bare soil too	25 x 15 ft	Roads: Install Catch Basin, Install Detention Basin. Vegetation: No Raking, reseed bare soil & thinning grass, Add to Buffer. Other: Mulch/Erosion Control Mix	Low	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
10-07	456 Pleasant Street	Oxford	Minimal Vegetation	Residential	Surface Erosion-Sheet, Soil-Bare, Shoreline-Inadequate Shoreline Vegetation, Shoreline-Unstable Access, Roof Runoff Erosion	40 x 20 ft	Paths: Define Foot Path, Erosion Control Mulch. Roof: Infiltration Trench @ roof dripline. Vegetation: Add to Buffer, No Raking, Reseed bare soil & thinning grass. Other: Mulch/Erosion Control Mix	Low	Low: Less than \$500	Low: Property owner can accomplish with reference materials
10-08	26 Paradise Lane	Oxford	Minimal Vegetation	Residential	Ditch-Sheet Erosion, Roof Runoff Erosion, Other-Ditch runs along edge of camp to lake	40 x 3 ft	Ditch: Armor with Stone. Vegetation: Add to Buffer. Other: Infiltration Trench, Rain Garden	Low	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
10-09	22 Paradise Lane	Oxford	Directly into lake	Residential	Surface Erosion-Sheet, Shoreline-Inadequate Shoreline Vegetation, Shoreline-Erosion, Other-Fertilizer	50 x 20 ft	Vegetation: Add to Buffer. Stabilize bank with additional vegetation, coir logs and ECM	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
10-10	18 Paradise Lane	Oxford	Minimal Vegetation	Residential	Surface Erosion-Sheet, Soil-Bare, Shoreline-Erosion, Shoreline- Inadequate Shoreline Vegetation	30 x 15 ft	Vegetation: Add to Buffer, Reseed bare soil & thinning grass. Stabilize slope with coir logs, ECM, and veg	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations

Sector & Site	Location	Town	Flow into lake via	Land use	Problems	Size of Area Exposed or Eroded	Recommendations	Impact Rating	Cost to Fix	Technical Level to Install
10-11	16 Paradise Lane	Oxford	Directly into lake	Beach Access	Surface Erosion-Gully, Soil-Bare, Shoreline-Undercut, Shoreline- Lack of Shoreline Vegetation, Shoreline-Erosion, Shoreline- Unstable Access, Other, Tree fell and caused a lot of disturbance. Sand brought in for beach?	30 x 40 ft sloped area, 40 x 30 ft beach	Vegetation: Establish Buffer, Reseed bare soil & thinning grass. Revegetate shoreline with trees and shrubs, stabilize bank, no sand additions/contain sand	High	High: Greater than \$2,500	Medium: Technical person should visit site & make recommendations
10-12	48 Briggs Lane	Oxford	Directly into lake	Residential	Surface Erosion-Rill, Soil-Bare, Shoreline-Erosion, Shoreline- Inadequate Shoreline Vegetation, Other-Water draining to back corner of property and downhill slope	25 x 10 ft lawn, 10 x 5 ft slope	Vegetation: Add to Buffer, Reseed bare soil & thinning grass, No Raking. Other: Mulch/Erosion Control Mix. Stabilize eroding bank	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
10-13	75 Briggs Lane	Oxford	Minimal Vegetation	Residential	Surface Erosion-Sheet, Soil-Bare, Shoreline-Inadequate Shoreline Vegetation, Shoreline-Erosion, Roof Runoff Erosion	20 x 20 ft	Roof: Drywell @ gutter downspout, Infiltration Trench @ roof dripline.  Vegetation: Add to Buffer, No Raking, Reseed bare soil & thinning grass.  Other: Mulch/Erosion Control Mix	Low	Low: Less than \$500	Low: Property owner can accomplish with reference materials
10-14	8 Patriots Way	Oxford	Directly into lake	Residential	Surface Erosion-Sheet, Soil-Bare, Shoreline-Unstable Access, Other-Culvert drains under driveway from ditch by state road. Well defined channel could benefit from rock lining	15 x 15 ft	Ditch: Armor with Stone. Paths: Infiltration Steps, Erosion Control Mulch	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
10-2	24 Fairturn Acres	Oxford	Minimal Vegetation	Driveway	Surface Erosion-Sheet, Other- Runoff contributing to erosion at site 10-01	30 x 15 ft	Roads: Add gravel, Reshape (Crown), Install Runoff Diverters-Broad-based Dip. Slope driveway to the side and install infiltration trench and dry well near Lakeside.	Low	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
10-4	20 Fairturn Acres	Oxford	Directly into lake	Beach Access	Surface Erosion-Sheet, Soil-Bare, Shoreline-Unstable Access, Shoreline-Erosion, Shoreline- Inadequate Shoreline Vegetation, Shoreline-Lack of Shoreline Vegetation	40 x 25 ft	Paths: Define Foot Path, Infiltration Steps, Erosion Control Mulch.  Vegetation: Establish Buffer, No Raking, Reseed bare soil & thinning grass	Low	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
11-01	Greeley Brook Road, culvert crossing near Tax Map Number U49- 034-000	Oxford	Stream	Private Road	Surface Erosion-Sheet, Culvert- Unstable inlet/outlet, Road Shoulder Erosion-Sheet	10 x 10 ft	Culvert: Armor Inlet/Outlet. Roads: Reshape (Crown), Build Up	Low	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
11-02	Culvert next to 110 Gore Road, west side of road	Oxford	Stream	Town Road	Surface Erosion-Sheet, Road Shoulder Erosion-Sheet	5 x 10 ft	Culvert: Armor Inlet/Outlet. Roads: Vegetate Shoulder	Low	Low: Less than \$500	Medium: Technical person should visit site & make recommendations
11-03	Culvert near 54 Heavens Road	Oxford	Stream	Private Road	Road Shoulder Erosion-Rill	5 x 5 ft	Culvert: Armor Inlet/Outlet. Roads: Vegetate Shoulder. Vegetate road shoulder above culvert to prevent erosion	Low	Low: Less than \$500	Medium: Technical person should visit site & make recommendations

Sector & Site	Location	Town	Flow into lake via	Land use	Problems	Size of Area Exposed or Eroded	Recommendations	Impact Rating	Cost to Fix	Technical Level to Install
11-04	38 Heavens Road	Oxford	Minimal Vegetation	Private Road	Surface Erosion-Rill, Road Shoulder Erosion-Rill	1000+. SqFt	Roads: Build Up, Add gravel, Reshape (Crown)	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
11-05	274 Gore Road	Oxford	Stream	Other: Border of residential property and stream crossing under town roadway.	Surface Erosion-Gully, Soil- Uncovered Pile, Shoreline- Inadequate Shoreline Vegetation, Shoreline-Erosion, Shoreline-Unstable Access, Shoreline-Undercut	30 x 100 ft	Vegetation: Establish Buffer, Add to Buffer. Other: Rip Rap. Flooding occurring in this area of the stream, large amounts of fine sand have been deposited in residential yard after high water event (see second site photo).	High	High: Greater than \$2,500	High: Site requires engineered design
11-30	End of Kayla Lane, crossing next to Pole #5042	Oxford	Stream	Private Road	Surface Erosion-Gully, Culvert- Larger Drainage Issues, Culvert- Too short/long, Culvert- Diameter too small, Culvert- Blown out, Road Shoulder Erosion-Gully	10 ft x 10 ft	Culvert: Enlarge, Replace, Adjust Length, Assess Drainage Area	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
11-31	First stream crossing on Kayla Lane	Oxford	Stream	Private Road	Surface Erosion-Gully, Culvert- Too short/long,Culvert-Diameter too small, Culvert-Blown out, Ditch-Gully Erosion, Road Shoulder Erosion-Gully	10 ft x 25 ft	Culvert: Replace, Enlarge, Realign, Adjust Length, Assess Drainage Area. Roads: Build Up, Add gravel, Reshape (Crown)	High	High: Greater than \$2,500	High: Site requires engineered design
11-32	Stream crossing just past #97 New Harrison Road, Oxford	Oxford	Stream	Private Road	Surface Erosion-Gully, Culvert- Too short/long, Culvert-Larger Drainage Issues, Culvert-Blown out	5 ft x 12 ft	Culvert: Install Culvert, Assess Drainage Area, Enlarge, Replace	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
11-33	First crossing on New Harrison Road, Oxford	Oxford	Stream	Private Road	Culvert-Blown out, Culvert- Misaligned	20 ft x 50 ft	Culvert: Assess Drainage Area, Realign	Medium	High: Greater than \$2,500	High: Site requires engineered design
12-01	Route 121 from 478 Pleasant Street to Boat Launch	Oxford	Ditch	State Road	Surface Erosion-Rill, Ditch- Undersized, Ditch-Rill Erosion, Ditch-Sheet Erosion, Road Shoulder Erosion-Rill, Soil-Bare, Other-Unstable bank between residential parking and ditch.	50 x 15 ft	Ditch: Vegetate, Armor with Stone, Reshape Ditch, Install Check Dams, Remove debris/sediment. Stabilize bank above ditch with EC blanket and veg or fabric and stone	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
12-02	482 Pleasant Street	Oxford	Ditch	Residential	Surface Erosion-Sheet, Soil-Bare, Soil-Uncovered Pile, Roof Runoff Erosion	40 x 30 ft	Roof: Rain Barrel. Vegetation: Reseed bare soil & thinning grass, No Raking. Other: Mulch/Erosion Control Mix. Cover or remove soil pile, infiltration for driveway runoff	Low	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
12-03	488 Pleasant Street	Oxford	Minimal Vegetation	Residential	Other-Fertilizer	150 x 40 ft	Vegetation: Establish Buffer. Use P free fertilizer or get UMaine soil test	Low	Low: Less than \$500	Low: Property owner can accomplish with reference materials
12-04	TLEA boat launch on Route 121, Oxford	Oxford	Directly into lake	Boat Access	Surface Erosion-Gully, Road Shoulder Erosion-Sheet, Soil- Bare, Shoreline-Undercut, Shoreline-Erosion, Shoreline- Unstable Access, Other-Boat ramp too short for access	25 x 30 ft	Redesign more stable launch, permeable pavers	High	High: Greater than \$2,500	High: Site requires engineered design

Sector & Site	Location	Town	Flow into lake via	Land use	Problems	Size of Area Exposed or Eroded	Recommendations	Impact Rating	Cost to Fix	Technical Level to Install
12-05	Route 121 across from boat launch	Oxford	Stream	State Road	Surface Erosion-Gully, Road Shoulder Erosion-Gully, Soil- Bare, Soil-Delta in Stream/Lake	10 x 10 ft	N/A	Medium	Low: Less than \$500	Medium: Technical person should visit site & make recommendations
12-06	Route 121 between lake and stream - CMP Pole #59, near boat launch	Oxford	Stream	State Road	Surface Erosion-Rill, Surface Erosion-Sheet, Culvert-Clogged, Culvert-Too short/long, Culvert- Diameter too small, Culvert- Unstable inlet/outlet, Culvert- Blown out, Road Shoulder Erosion-Sheet, Road Shoulder Erosion-Rill, Soil-Bare, Shoreline- Inadequate Shoreline Vegetation, Shoreline-Erosion, Other-Invasive Plants, Large area of eroded road shoulder on both sides of road. Culverts undersized and not well armored. Knotweed starting near pole.	800 x 10 ft	Culvert: Armor Inlet/Outlet, Remove Clog, Enlarge, Adjust Length, Assess Drainage Area. Roads: Vegetate Shoulder. Vegetation: Add to Buffer. Other: Remove Invasive Plants	High	High: Greater than \$2,500	High: Site requires engineered design
12-07	508 Pleasant Street	Oxford	Minimal Vegetation	Driveway	Surface Erosion-Rill, Soil-Bare	20 x 15 ft	Roads: Install Runoff Diverters-Broad-based Dip, Reshape (Crown). Run-on from Rt 121 and roof	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
12-08	508 Pleasant Street	Oxford	Minimal Vegetation	Residential	Surface Erosion-Rill, Shoreline- Erosion, Shoreline-Inadequate Shoreline Vegetation, Shoreline- Lack of Shoreline Vegetation, Roof Runoff Erosion	5 x 25 ft roof, 25 x 25 ft slope	Paths: Define Foot Path, Infiltration Steps. Roof: Infiltration Trench @ roof dripline. Vegetation: Establish Buffer, Add to Buffer. Other: Mulch/Erosion Control Mix. Stabilize shoreline with coir log terraces and native veg.  Address site 12-07 first	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
12-09	Culvert at CMP pole 62S at start of Canada Hill Shores	Otisfield	Stream	State Road	Surface Erosion-Rill, Culvert- Unstable inlet/outlet, Ditch- Gully Erosion, Road Shoulder Erosion-Sheet, Soil-Bare	20 x 10 ft by pole, 150 x 12 ft by ditch	Culvert: Armor Inlet/Outlet. Ditch: Vegetate, Armor with Stone, Reshape Ditch, Install Check Dams, Remove debris/sediment. Roads: Remove Grader/Plow Berms	High	High: Greater than \$2,500	Medium: Technical person should visit site & make recommendations
12-10	Culvert Approx. 100' north of Otisfield town line, State Route 121	Oxford	Minimal Vegetation	State Road	Culvert-Unstable inlet/outlet, Culvert-Too short/long, Road Shoulder Erosion-Rill, Roadside Plow/Grader Berm	15 x 15 ft	Culvert: Armor Inlet/Outlet, Adjust Length, Install Plunge Pool. Ditch: Armor with Stone, Install Check Dams, Remove debris/sediment, Install Sediment Pools. Roads: Remove Grader/Plow Berms, Vegetate Shoulder, Install Catch Basin	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
12-11	17 Canada Hill Shores	Otisfield	Minimal Vegetation	Private Road	Surface Erosion-Gully, Culvert- Blown out, Shoreline-Erosion, Other-Runoff from RT121 flows under road and is causing erosion into lake	50 x 15 ft	Culvert: Install Plunge Pool, Assess Drainage Area. Other: Rip Rap	High	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
12-12	21 Canada Hill Shores	Otisfield	Directly into lake	Boat Access	Surface Erosion-Sheet, Soil-Bare, Shoreline-Undercut, Shoreline- Erosion, Shoreline-Unstable Access	5 x 4 ft	Stabilize eroding area with fabric and rocks	Low	Low: Less than \$500	Low: Property owner can accomplish with reference materials

Sector & Site	Location	Town	Flow into lake via	Land use	Problems	Size of Area Exposed or Eroded	Recommendations	Impact Rating	Cost to Fix	Technical Level to Install
12-13	60 Canada Hill Shores	Otisfield	Minimal Vegetation	Residential	Surface Erosion-Sheet, Soil-Bare, Shoreline-Lack of Shoreline Vegetation, Shoreline-Erosion, Shoreline-Unstable Access, Other-Fire pit close to water	20 x 15 ft	Paths: Erosion Control Mulch. Vegetation: Reseed bare soil & thinning grass. Other: Mulch/Erosion Control Mix. Prevent ash from getting into lake	Low	Low: Less than \$500	Low: Property owner can accomplish with reference materials
12-14	26 Canada Hill Shores	Otisfield	Minimal Vegetation	Residential	Surface Erosion-Sheet, Soil-Bare, Shoreline-Erosion, Shoreline- Lack of Shoreline Vegetation, Other, Bare soil in parking area, dirty riprap	70 x 15 ft	Vegetation: Add to Buffer, Reseed bare soil & thinning grass. Other: Mulch/Erosion Control Mix. Crushed stone to cover bare soil in parking area or revegetate	Low	Medium: \$500-\$2,500	Low: Property owner can accomplish with reference materials
12-15	20 Canada Hill Shores	Otisfield	Minimal Vegetation	Residential	Surface Erosion-Sheet, Soil-Bare, Shoreline-Lack of Shoreline Vegetation	20 x 10 ft	Vegetation: Reseed bare soil & thinning grass, No Raking, Add to Buffer. Other: Mulch/Erosion Control Mix	Low	Low: Less than \$500	Low: Property owner can accomplish with reference materials
12-16	Catch basin and culvert adjacent to 69 State Route 121	Otisfield	Directly into lake	State Road	Surface Erosion-Gully, Culvert- Unstable inlet/outlet, Culvert- Clogged, Culvert-Too short/long, Culvert-Larger Drainage Issues, Culvert-Blown out, Ditch-Gully Erosion, Road Shoulder Erosion- Rill, Soil-Delta in Stream/Lake, Soil-Winter Sand, Other-Long stretch of ditch erosion, shoulder erosion, large build up of sand a gravel piled up around catch basin, outlet culvert at lake clogged by delta	250' ditch to catch basin, 30'	Culvert: Armor Inlet/Outlet, Remove Clog, Install Plunge Pool, Assess Drainage Area. Ditch: Armor with Stone, Reshape Ditch, Install Check Dams, Remove debris/sediment, Install Sediment Pools. Roads: Remove Grader/Plow Berms	High	High: Greater than \$2,500	High: Site requires engineered design
12-17	79 State Route 121	Otisfield	Minimal Vegetation	Beach Access	Surface Erosion-Sheet, Soil-Bare, Shoreline-Erosion, Shoreline- Unstable Access, Other-Erosion on steep bank across the road by house.	20 x 15 ft	Paths: Define Foot Path, Erosion Control Mulch. Vegetation: No Raking. Revegetate slope at road by house	Low	Low: Less than \$500	Low: Property owner can accomplish with reference materials
12-18	83 State Route 121	Otisfield	Minimal Vegetation	Beach Access	Surface Erosion-Sheet, Soil-Bare, Shoreline-Erosion, Shoreline- Unstable Access, Other-Exposed fire pit with ash	100 x 40 ft	Paths: Erosion Control Mulch. Vegetation: Add to Buffer, No Raking. Other: Mulch/Erosion Control Mix. Add ECM berm along edge between plants and sand	Low	Low: Less than \$500	Low: Property owner can accomplish with reference materials
12-19	89 State Route 121	Otisfield	Directly into lake	Beach Access	Surface Erosion-Gully, Surface Erosion-Rill, Surface Erosion- Sheet, Road Shoulder Erosion- Gully, Soil-Bare, Soil-Winter Sand, Shoreline-Lack of Shoreline Vegetation, Shoreline- Erosion, Shoreline-Unstable Access, Shoreline-Inadequate Shoreline Vegetation	80 x 20 ft	Roads: Remove Grader/Plow Berms, Vegetate Shoulder. Paths: Erosion Control Mulch. Vegetation: Add to Buffer, No Raking, Reseed bare soil & thinning grass	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations

Sector & Site	Location	Town	Flow into lake via	Land use	Problems	Size of Area Exposed or Eroded	Recommendations	Impact Rating	Cost to Fix	Technical Level to Install
12-20	Adjacent to 89 State Route 121	Otisfield	Directly into lake	State Road	Surface Erosion-Gully, Culvert- Unstable inlet/outlet, Culvert- Clogged, Culvert-Crushed Broken, Culvert-Larger Drainage Issues, Ditch-Gully Erosion, Road Shoulder Erosion-Rill, Soil-Bare, Soil-Delta in Stream/Lake, Soil- Winter Sand	1000 x 15 ft	Culvert: Armor Inlet/Outlet, Remove Clog, Install Plunge Pool, Assess Drainage Area. Ditch: Vegetate, Armor with Stone, Reshape Ditch, Remove debris/sediment, Install Check Dams. Roads: Remove Grader/Plow Berms	High	High: Greater than \$2,500	High: Site requires engineered design
12-21	91 State Route 121	Otisfield	Ditch	Residential	Surface Erosion-Gully, Soil-Bare, Other-Eroding bank between house and ditch	40 x 50 ft	Vegetation: Reseed bare soil & thinning grass. Revegetate hill slope, culvert under driveway	Medium	Medium: \$500-\$2,500	Low: Property owner can accomplish with reference materials
12-22	Lakeside Route 121, adjacent to 96 Route 121	Otisfield	Directly into lake	Beach Access	Surface Erosion-Gully, Surface Erosion-Rill, Surface Erosion- Sheet, Soil-Bare, Shoreline- Undercut, Shoreline-Lack of Shoreline Vegetation, Shoreline- Erosion, Shoreline-Unstable Access, Other-Run-off from road and adjacent store	50 x 25 ft	Paths: Define Foot Path, Infiltration Steps, Erosion Control Mulch. Vegetation: No Raking, Reseed bare soil & thinning grass. Other: Mulch/Erosion Control Mix. Terrace and vegetate area near fence	High	High: Greater than \$2,500	Medium: Technical person should visit site & make recommendations
12-22	96 State Route 121, house next to pears	Otisfield	Minimal Vegetation	Driveway	Surface Erosion-Rill, Road Shoulder Erosion-Sheet, Roof Runoff Erosion, Other-Dumpster leaking fluid onto neighbor's property	20 x 20 ft	Roads: Add gravel. Keep dumpsters closed	Medium	Medium: \$500-\$2,500	Low: Property owner can accomplish with reference materials
12-23	96 Route 121	Otisfield	Directly into lake	Commercial	Surface Erosion-Sheet, Soil-Bare	15 x 30 ft	Vegetation: Reseed bare soil & thinning grass. Other: Mulch/Erosion Control Mix. Ensure spill kit is available for spills while filling	Low	Low: Less than \$500	Low: Property owner can accomplish with reference materials
12-24	95 Route 121	Otisfield	Ditch	Residential	Surface Erosion-Rill, Other- Artesian Well runoff	10 x 2 ft	Add stone to channel to prevent additional erosion	Low	Low: Less than \$500	Low: Property owner can accomplish with reference materials
13-01	Sargent Brook Crossing. Ditch across the road from 747 Gore Road	Otisfield	Directly into lake	Town Road	Culvert-Unstable inlet/outlet, Ditch-Gully Erosion, Ditch-Bank Failure	500 x 3 ft	Culvert: Armor Inlet/Outlet. Ditch: Armor with Stone, Install Sediment Pools, Reshape Ditch	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
13-02	Bonney Hill Road, Bridge # BR0237, just before Oxford town line	Otisfield	Minimal Vegetation	Town Road	Surface Erosion-Sheet, Road Shoulder Erosion-Sheet, Soil- Winter Sand	20 x 10 ft in two places	Culvert: Armor Inlet/Outlet. Roads: Remove Grader/Plow Berms. Looks like plow might be stopping by crossing because its near town line, pushing winter sand close to the stream. Very dusty every time car passes.  Ditching along road has turn outs but appears highly erodible, likely washes down road during heavy rain	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
14-01a	State Route 121 stream crossing near Cobb Hill	Otisfield	Stream	State Road	Surface Erosion-Sheet, Soil- Winter Sand, Shoreline-Erosion	N/A	Ditch: Vegetate. Roads: Vegetate Shoulder	Low	Low: Less than \$500	Medium: Technical person should visit site & make recommendations
14-01 <mark>b</mark>	Gerry Road, stream crossing	Otisfield	Stream	Private Road	Surface Erosion-Sheet, Ditch- Sheet Erosion, Shoreline- Undercut	N/A	N/A	Low	Low: Less than \$500	Low: Property owner can accomplish with reference materials

Sector & Site	Location	Town	Flow into lake via	Land use	Problems	Size of Area Exposed or Eroded	Recommendations	Impact Rating	Cost to Fix	Technical Level to Install
15-01	14 Thompson Lane	Otisfield	Minimal Vegetation	Residential	Surface Erosion-Sheet, Soil-Bare	30 x 50 ft	Construction Site: Mulch, Silt Fence/EC Berms, Seed/Hay. Vegetation: Establish Buffer, Add to Buffer, Reseed bare soil & thinning grass. Other: Mulch/Erosion Control Mix	Medium	Medium: \$500-\$2,500	Low: Property owner can accomplish with reference materials
15-02	Junction of Thompson Lane and Route 121, Across 2 Thompson Lane	Otisfield	Minimal Vegetation	State Road	Culvert-Unstable inlet/outlet, Culvert-Clogged, Soil-Winter Sand	100 x 20 ft	Culvert: Armor Inlet/Outlet, Remove Clog, Install Plunge Pool, Replace	Low	Medium: \$500-\$2,500	High: Site requires engineered design
15-03	102 State Route 121	Otisfield	Directly into lake	Residential	Surface Erosion-Sheet, Ditch- Bank Failure, Ditch-Undersized, Other-Septic	20 x 3 ft	Ditch: Vegetate, Armor with Stone, Install Ditch, Remove debris/sediment, Install Sediment Pools. Other: Rain Garden	High	High: Greater than \$2,500	High: Site requires engineered design
15-04	28 Elliot Road	Otisfield	Directly into lake	Driveway	Surface Erosion-Sheet, Soil-Bare	200 x 10 ft	Roads: Install Runoff Diverters-Broad-based Dip, Install Runoff Diverters- Open Top Culvert, Install Runoff Diverters-Rubber Razor, Install Runoff Diverters-Waterbar. Vegetation: Establish Buffer, No Raking. Other: Mulch/Erosion Control Mix	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
15-05	78 Elliot Road	Otisfield	Minimal Vegetation	Driveway	Surface Erosion-Gully	150 x 2 ft	Roads: Build Up, Add recycled asphalt, Add gravel, Reshape (Crown), Install Runoff Diverters-Rubber Razor, Install Runoff Diverters-Waterbar	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
16-01	120 Jillson Camp Road. Site on Jillson Road	Otisfield	Stream	Private Road	Culvert-Clogged, Culvert- Hanging Outlet, Culvert-Larger Drainage Issues, Culvert-Blown out, Culvert-Unstable inlet/outlet	20 x 75 ft	Culvert: Armor Inlet/Outlet, Remove Clog, Replace, Enlarge, Install Plunge Pool, Assess Drainage Area. Other: Water Retention Swales	High	High: Greater than \$2,500	High: Site requires engineered design
16-02	120 Jillson Camp Road	Otisfield	Minimal Vegetation	Residential	Culvert-Larger Drainage Issues, Culvert-Unstable inlet/outlet, Culvert-Clogged, Culvert-Too short/long, Culvert-Diameter too small	6 x 6 ft	Culvert: Armor Inlet/Outlet, Enlarge, Adjust Length, Remove Clog, Replace, Realign. Vegetation: Establish Buffer. Other: Rain Garden	Medium	High: Greater than \$2,500	High: Site requires engineered design
16-03	116 Jillson Camp Road	Otisfield	Minimal Vegetation	Driveway	Culvert-Clogged, Culvert- Unstable inlet/outlet, Culvert- Crushed Broken, Culvert-Too short/long, Culvert-Diameter too small, Culvert-Larger Drainage Issues, Culvert-Blown out, Ditch-Bank Failure	100 ft ditch x 5 ft average	Culvert: Armor Inlet/Outlet, Remove Clog, Replace, Enlarge, Install Plunge Pool, Assess Drainage Area. Ditch: Vegetate, Armor with Stone, Install Sediment Pools. Vegetation: Establish Buffer	Medium	High: Greater than \$2,500	High: Site requires engineered design
16-04	116 Jillson Camp Road	Otisfield	Minimal Vegetation	Residential	Surface Erosion-Rill, Shoreline- Lack of Shoreline Vegetation	50 x 1 ft	Vegetation: Establish Buffer, Reseed bare soil & thinning grass. Other: Install Runoff Diverter (waterbar), Rain Garden, Water Retention Swales. Deal with upstream issue, runoff not caused on site	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
16-05	98 Jillson Camp Road	Otisfield	Minimal Vegetation	Driveway	Culvert-Unstable inlet/outlet, Culvert-Clogged, Culvert- Diameter too small, Culvert- Larger Drainage Issues, Culvert- Blown out, Ditch-Bank Failure, Ditch-Gully Erosion, Road Shoulder Erosion-Gully	200 x 8 ft	Culvert: Enlarge, Realign, Assess Drainage Area. Ditch: Reshape Ditch, Install Check Dams. Roads: Install Runoff Diverters-Broad-based Dip, Install Runoff Diverters-Open Top Culvert, Install Runoff Diverters-Rubber Razor, Install Runoff Diverters-Waterbar, Add gravel, Build Up, Add recycled asphalt, Pave, Reshape (Crown). Riprap sandwich	High	High: Greater than \$2,500	High: Site requires engineered design

Sector & Site	Location	Town	Flow into lake via	Land use	Problems	Size of Area Exposed or Eroded	Recommendations	Impact Rating	Cost to Fix	Technical Level to Install
16-06	94 Jillson Camp Road	Otisfield	Stream	Driveway	Surface Erosion-Gully	150 x 5 ft	Roads: Add recycled asphalt, Pave. Deal with issue at 6-07, which is diverting runoff to driveway. Paving with buffer to cool runoff might be best bet since lots of tree cutting happened upstream	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
16-07	Culvert crossing on Jillson Road	Otisfield	Ditch	Private Road	Culvert-Clogged, Culvert-Blown out, Culvert-Larger Drainage Issues, Road Shoulder Erosion- Sheet	7 x 7 ft	Culvert: Remove Clog, Install Plunge Pool, Assess Drainage Area. Ditch: Reshape Ditch, Armor with Stone, Vegetate. Rock blocking Calvert causing runoff to be directed towards 2 driveways downhill.	Low	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
16-08	98 Jillson Camp Road, Jillson Road culvert crossing	Otisfield	Ditch	Private Road	Culvert-Clogged, Culvert-Too short/long, Culvert-Larger Drainage Issues	10 x 2 ft	Culvert: Install Plunge Pool, Assess Drainage Area, Enlarge. Ditch: Reshape Ditch, Vegetate	Low	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
16-09	Otisfield Cove Road ditching	Otisfield	Minimal Vegetation	Private Road	Ditch-Gully Erosion, Ditch-Bank Failure, Soil-Delta in Stream/Lake	400 x 6 ft	Ditch: Vegetate, Armor with Stone, Remove debris/sediment	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
17-01	24 Scribner Hill Road	Otisfield	Ditch	Town Road	Surface Erosion-Gully, Culvert- Clogged, Culvert-Too short/long, Culvert-Diameter too small, Ditch-Gully Erosion	40 x 6 ft	Culvert: Remove Clog, Replace, Enlarge, Adjust Length. Ditch: Reshape Ditch, Remove debris/sediment. Roads: Add gravel	Low	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
17-02	146 Scribner Hill Road	Otisfield	Ditch	Town Road	Surface Erosion-Gully, Culvert- Misaligned, Culvert-Too short/long, Culvert-Diameter too small, Ditch-Gully Erosion, Ditch-Bank Failure, Road Shoulder Erosion-Gully	20ft x 20 ft	Culvert: Replace, Enlarge, Realign, Adjust Length. Ditch: Reshape Ditch, Install Check Dams. Roads: Reshape (Crown)	Low	High: Greater than \$2,500	High: Site requires engineered design
17-03	299 Scribner Hill Road, Pole 49 32, site crosses the road	Otisfield	Ditch	Town Road	Surface Erosion-Gully, Culvert- Clogged, Culvert-Diameter too small, Ditch-Undersized, Road Shoulder Erosion-Sheet	20 x 20 ft	Culvert: Replace, Enlarge. Ditch: Install Ditch, Reshape Ditch	Low	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
17-04	299 Scribner Hill Road	Otisfield	Ditch	Town Road	Surface Erosion-Gully, Surface Erosion-Sheet, Ditch- Undersized, Ditch-Sheet Erosion, Ditch-Gully Erosion, Road Shoulder Erosion-Gully	6 ft wide by 1/4mile long	Culvert: Install Culvert. Ditch: Reshape Ditch, Install Check Dams, Remove debris/sediment. Other: Install Runoff Diverter (waterbar)	Low	High: Greater than \$2,500	High: Site requires engineered design
17-05	316 Scribner Hill Road	Otisfield	Ditch	Town Road	Surface Erosion-Sheet, Surface Erosion-Gully, Culvert-Clogged, Culvert-Diameter too small, Culvert-Larger Drainage Issues, Ditch-Sheet Erosion, Ditch-Rill Erosion, Ditch-Gully Erosion, Ditch-Bank Failure, Road Shoulder Erosion-Gully	40 x 40ft	Culvert: Enlarge, Remove Clog. Ditch: Armor with Stone, Reshape Ditch, Install Check Dams, Remove debris/sediment. Other: Install Runoff Diverter (waterbar)	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations

Sector & Site	Location	Town	Flow into lake via	Land use	Problems	Size of Area Exposed or Eroded	Recommendations	Impact Rating	Cost to Fix	Technical Level to Install
17-06	374 Scribner Hill Road, culvert crossing between houses 374 and 390	Otisfield	Ditch	Town Road	Surface Erosion-Gully, Culvert-Clogged, Culvert-Unstable inlet/outlet, Culvert-Too short/long, Culvert-Diameter too small, Culvert-Hanging Outlet, Ditch-Gully Erosion, Ditch-Bank Failure, Road Shoulder Erosion-Gully	6 x 6 ft	Culvert: Remove Clog, Replace, Enlarge, Adjust Length. Ditch: Remove debris/sediment	Low	High: Greater than \$2,500	Medium: Technical person should visit site & make recommendations
17-08	Pole 58, corner of Scribner Hill Road and Ivory Hill Road	Otisfield	Ditch	Town Road	Surface Erosion-Sheet, Surface Erosion-Gully, Culvert-Clogged, Culvert-Hanging Outlet, Culvert- Diameter too small, Culvert- Larger Drainage Issues, Ditch- Gully Erosion, Ditch-Bank Failure, Road Shoulder Erosion- Sheet, Road Shoulder Erosion- Gully	1/8 mile square	Culvert: Remove Clog, Replace, Enlarge, Install Plunge Pool, Assess Drainage Area. Ditch: Armor with Stone, Reshape Ditch, Remove debris/sediment	Medium	High: Greater than \$2,500	High: Site requires engineered design
17-09	Pole 016, Scribner Hill Road	Otisfield	Stream	Town Road	Surface Erosion-Gully, Culvert- Unstable inlet/outlet, Culvert- Misaligned, Culvert-Too short/long, Culvert-Hanging Outlet, Culvert-Diameter too small, Culvert-Blown out, Ditch- Bank Failure, Ditch-Gully Erosion, Road Shoulder Erosion- Sheet	30 x 30 ft	Culvert: Armor Inlet/Outlet, Replace, Enlarge, Realign, Adjust Length, Assess Drainage Area, Install Plunge Pool. Ditch: Armor with Stone, Remove debris/sediment. Roads: Reshape (Crown)	Medium	High: Greater than \$2,500	High: Site requires engineered design
17-10	Pole 126, Scribner Hill Road	Otisfield	Stream	Town Road	Surface Erosion-Sheet, Culvert- Clogged, Culvert-Crushed Broken, Culvert-Hanging Outlet, Culvert-Diameter too small, Ditch-Sheet Erosion, Ditch-Bank Failure, Road Shoulder Erosion- Sheet, Soil-Winter Sand	40 x 40 ft	Culvert: Remove Clog, Replace, Enlarge. Ditch: Remove debris/sediment	Low	High: Greater than \$2,500	High: Site requires engineered design
17-11	352 Route 121 Otisfield	Otisfield	Ditch	State Road	Surface Erosion-Sheet, Culvert- Clogged, Culvert-Larger Drainage Issues, Ditch-Sheet Erosion, Road Shoulder Erosion- Sheet, Soil-Winter Sand	10 x 40 ft	Culvert: Remove Clog, Assess Drainage Area. Ditch: Vegetate, Armor with Stone, Install Ditch, Install Check Dams, Remove debris/sediment. Roads: Vegetate Shoulder. Unclear where the culvert out fall is. Need to assess grate.	Low	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
17-12	37 Cobb Hill Road	Otisfield	Stream	Town Road	Surface Erosion-Sheet, Surface Erosion-Gully, Culvert-Too short/long, Culvert-Hanging Outlet, Culvert-Diameter too small, Road Shoulder Erosion- Sheet, Road Shoulder Erosion- Gully	10 x 10 ft	Culvert: Replace, Enlarge	Medium	High: Greater than \$2,500	High: Site requires engineered design

Sector & Site	Location	Town	Flow into lake via	Land use	Problems	Size of Area Exposed or Eroded	Recommendations	Impact Rating	Cost to Fix	Technical Level to Install
17-13	53 Cobb Hill Road	Otisfield	Stream	Town Road	Surface Erosion-Gully, Culvert- Misaligned, Culvert-Larger Drainage Issues, Ditch-Sheet Erosion, Road Shoulder Erosion- Gully	10 x 10 ft	Culvert: Armor Inlet/Outlet, Install Plunge Pool, Assess Drainage Area. Roads: Add gravel, Build Up	Low	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
18-01	112 Ohuivo Camp Road	Otisfield	Directly into lake	Residential	Surface Erosion-Rill, Soil-Bare, Shoreline-Erosion, Other- Runoff from driveway is flowing under camp and pathway to lake. Sand collecting both sides of camp.	30x50 ft (not continuous)	Roads: Install Runoff Diverters-Rubber Razor. Paths: Infiltration Steps, Install Runoff Diverter (waterbar). Vegetation: Add to Buffer	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
18-02	10 Franks Lane / 108 Ohuivo Camp Road	Otisfield	Directly into lake	Residential	Surface Erosion-Sheet, Soil-Bare	30 x 50 ft	Roads: Install Runoff Diverters-Rubber Razor. Paths: Install Runoff Diverter (waterbar). Vegetation: Add to Buffer. Rubber razor needs rehab or to be replaced with water bar	Medium	Low: Less than \$500	Low: Property owner can accomplish with reference materials
18-03	108 Ohuivo Camp Road	Otisfield	Directly into lake	Driveway	Surface Erosion-Rill, Road Shoulder Erosion-Rill, Soil-Bare, Other-Rubber razors on driveway failing and too small for flow	100 x 10 ft	Roads: Add gravel, Reshape (Crown), Install Runoff Diverters-Open Top Culvert, Install Runoff Diverters-Waterbar	High	High: Greater than \$2,500	High: Site requires engineered design
18-04	Ohuivo Camp Road between 88 and 108 driveway	Otisfield	Directly into lake	Private Road	Surface Erosion-Gully, Culvert- Unstable inlet/outlet, Culvert- Hanging Outlet, Culvert- Diameter too small, Culvert- Larger Drainage Issues, Ditch- Gully Erosion, Ditch-Bank Failure, Soil-Bare	>100 ft	Culvert: Armor Inlet/Outlet, Install Plunge Pool, Assess Drainage Area, Enlarge. Other: Install Runoff Diverter (waterbar), Rip Rap	High	High: Greater than \$2,500	High: Site requires engineered design
18-05	Culvert near 355 Cobb Hill Road	Otisfield	Directly into lake	Town Road	Surface Erosion-Gully, Culvert- Unstable inlet/outlet, Culvert- Hanging Outlet, Culvert- Diameter too small, Culvert- Larger Drainage Issues, Culvert- Misaligned, Ditch-Gully Erosion, Ditch-Undersized, Road Shoulder Erosion-Rill, Soil-Bare, Soil-Winter Sand, Shoreline- Erosion, Roadside Plow/Grader Berm	Too big to measure	Culvert: Armor Inlet/Outlet, Replace, Enlarge, Realign, Install Plunge Pool, Assess Drainage Area. Ditch: Vegetate, Armor with Stone, Reshape Ditch, Install Turnouts, Install Check Dams, Remove debris/sediment, Install Sediment Pools. Roads: Remove Grader/Plow Berms, Add gravel, Install Runoff Diverters-Broad-based Dip, Install Runoff Diverters-Waterbar. Erosion from Cobb Hill to 10 Franks Lane. Takes water via ditching from Ivory Hill Rd. Very large drainage area for 2 small culverts.	High	High: Greater than \$2,500	High: Site requires engineered design
18-06	68 Ohuivo Camp Road	Otisfield	Stream	Residential	Surface Erosion-Gully, Shoreline- Undercut, Shoreline-Lack of Shoreline Vegetation, Shoreline- Erosion	20 x 5 ft	Vegetation: Establish Buffer. Other: Rip Rap. Stabilize bank in stream/drainage channel	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
18-07	Culvert at Ohuivo Camp Road uphill from #68	Otisfield	Stream	Private Road	Surface Erosion-Gully, Culvert- Unstable inlet/outlet, Culvert- Misaligned, Culvert-Too short/long, Culvert-Hanging Outlet, Culvert-Diameter too small, Culvert-Larger Drainage Issues, Ditch-Gully Erosion	100 ft long	Culvert: Armor Inlet/Outlet, Enlarge, Realign, Adjust Length, Install Plunge Pool, Assess Drainage Area. Ditch: Armor with Stone, Install Turnouts, Install Check Dams, Remove debris/sediment, Install Sediment Pools. Runoff from Ohuivo Camp Rd managed uphill with ditches and turnouts but significant erosion in drainage channel. Results in high flow and washouts at 18-06	Medium	High: Greater than \$2,500	High: Site requires engineered design

Sector & Site	Location	Town	Flow into lake via	Land use	Problems	Size of Area Exposed or Eroded	Recommendations	Impact Rating	Cost to Fix	Technical Level to Install
18-08	70 Ohuivo Camp Road	Otisfield	Directly into lake	Residential	Surface Erosion-Rill, Ditch-Rill Erosion, Soil-Bare	2 x 50 ft	Ditch: Armor with Stone, Install Turnouts. Upper portion riprap, lower is not and is eroding	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
18-09	74 Ohuivo Camp Road	Otisfield	Directly into lake	Residential	Surface Erosion-Sheet	50 x 50 ft	Paths: Define Foot Path. Vegetation: Establish Buffer, Reseed bare soil & thinning grass	Low	Low: Less than \$500	Low: Property owner can accomplish with reference materials
18-10	32 Loafers Lane	Otisfield	Ditch	Residential	Surface Erosion-Gully, Shoreline- Erosion	60 ft x 2 ft	Ditch: Armor with Stone, Install Check Dams, Remove debris/sediment	High	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
18-11	74 Ohuivo Road	Otisfield	Directly into lake	Driveway	Surface Erosion-Gully, Culvert- Unstable inlet/outlet, Culvert- Hanging Outlet, Culvert- Diameter too small, Culvert- Larger Drainage Issues	10 x 10 ft plus site 18- 10	Culvert: Armor Inlet/Outlet, Enlarge, Install Plunge Pool. Ditch: Armor with Stone	High	High: Greater than \$2,500	Medium: Technical person should visit site & make recommendations
18-12	32 Loafers Lane	Otisfield	Ditch	Residential	Surface Erosion-Gully, Ditch- Gully Erosion, Shoreline-Erosion	100 ft x 2 ft	Ditch: Armor with Stone, Reshape Ditch, Install Check Dams, Remove debris/sediment	High	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
18-13	32 Loafers Lane	Otisfield	Directly into lake	Residential	Surface Erosion-Sheet, Soil-Bare, Shoreline-Erosion	10 x 30 ft	Paths: Define Foot Path. Roof: Rain Barrel. Vegetation: Establish Buffer, Reseed bare soil & thinning grass. Other: Mulch/Erosion Control Mix. Add topsoil and seed with shade plants	Low	Medium: \$500-\$2,500	Low: Property owner can accomplish with reference materials
18-14	Ohuivo Camp Road between Loafers Lane and 74 Ohuivo Camp Road	Otisfield	Ditch	Private Road	Surface Erosion-Rill, Culvert- Unstable inlet/outlet, Culvert- Diameter too small, Culvert- Larger Drainage Issues, Ditch- Gully Erosion	10 x 10 ft	Culvert: Armor Inlet/Outlet, Enlarge, Install Plunge Pool. Ditch: Armor with Stone, Install Check Dams, Remove debris/sediment	High	High: Greater than \$2,500	High: Site requires engineered design
18-15	88 Ohuivo Camp Road	Otisfield	Directly into lake	Residential	Surface Erosion-Rill, Ditch-Rill Erosion, Soil-Bare	50 x 2 ft and 10 x 2 ft	Ditch: Install Turnouts, Install Check Dams, Install Ditch, Vegetate. Other: Install Runoff Diverter (waterbar), Rain Garden, Infiltration Trench	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
18-16	Culvert between U07- 007 & 007-08, Ohuivo Camp Road	Otisfield	Ditch	Private Road	Culvert-Unstable inlet/outlet, Culvert-Diameter too small, Culvert-Larger Drainage Issues	10 x 10 ft	Culvert: Armor Inlet/Outlet, Enlarge, Install Plunge Pool, Assess Drainage Area. Runoff from upslope too much for culvert size	High	High: Greater than \$2,500	High: Site requires engineered design
18-17	22 Beehive Lane	Otisfield	Minimal Vegetation	Residential	Surface Erosion-Sheet, Soil-Bare, Shoreline-Inadequate Shoreline Vegetation	10 x 10 ft	Paths: Define Foot Path. Roof: Infiltration Trench @ roof dripline.  Vegetation: Add to Buffer, No Raking, Reseed bare soil & thinning grass.  Other: Install Runoff Diverter (waterbar)	Low	Medium: \$500-\$2,500	Low: Property owner can accomplish with reference materials
18-18	16 Beehive Lane	Otisfield	Directly into lake	Private Road	Surface Erosion-Rill, Culvert- Larger Drainage Issues	2 x 5 ft	Ditch: Install Turnouts, Install Ditch. Roads: Add gravel, Reshape (Crown), Install Runoff Diverters-Open Top Culvert. Other: Rain Garden, Infiltration Trench	Medium	High: Greater than \$2,500	High: Site requires engineered design
18-19	16 Beehive Lane	Otisfield	Directly into lake	Residential	Surface Erosion-Sheet, Culvert- Larger Drainage Issues	50 x 2 ft	N/A	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations

Sector & Site	Location	Town	Flow into lake via	Land use	Problems	Size of Area Exposed or Eroded	Recommendations	Impact Rating	Cost to Fix	Technical Level to Install
18-20	16 Beehive Lane	Otisfield	Directly into lake	Residential	Surface Erosion-Sheet, Soil-Bare	60 x 2 ft	Paths: Stabilize Foot Path, Infiltration Steps, Install Runoff Diverter (waterbar). Other: Septic Inspection. Still has outhouse	Low	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
18-21	46 Beehive Lane	Otisfield	Directly into lake	Residential	Surface Erosion-Gully, Culvert- Unstable inlet/outlet, Culvert- Diameter too small, Culvert- Larger Drainage Issues, Ditch- Gully Erosion, Road Shoulder Erosion-Gully, Soil-Bare, Shoreline-Inadequate Shoreline Vegetation, Shoreline-Erosion	100 x 10 ft	Culvert: Replace, Enlarge, Realign, Install Plunge Pool, Assess Drainage Area. Ditch: Armor with Stone, Install Turnouts, Install Check Dams, Install Sediment Pools, Remove debris/sediment. Roads: Add gravel, Reshape (Crown), Install Detention Basin, Install Runoff Diverters-Open Top Culvert. Construction Site: Mulch, Silt Fence/EC Berms, Seed/Hay, Check Dams. Paths: Define Foot Path, Stabilize Foot Path. Vegetation: Establish Buffer, Add to Buffer, No Raking, Reseed bare soil & thinning grass. Other: Water Retention Swales, Infiltration Trench	High	High: Greater than \$2,500	High: Site requires engineered design
19-01	Shore Road, CMP Pole 18, Mt Co 1251/15	Otisfield	Ditch	Town Road	Surface Erosion-Gully, Culvert- Clogged, Culvert-Too short/long, Culvert-Unstable inlet/outlet, Road Shoulder Erosion-Rill, Roadside Plow/Grader Berm	20 x 35 ft	Culvert: Armor Inlet/Outlet, Remove Clog, Install Plunge Pool	High	High: Greater than \$2,500	Medium: Technical person should visit site & make recommendations
19-02	Just below entrance to driveway to #146 Shore Road	Otisfield	Ditch	Town Road	Road Shoulder Erosion-Rill, Roadside Plow/Grader Berm	200 x 4 ft	Culvert: Install Culvert. Ditch: Install Ditch, Install Check Dams. Roads: Remove Grader/Plow Berms. Install culvert under driveway for #146	High	High: Greater than \$2,500	Medium: Technical person should visit site & make recommendations
19-03	19 Park Way	Otisfield	Minimal Vegetation	Residential	Surface Erosion-Sheet, Soil-Bare	12 x 4 ft	Vegetation: Establish Buffer. Other: Infiltration Trench. Needs some stabilization between new concrete pad and lake.	Low	Low: Less than \$500	Low: Property owner can accomplish with reference materials
20-01	65 Shore Road	Otisfield	Directly into lake	Trail or Path	Surface Erosion-Sheet	3 x 10 ft	Paths: Install Runoff Diverter (waterbar), Infiltration Steps. Dig out behind existing steps and fill with crushed stone.	Low	High: Greater than \$2,500	Low: Property owner can accomplish with reference materials
20-02	63 Shore Road	Otisfield	Directly into lake	Residential	Surface Erosion-Sheet, Surface Erosion-Rill	70 x 20 ft	Paths: Infiltration Steps. Other: Install Runoff Diverter (waterbar). Site is taking runoff from the driveway and the road, fixing the road would likely greatly improve this site. There is also a pile of road material on the site that should be covered or removed. Runoff is making it through the buffer to the lake.	Low	High: Greater than \$2,500	Medium: Technical person should visit site & make recommendations
20-03	CMP Pole #8, Near 63 & 65 Shore Road	Otisfield	Directly into lake	Town Road	Road Shoulder Erosion-Gully	150 x 8 ft	Roads: Reshape (Crown). Checked off reshape but should not be crowned should be pitched to ditch on upland side of road. Current shape is causing significant runoff to driveways of 63 & 65 Shore Rd and some to the pathway at 59 Shore Rd.	High	High: Greater than \$2,500	High: Site requires engineered design
20-04	59 Shore Road	Otisfield	Directly into lake	Residential	Surface Erosion-Sheet, Soil-Bare, Shoreline-Lack of Shoreline Vegetation	60 x 25 ft at lake, 12 x 35 ft under deck	Paths: Infiltration Steps. Roof: Infiltration Trench @ roof dripline.  Vegetation: Establish Buffer. Other: Mulch/Erosion Control Mix, Infiltration  Trench. Infiltration needed under deck.	Medium	High: Greater than \$2,500	Medium: Technical person should visit site & make recommendations
20-05	Intersection of Silvaqua Road & Shore Road	Otisfield	Minimal Vegetation	Town Road	Culvert-Unstable inlet/outlet, Road Shoulder Erosion-Gully	100x25′	Culvert: Armor Inlet/Outlet, Install Plunge Pool, Assess Drainage Area. Water from culvert makes it through buffer to lake.	High	High: Greater than \$2,500	High: Site requires engineered design
20-06	Shore Road, CMP Pole #6	Otisfield	Directly into lake	Town Road	Culvert-Hanging Outlet, Culvert- Larger Drainage Issues	300 x 15ft through woods	Culvert: Assess Drainage Area. Culvert taking water from multiple inputs. Erosion occurring through woods all the way to the lake. Uphill drainage and ditches need to be assessed.	High	High: Greater than \$2,500	High: Site requires engineered design

Sector & Site	Location	Town	Flow into lake via	Land use	Problems	Size of Area Exposed or Eroded	Recommendations	Impact Rating	Cost to Fix	Technical Level to Install
20-30	83 Loop Road, Otisfield	Otisfield	Directly into lake	Residential	Surface Erosion-Gully	1 ft x 50 ft	Paths: Define Foot Path, Stabilize Foot Path, Infiltration Steps, Install Runoff Diverter (waterbar). Address driveway runoff first	Low	Medium: \$500-\$2,500	Low: Property owner can accomplish with reference materials
20-31	Intersection of Williams and Loop Road	Otisfield	Stream	Private Road	Surface Erosion-Gully, Ditch- Gully Erosion, Ditch-Bank Failure	100 ft x 3 ft	Ditch: Remove debris/sediment, Install Turnouts, Install Sediment Pools	High	High: Greater than \$2,500	High: Site requires engineered design
20-32	Just north of 73 Loop Road	Otisfield	Directly into lake	Private Road	Surface Erosion-Gully, Road Shoulder Erosion-Gully	200 ft x 2 ft	Ditch: Install Turnouts. Roads: Build Up, Remove Grader/Plow Berms	Low	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
20-33	404 Forrest Edwards Road, Otisfield	Otisfield	Directly into lake	Residential	Shoreline-Undercut, Shoreline- Erosion	50 ft x 10 ft	Dam control of lake level needed.	High	Low: Less than \$500	Low: Property owner can accomplish with reference materials
21-01	105 Moosewa Trail	Otisfield	Directly into lake	Trail or Path	Surface Erosion-Sheet	8' x 50'	Paths: Infiltration Steps, Install Runoff Diverter (waterbar), Stabilize Foot Path, Erosion Control Mulch. Vegetation: Add to Buffer	Low	Medium: \$500-\$2,500	Low: Property owner can accomplish with reference materials
21-02	Nappi Lane (Boat Dock), CMP Pole 1	Otisfield	Directly into lake	Boat Access	Surface Erosion-Gully, Culvert- Larger Drainage Issues, Culvert- Too short/long, Road Shoulder Erosion-Gully	30′ x 100′	Culvert: Replace. Paths: Infiltration Steps, Install Runoff Diverter (waterbar), Erosion Control Mulch. Path used to access boats.	High	High: Greater than \$2,500	Medium: Technical person should visit site & make recommendations
21-03	87 Moosewa Trail	Otisfield	Directly into lake	Residential	Surface Erosion-Rill, Roof Runoff Erosion	4' x 50'	Paths: Install Runoff Diverter (waterbar). Roof: Infiltration Trench @ roof dripline. Vegetation: Add to Buffer	Medium	Medium: \$500-\$2,500	Low: Property owner can accomplish with reference materials
21-04	Moosewa Trail, Stream by Box 74	Otisfield	Stream	Private Road	Surface Erosion-Sheet, Culvert- Unstable inlet/outlet, Culvert- Clogged, Culvert-Too short/long, Culvert-Diameter too small, Road Shoulder Erosion-Sheet	3′ x 15′	Culvert: Remove Clog, Armor Inlet/Outlet, Enlarge, Adjust Length	Low	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
21-05	74 Moosewa Trail	Otisfield	Stream	Driveway	Surface Erosion-Gully	12' x 100'	Roads: Reshape (Crown). Other: Install Runoff Diverter (waterbar)	High	High: Greater than \$2,500	Medium: Technical person should visit site & make recommendations
21-06	Wacipi Pines Community Beach	Otisfield	Directly into lake	Beach Access	Surface Erosion-Sheet, Shoreline-Lack of Shoreline Vegetation	15' x 20' (x2)	Vegetation: Establish Buffer, Reseed bare soil & thinning grass	Medium	Medium: \$500-\$2,500	Low: Property owner can accomplish with reference materials
21-08	Next to beach on west side, 7 Milky Way	Otisfield	Directly into lake	Trail or Path	Surface Erosion-Gully, Ditch- Gully Erosion	3' x 50'	Paths: Infiltration Steps, Install Runoff Diverter (waterbar), Erosion Control Mulch	High	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
21-09	64 Wayaka Lane	Otisfield	Directly into lake	Residential	Surface Erosion-Rill, Shoreline- Lack of Shoreline Vegetation, Shoreline-Inadequate Shoreline Vegetation, Shoreline-Unstable Access	30' x 35'	Ditch: Vegetate. Vegetation: Establish Buffer, Add to Buffer, Reseed bare soil & thinning grass. Reduce size of campfire area	Medium	Medium: \$500-\$2,500	Low: Property owner can accomplish with reference materials

Sector & Site	Location	Town	Flow into lake via	Land use	Problems	Size of Area Exposed or Eroded	Recommendations	Impact Rating	Cost to Fix	Technical Level to Install
21-10	70 Wayaka Lane	Otisfield	Directly into lake	Driveway	Surface Erosion-Sheet, Roof Runoff Erosion	12' x 80'	Roads: Reshape (Crown), Install Runoff Diverters-Waterbar, Install Runoff Diverters-Rubber Razor. Roof: Infiltration Trench @ roof dripline	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
21-11	104 Wayaka Lane	Otisfield	Directly into lake	Residential	Surface Erosion-Gully, Shoreline- Erosion	2' x 10'	Vegetation: Establish Buffer, Reseed bare soil & thinning grass, Add to Buffer. Other: Mulch/Erosion Control Mix. I	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
21-30	Wayaka Lane, Utility Pole 125A and 15A	Otisfield	Minimal Vegetation	Private Road	Culvert-Clogged	Clogged 50% of culvert	Culvert: Remove Clog	Low	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
21-31	Road between 118 and 119 Wayaka Lane	Otisfield	Ditch	Private Road	Surface Erosion-Rill, Ditch-Rill Erosion, Ditch-Sheet Erosion	100 x 3 ft	Ditch: Reshape Ditch, Remove debris/sediment, Armor with Stone, Vegetate. Roads: Remove Grader/Plow Berms, Build Up, Reshape (Crown)	Low	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
21-32	134 Wayaka Lane	Otisfield	Directly into lake	Driveway	Surface Erosion-Rill, Surface Erosion-Gully, Soil-Bare	100 x 4 ft	Roads: Build Up, Add gravel, Install Runoff Diverters-Broad-based Dip, Install Runoff Diverters-Open Top Culvert, Install Runoff Diverters-Rubber Razor, Install Runoff Diverters-Waterbar. Paths: Erosion Control Mulch. Other: Install Runoff Diverter (waterbar), Mulch/Erosion Control Mix. Switch out logs for runoff diverters. Assess larger drainage area flowing to this site from Danmar lane and site 21-33	High	High: Greater than \$2,500	Medium: Technical person should visit site & make recommendations
21-33	Across the street from 128 Wayaka Lane	Otisfield	Minimal Vegetation	Residential	Surface Erosion-Gully, Soil-Bare	80 x 2 ft	Construction Site: Mulch, Silt Fence/EC Berms, Seed/Hay, Check Dams.  Vegetation: Reseed bare soil & thinning grass. Looks like it could be a construction site but left abandoned. Cleared 4 years ago and retaining but left bare.	High	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
22-01	49 Upper Shore Drive	Casco	Directly into lake	Boat Access	Surface Erosion-Sheet, Soil-Bare, Shoreline-Inadequate Shoreline Vegetation	30′ x 35′	Vegetation: Add to Buffer, Reseed bare soil & thinning grass	Low	Low: Less than \$500	Low: Property owner can accomplish with reference materials
22-02	21 Upper Shore Drive	Casco	Directly into lake	Residential	Surface Erosion-Gully	30' x 35'	Ditch: Vegetate. Construction Site: Mulch, Seed/Hay. Vegetation: Add to Buffer, Reseed bare soil & thinning grass. Other: Mulch/Erosion Control Mix. Cover bare areas	Medium	Low: Less than \$500	Low: Property owner can accomplish with reference materials
22-03	240 Thompson Lake Shores Road	Casco	Directly into lake	Residential	Surface Erosion-Rill, Other, Extend water bar. Define path.	5' x 70'	Paths: Define Foot Path, Infiltration Steps, Install Runoff Diverter (waterbar). Vegetation: Add to Buffer. Other: Mulch/Erosion Control Mix	Medium	Medium: \$500-\$2,500	Low: Property owner can accomplish with reference materials
22-04	246 Thompson Lake Shores Road	Casco	Directly into lake	Residential	Surface Erosion-Gully, Roof Runoff Erosion	5' x 100'	Paths: Install Runoff Diverter (waterbar), Infiltration Steps. Roof: Infiltration Trench @ roof dripline. Extend water bar at base of driveway.	High	Medium: \$500-\$2,500	Low: Property owner can accomplish with reference materials
22-05	Gateway between mailboxes 137 and 120 Thompson Lake Shores Road	Casco	Stream	Private Road	N/A	3' x 16'	Culvert: Armor Inlet/Outlet	Low	Medium: \$500-\$2,500	Low: Property owner can accomplish with reference materials

Sector & Site	Location	Town	Flow into lake via	Land use	Problems	Size of Area Exposed or Eroded	Recommendations	Impact Rating	Cost to Fix	Technical Level to Install
22-06	First culvert crossing after intersection of Highland Shores Road and George Hannon Road	Casco	Stream	Private Road	Surface Erosion-Rill, Culvert- Unstable inlet/outlet, Culvert- Clogged, Culvert-Diameter too small, Soil-Delta in Stream/Lake	5' x 16'	Culvert: Armor Inlet/Outlet, Remove Clog, Enlarge, Assess Drainage Area. Create and armor ditches uphill from stream to keep sediment out of stream.	Medium	High: Greater than \$2,500	High: Site requires engineered design
23-01	65 Cottage Road	Casco	Directly into lake	Residential	Surface Erosion-Rill, Roof Runoff Erosion	15 by 30 ft	Roof: Rain Barrel, Infiltration Trench @ roof dripline	Medium	Low: Less than \$500	Low: Property owner can accomplish with reference materials
23-02	57 Cottage Road	Casco	Directly into lake	Residential	Surface Erosion-Rill, Ditch-Gully Erosion, Soil-Bare, Shoreline- Lack of Shoreline Vegetation	200 by 50 ft	Construction Site: Mulch, Silt Fence/EC Berms. Roof: Infiltration Trench @ roof dripline. Other: Mulch/Erosion Control Mix	High	Medium: \$500-\$2,500	High: Site requires engineered design
23-04	39 Cottage Road	Casco	Directly into lake	Residential	Surface Erosion-Gully, Ditch- Gully Erosion	70 by 10 ft	Paths: Erosion Control Mulch	High	Low: Less than \$500	Low: Property owner can accomplish with reference materials
23-05	Beach Road, private beach	Casco	Minimal Vegetation	Other: Private Beach	Surface Erosion-Gully, Ditch- Gully Erosion	300 by 10 ft	Ditch: Vegetate. Paths: Erosion Control Mulch. Other: Install Runoff Diverter (waterbar)	High	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
23-06a	167 Azwelikit Road	Casco	Directly into lake	Residential	Surface Erosion-Gully, Ditch- Gully Erosion, Roof Runoff Erosion, Other-Roof runoff onto pavement and directly into stream.	150 by 75 ft	Ditch: Vegetate, Reshape Ditch. Paths: Infiltration Steps. Roof: Rain Barrel. Other: Water Retention Swales	High	Medium: \$500-\$2,500	High: Site requires engineered design
23-06 <mark>b</mark>	20 East Beach Road	Casco	Directly into lake	Residential	Surface Erosion-Gully, Ditch- Gully Erosion, Soil-Bare, Shoreline-Lack of Shoreline Vegetation, Shoreline-Erosion, Roof Runoff Erosion	200 by 100 ft	Paths: Erosion Control Mulch, Install Runoff Diverter (waterbar). Roof: Infiltration Trench @ roof dripline, Rain Barrel	High	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
23-07	187 Azwelikit Road	Casco	Directly into lake	Residential	Surface Erosion-Sheet, Ditch- Sheet Erosion, Soil-Bare, Shoreline-Inadequate Shoreline Vegetation, Roof Runoff Erosion	100 by 75 ft	Ditch: Vegetate, Install Turnouts. Construction Site: Mulch. Paths: Infiltration Steps, Install Runoff Diverter (waterbar). Roof: Rain Barrel	High	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
24-01 <mark>a</mark>	49 Parsons Point Road	Poland	Directly into lake	Residential	Surface Erosion-Rill, Roof Runoff Erosion	10 x 40 ft	Roof: Infiltration Trench @ roof dripline, Drywell @ gutter downspout, Rain Barrel	Low	Low: Less than \$500	Low: Property owner can accomplish with reference materials
24-01 <mark>b</mark>	339 Heath Road	Casco	Directly into lake	Residential	Surface Erosion-Sheet, Soil-Bare, Roof Runoff Erosion	40 x 40 ft	Roof: Infiltration Trench @ roof dripline, Drywell @ gutter downspout.  Vegetation: Add to Buffer	Low	Low: Less than \$500	Low: Property owner can accomplish with reference materials
24-02	42 Parsons Point Road	Casco	Directly into lake	Beach Access	Surface Erosion-Sheet, Road Shoulder Erosion-Sheet, Soil- Bare, Roof Runoff Erosion	500 x 50 ft	Roads: Build Up, Reshape (Crown). Paths: Define Foot Path, Install Runoff Diverter (waterbar), Erosion Control Mulch. Roof: Drywell @ gutter downspout. Install buffer by bird feeder	Low	Low: Less than \$500	Low: Property owner can accomplish with reference materials
24-03	38 Parsons Point Road	Casco	Directly into lake	Residential	Surface Erosion-Gully, Soil-Bare, Roof Runoff Erosion	80 x 40 ft	Ditch: Reshape Ditch. Roads: Reshape (Crown). Paths: Install Runoff Diverter (waterbar), Erosion Control Mulch. Roof: Infiltration Trench @ roof dripline, Drywell @ gutter downspout. Vegetation: Add to Buffer. Other: Install Runoff Diverter (waterbar), Infiltration Trench, Water Retention Swales	High	High: Greater than \$2,500	Medium: Technical person should visit site & make recommendations

Sector & Site	Location	Town	Flow into lake via	Land use	Problems	Size of Area Exposed or Eroded	Recommendations	Impact Rating	Cost to Fix	Technical Level to Install
24-04	27 Parsons Point Road	Casco	Directly into lake	Residential	Soil-Bare, Roof Runoff Erosion	40 x 20 ft	Construction Site: Mulch. Roof: Infiltration Trench @ roof dripline, Drywell @ gutter downspout, Rain Barrel	Low	Low: Less than \$500	Low: Property owner can accomplish with reference materials
24-05	26 Parsons Point Road	Casco	Directly into lake	Residential	Surface Erosion-Rill, Soil-Bare, Roof Runoff Erosion	100 x 20 ft	Roof: Infiltration Trench @ roof dripline. Vegetation: Reseed bare soil & thinning grass. Other: Install Runoff Diverter (waterbar)	Medium	Low: Less than \$500	Low: Property owner can accomplish with reference materials
24-06	20 Parsons Point Road	Casco	Directly into lake	Residential	Surface Erosion-Sheet, Roof Runoff Erosion	20 x 40 ft	Roof: Infiltration Trench @ roof dripline. Vegetation: Add to Buffer	Low	Low: Less than \$500	Low: Property owner can accomplish with reference materials
24-07	8 Parsons Point Road	Casco	Directly into lake	Residential	Surface Erosion-Rill, Soil-Bare, Shoreline-Lack of Shoreline Vegetation, Roof Runoff Erosion	150 by 20 ft	Paths: Erosion Control Mulch. Roof: Rain Barrel. Vegetation: Establish Buffer. Other: Infiltration Trench.	Medium	Medium: \$500-\$2,500	High: Site requires engineered design
24-08	Parsons Point Road	Casco	Directly into lake	Private Road	Surface Erosion-Sheet, Ditch- Undersized, Road Shoulder Erosion-Rill, Soil-Winter Sand, Roadside Plow/Grader Berm	Entire road	Culvert: Install Culvert. Ditch: Install Ditch. Roads: Remove Grader/Plow Berms, Reshape (Crown), Vegetate Shoulder	Medium	High: Greater than \$2,500	Medium: Technical person should visit site & make recommendations
24-09	314 Heath Road	Casco	Directly into lake	Residential	Surface Erosion-Rill, Road Shoulder Erosion-Sheet, Soil- Bare, Roof Runoff Erosion	Entire parcel	Ditch: Install Ditch. Paths: Install Runoff Diverter (waterbar). Roof: Rain Barrel. Vegetation: Establish Buffer. Other: Mulch/Erosion Control Mix, Water Retention Swales	High	High: Greater than \$2,500	Medium: Technical person should visit site & make recommendations
24-10	310 Heath Road	Casco	Directly into lake	Residential	Surface Erosion-Rill, Road Shoulder Erosion-Sheet, Shoreline-Lack of Shoreline Vegetation, Roof Runoff Erosion	Entire property	Paths: Stabilize Foot Path. Roof: Infiltration Trench @ roof dripline, Drywell @ gutter downspout. Vegetation: Add to Buffer. Other: Mulch/Erosion Control Mix, Rain Garden, Install Runoff Diverter (waterbar)	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
24-11	Bass Lane	Casco	Minimal Vegetation	Private Road	Ditch-Bank Failure	40 x 150 ft	Ditch: Armor with Stone, Reshape Ditch. Roads: Reshape (Crown)	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
24-13	Stillwater Road	Casco	Directly into lake	Private Road	Culvert-Unstable inlet/outlet, Culvert-Clogged, Culvert-Too short/long, Culvert-Diameter too small, Culvert-Larger Drainage Issues, Culvert-Blown out, Culvert-Hanging Outlet, Ditch-Gully Erosion, Road Shoulder Erosion-Sheet	.25 miles	Culvert: Armor Inlet/Outlet, Remove Clog, Replace, Enlarge, Adjust Length, Install Plunge Pool, Assess Drainage Area. Ditch: Reshape Ditch, Install Check Dams, Remove debris/sediment, Install Sediment Pools	High	High: Greater than \$2,500	High: Site requires engineered design
24-14	127 Heath Road	Poland	Directly into lake	Residential	Surface Erosion-Sheet, Shoreline-Inadequate Shoreline Vegetation	50 x 20 ft	N/A	Low	Low: Less than \$500	Low: Property owner can accomplish with reference materials
24-15	121 Heath Road	Poland	Directly into lake	Residential	Shoreline-Lack of Shoreline Vegetation	10 x 40 ft	Ditch: Armor with Stone, Reshape Ditch. Vegetation: Add to Buffer	Low	High: Greater than \$2,500	High: Site requires engineered design
24-16	Agassiz Village Boat Ramp (71 Agassiz Village Lane)	Poland	Directly into lake	Other: Summer Camp	Ditch-Undersized, Road Shoulder Erosion-Gully, Other	300 x 40 ft	Ditch: Reshape Ditch, Install Turnouts, Install Ditch, Install Sediment Pools.  Roads: Install Runoff Diverters-Broad-based Dip. Install cold patch asphalt to direct flow of water through the gaps in the curbing and install level-lip spreaders to divert water into vegetative area. Stormwater at the end of the road needs treatment in at/near the beach area.	High	High: Greater than \$2,500	High: Site requires engineered design

Sector & Site	Location	Town	Flow into lake via	Land use	Problems	Size of Area Exposed or Eroded	Recommendations	Impact Rating	Cost to Fix	Technical Level to Install
25-01	Across from 37 Florence Lane	Poland	Directly into lake	Private Road	Ditch-Gully Erosion, Ditch-Bank Failure	1/2 mile	Ditch: Armor with Stone, Reshape Ditch, Install Check Dams, Install Sediment Pools	High	High: Greater than \$2,500	Medium: Technical person should visit site & make recommendations
25-02	139 Loon Point Lane	Poland	Directly into lake	Private Road	Culvert-Unstable inlet/outlet	8 x 8 ft	Culvert: Install Plunge Pool	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
25-03	End of Loon Point Lane, Below #160	Poland	Directly into lake	Private Road	Road Shoulder Erosion-Rill	50 x 30 ft	Roads: Vegetate Shoulder, Build Up, Add gravel, Install Detention Basin, Install Runoff Diverters-Waterbar	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
25-04	160 Loon Point Lane	Poland	Directly into lake	Driveway	Surface Erosion-Rill, Culvert- Clogged, Culvert-Diameter too small, Culvert-Unstable inlet/outlet	60 x 60 ft	Culvert: Armor Inlet/Outlet, Remove Clog, Enlarge, Install Plunge Pool. Roads: Remove Grader/Plow Berms. Construction Site: Silt Fence/EC Berms	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
25-05	117 Loon Point Lane	Poland	Directly into lake	Residential	Surface Erosion-Sheet, Soil-Bare	30 x 10 ft	Vegetation: Reseed bare soil & thinning grass, Establish Buffer, Add to Buffer. Looks like threw down grass seed. Should also have straw cover.	Medium	Low: Less than \$500	Low: Property owner can accomplish with reference materials
25-06	Across from 111 Loon Point Lane	Poland	Directly into lake	Private Road	Culvert-Unstable inlet/outlet, Culvert-Clogged	60 x 10 ft	Culvert: Armor Inlet/Outlet, Remove Clog, Install Plunge Pool	High	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
25-07	1 Loon Point Lane	Poland	Directly into lake	Residential	Surface Erosion-Sheet, Shoreline-Inadequate Shoreline Vegetation	60 x 60 ft	Paths: Infiltration Steps. Vegetation: Establish Buffer. Other: Install Runoff Diverter (waterbar)	Medium	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
25-08	37 Loon Point Lane	Poland	Directly into lake	Residential	Surface Erosion-Sheet	10 x 30 ft	Paths: Define Foot Path, Infiltration Steps, Install Runoff Diverter (waterbar)	Low	Medium: \$500-\$2,500	Medium: Technical person should visit site & make recommendations
25-09	83 Loon Point Lane	Poland	Directly into lake	Driveway	Culvert-Unstable inlet/outlet	10 x 10 ft	Culvert: Armor Inlet/Outlet	Medium	Low: Less than \$500	Low: Property owner can accomplish with reference materials
26-01	29 Willow Lane	Poland	Directly into lake	Driveway	Surface Erosion-Sheet	50 ft	Roads: Vegetate Shoulder. Vegetation: Establish Buffer. Other: Install Runoff Diverter (waterbar)	Medium	High: Greater than \$2,500	Medium: Technical person should visit site & make recommendations
26-02	29 Willow Lane	Poland	Directly into lake	Residential	Surface Erosion-Sheet, Soil-Bare, Soil-Winter Sand, Shoreline- Erosion, Shoreline-Undercut, Shoreline-Lack of Shoreline Vegetation, Shoreline- Inadequate Shoreline Vegetation, Roof Runoff Erosion	25 ft	Paths: Define Foot Path, Erosion Control Mulch. Roof: Infiltration Trench @ roof dripline, Drywell @ gutter downspout, Rain Barrel. Vegetation: Establish Buffer, Add to Buffer. Other: Rain Garden, Water Retention Swales	Low	Medium: \$500-\$2,500	Low: Property owner can accomplish with reference materials

Sector & Site	Location	Town	Flow into lake via	Land use	Problems	Size of Area Exposed or Eroded	Recommendations	Impact Rating	Cost to Fix	Technical Level to Install
26-03	Culvert near 23 Willow Lane	Poland	Directly into lake	Private Road	Culvert-Clogged, Culvert-Too short/long, Culvert-Crushed Broken, Ditch-Gully Erosion, Road Shoulder Erosion-Sheet, Road Shoulder Erosion-Rill	50 ft	Culvert: Armor Inlet/Outlet, Remove Clog, Adjust Length. Ditch: Vegetate, Armor with Stone, Remove debris/sediment, Install Check Dams. Roads: Install Runoff Diverters-Open Top Culvert. Rubber razor is torn up and possibly not placed in the best place	High	High: Greater than \$2,500	High: Site requires engineered design
26-04	Culvert on Johnson Hill Road - Utility Pole CMP #378	Poland	Stream	Town Road	Culvert-Too short/long, Culvert- Unstable inlet/outlet, Road Shoulder Erosion-Sheet, Road Shoulder Erosion-Rill	50 ft	Culvert: Armor Inlet/Outlet. Roads: Vegetate Shoulder	Medium	High: Greater than \$2,500	High: Site requires engineered design
26-05	Between 7 and 19 Willow Lane	Poland	Directly into lake	Private Road	Surface Erosion-Sheet, Surface Erosion-Rill, Ditch-Gully Erosion, Road Shoulder Erosion-Sheet, Road Shoulder Erosion-Rill, Road Shoulder Erosion-Gully, Roof Runoff Erosion	250 ft	Ditch: Install Turnouts. Roads: Remove Grader/Plow Berms, Reshape (Crown), Install Runoff Diverters-Waterbar, Install Runoff Diverters-Open Top Culvert. Replace torn up rubber razor with something that will work with plow	Medium	High: Greater than \$2,500	High: Site requires engineered design
26-06	Johnson Hill Road, CMP Pole #351	Poland	Stream	Town Road	Culvert-Diameter too small, Ditch-Bank Failure, Ditch-Sheet Erosion, Ditch-Rill Erosion, Road Shoulder Erosion-Sheet, Road Shoulder Erosion-Rill	100 ft	Culvert: Enlarge, Assess Drainage Area. Ditch: Reshape Ditch, Remove debris/sediment, Install Ditch. Other: Install Runoff Diverter (waterbar)	Medium	High: Greater than \$2,500	High: Site requires engineered design
26-07	Culvert on Ferry Acres Road near CMP Pole 364	Poland	Stream	Private Road	Culvert-Hanging Outlet, Culvert- Diameter too small, Culvert- Larger Drainage Issues, Culvert- Unstable inlet/outlet, Road Shoulder Erosion-Sheet, Road Shoulder Erosion-Rill	25 ft	Culvert: Armor Inlet/Outlet, Assess Drainage Area. Ditch: Vegetate, Install Sediment Pools, Remove debris/sediment. Roads: Vegetate Shoulder.  Remove sediment from stream	Medium	High: Greater than \$2,500	High: Site requires engineered design
26-08	Bakerstown Road, culvert near utility pole MTC #28	Poland	Stream	Town Road	Culvert-Crushed Broken, Culvert-Unstable inlet/outlet, Road Shoulder Erosion-Sheet, Road Shoulder Erosion-Rill	75 ft	Culvert: Armor Inlet/Outlet, Replace. Roads: Vegetate Shoulder, Install Catch Basin	Medium	High: Greater than \$2,500	High: Site requires engineered design
26-09	Culvert Near 937 Bakerstown Road	Poland	Stream	Town Road	Culvert-Unstable inlet/outlet, Road Shoulder Erosion-Sheet, Road Shoulder Erosion-Rill	25 ft	Culvert: Armor Inlet/Outlet. Ditch: Install Sediment Pools, Vegetate. Roads: Vegetate Shoulder	Medium	High: Greater than \$2,500	High: Site requires engineered design
26-10	Small pool on Edwards Road (Near 14 Edwards Road)	Poland	Ditch	Private Road	Surface Erosion-Sheet, Surface Erosion-Rill, Surface Erosion- Gully, Ditch-Gully Erosion, Road Shoulder Erosion-Gully, Roadside Plow/Grader Berm	75 ft	Ditch: Remove debris/sediment, Install Sediment Pools, Install Ditch, Install Turnouts. Roads: Remove Grader/Plow Berms, Reshape (Crown), Vegetate Shoulder	High	High: Greater than \$2,500	Medium: Technical person should visit site & make recommendations

## **THOMPSON LAKE**Watershed Survey Report



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