

Wetland Monitoring Strategy for Grand Portage (MN)

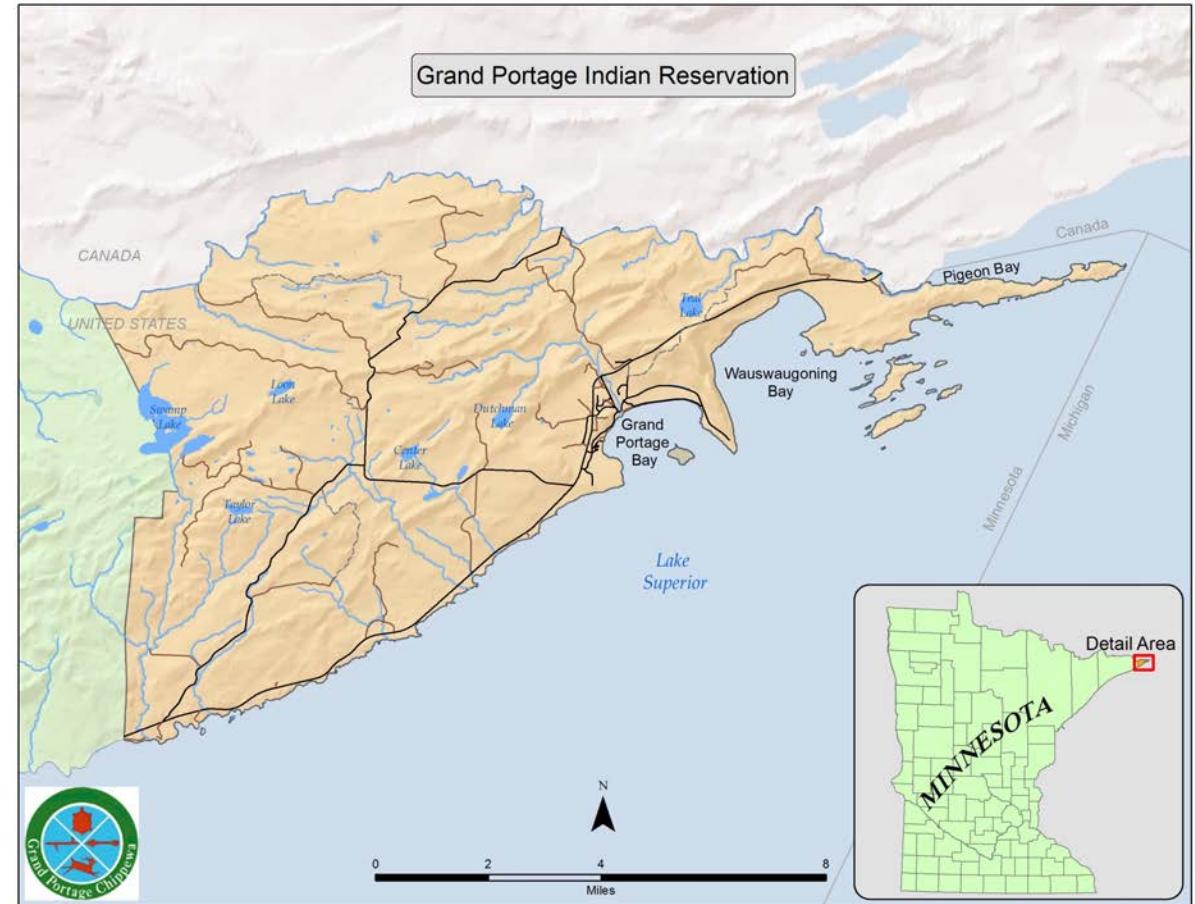


Laurel Wilson
Wetlands Specialist
Grand Portage Band of
Lake Superior Chippewa

Grand Portage Reservation

Surface Area of the Grand Portage Reservation	56,000 acres
Acres of Wetlands within the Reservation*	9,389 acres
Freshwater Forested Wetland	49%
Lake	17%
Freshwater Shrub Wetland	16%
Freshwater Emergent Wetland	10%
Riverine	6%
Freshwater Pond	2%

**Acreage and class cover calculated based on NWI*



Grand Portage Tribal Council



Wetlands Specialist

Our Process

- Reviewed current GP Water Monitoring Strategy
- Other examples
 - Ho-Chunk Nation Monitoring Strategy
- Decision to create a separate wetland monitoring strategy document
- Focus on Goals and Objectives



GP Wetland Monitoring Goals & Objectives

- **Goal 1.** To determine the total wetland acreage or wetland quantity in Grand Portage.
 - Objective 1.1. To review and verify available wetland mapping data.
 - Objective 1.2. To develop a mapping system for tracking and updating wetland data.
- **Goal 2.** To determine wetland quality in Grand Portage.
 - Objective 2.1. To determine priority wetlands for monitoring based on wetland function and mapped critical habitat.
 - Objective 2.2. To establish baseline wetland conditions in priority wetlands based on selected core indicators.
 - Objective 2.3. To determine reference conditions for all wetland types.
- **Goal 3.** To ensure that wetland monitoring methods and results fit into a broader strategy within the tribe, region and state when relevant.
 - Objective 3.1. To collaborate with the Grand Portage Water Quality program and other programs within the Environmental Department.
 - Objective 3.2. To coordinate with tribal, regional and state partners (1854 Treaty Authority, US Forest Service, and Minnesota Pollution Control Agency and Minnesota Department of Natural Resources, etc.).

Monitoring Strategy Outline

- Introduction
- Monitoring Goals & Objectives
- Monitoring Design
 - Current Efforts
 - Future Efforts (Timeline)
- Core & Supplemental Quality Indicators
- Quality Assurance (QAPP reference)
- Data Management
- Additional Sections – Data Analysis and Assessment, Reporting, Programmatic Evaluation, General Support and Infrastructure



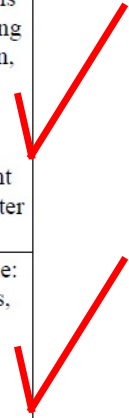
Wetland Program Plan vs. Monitoring Strategy

From EPA Core Elements Framework...

Monitoring and Assessment Core Element

Objective 1 – Develop a monitoring and assessment strategy that states and tribes can use to manage wetlands according to their objectives.

Actions [†]	Menu of Activities [†]
<p>a. Monitoring Strategy: Identify program decisions and long-term environmental outcome(s) that will benefit from a wetland monitoring and assessment program (i.e. develop a wetlands monitoring strategy)</p>	<ul style="list-style-type: none"> • Document program’s long-term environmental goals • Identify programs that will ultimately use monitoring data, e.g. track trends, 401 certifications, restoration, permitting • Collaborate with water quality programs in a state/tribe • Identify how wetland data can be used to implement watershed planning and integrated into existing water quality monitoring efforts.
<p>b. Monitoring Objectives: Define wetlands monitoring objectives and goals which generate data that serve management decision needs.</p>	<ul style="list-style-type: none"> • Coordinate with most relevant partners, for example: federal, state, tribal, and local agencies, universities, regional and national work groups • Examine other sources for monitoring information within the state or tribe to identify monitoring objectives and goals • Define data needs and uses
<p>c. Monitoring Design: Select and integrate multiple designs to meet the full range of decision needs.</p>	<ul style="list-style-type: none"> • Determine classification scheme to group the type, class, and size of wetlands • Develop mapping system to be used as part of the sampling design (including how wetland inventory maps will be updated). • Describe site selection process • List/map universe of wetland resources from which sites could be selected if available • Determine which data are already available.
<p>d. Monitoring Design – Wetland Condition: Select a core set of indicators to represent wetland condition or a suite of functions</p>	<ul style="list-style-type: none"> • Identify indicators that are relevant for established monitoring objectives • Confirm indicators are scientifically defensible • Develop/select field method(s) • Add supplemental indicators if needs dictate and as resources allow



Grand Portage Band of Lake Superior Chippewa
Wetland Program Plan

2021-2025



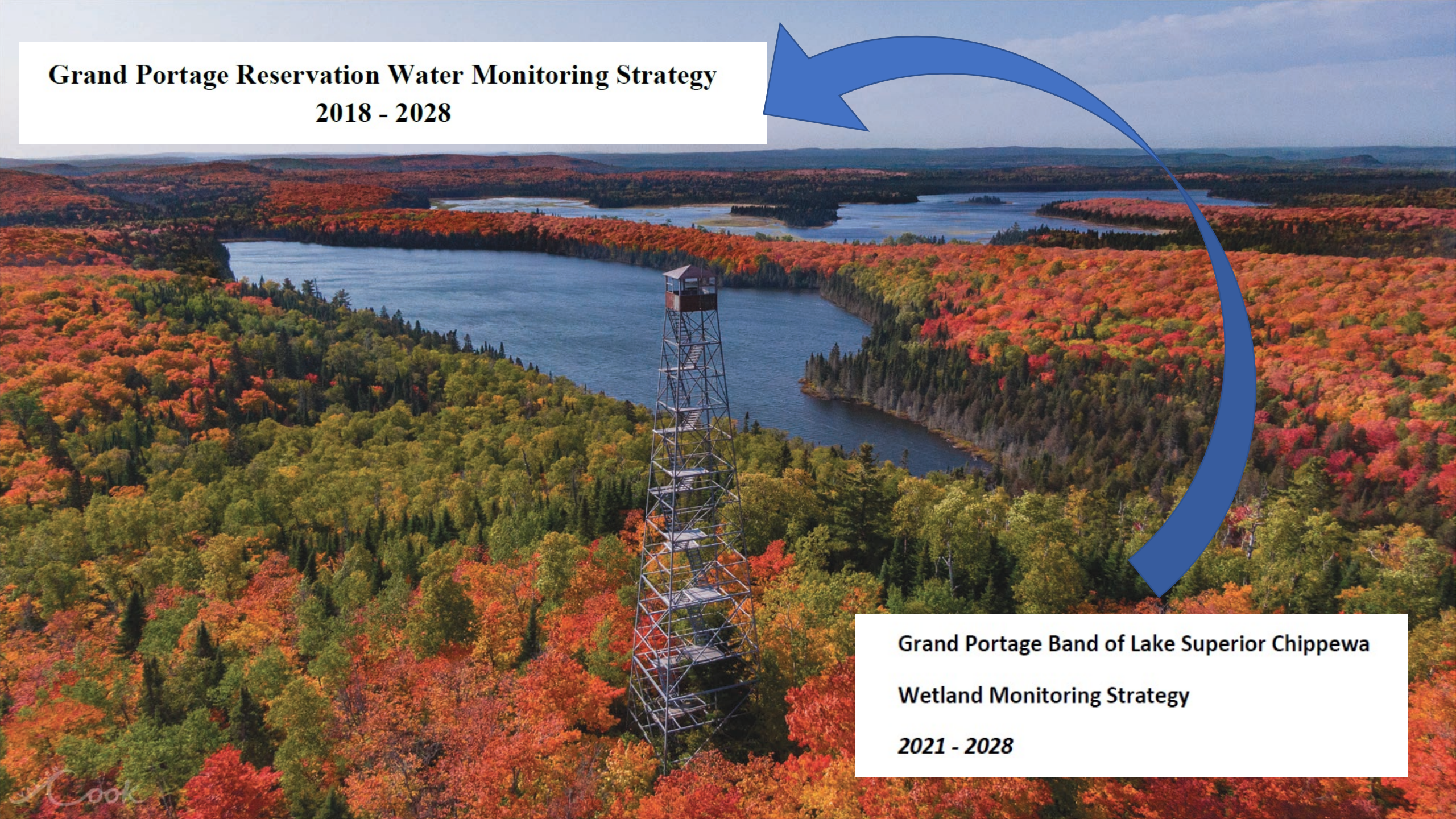
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Laurel Wilson
Wetlands Specialist
Trust Lands Natural Resources Management Office
Grand Portage Band of Lake Superior Chippewa



APPROVED

**Grand Portage Reservation Water Monitoring Strategy
2018 - 2028**



**Grand Portage Band of Lake Superior Chippewa
Wetland Monitoring Strategy
2021 - 2028**

Thank you

Laurel Wilson

lwilson@grandportage.com

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