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CONSULTING

# Remediation of Wetland Used by First Nation for Fishing and Plant Harvesting, Mohawks of the Bay of Quinte, Tyendinaga Mohawk Territory

**Author:**

Muntazir Pardhan, P.Eng., QPESA, *Dillon Consulting Limited*

**Track:**

Land Stewardship



# Project Background



## Addition to Reserve Process

- Environmental Studies over approx. 20 years.

## Four Contaminated Sites

- A Former Gas Station
- An area with storage of refuse and debris
- Two areas formerly used for dumping and storage of debris



# Dillon's Role on the Project

- Data Gaps Analysis
- Community Engagement
- Remedial Action Plan
- Remediation Design and Specifications
- Tendering
- Contract Administration
- Environmental Monitoring
- Site Closure Reporting



# Community Open House

## Community Engagement

- Repurposing materials
- Fishing season
- Presence of medicinal plants
- Using local resources
- Training opportunities



# Former Gas Station – Parcel 5

## Parcel 5 Soil Remediation

- Dig and Dump
- Easy Access
- No GW impacts
- No dewatering issues



# Removal of the Source of Impacts – Parcel 1

## Parcel 1 Challenges

- Heavily wooded area and wetland
- Steep embankment
- Removal by hand
- Two 8-yard bins full



# Salmon River Challenges – Parcel 12

## Parcel 12 Challenges

- Flooding and ice
- High water levels
- Protecting the river
- Maintaining site access



## DAY 2





# Wetland Area – Parcel 10



# Functional Wetland Assessment – Parcel 10

## Parcel 10 Challenges

- Several wetland units
- Larger area of impacts
- Potential for Species at Risk
- Presence of Medicinal Plants
- Standing water



# Risk Evaluation – Parcel 10

Risk Evaluation



Soil, Groundwater  
and Surface  
Water Sampling

Functional  
Wetland  
Assessment

Sweet Flag Tea  
Sampling  
Program

# Functional Wetland Assessment – Parcel 10

## Major Findings

- Several wildlife species
- Potential habitat for SAR
- Three wetland units
- Sweet Flag



# Sweet Flag Tea Sampling – Parcel 10



# Risk Evaluation Results – Parcel 10

## Risk Evaluation Findings

- No GW concerns
- Limited additional excavation required
- Wetland area to remain undisturbed



# Excavation and Dewatering – Parcel 10



# Lessons Learned

## Key Lessons Learned:

- Listen First
- Community Engagement
- Timely communication
- Understanding Traditional Land Uses
- Collaboration for innovative approaches
- Coordinate using local resources and staffing ahead of time





# Questions?

## **Dillon Project Team:**

- Muntazir Pardhan, P.Eng., QPESA, Dillon Consulting Limited
- Rebecca Appleton, P.Eng., MBA, Dillon Consulting Limited
- Michael Charles, P.Eng., Dillon Consulting Limited
- Lisa Marshall, PBD, M.E.S., Dillon Consulting Limited
- Sherry Dosman, Dillon Consulting Limited

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