



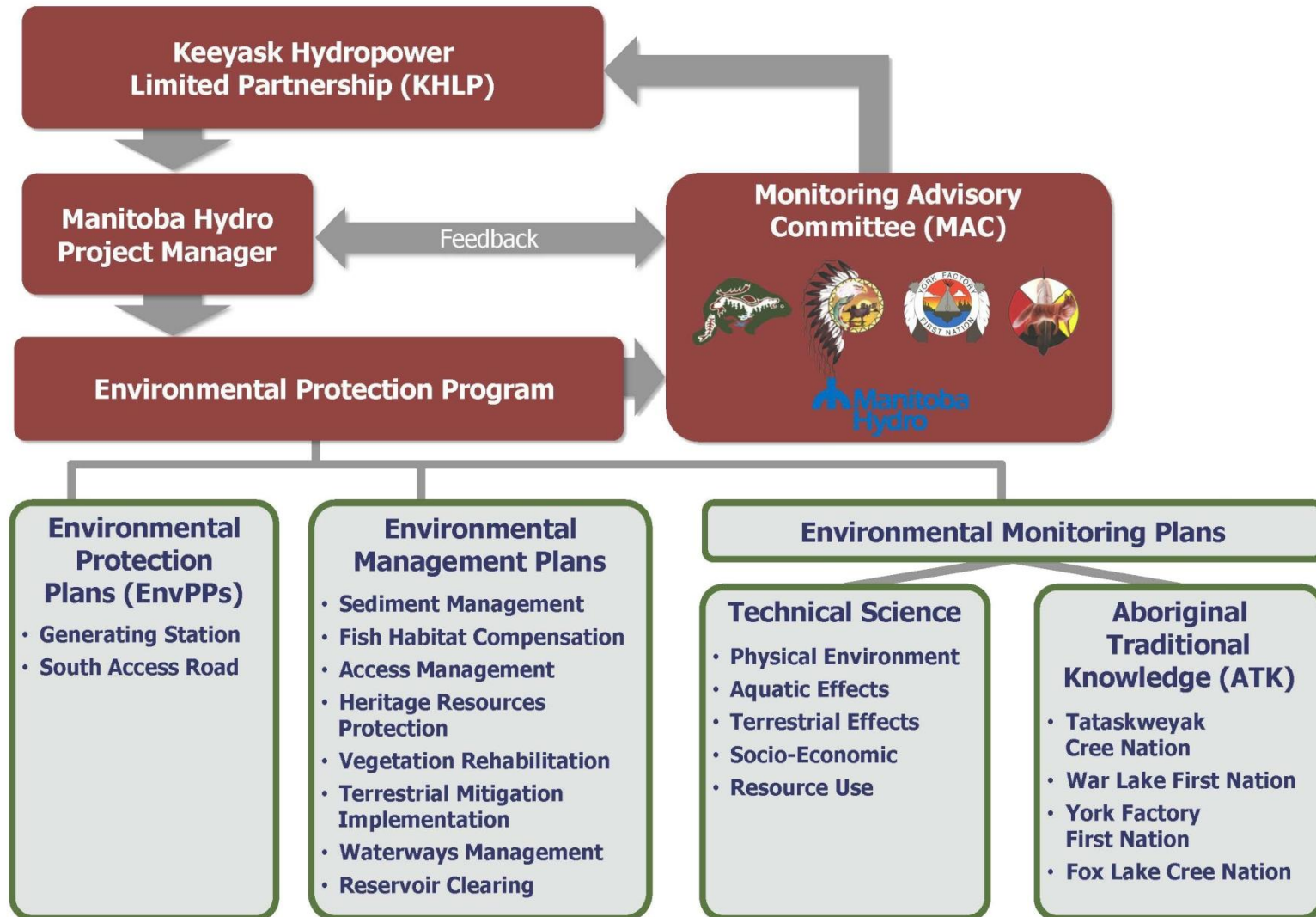
# Keeyask Generation Project

CEC Hearings - Environmental Impact Statement

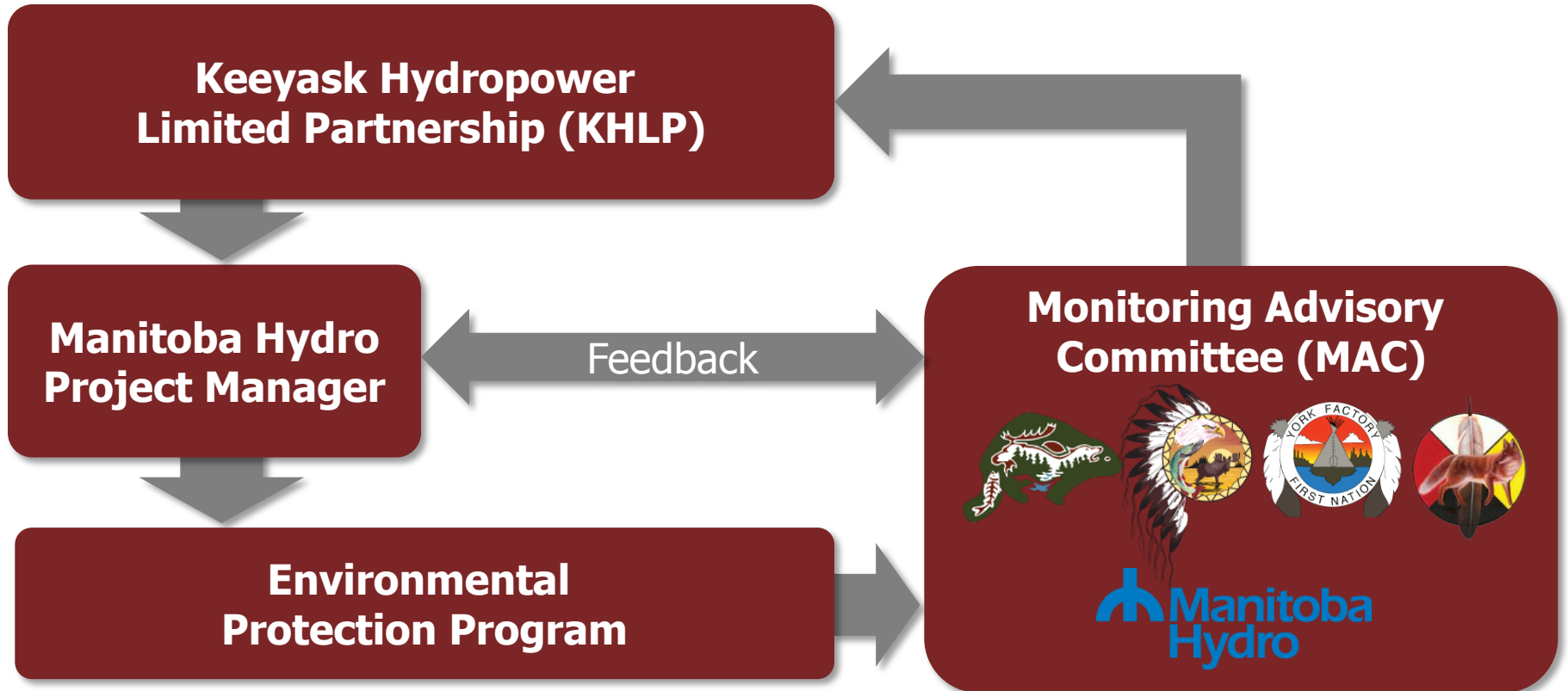


**Environmental Protection Program**  
Carolyn Northover: Sr. Environmental Specialist, Manitoba Hydro

# Environmental Protection Program Implementation Structure



# Environmental Protection Program Implementation Structure



# Monitoring Advisory Committee (MAC)

- **The MAC is an advisory committee to the Board of the General Partner**
- **MAC will have representatives from each of the Partner communities and Manitoba Hydro**
- **Will meet every 2 months during construction and will be in place for the life of the project**
- **Purpose is to provide oversight of the Environmental Protection Program**

# Environmental Protection Program

## Environmental Protection Plans (EnvPPs)

- Generating Station
- South Access Road

## Environmental Management Plans

- Sediment Management
- Fish Habitat Compensation
- Access Management
- Heritage Resources Protection
- *Vegetation Rehabilitation*
- *Terrestrial Mitigation Implementation*
- Waterways Management
- Reservoir Clearing

## Environmental Monitoring Plans

### Technical Science

- Physical Environment
- Aquatic Effects
- Terrestrial Effects
- Socio-Economic
- Resource Use

### *Aboriginal Traditional Knowledge (ATK)*

- *Tataskweyak Cree Nation*
- *War Lake First Nation*
- *York Factory First Nation*
- *Fox Lake Cree Nation*

*Plans in italics are still being drafted; related commitments are detailed in the EIS*



# Environmental Protection Plans

- **Measures to be implemented by contractors and staff to minimize construction effects**
- **Contractual obligation to fulfill plans**
- **Site Environmental Officers monitor compliance with the EnvPPs**
- **Reports prepared on compliance and corrective actions**



# Environmental Management Plans

- **Detailed implementation plans for mitigation commitments outlined in the EIS**
- **Eight plans to be implemented during construction & operation depending on the issue**



# Heritage Resources Protection Plan

- **The Heritage Resources Protection Plan documents in detail the steps to be followed if suspected human remains are discovered at site**
- **This aspect of the plan has been taken very seriously by the Partnership and is of utmost importance to the Cree**
- **The plan documents steps to be followed so that human remains are handled in a manner that is culturally appropriate and in compliance with the Manitoba *Heritage Resource Act* and the Policy Concerning the Reporting, Exhumation and reburial of Found Human Remains**
- **Work is underway to identify a site along the North Access Road for reinternment of any found human remains**



# Environmental Monitoring Plans

- **Monitoring to test predictions in the EIS**
- **Evaluate effectiveness of mitigation in reducing environmental and social effects**
- **Monitoring addresses uncertainty, including areas where there are differences between predictions based on technical science and ATK**



# Technical Science Monitoring Plans

- **The 5 technical science plans have been drafted**
- **They follow-up on the VECs and supporting topics described in the EIS**



# ATK Monitoring Programs

- **The Partner First Nations are currently developing community-specific ATK monitoring programs**
- **ATK monitoring programs likely based on construction and/or operational activities and related community concerns about potential effects**
- **The results of the ATK monitoring will be an integral part of assessing the accuracy of predictions and the effectiveness of mitigation measures**





# ATK & Technical Science – What if there are different findings?

- **Addressed on a case-by-case basis among the partners**
- **Resolution sought primarily through discussions at MAC**
- **If resolution at MAC not possible, concerns go to Board of the General Partner and, if required, JKDA dispute resolution process could be initiated**
- **Changes to community-specific AEs as a result of unforeseen or unforeseeable adverse effects will be dealt with by MH and the community**





# Adaptive Management

- **Adaptive management will be applied when monitoring demonstrates there is a variation between actual project effects and predicted effects**
- **Where appropriate thresholds and benchmarks will trigger adaptive management**
- **Possible outcomes/decisions could include:**
  1. Application of pre-determined adaptive measures
  2. New measures designed based on monitoring results
  3. A communication plan where no adaptive measures can be applied.

# Implementation of Adaptive Management

- **Timing varies greatly depending on:**
  - Nature of mitigation measure
  - Seasonality
- **MAC will provide the forum to review and discuss practical modifications to mitigation**
- **Review recommendations from technical experts and possibly regulatory agencies on the most appropriate course of action**

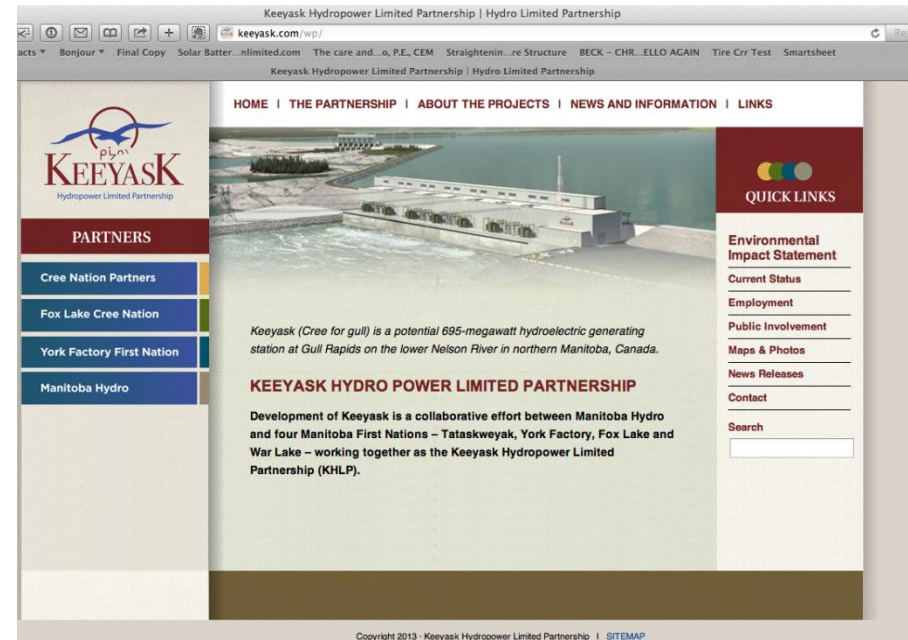


# Communication of Outcomes

- **MAC is responsible for communicating program outcomes on an annual basis to Partner communities and the public**
- **Communication to Partner communities through various forums, e.g. open houses**
- **Annually, the KHLP will develop a Monitoring Overview - a plain language summary report in both English and Cree**

# Communication of Outcomes

- **Manitoba Hydro (on behalf of KHLP) will submit reports to Regulators including:**
  - Compliance monitoring report in connection with the EnvPPs
  - Technical reports on monitoring activities and results (both ATK and western science)
- **All reports will be posted on the Keeyask website**





# Summary

- **The Partners have developed mitigation measures to minimize the adverse effects**
- **Both ATK and technical science will be used to assess Project effects and the effectiveness of mitigation measures**
- **Through MAC, the partners will oversee the Environmental Protection Program and work together to protect the environment/Askiy**
- **Manitoba Hydro, MAC and regulators determine if adaptive management is required**
- **Program results will be communicated in partner communities, and on the Keeyask.com Web site**



# Keeyask Generation Project

CEC Hearings - Environmental Impact Statement



**Thank You**