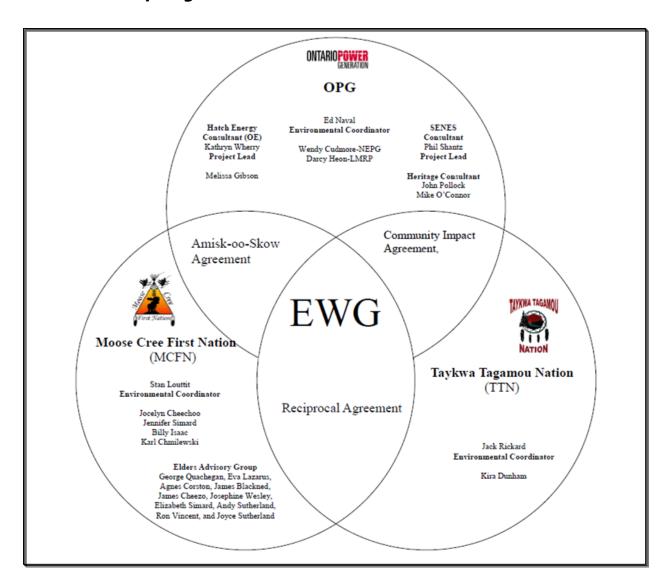


# **Environmental Working Group**

**Monthly Report** 

February 2012

# **ENVIRONMENTAL WORKING GROUP**Relationship Organizational Chart



- Weekly Environmental Working Group (EWG) and EWG/Kiewit Alarie, a Partnership (KAP) meetings.
  - The EWG review its Action Items that include priority permit reviews, and deliverables to the Mattagami Extensions Coordinating Committee (MECC).
  - > KAP gives EWG a construction up date every week and discusses any upcoming issues and/or urgent permit reviews.
  - > Specific items that were discussed are below.
- Ongoing review and compilation of Traditional Ecological Knowledge (TEK) for the Lower Mattagami River Project.
- Revision of Cost Benefit Analysis of Mitigating and Reducing Spill in Adam Creek based on further EWG comments. MCFN has
  completed a questionnaire and is currently conducting community interviews. TTN is preparing its questionnaire and will be
  conducting community interviews.
- Operation Overview Report was revised with EWG comments. The EWG presented the results of its review to the MECC.
- Initial review of Environmental Effects Monitoring Workshop Report by workshop discipline leads, in preparation for reviewed by the EWG and workshop participants.
- Coordination of historical text and map required for condition 2c (teleconference held on Feb. 27, 2012).

#### **ACTIONS TO BE COMPLETED in 2012**

ACTIONS TO BE CONTILETED III 2012												
	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
EA Terms and Conditions Environmental Compliance Plan – EWG Review and												
Submission to MECC.												
EWG Environnemental Due Diligence Audit #2												
EWG present to the MECC the result of its review of the LMRP "Operations												
Report" (Condition 4(a) of EA T&Cs).												
EWG present to the MECC the result of its review of the "Fish Habitat	Date to be determined											
Assessment Report", and "Baseline Fish Methyl Mercury Report" (Condition 4b.												
of EA T&Cs) by Hatch.												
EWG present to the MECC the result of its review of the draft "Cost Benefit												
Analysis of Mitigating and Reducing Adam Creek Spill" (Condition 4(c) and (e) of												
EA T&Cs) by Hatch.												<u> </u>
EWG present to the MECC the "Waste Management Plan" (EA T&C 19).												
EWG present to the MECC "The Noise Protocol Plan" (Condition 18 of EA T&Cs).												
EWG present to the MECC "Environmental Monitoring Plan, Lower Mattagami												
Development" (EA T&C 14).												<u> </u>
EWG present to the MECC the "Erosion Monitoring Plan" (EA T&C 6).												
EWG present to the MECC the "Evaluation of the Need to Conduct Terrestrial												

	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Habitat Restoration Downstream of Kipling" (EA T&C 5).												
Draft of Traditional Ecological Knowledge in relation to the Lower Mattagami												
River Project.												
EWG present to the MECC the results and recommendations of periodic re-												
evaluations (Condition 10 of EA T&Cs).												

## Construction Smoky Falls

- Concrete pours in the service bay, powerhouse, and intake areas continued, with a total of 4,225 m3 of concrete poured in February (February 3rd to March 1st).
- There are ten other pours in total with work under way (rebar and form work) at the end of the month, and more being planned for on a daily basis.
- Work continues under localized hoarding on the reconstruction of the Smoky Falls Unit 2 / Unit
   3 bullnose. Installation of form work and rebar installations are progressing.
- Inside the winter shelter, foundations for all of the four concrete placing booms are complete. All of the placing booms are installed and in-service.
- Prefabricated curved draft tube form sections for Unit 2 are being installed inside the winter shelter (Figure 1).



Figure 1: Tower crane transfer of formwork through shelter roof at Smoky Falls

#### **Little Long**

- Concrete work is progressing well, with 889 m3 of concrete poured in the powerhouse area. Work continues to advance at an accelerated pace despite occasional extremely cold weather.
- Rebar and form work continues to progress at a good pace.
- A portion of the powerhouse area was transferred to KAP for construction activities.
- Removal of the draft tube form work has started (Figure 2).
- Mud removal operations at the Unit 3 Intake are complete.



Figure 2: Drat tube shaft at Little Long

#### Harmon

- The base of the draft tube (658 m3) was poured on February 3rd, as planned.
- Prefabricated curved forms for the draft tube are being lowered into the powerhouse area and assembled. This work is nearing completion as of month-end (Figure 3).
- The first lift of the draft tube pier (84 m3) was poured on February 16th.
- Rebar and form work for the next major powerhouse pour are advancing.



Figure 3: Draft tube work at Harmon

#### **Kipling**

- Cofferdam Cell #2 backfill was completed (tremie concrete and sand) and the template was removed (Figure 4).
- Post-tensioned anchors are being installed in Cofferdam Cell #3 and grouting on Cell #3 is complete.
- Drill and grout on Cofferdam Cell #1 is progressing.
- At the shore tie-in, removal of debris is progressing well in preparation for the installation of shore tie-in frames.



Figure 4: Backfill progress at the Kipling cofferdam

**Monthly Summary – February 2012** 

SPILLS										
No. of Spills:			11; Spill Reports 189-199 (see Figure 6 for LMRP spills breakdown).							
Classification of	Project Classification									
	Minor – 8 Moderate – 3 Major – 0 To Water - 0									
			MOE Classification							
			Non-reportable - 0							
			Reportable	to MOE						
			- Class C – 0							
				- Class B – 0						
				- Class						
Reportable Spills										
No. Quantity	o. Quantity /Product Spilled				Reason	for being Reportable				
0 n/a					n/a					
Project Classific	ation (KAP)		MOE Classification							
Minor: ≤ 10L			Non-re	portable: < 100L						
Moderate: Bety			Reporta	able to MOE						
Major: ≥100L					•	Class C - Less Serious				
To Water: Any a			•	Class B – Serious						
(See Figure 7: KAP Spills Response Flowchart			t)		•	Class A – Very Serious				
<b>Sediment Pond</b>	Exceedance of E	ffluent Obj	ective (>15m	ng/L)		•				
No. of	Location	Mitigation Measures used								
Exceedance										
days recorded										
		KAP determined that the increase in the pH levels were due to								
		crete pour (700m³) that was took place on								
2	Harmon		KAP proceeded to add citric acid to the pond as a							
(Feb 5-6)	1101111011	corrective measure. The dosage for the citric acid followed								
		KAP's Harmon Sedimentation Pond Effluent Monitoring								
		Corrective	e Measures Plan.							

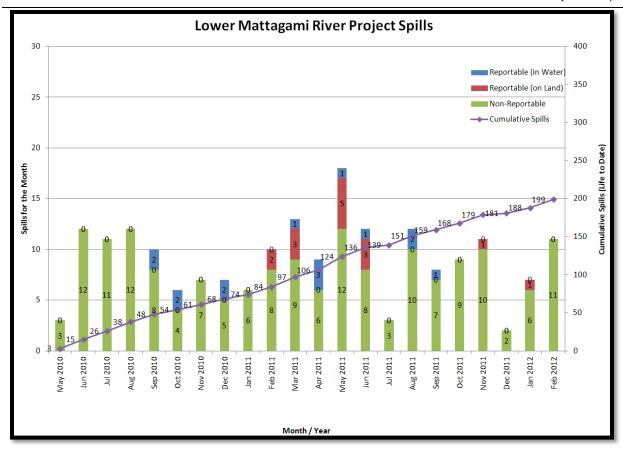


Figure 6: Lower Mattagami River Project spills

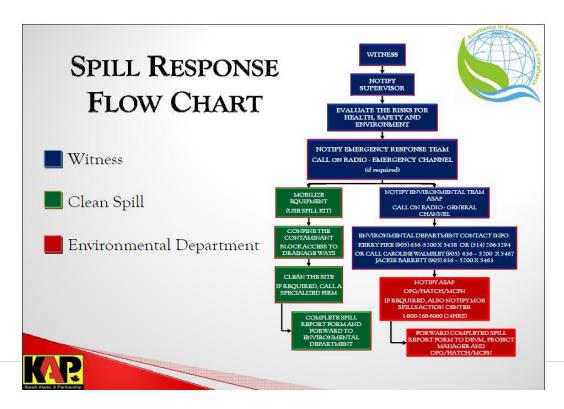
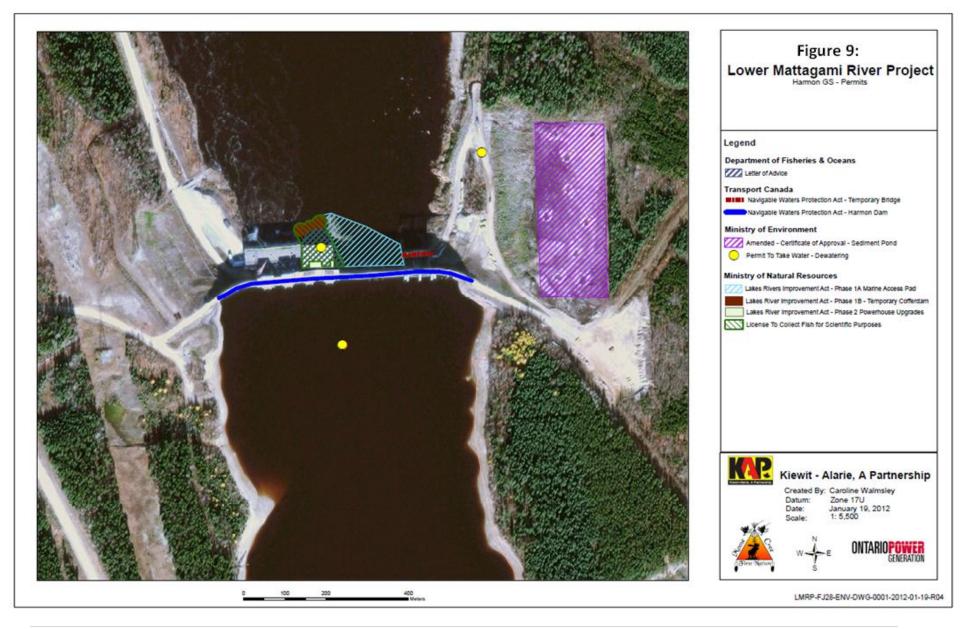
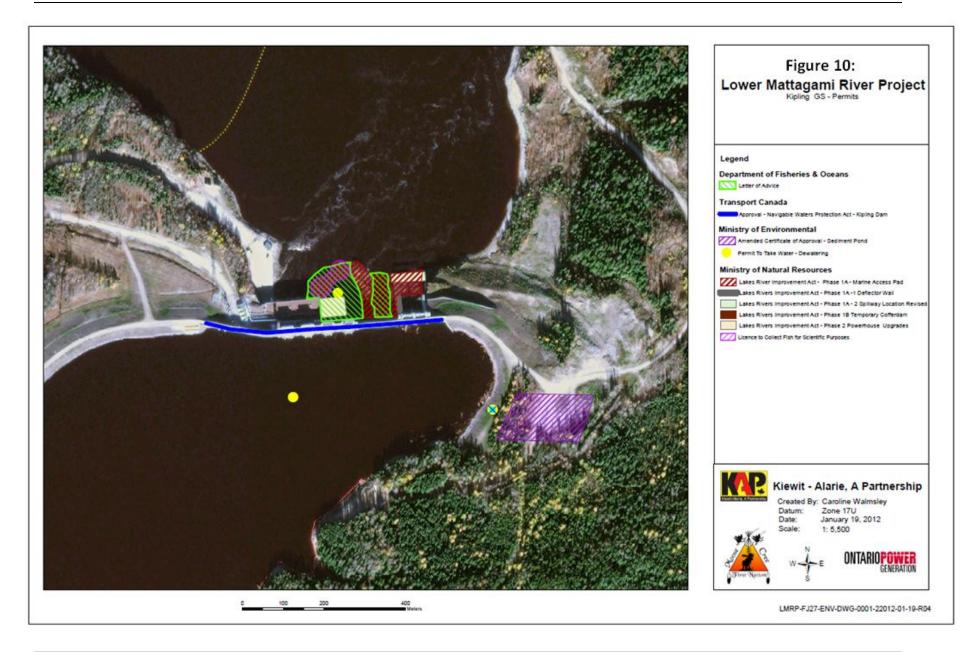


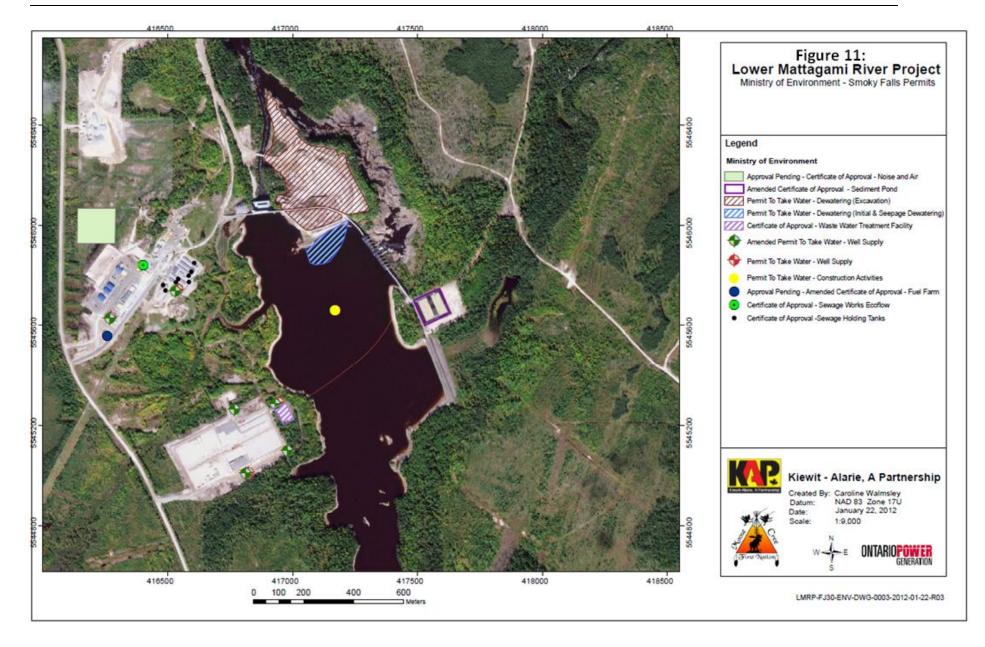
Figure 7: KAP Spills Response Flowchart

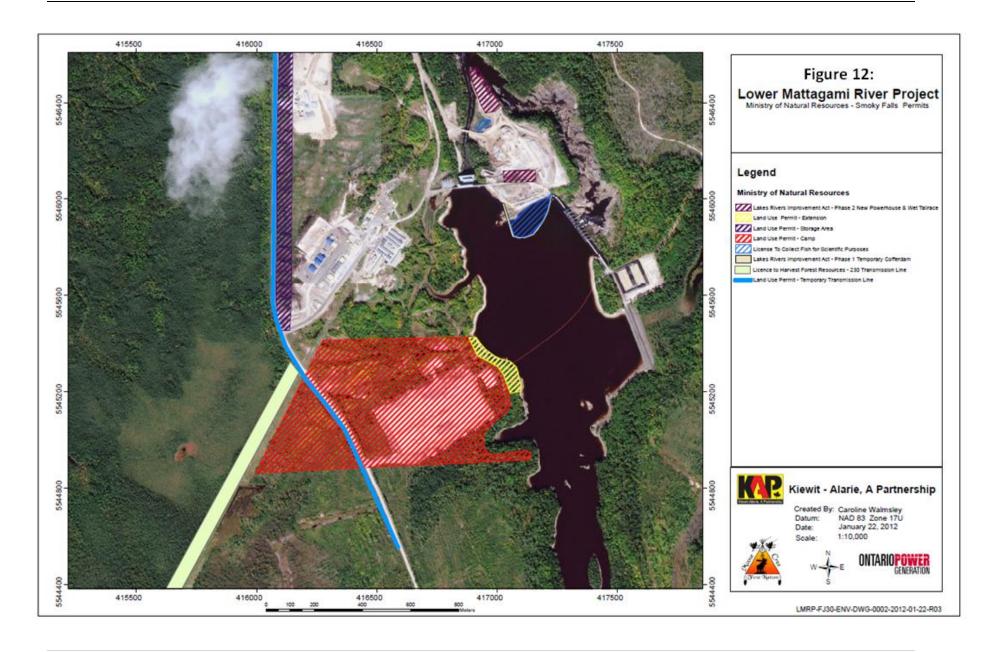
PERMIT AND APPROVAL REVIEW								
No. Reviewed:	0	List:						
No. Sent to KAP:	0	List:						
Reports Review								
No. Reviewed for	2	List	Environmental Management Plan					
KAP			Hazardous Material Management Plan					
No. Sent to KAP	2	List	Environmental Management Plan					
			Hazardous Material Management Plan					
No. Reviewed for	3	List	On-going:					
MECC			Cost Benefit Analysis of Mitigating and					
			Reducing Spill in Adam Creek.					
			Operation Overview Report.					
			Baseline Methyl Mercury Reports and					
			Mercury in Fish Flesh Summary Report.					
No. Review	1		Operation Overview Report.					
Completed								
REQUESTS FOR INFORMATION (RFIs)								
No. Reviewed:	0	List:	n/a					
No. Sent to KAP:	0	List:	n/a					
See figures 8 to 13	below for site	location of the	e permits that have been or are pending approval.					

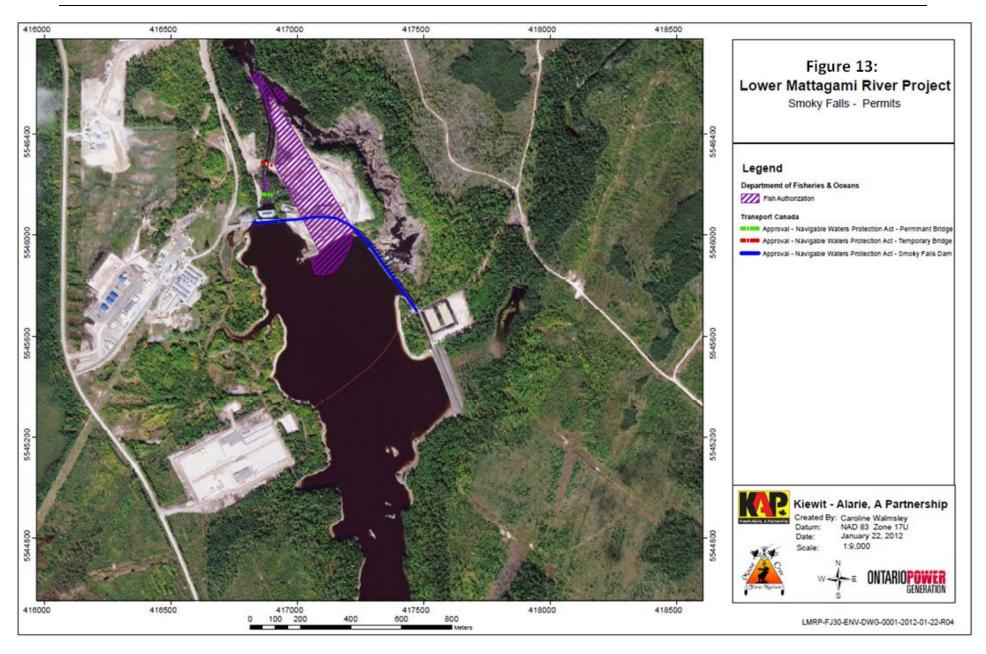












### **Issues and Concerns**

• FN disagreement on background section of the Terms of Reference for the MECC Adam Creek Study.

Action Required: MECC study on hold pending direction resulting from FN Chief and Council discussions.

 MECC interpretations required for EA Terms and Conditions to be provided to EWG.

Action Required: MECC to begin providing interpretations to EA Terms and Conditions.