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Subject: FW: Bay Goose Dike construction Sept 3

From: Stéphane Robert [mailto:stephane.robert@agnico-eagle.com]
Sent: Friday, September 04, 2009 10:46 AM
To: Wilson,Anne [Yel]; Liu, Amy; Balint, David; David Abernethy; Kevin Buck; Andrew.Keim@inac-ainc.gc.ca; Luis Manzo; Stephen Hartman; Dionne@nunavutwaterboard.org; dts@nunavutwaterboard.org; Harden,Chad [Yel]
Cc: Louise Grondin; Larry Connell; Sylvain Doire; Rachel Gould
Subject: Bay Goose Dike construction Sept 3

Hi

Here is an update on the construction and on the turbidity curtain integrity.

Construction:
The rockfill platform: 100% We decided to stop the rock platform advancement to make sure that we did not put anymore rock in the water. We will resume the rock platform next year.
Trenching: 93%
Backfill with aggregate: 50%

Turbidity curtain:

- September 1st: Major windstorm with gusting winds up to 90 km/h. Turbidity barriers impaired at several locations (See photos 1-4)
- September 2nd: Windstorm continued. Too windy to go on the lake.
- September 3rd: Wind tapered off. First tour on the lake to assess damage to the turbidity barriers. Top cable found intact all along the lines but vinyl fabric ripped off the steel cable at several locations. It appears that the normal service conditions were largely exceeded during the windstorm despite the use of best material available on the market. Given the widespread damages and the fact that the majority of the TSS generation is finish (rock platform and trenching), it was decided to use intact portions of inner barriers to close the gaps within outer barriers. We do not have enough turbidity curtains to replace the two turbidity barriers.
- We started working on the Eastern barriers. We started disconnecting the intact sections of the inner barriers from their anchors.
- We estimated that one week (depends on the weather) will be necessary to repair one turbidity barriers around the dike.

Turbidity Monitoring
One round of sampling was conducted at the routine stations yesterday (except BGE1, which could not be accessed). We also conducted a broad survey in Second Portage Lake and in Third Portage Lake (east basin) to determine to what extent the recent wind event had dispersed turbid water.
Key findings from today:

- **BGW stations** – Very little vertical differentiation remains at these stations following the wind event. Yesterday's values are slightly below the 24-hour trigger, and lower than they have been in the past week as the water column has mixed.
- **BGE stations** – The distinct deep turbid zone now remains only at depths of 20 meters and greater at BGE-3 and BGE-5. Today's TSS values were noticeably lower at BGE-2, 3, and 4 (all were below the 24-hour trigger). BGE-5 didn't change much, but the high values are now restricted to 20m and deeper. At BGE-6, TSS increased (probably due to plume dispersion) but is still below relevant triggers. BGE-1 could not be accessed yesterday.
- **HVH stations** – In contrast to previous days, TSS is now very similar at all of the BGHVH stations and at all depths. The new 24-hour TSS trigger is barely exceeded at BGHVH-3, and is not exceeded at other stations. However, the new 30-day trigger is below the relevant triggers.
- **Broad Survey** – TSS levels in Second Portage Lake are similar to or slightly lower than the last broad survey on August 26th. Aerial observations yesterday confirm that turbid water in Second Portage Lake is confined to a narrow band along the shore (photo 6 and 7). In Third Portage Lake, the broad survey indicates that TSS levels have increased throughout much of the east basin. However, TSS was low at the station that connects the east basin to

the rest of Third Portage Lake. Aerial observations yesterday confirm that turbid water appears to be limited to the east basin (photo 5).

Talk to you at 15:00 Central time

Use this new phone number and Participant code
Call In Number: 1877-727-8553
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