

Date: April 17, 2013 File: 20132344.00.A.04.00

Time: 2:00 - 5:00 p.m. Page: 1 of 3

Project: Wastewater System Upgrades

Subject: Wastewater Advisory Committee Meeting No.1

Client: City of Port Alberni

City Hall, Port Alberni, BC Location:

Rick Avis (RA) - Somass Estuary Management Present:

> Plan Committee / Alberni Valley Enhancement Association (AVEA)

Guy Cicon (GC) - City of Port Alberni Larry Cross (LC) - Catalyst Paper

Andy Daniel (AD) - Alberni-Clayoquot Regional

District

Phil Edgell (PE) - AVEA

Sheena Falconer (SF) – West Coast Aquatic

Hugh Hamilton (HH) – Associated Engineering (AE) Baljeet Mann (BM) – Ministry of Environment (MOE)

(by phone)

Ashley Popovich (AP) - Catalyst Paper

Tom Robinson (TR) - Associated Engineering Dean Shiskowski (DS) - Associated Engineering Kirsten White (KW) – Ministry of Environment

Those Present Distribution:

> Jeanine Bond - Ducks Unlimited Kelly Bush – Associated Engineering Stephanie Bruvall - Ministry of Health Bill Collette - AV Chamber of Commerce Robert Duncan – Hupacasath First Nation Joe Holmes – Western Forest Products

Randy Lake - Department of Fisheries and Oceans

Snehal Lakhani – Environment Canada

Dave McCormick - Port Alberni Port Authority

Allan McGill – McGill & Associates Scott Smith - City of Port Alberni Cindy Stern - Tseshaht First Nation

RECORD OF MEETING

These minutes are considered to be complete and correct. Please advise the writer within one week of any errors or omissions, otherwise these minutes will be considered to be an accurate record of the discussions.

Action By: **Discussion:**

INTRODUCTIONS 1

Info Introductions were made. The meeting was the first of the combined Technical Advisory Committee (TAC) and Public Advisory Committee (PAC), referred to in this case as the



Subject: Wastewater Advisory Committee Meeting No.1

April 17, 2013 Page 2 of 3

Action By: Discussion:

Wastewater Advisory Committee (WAC), as required by the Liquid Waste Management Plan (LWMP) process. The LWMP will form the basis for future wastewater collection, treatment and disposal for the next 40 years.

The key objectives of the meeting were noted, as follows: to provide project background and history, to review the alternative locations for effluent return to environment, and to discuss the next steps.

TR provided some more detailed overview of the project and introduced the AE members.

2 PRESENTATION AND DISCUSSION

DS, TR, and HH presented several slides (appended) and led a discussion, following the agenda distributed to attendees (also appended).

A discussion was raised by KW on the CSO component of the LWMP.

The following points were noted during discussions:

- Planned integration of the Catalyst Lagoon into the City's system is scheduled for completion by March 2015.
- The tidal marsh areas within the Somass Estuary have high ecological and fisheries values, as outlined in the Somass Estuary Management Plan.
- The western side of the intertidal zone, and its channels, are primarily a
 freshwater environment. Plant species found here are freshwater-based and no
 clams or crabs exist in these locations. It does not appear this area has been
 significantly affected by historical municipal or industrial effluent discharges.
- Dissolved oxygen dynamics appear to have an important influence on fish behaviour in terms of the timing of when salmon enter the Somass River.
 Therefore BOD in the treated effluent will be an issue to be addressed in the LWMP.
- The local fishery is an important contributor to the local economy. This should be factored into the evaluation of options.
- River and estuary effluent discharge has a long history in the area. Intertidal zone effluent discharge has not been practiced.

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Subject: Wastewater Advisory Committee Meeting No.1

April 17, 2013 Page 3 of 3

Action By:

Discussion:

The following items were identified and agreed to as action items:

RA, PE (AVEA)

 AVEA to make material available to the WAC the results of a literature review currently underway.

KW (MOE)

 MOE to provide direction on application of recent Provincial policy on phosphorus.

GC

• City to speak with Catalyst Paper regarding any potential opportunity or interest for reclaimed municipal effluent reuse at the mill.

DS, HH, TR

• It was agreed that AE would develop a discussion paper outlining the three effluent return locations presented and discussed: Somass River, Alberni Inlet, and Intertidal Zone, as well as summarizing the relevant preliminary screening work and pertinent discussion points from this meeting.

Info / HH

There was some discussion regarding the value of carrying out a limited monitoring program this spring and summer to sample water quality at the lagoon outlet, the channel outlet, and at a few upstream and downstream locations in the river.

[Post Meeting Note: HH is preparing a proposed work plan to this effect. The aim would be to determine concentrations of the MWR regulated parameters when the tide is coming in and when it is out, which will help inform the discussion on the Somass River option.]

3 MEETING ADJOURNED / NEXT MEETING

GC

It was agreed that the next WAC meeting will be scheduled for a date 4-6 weeks from now (i.e. mid or late May).

Prepared by:

Reviewed by:

Quinn Crosina, M.A.Sc., P.Eng.

Environmental Engineer

Dean Shiskowski, Ph.D., P.Eng.

Project Advisor

QC/DS/lp



City of Port Alberni Wastewater Treatment Upgrades

Wastewater Advisory Committee (WAC) Meeting #1 - Agenda

April 17th, 2013, 2:00 – 5:00pm

1. Introductions

a. Combined Public and Technical Advisory Committee: Wastewater Advisory Committee

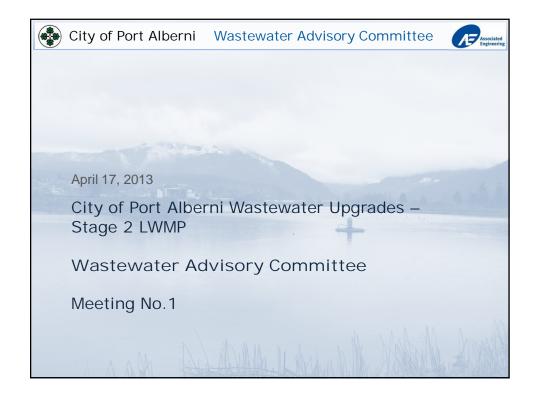
2. Background and History

- a. Stage 1 LWMP
- b. Draft Stage 2 LWMP
- c. Investigations Odour Control Options
- d. Hydraulic Analysis Combined Sewer Overflows; Preliminary Upgrades
- e. Investigations Constructed Wetland Option
- f. Compliance Review by MOE
- g. Draft Stage 2 LWMP Additional Wastewater Treatment Options Discussion Paper
- h. Investigations Potential Catalyst Lagoon Acquisition
- i. Discussion Paper Wastewater Treatment Facility Upgrade Options
- j. Discussions MSR Pre-Registration
- k. Discussion Paper Wastewater Lagoon Treatment System Concept
- I. Gas Tax Funding Application and Award of Funding
- m. Acquisition of Catalyst Lagoon
- n. Other Environmental Assessment or monitoring activity in Alberni Inlet and Somass River Estuary
- o. Preliminary environmental screening work to-date
- 3. Alternative Locations Effluent return to the environment
 - a. Somass River
 - b. Intertidal zone

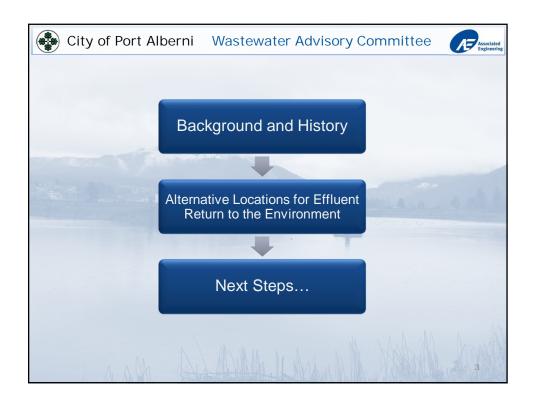
c. Alberni Inlet

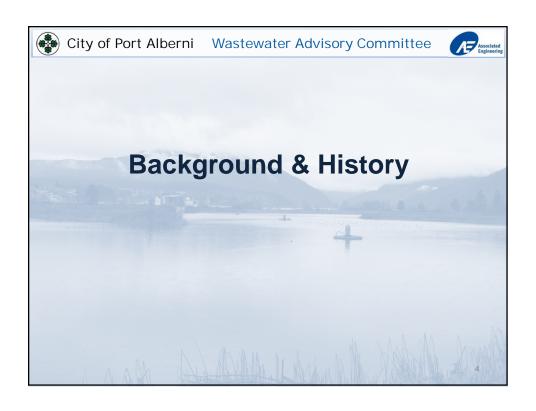
4. Next Steps

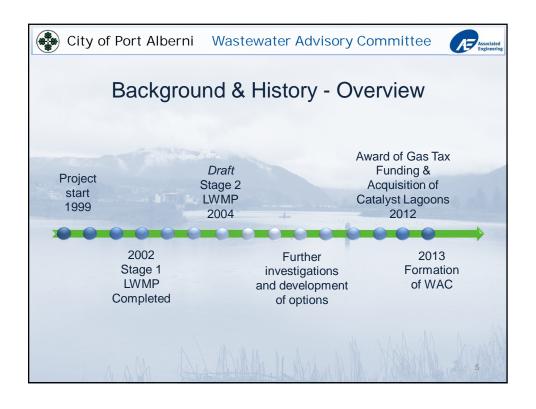
- a. Develop decision-making framework for effluent return location
- b. WAC Meeting #2
- c. Update Draft Stage LMWP document Ongoing

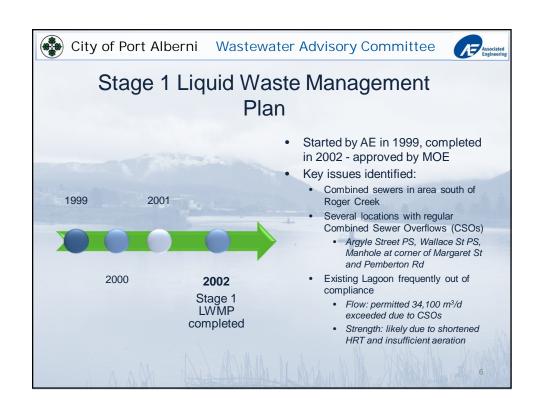






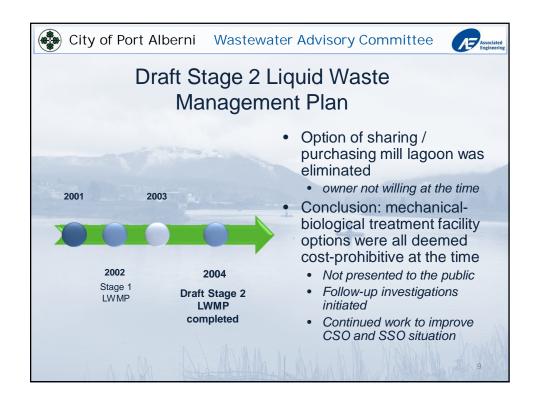


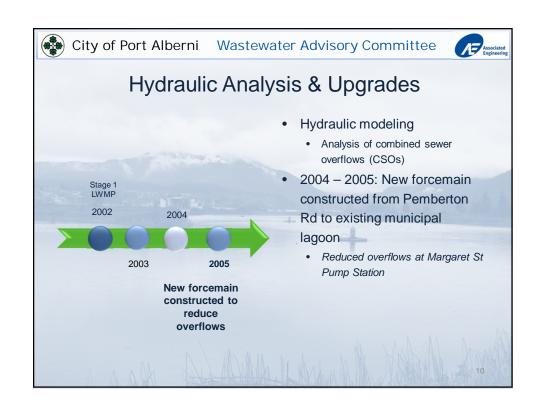


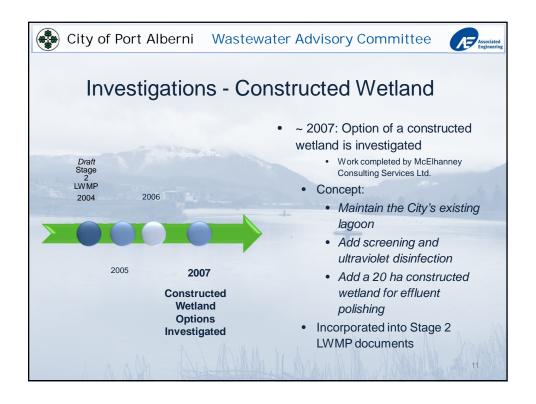








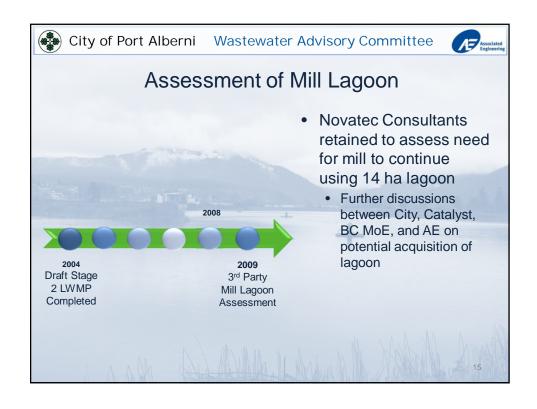


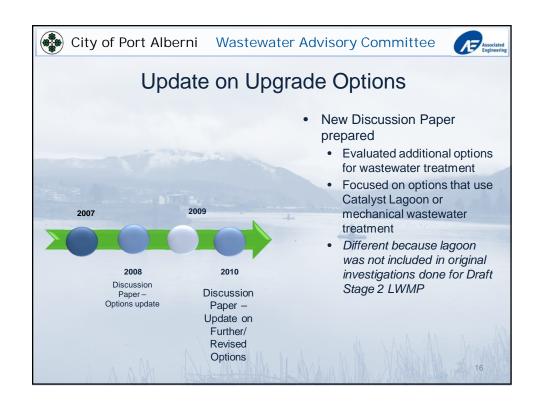




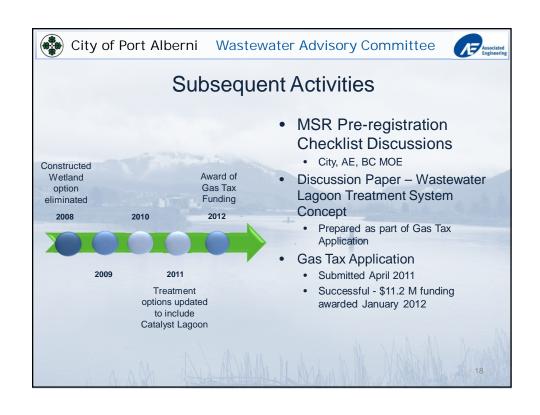


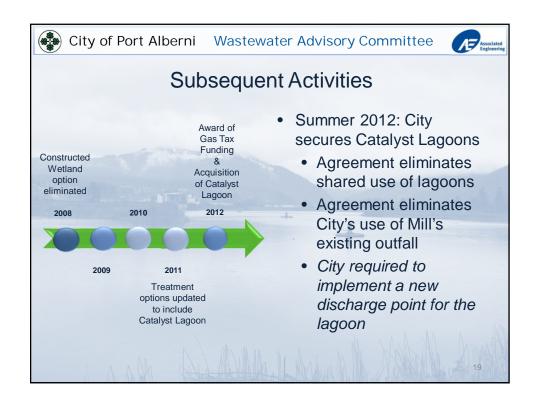
















City of Port Alberni

Wastewater Advisory Committee



Other Environmental Assessment / Monitoring Activity in Alberni Inlet and Somass River Estuary

- Catalyst Environmental Effects Monitoring (EEM) - Cycle 6 most recent; Cycle 5 in 2010)
- Somass Estuary Management Plan (SEMP) 2004)
- Somass Basin Watershed Management Plan (Pacific Salmon Commission June 2012) climate change adaptation



City of Port Alberni Wastewater Advisory Committee



Preliminary Environmental Screening Work To-date:

Aim is to address key outstanding issue: location of effluent return to environment

Options previously identified (Draft Stage 2 LWMP):

Additional option tabled:

Somass River Alberni Inlet

Intertidal Zone

Do 'deal-breakers' exist for any of the options?











City of Port Alberni Wastewater Advisory Committee



Screen the Feasibility of River Discharge

- · Current "side channel" discharge through a vegetated ditch
- MWR approach to river discharge influenced by the Dilution Ratio (DR)

Average annual 7 - day Low Flow (7Q2) Maximum Weekly Average Wastewater Flow



City of Port Alberni Wastewater Advisory Committee



MWR Dilution Ratio

- If >100:1 treatment standards & EIS scope are normal
- If <100:1 EIS must determine if more stringent treatment standards are needed
- If <40:1 & used for recreation or domestic, only possible if no other option; advanced treatment required
- Prohibited if <10
- Somass River is used for recreation

