

Date: December 12, 2013 **File:** 20132344.00.A.04.01

Time: 12:30-3:00 pm **Page:** 1 of 3

Project: Port Alberni Wastewater Upgrades

Subject: Wastewater Advisory Committee Meeting #5

Client: City of Port Alberni

Location: City Hall, Argyle Street, Port Alberni, BC

Present: Rick Avis - Somass Estuary Management Plan Committee / Alberni Valley Enhancement Association (AVEA)
Hira Chopra – City of Port Alberni
David Clough – Independent Fisheries Biologist
Guy Cicon - City of Port Alberni
Quinn Crosina – Associated Engineering (AE)
Larry Cross – Catalyst Paper
Sheena Falconer – West Coast Aquatic
Hugh Hamilton – AE / Summit Environmental (by phone)
Baljeet Mann – Ministry of Environment (by phone)
Jack McLeman – City of Port Alberni
Tom Robinson – AE
Jana Tondur – AE / Summit Environmental (by phone)
Ken Watson – City of Port Alberni
Brad West – McGill & Associates Eng.
Kirsten White – Ministry of Environment (MOE)

Distribution: Those Present
James Arnott – Environment Canada
Steven Baxter – Port Alberni Port Authority
Jeanine Bond – Ducks Unlimited
Stephanie Bruvall – Ministry of Health
Kelly Bush – Associated Engineering
Bill Collette – AV Chamber of Commerce
Jason Clarke – Worley Parsons
Andy Daniel – Alberni-Clayoquot Regional District
Phil Edgell – AVEA
Wendy Gallic – Tseshah First Nation
Elysha Gordon – Dept. of Fisheries and Oceans
Joe Holmes – Western Forest Products
Kim Hyatt – Dept. of Fisheries and Oceans
Wendy Lee Kerr – City of Port Alberni
Dave McCormick – Port Alberni Port Authority
Andrew Olson – Tseshah First Nation
Ashley Popovich – Catalyst Paper
Dean Shiskowski – AE
Michal Simhon – AE
Scott Smith – City of Port Alberni
Steve Tatoosh – Hupacasath First Nation
Ivy Whitehorne – Ducks Unlimited

RECORD OF MEETING

This Record of Meeting is considered to be complete and correct. Please advise the writer within one week of any errors or omissions, otherwise this Record of Meeting will be considered to be an accurate record of the discussions

Subject: Wastewater Advisory Committee Meeting #4

December 12, 2013

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Action By:

Discussion:

1 INTRODUCTIONS

Info

New Wastewater Advisory Committee (WAC) meeting attendees, Hiram Chopra and David Clough, were introduced.

2 BACKGROUND AND PRIOR DISCUSSIONS

Info

Tom summarized the project history and the liquid waste management plan (LWMP) process. Guy shared some photos and video taken of the lagoon and surrounding area (e.g. Somass River, Alberni Inlet).

3 EFFLUENT DISCHARGE LOCATION SCREENING EXERCISE

Info

Tom provided a re-cap of the discussions and screening exercise complete to-date, as well as the planned investigations required to confirm the preferred option: sediment sampling, shellfish survey, and archaeological investigations.

4 LIQUID WASTE MANAGEMENT PLAN STAGE 2 DOCUMENT

Info

Quinn presented an overview of the draft LWMP Stage 2 document, currently in development, with slides describing the content of each section (appended). Once the draft is complete, it will be distributed to WAC members for review and comment.

Info

Tom made reference to the flows and loads being used as the basis for planning (Section 4 of the document) and the engineering challenges presented by the unusually high peaking factor in the flows.

Info

Baljeet Mann stated that the results of the EIS will ultimately inform the site-specific standards for wastewater effluent requirements (and thus treatment requirements).

Info

There was some discussion about the public consultation process. It was agreed that a communication plan will be developed as one of the next steps of the project. Tom spoke about providing opportunity for the public to provide comment towards the end of Stage 2, before the document is ultimately approved by the MOE.

Baljeet noted that the communication plan will need to refer to the Ministry's Consultative Area Database, which identifies which First Nations are to be included in

Subject: Wastewater Advisory Committee Meeting #4

December 12, 2013

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Action By:

Discussion:

the consultation process and the level of communication recommended for those in closer and further proximity to the project. Baljeet and Kirsten emphasized the importance of documenting the consultation process for the Minister's review prior to approval of Stage 2.

5 ENVIRONMENTAL IMPACT STUDY

Hugh (via teleconference) provided an overview of Part 1 of the Environmental Impact Study (EIS), which is also being drafted alongside the Stage 2 document (slides appended). He noted that the EIS will be split into two parts in order to adequately address the scope and complexity of the project (as is typical for projects of this nature). Hugh noted that the presence of rare and endangered species, such as those noted by Rick Avis during the discussion, will be covered.

Larry Cross asked if it is common to have a baseline condition that includes an existing municipal lagoon. Hugh responded that every project is unique but one complexity of this project is the close proximity to the Catalyst discharge, in addition to the existing municipal discharge. Hugh emphasized that the aim of the project is to improve upon the status quo.

6 NEXT STEPS

It was agreed that the date for the next WAC meeting would depend on the timing of the review periods for the draft LMWP Stage 2 document and the Part 1 EIS document, as well as when results are available from the upcoming planned investigations, which are currently planned for January 26 – 28th, 2014. Tom noted that the timing of the investigations is contingent on permit applications (for the archaeological permit) and must be scheduled to take place during appropriate tidal and daylight conditions.

Prepared by:

Reviewed by:



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



Tom Robinson, M.A.Sc., P.Eng.
Project Manager

QC/TR/lp

City of Port Alberni Wastewater Advisory Committee

December 12, 2013

City of Port Alberni Wastewater Upgrades – Stage 2 LWMP

Wastewater Advisory Committee

Meeting No. 5

City of Port Alberni Wastewater Advisory Committee

Agenda

1. Introductions
2. Background
 - Objective: to establish the preferred discharge location
3. Effluent Discharge Location Screening Exercise
4. LWMP Stage 2 Document
5. EIS Part 1 Document
6. Next Steps

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Introductions



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Background

Alternative Locations for Treated Effluent Return to the Environment

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The new discharge needs to meet regulations and protect the environment



1 Long discharge pipe and challenging Phosphorus objective

2 A discharge in the intertidal zone would impact the ecosystem

2a This location is too shallow for an estuary discharge

2b Preferred discharge location but must avoid fibre mat. Further investigations are required

City Lagoon

Present Discharge Location

Catalyst Lagoon

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Overall Objective

Project Definition

- i. Establish discharge location
- ii. Establish treatment objectives
- iii. Establish effluent quality requirements
- iv. Completion of Stage 2 LWMP

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Stage 2 LWMP Overview

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Table of Contents LWMP Stage 2 (1 of 2)

1. Introduction
2. Regulatory Framework
3. Existing Wastewater Management
4. Basis for Planning
5. Source Control
6. Effluent Integration

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Table of Contents LWMP Stage 2 (2 of 2)

7. Wastewater Treatment
8. Combined Sewer Overflow Management
9. Sustainability and Resource Recovery
10. Urban Stormwater Management
11. Public Agency Consultation
12. Summary and Next Steps

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Section 1: Introduction

- Background and history
- Updates and upgrades since Stage 1 LWMP
 - Acquiring of the Industrial Lagoon by the City
 - Community population projections
 - Reduced impact of non-domestic wastewater discharge

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Section 2: Regulatory Framework

Regulation	Biological Oxygen Demand (BOD)	Total Suspended Solids (TSS)	Total Phosphorus (TP)
Provincial Municipal Regulation (MWR)	45 mg/L maximum	45 mg/L maximum	10 ug/L maximum
2020-2040: Federal Wastewater Systems Effluent Regulations (WSER)	25 mg/L average	25 mg/L average	5 ug/L average
Vancouver Island Phosphorus Objective	-	-	5 ug/L average

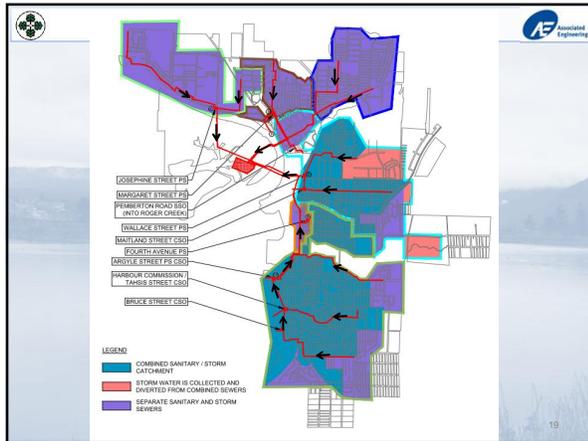
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Section 3: Existing Wastewater Management

Collection and conveyance system

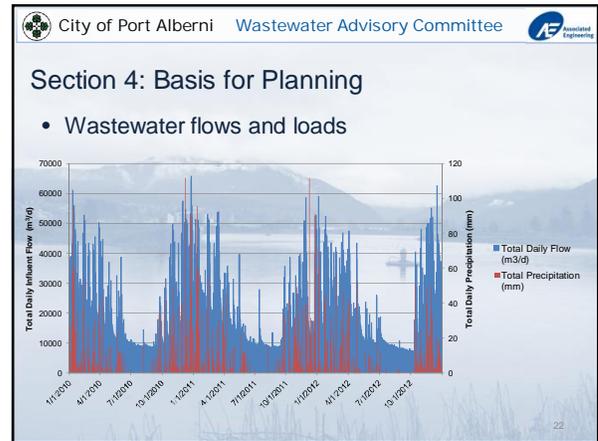
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Section 4: Basis for Planning

- Planning Horizon
- Community Development



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Section 5: Source Control

- Purpose of source control
 - Protect the collection system, the treatment facility, and the receiving environment
- The City's existing By-Law No. 3224
 - Sewer Connection and Regulation By-Law
 - Fish processing factory is no longer a concern

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Section 6: Effluent Discharge

- Effluent discharge location
- Screening exercise
- Effluent dilution
- Cost estimates

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Section 7: Wastewater Treatment

- Effluent quality requirements
 - BOD, TSS, Ammonia
- Treatment process configuration
- Disinfection
- Cost estimates

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Section 8: Combined Sewer Overflows

- Upgrades to date
 - Wallace Pump Station (2001): \$0.34 Million
 - North Port Sewer Abatement Project (2006): \$2.3 Million
 - Argyle St. Pump Station (2009): \$1.2 Million
 - Additional upgrades include new storm drainage installations and sanitary and storm water upgrades: \$1.85 Million
- Planned Upgrades
 - Continued separation of combined sewer system

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Section 9: Sustainability and Resource Recovery

- Biosolids production and reuse
- Effluent reuse
- Heat recovery



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Section 10: Urban Stormwater Management

- The City had a trial for a rainwater harvesting program
- The City is in favour of low impact developments
 - Green roofing
 - Permeable pavement




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Section 11: Public and Agency Consultation

- Wastewater Advisory Committee (WAC)
- First Nations Consultation
- Ministry of the Environment (MOE) – Advisory role
- Future public consultation
 - Open house
 - Mail outs
 - Web-based communications

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Section 12: Summary and Next Steps



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Part 1 EIS Overview

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Part 1 EIS Progress Update

- As per EIS Guidelines (MELP 2000; Section 5.2), EIS is being done in 2 Steps (Stages)
- Step 1 underway – *Assessment of Available Data*
- Will be provided as a draft for WAC review in January

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Part 1 EIS Progress Update

- Part 1 includes:
 - Brief description of project & baseline environment
 - Preliminary dilution/dispersion modelling & guideline comparisons
 - Recommended pre-discharge monitoring plan
 - Recommended scope of work for Part 2

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City of Port Alberni ENVIRONMENTAL IMPACT STUDY

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Next Steps

- Part 1 EIS
- Part 2 EIS
 - Archaeological investigation
 - Sediment investigation
 - Shellfish survey
 - Dilution modeling
 - Baseline monitoring
- Draft Stage 2 LWMP
 - To be provided to the WAC for review
- WAC Meeting #6

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Thank you

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