Wastewater Treatment Plant
Draft Facilities Plan

Authorization to Submit to Dept. of Ecology
Purpose

- The purpose of this agenda bill is to request approval from City Council to submit a Draft Facilities Plan for the proposed wastewater treatment plant to the State of Washington Department of Ecology (DOE).
January 2009 – Tetra Tech/KCM Comprehensive Sewer Plan indicated need for new wastewater treatment plant

August 4, 2010 – Carollo selected to prepare Facilities Plan for new Wastewater Treatment Plant

Today – WWTP Facilities Plan is ready for submittal to WA Department of Ecology
Facilities Plan Need

- Existing treatment facilities are outdated and nearing capacity.
- Increasingly stringent water quality standards
- Both outfalls have major problems
- Marsh surrounding lagoons reclaimed in 2009
- Requirement of National Pollution Discharge Elimination System (NPDES) permit
Project Goals

- Provide reliable wastewater treatment
- Meet high water quality standards
- Phasing opportunities
- Deliver a plan that keeps on track to start the new treatment plant by the end of 2017
Facilities Plan Components

- Chapter 1 – Introduction
  - Purpose and scope
  - Background

- Chapter 2 – Planning Area Characteristics
  - Existing and future service area
  - Existing and future land use
  - Stormwater management

- Chapter 3 – Existing Facilities
  - RBC and Lagoon plants
  - Collection System
Facilities Plan Components

- Chapter 4 – Wastewater Flows and Loads
  - Historic and current flows and loads
  - Projected flows and loads
- Chapter 5 – Regulatory Requirements
  - NPDES, NEPA, Clean Air Act, Cultural, Fish and Wildlife…
- Chapter 6 – Alternatives Development
  - Treatment process options
  - Effluent discharge options
  - Potential WWTP sites
Facilities Plan Components

- Chapter 7 – Proposed Alternatives

![Map of Proposed Sites](image-url)
Facilities Plan Components

- Chapter 8 – Recommended Alternative
Facilities Plan Components

- Chapter 9 - Financial Analysis
  - Funding Sources
    - Partners – “Navy”
    - Bonds
    - Grants
    - Low-interest Loans
    - Others…
  - Impact on monthly rates
Project Schedule
<table>
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<tr>
<th>Year</th>
<th>Q1</th>
<th>Q2</th>
<th>Q3</th>
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**Project Schedule**

- **Complete and Approve Facilities Plan**
- **Preliminary Design Phase**
- **Final Design Phase**
- **Construction Period**

**Proposed Schedule for Project Completion: Spring 2013**

- **Q1 2013**
  - March 2013 - Submit Plan to Ecology for Approval
  - AGENCY REVIEW PERIOD
  - July 2013 - Ecology Conditional Approval
  - Environmental Review Period
  - April 2013 - Begin Preliminary Design Phase
    - Conceptual Design / Value Engineering (4 mos)
    - Select Final Location (5 mos)
    - Public Open House
    - Develop: Planning Policy (Open to Public)

**Q2 2013**

- Summer 2013 - Council Sets Guiding Policy for Final Location
  - Develop Options
  - Working Group Meeting
  - Charrette
  - Procure Key Process Equipment (4 mos)
  - Develop Procurement Documents
  - Bid Process
  - Contract Award

**Q3 2013**

- Final Plan Approval
  - Final Plan Approval (Q1 - 2014)
  - Final Plan Approval (2 mos)

**Q4 2013**

- Complete and Approve Facilities Plan
- Preliminary Design Phase (End of 2013)

**Q1 2014**

- Start-Up
- Construction Period

**Q2 2014**

- Q2 2014 - Final Plan Approval
  - 1st Quarter

**Q3 2014**

- Q3 2014 - Final Plan Approval
  - Summer 2014

**Q4 2014**

- Q4 2014 - Final Plan Approval
  - Fall 2014

**Q1 2015**

- Q1 2015 - Final Plan Approval
  - Winter 2015

**Q2 2015**

- Q2 2015 - Final Plan Approval
  - Spring 2015

**Q3 2015**

- Q3 2015 - Final Plan Approval
  - Summer 2015

**Q4 2015**

- Q4 2015 - Final Plan Approval
  - Fall 2015

**Q1 2016**

- Q1 2016 - Final Plan Approval
  - Winter 2016

**Q2 2016**

- Q2 2016 - Final Plan Approval
  - Spring 2016

**Q3 2016**

- Q3 2016 - Final Plan Approval
  - Summer 2016

**Q4 2016**

- Q4 2016 - Final Plan Approval
  - Fall 2016

**Q1 2017**

- Q1 2017 - Final Plan Approval
  - Winter 2017

**Q2 2017**

- Q2 2017 - Final Plan Approval
  - Spring 2017

**Q3 2017**

- Q3 2017 - Final Plan Approval
  - Summer 2017

**Q4 2017**

- Q4 2017 - Final Plan Approval
  - Fall 2017

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**Important Dates**

- **Today**: March 19, 2013
- **Conditional Approval**: July 2013
- **Final Approval Q1 - 2014**

**Facilities Plan**

- Project Delivery (2 mos)
Funding

- No additional funds requested to submit the Draft Facilities Plan to DOE.
Draft Facilities Plan

- Where can you view a copy of the facilities plan
  - [www.oakharborcleanwater.org](http://www.oakharborcleanwater.org)
  - City Hall
  - Public Works
  - Public Library

- More information?
  - Joe Stowell, City Engineer
    - 360-279-4520 or jstowell@oakharbor.org
Requested Action

- A motion authorizing staff to submit a Draft Wastewater Facilities Plan to the State of Washington Department of Ecology.
SIX PROPOSED SITES
RESOLUTION 12-05

FIGURE 7.4

CITY OF OAK HARBOR
WASTEWATER FACILITIES PLAN