



# Capital Regional District Core Area Wastewater Management Program

Technical and Community Advisory Committee

May 9, 2007



# Presentation Outline

- The Decision Process
- The Core Area Wastewater Management Program
- The Supporting Report

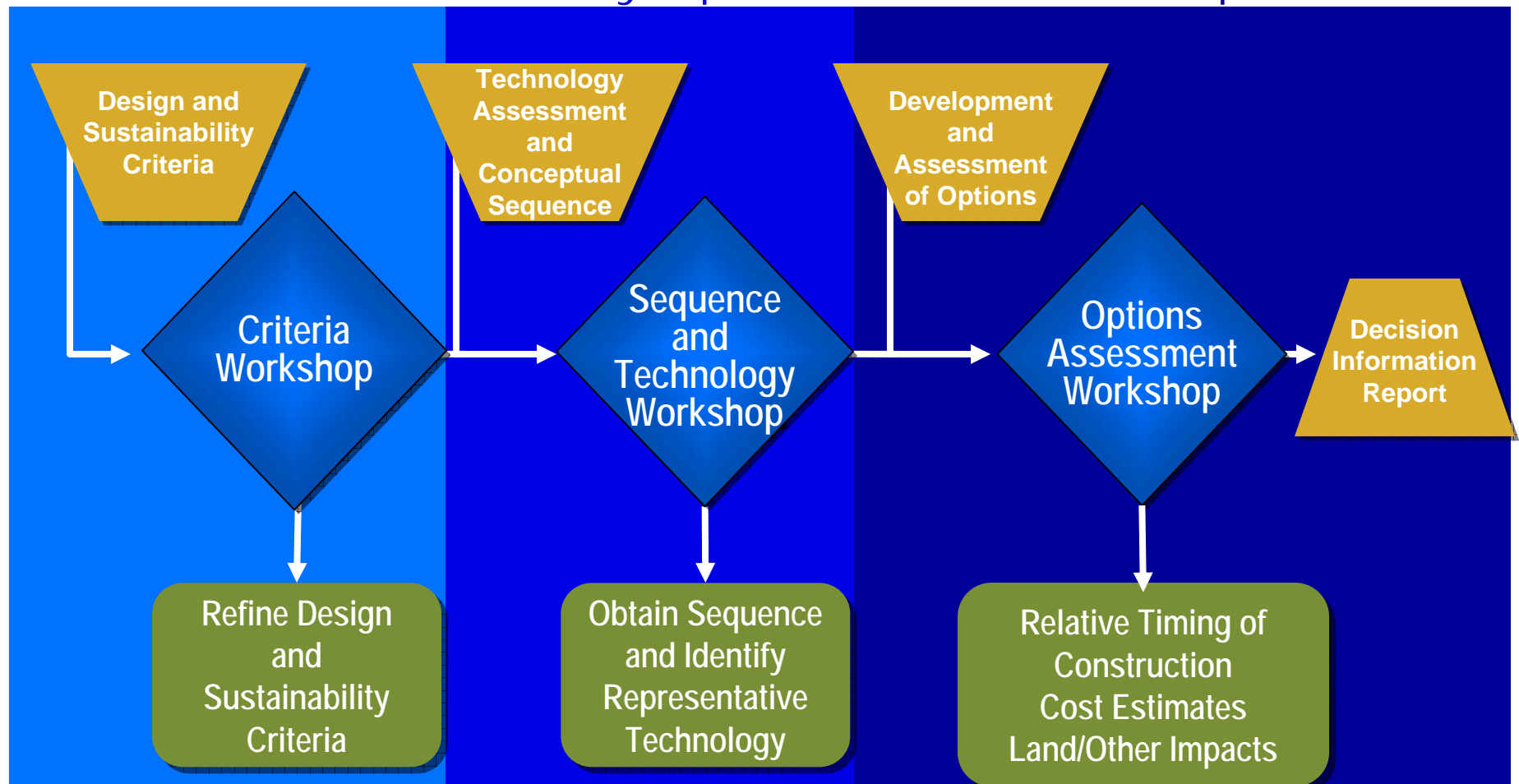


# The Decision Information Process

Define Criteria

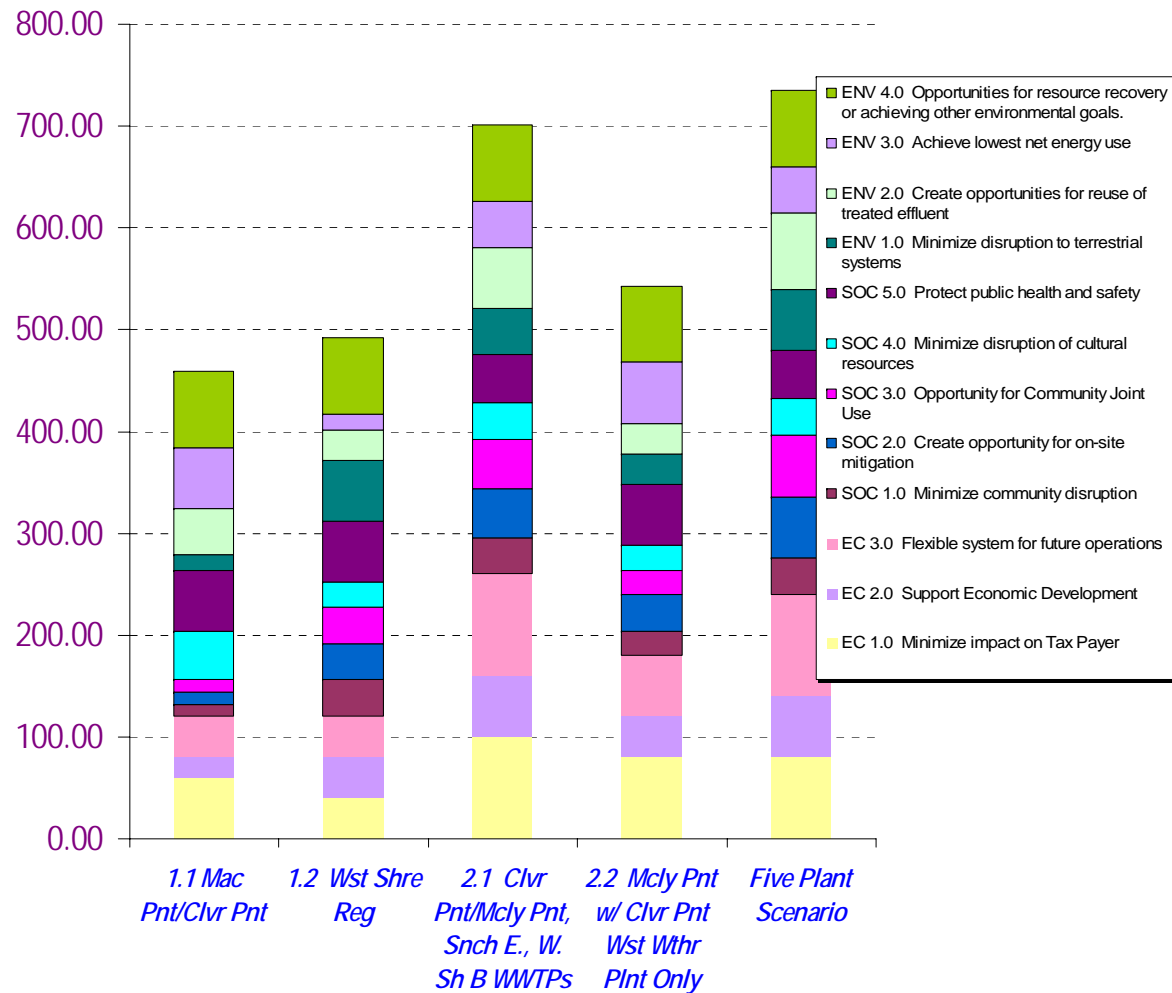
Identify Options

Assess Options



# The TBL Results

## Triple Bottom Line Base Case – All TBL Elements Weighted Equal





## The Basis of the Core Area Wastewater Management Program

*Development patterns, the coastal geography, the existing infrastructure with its wet weather flow issue and opportunities for future reuse all make a more decentralized approach attractive.*

# Core Area Wastewater Management Program

## The Three Key Elements

- The Clover Point plant should be a wet weather facility only.
- A secondary plant at the Macaulay Point site is the most realistic option for a centralized plant.
- There should be two or more decentralized “liquid stream treatment only” plants. Decisions on conveyance and centralized treatment facilities need to be compatible with a distributed wastewater management strategy.



## Core Area

# Wastewater Management Program

## The Response to the Minister – Two Documents

### The Supporting Report

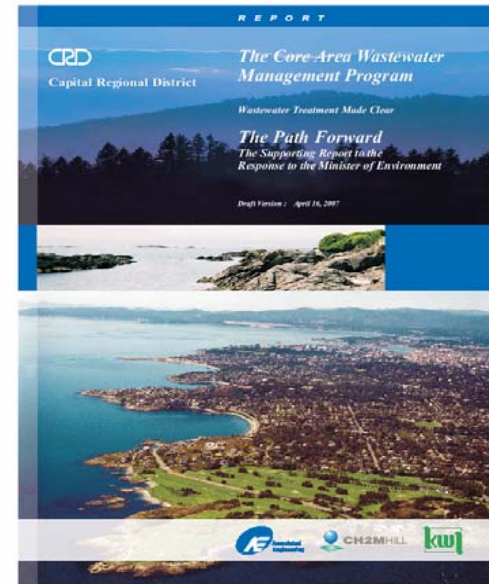
*A reader friendly report documenting the Decision Process and the strategic direction.*

### Proposed Amendment to the LWMP

*A concise technical document with the proposed changes to the LMWP.*

# The Supporting Report

- 17 pgs double-sided
- Aimed at an interested public audience
- Provide enough information to understand the Program and respond the Minister's Request
- Limit the details to retain flexibility during Program Development





# **The Supporting Report Chapter Outline**

- 1 Introduction**
- 2 The Existing Situation**
- 3 The Decision Process**
- 4 The Wastewater Management Strategy**
- 5 The Next Steps**



# The Supporting Report

## Chapter 4 - The Wastewater Management Strategy

- **The Wastewater Management Program**

*Source control, distributed wastewater treatment, water reuse and resource recovery and wet weather flow management*

- ***Macaulay Point WWTP***

*Secondary treatment in the first stage. Emphasize the siting uncertainty*



# The Supporting Report

## Chapter 4 - The Wastewater Management Strategy

- Clover Point Wet Weather Plant

*The site appearance will remain essentially the same*

- Decentralized Water Reclamation Plants

*Liquid stream treatment only. Key element of both the wet weather management program and the reuse / recovery program. Potential for two or more plants.*

# The Supporting Report

## Chapter 4 - The Wastewater Management Strategy

- The Biosolids Management Facility

*Goal is energy recovery, volume reduction and production of a biosolids product. Need to develop the biosolids land application program in concert with the sludge processing technology.*

- The Schedule

*Stage 1 is a ten year program. Details will be in Proposed LWMP Amendment.*



# The Supporting Report

## Chapter 4 - The Wastewater Management Strategy

- Cost Estimates

*\$1.2 billion in inflated dollars*

## **Chapter 5 – The Next Steps Proposed LWMP Amendment**

- Being prepared by CRD Staff
- Presented to the Steering Committee on May 23
- Provides additional details on proposed changes to LWMP
- Expectation is that Minister will accept as an interim step
- LWMP Amendment will be completed in 2008



## **Chapter 5 – The Next Steps Program Development**

**Phase 1: The Decision Process**

**Phase 2: Program Development and Facility  
Planning**

**Phase 3: Design**

**Phase 4: Construction / Commissioning**

**Phase 5: Operation**

# The Path Forward

*The CRD has embraced the opportunity to look ahead and has chosen a path that will address both near term goals as well as provide the flexibility to meet the environmental challenges of the future.*

