



Halifax Harbour Solutions Project Dartmouth Community Update

January 26, 2005



Agenda

- ❖ Introduction – Councillor Becky Kent
- ❖ Harbour Solutions Project – Ted Tam
- ❖ Harbourfront Trails Group – Paul Euloth
- ❖ The Harbour Plan – Roger Wells
- ❖ NSCC – Grant MacDermot
- ❖ Questions/Other Business
- ❖ Adjournment



Dartmouth Community



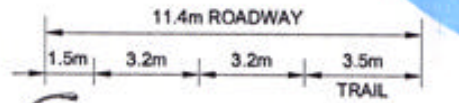
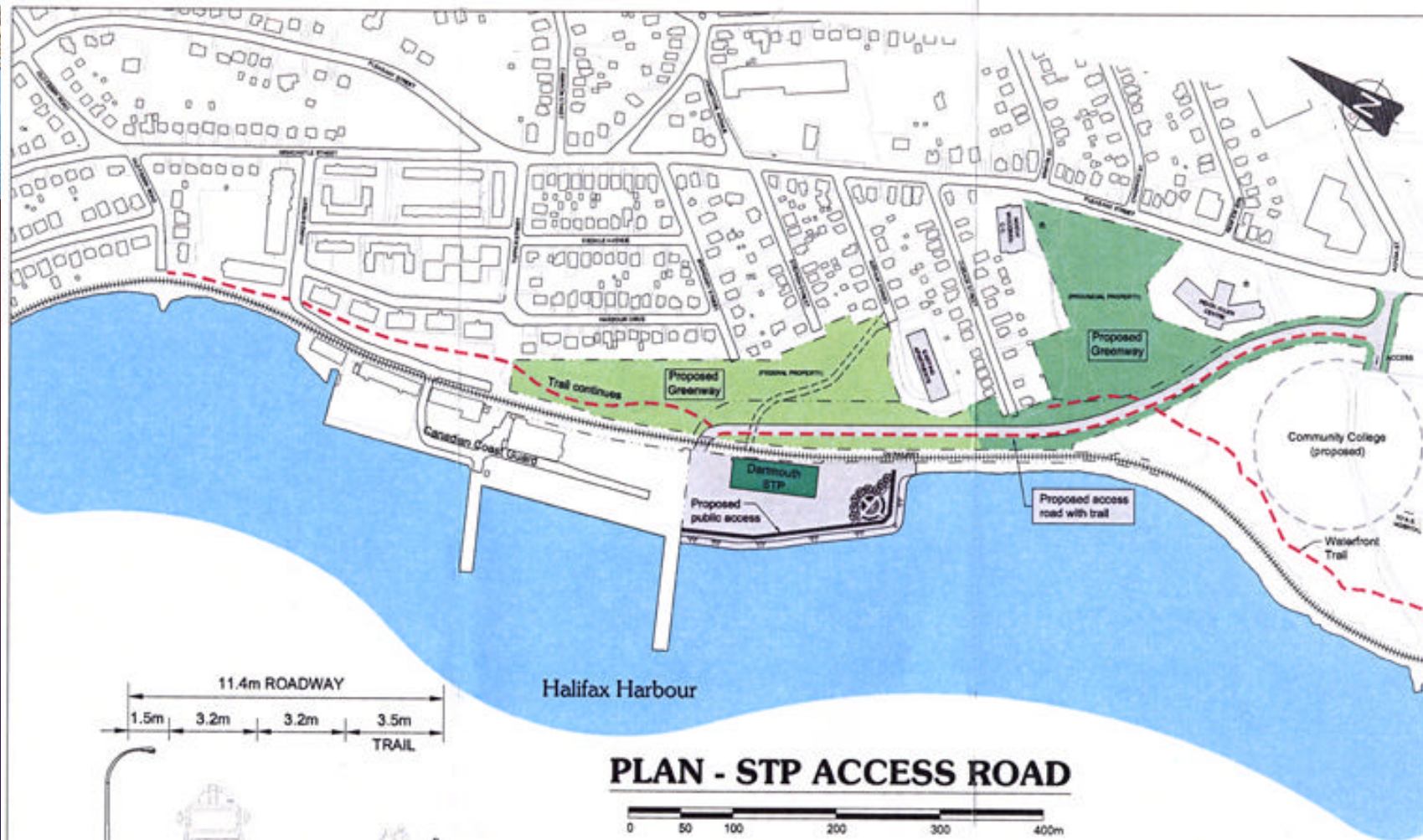
Background

- Dartmouth Wastewater Treatment Plant
 - May, 2000, Dartmouth CLC formed to involve residents in integrating the Dartmouth Wastewater Treatment Plant (WTP) into the community
 - \$1million Community Integration Fund
 - December, 2001, results and recommendations of District 8 Community Recreation Needs Assessment provides foundation for Dartmouth CLC's Community Integration Plan
 - July, 2002, Dartmouth Waterfront Greenway Proposal – trail from Acadia Street to Old Ferry Road – endorsed by HRM Council



Background

- April 2003, HRM conducts survey of Woodside area residents regarding plant access road options.
- Approx. 1250 surveys sent out
 - WTP traffic use residential streets - 16.6% YES, 68.7% NO, 15.6% No response.
 - WTP traffic use proposed access road - 71.2% YES, 13.6% NO, 15% No response.
 - Total respondents = 205(16.6%)



OPTIONS FOR SEPARATION

PROPOSED SECTION

SCALE 1:200

PLAN - STP ACCESS ROAD





Summary: What has been decided

- ❖ Location of the Dartmouth WTP on the south end of the Coast Guard lands
- ❖ Location of access road to WTP off Pleasant at Acadia St.
- ❖ Community Integration Fund – to be spent on the Greenway Plan.



Remaining items for community input/consultation:

- Whether the access road to the plant should remain as a private road.
- The building exterior of the treatment plant and landscaping (within the existing budget)
- Communication of information from the Harbour Solutions Project to the Dartmouth Community



Moving Forward

4 Key Components of Harbour Solutions Project:

- Sewage Collection System, including outfalls, diffusers & access roads
- Wastewater Treatment Plants design and construction
- Operation of Sewage Treatment Plants
- Biosolids (sludge) management



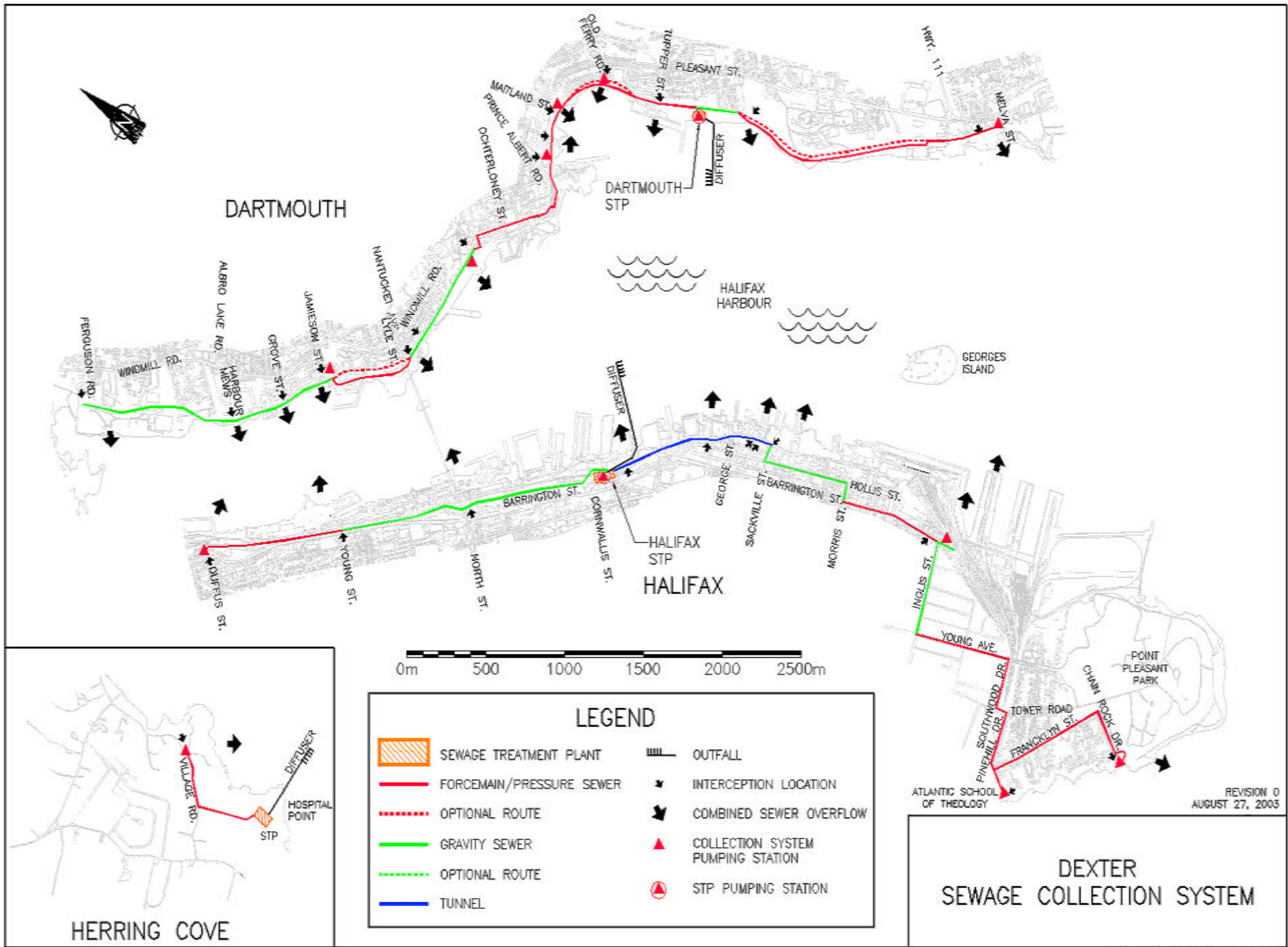
Halifax Harbour Solutions Project

- November, 2003, sewage collection system groundbreaking begins construction
- September 2004, wastewater treatment plants groundbreaking
- November 2004, signed agreements to design, build, and operate a biosolids processing facility and design is underway



Sewage Collection Systems

- Dexter Construction to build, HRM owns & operates
- Collects sewage and carries to WTP's
- Construction underway for Halifax system and Dartmouth system to start Spring 2005
- Expected completion prior to commissioning of Wastewater Treatment plants. (Dartmouth - Sept 2007)





Wastewater Treatment Plants Design & Construction

- September 2004, ground breaking of Halifax wastewater treatment plant
- HRM responsible for effluent quality
- Can accommodate partial biological treatment if required



Wastewater Treatment Plant Sites

3 Wastewater treatment plant sites

- Downtown Halifax at Cornwallis and Upper Water St.
 - Completion summer/early fall 2006
- Dartmouth on land from the Coast Guard base
 - Completion summer 2007
- Hospital Point in Herring Cove
 - Completion summer 2008

An aerial architectural rendering of a campus development project. The central focus is a large, rectangular brick building with a flat roof, surrounded by a paved area with several cars. To the left of the building is a large green lawn. The building is bordered by a low wall with decorative elements. The surrounding area includes a road, a path, and various trees. In the background, there are more buildings and a body of water on the right side.

Dartmouth

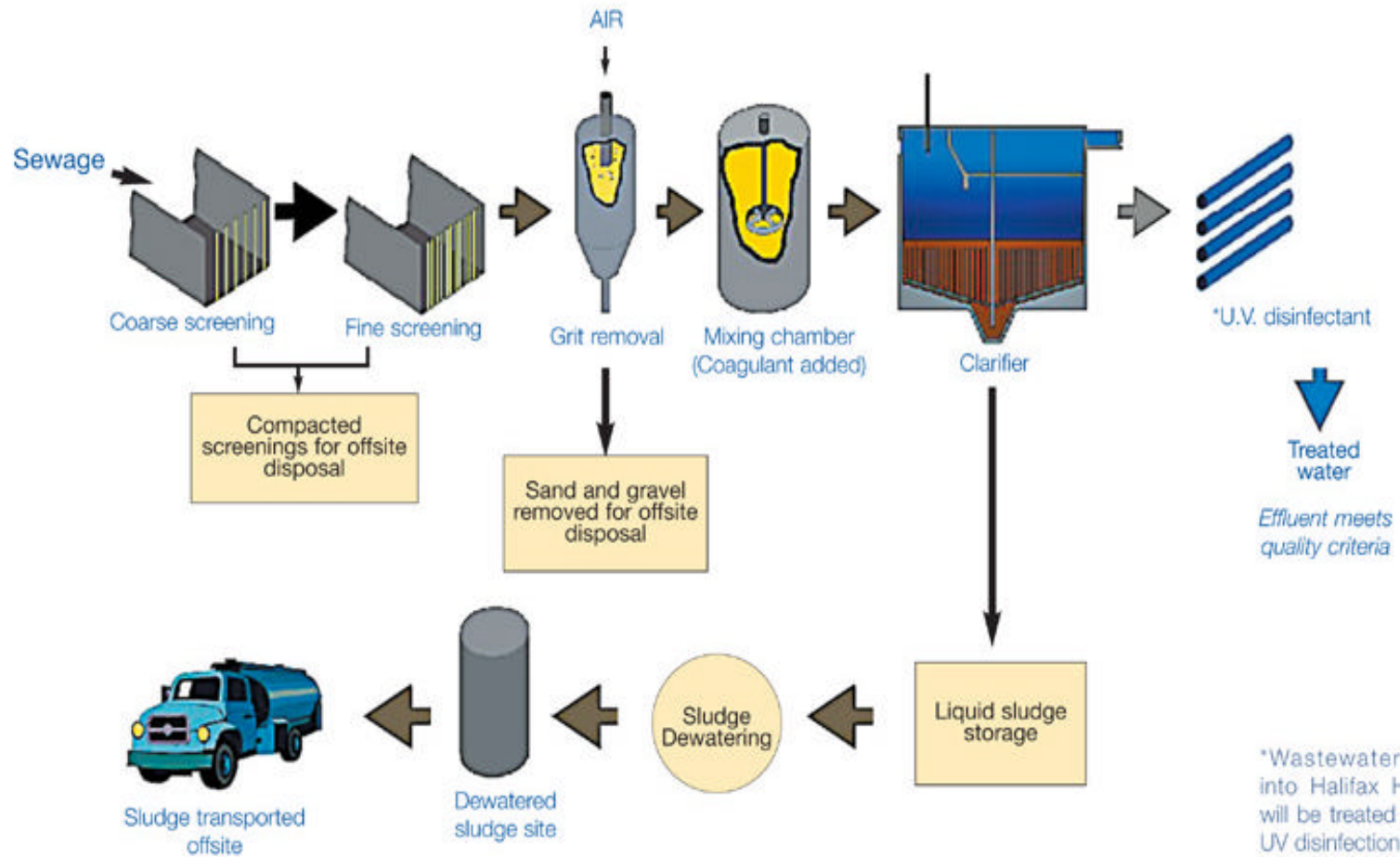
- SCS spring 2005
- access road spring 2005
- WTP spring/summer 2005



Operation of WTPs

- HRM will own and operate
- Advanced primary treatment of sewage
 - Removes 70% of suspended solids in the wastewater
 - High-intensity ultra-violet lights are used to kill bacteria (UV disinfectant) meeting or exceeding all regulatory water quality targets
 - all are designed to blend in visually
 - all are designed to comply with very stringent noise or odour control requirements.

Sewage Treatment Process



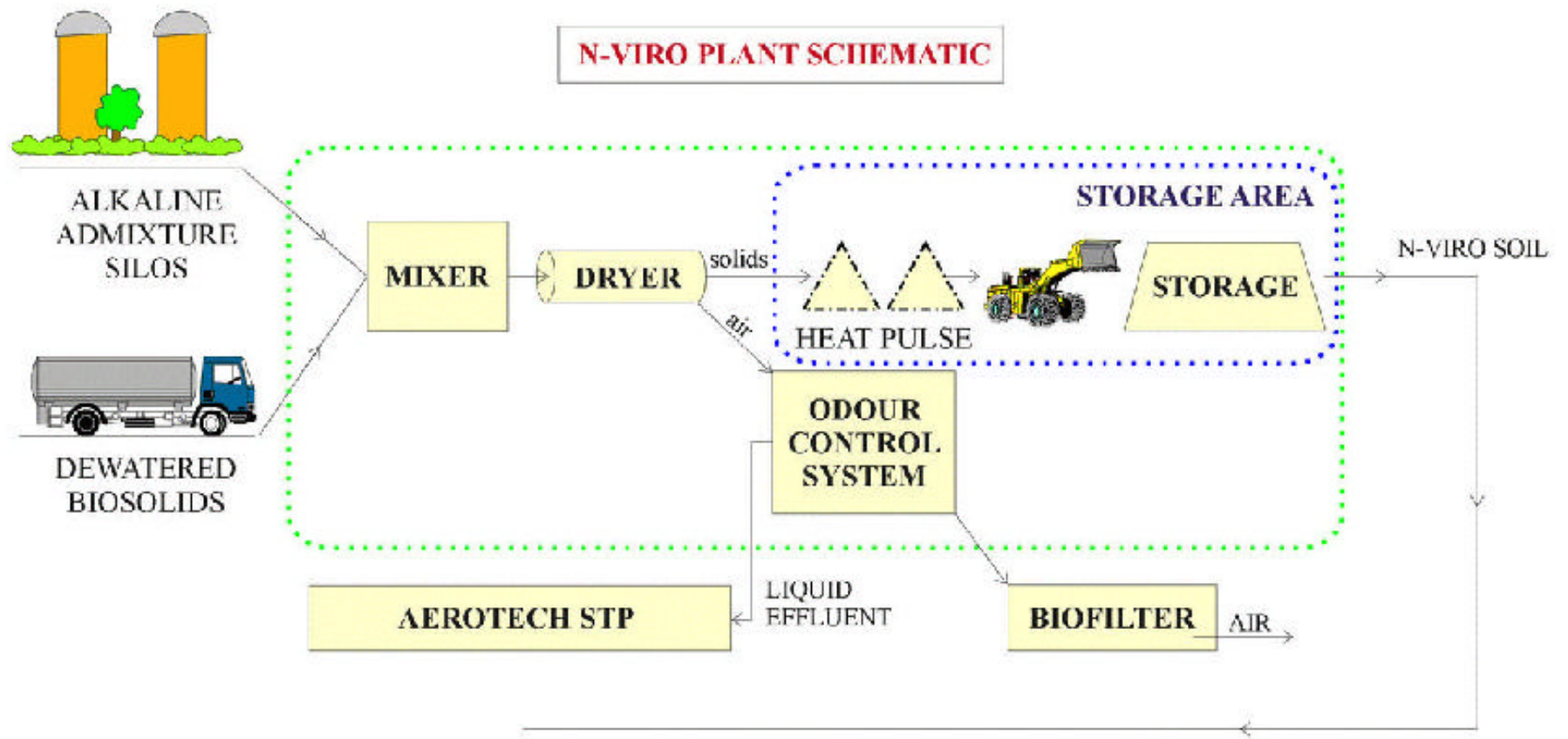
*Wastewater going into Halifax Harbour will be treated using a UV disinfection instead of the more traditional chlorination process.



Biosolids Management

- Biosolid - By product of the sewage treatment
- Dewatered sludge removed from settling tanks and transported to sludge processing facility
- Contracts for design, build, commissioning and operation of Biosolids management Facility were signed (Nov, 2004)

N-VIRO PLANT SCHEMATIC



- BENEFICIAL USES:**
- agriculture, limestone substitute
 - land reclamation
 - topsoil manufacture
 - yard waste composting
 - landfill cover



SALES AND DISTRIBUTION



E.G. AGRICULTURAL APPLICATIONS



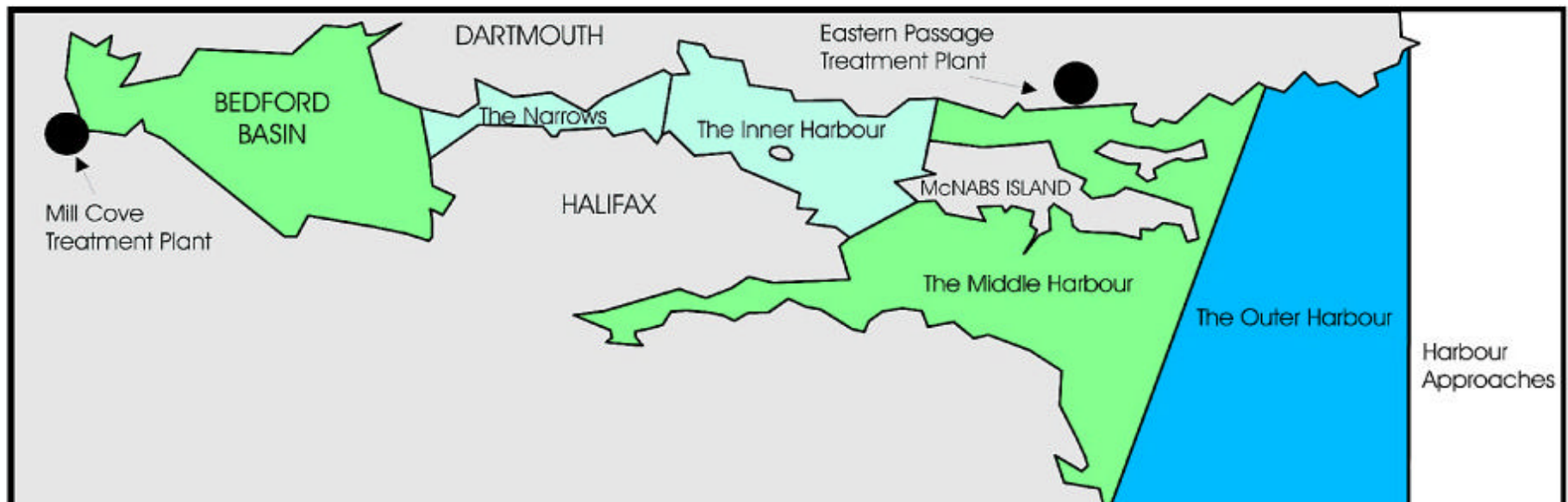
Funding Sources

- Provincial - \$2 million/year for 15 years + \$2 million in land
- Federal - \$60 million
- Municipal funds raised through Pollution Control levy on HRM residents' water bills
- HSP total budget of \$333 million



Long Term Goals of the HSP

- ✓ Greatly improved water quality in the Harbour
- ✓ Increased property values
- ✓ Increased tourism revenues
- ✓ Renewed shellfish harvesting
- ✓ Improved marine ecosystem health
- ✓ Avoided health costs due to water-related illnesses
- ✓ Increased recreational opportunities
- ✓ Overall enhanced quality of life for HRM



CLASS SA



- bathing and contact recreation
- shellfish harvesting for direct human consumption
- fish and wildlife habitat

CLASS SB



- shellfish harvesting for human consumption after depuration
- bathing and other primary contact recreational activities
- fish and wildlife habitat

CLASS SC



- boating and other secondary contact recreational activities
- industrial cooling
- good aesthetic value
- fish and wildlife habitat



Complementary programs to the Harbour Solutions Project

- Harbour Water Quality Monitoring
- Pollution Prevention (P2) Program
- Public Involvement and Information Program (PIIP)



How can you Help ?

- Reducing and/or eliminating the use of household hazardous products
- Not pouring leftover cleaning products, paints, solvents and pesticides down kitchen drains
- Encouraging responsible disposal practices at your place of business
- Being aware of and supporting programs and facilities HRM has undertaken to reduce pollution sources
- Conserve water



How Can You Stay Informed?

- Naturally Green Newsletter
- HRM Website (www.halifax.ca/harboursol)
- E-mail (contactHRM@halifax.ca)
- HRM Call Centre (490-4000)
- Harbour Solutions Project Office (490-4756)
- News Releases
- Public Meetings



Questionnaire



Remaining Items that Require Community Input/Consultation

- Whether the access road to the plant should remain as a private road.
- The building exterior of the treatment plant and landscaping (within the existing budget)
- Communication of information from the Harbour Solutions Project to the Dartmouth Community.



Who Should Assume these Responsibilities?

- ✓ Councillor Becky Kent - District 8 (Woodside - Eastern Passage) and the Harbour East Community Council.
- ✓ A newly elected Dartmouth Community Liaison Committee.