City of Greater Sudbury Biosolids Project

Project Overview and Recommended Procurement Approach
Presentation to City Council
January 19th, 2011

City of Greater Sudbury Biosolids Project
Introduction

- As Council is aware, the City is proceeding with the development of a new biosolids processing facility to be located on the site of the Sudbury Wastewater Treatment Plant

Waste activated sludge

Biosolids

- Biosolids processing represents a new activity for the City and a number of unique and significant risks are associated with the project
  - Short timeframe for completion
  - No existing experience within the City
  - Proprietary technologies
  - Life cycle and operational risks

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- In recognition of these risks, the current direction from City Council has been to proceed with the project under a design-build approach, with the consideration of options for private-sector involvement in the operation, maintenance and financing of the facility

- As work on the project has progressed, a preferred procurement approach has been developed
  - Eliminates the optional aspects of the procurement
  - Arrives at the highest value for the City

- The purpose of the presentation is to provide Council with the information necessary to make an informed decision concerning the choice of procurement model

- Presentation has been divided into three separate sections, with questions following each stage
  - Overview of the biosolids project
  - Overview of alternative procurement models
  - Recommended procurement approach

- Full project team is available to address questions from Council
  - KPMG
  - RV Anderson Associates Limited
  - City staff

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Section I – Overview of the Biosolids Project

Overview of the Biosolids Project

Sludge Management in Greater Sudbury

- What is waste activated sludge?
  - Residual solid material from aerobic wastewater treatment processes that has not undergone treatment to destroy pathogens
  - City currently produces an average of 430 m^3 of sludge per day (157,000 m^3 of sludge per year)
- At the present time, sludge is collected from the City's wastewater treatment plants and disposed of at Vale's tailing areas