

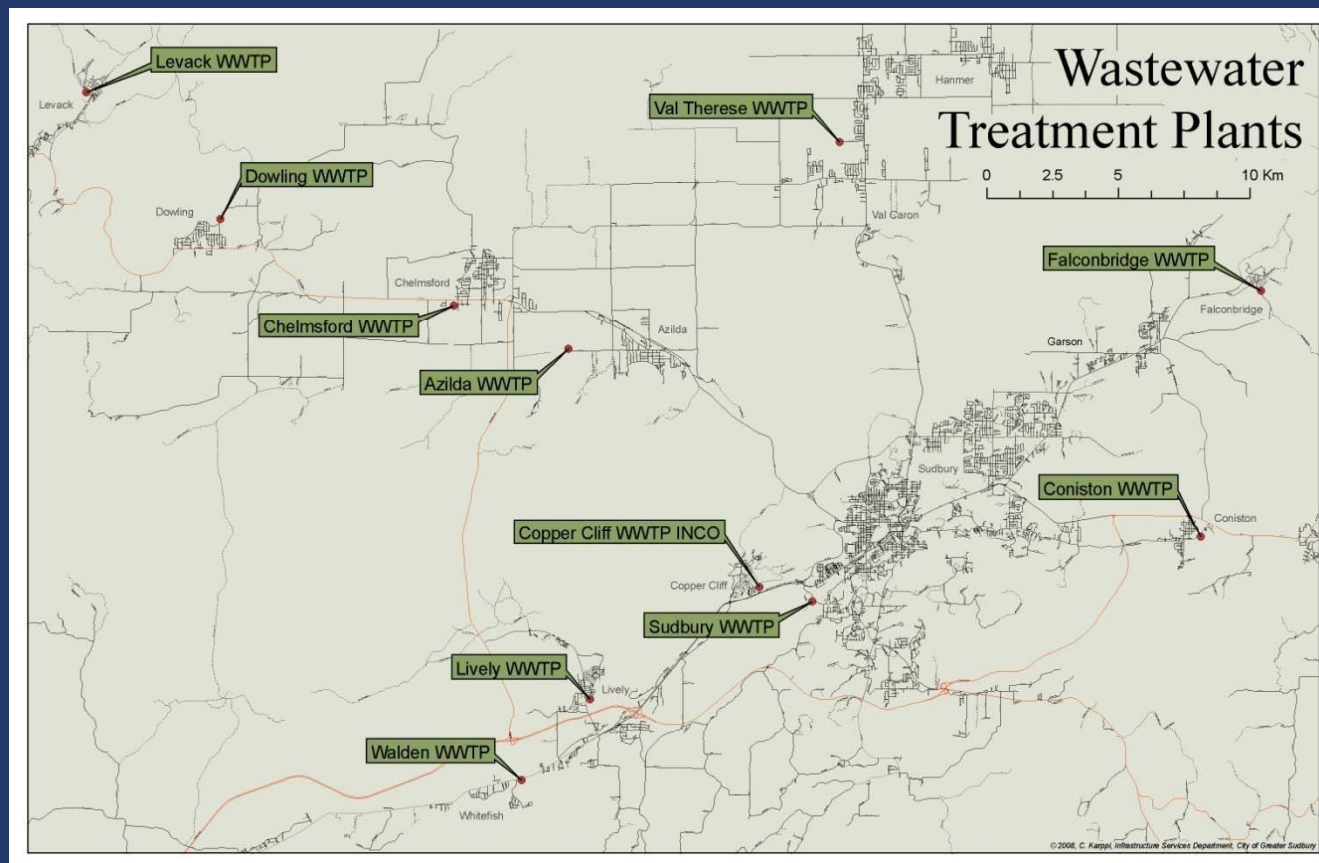


# Bio-solids Management Update





# Bio-solids Management Update





## Bio-solids Management Update



- Legacy Sludge Disposal Method
- Odour Issues – 2005, 2007
- Alternate Solutions Required



# Bio-solids Management Update



- Evaluate Long Term Treatment & Disposal Options
- Bio-solids Master Plan EA Report
- Evaluation Criteria



# Bio-solids Management Update



## EA Study

- Planning Alternatives
- Technical Alternatives
- Results



# Bio-solids Management Update



## EA Study Key Recommendations

- 1. Construct a centralized Biosolids Treatment facility at the Sudbury WWTP;**
- 2. Incorporate technologies such as ATTAD, NViro, and Shwing Bioset that produce a 'beneficial use' product as part of the treatment solution;**
- 3. Develop a Nutrient Management Strategy**



# Bio-solids Management Update



- Notice of Completion posted February 11, 2009
- 30 Day public comment period
- Summary report available

## Notice of Completion Biosolids Management Master Plan

City of Greater Sudbury  
Class Environmental Assessment

The City of Greater Sudbury has completed its review of sludge management alternatives and options to develop and implement a long-term Biosolids Management Program for sustainable treatment and disposal/end-use of its sewage sludge.

### Background

"Waste activated sludge" is a normal byproduct of the wastewater treatment process. Historically, the municipality has been using the Vale Inco tailings ponds in the Lively area for approximately 30 years as a disposal site for its sewage sludge. Recurrent episodes of foul odour originating from this disposal site have emphasized the importance of developing new practices to manage the disposal of waste activated sludge and to protect the quality of life of area residents.

### Notice of Completion

The Biosolids Management Master Plan is recommending the City consider:

- construction of a centralized Biosolids Management Facility at the Sudbury Wastewater Treatment Plant on Kelly Lake Road,
- incorporation of such technologies as ATTAD™, N. Viro™ and Schwing Bioset™ to produce a Class A Biosolids/soil-like product,
- exploration of end use disposal options to determine the safest and most economically beneficial option,
- and review of options for short-term and long term storage.

The City has planned this project as a Master Plan Study while satisfying Schedule B activities under the Municipal Class Environmental Assessment (Class EA). A document summary report has been completed and by this Notice is being placed in the public record for review. Subject to comments received as a result of this Notice and the receipt of necessary approvals, the City intends to proceed with the construction of this project.

A summary report of the project documentation is available for review at the City of Greater Sudbury Engineering Department, 3rd Floor, Tom Davies Square, 200 Brady Street, Sudbury and at the offices of Dennis Consultants, 436 Westmount Avenue, Sudbury.

### Deadline for Comments

Written comments or concerns must be submitted within 30 calendar days from the date of this notice to the Office of the City Clerk, Box 5000, Stn A, 2nd Floor, Tom Davies Square, 200 Brady Street, Sudbury, ON P3A 5P3.

If concerns regarding the project cannot be resolved through discussion with the City, a person may request that the Minister of the Environment issue an order for the project to comply with Part II of the Environmental Assessment Act, referred to as a Part II Order, which addresses individual Environmental Assessments. Requests must be received by March 13, 2009 at the following address: Minister of the Environment, 135 St. Clair Avenue W., 10th Floor, Toronto, ON, M4V 1P5. A copy of the request must also be sent to the City Clerk.

If no request is received by March 13, 2009, the City intends to proceed with the selection of an alternative as outlined in the project document summary report.

This notice issued February 11, 2009.

### For more information:

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sscott@rvanderson.com

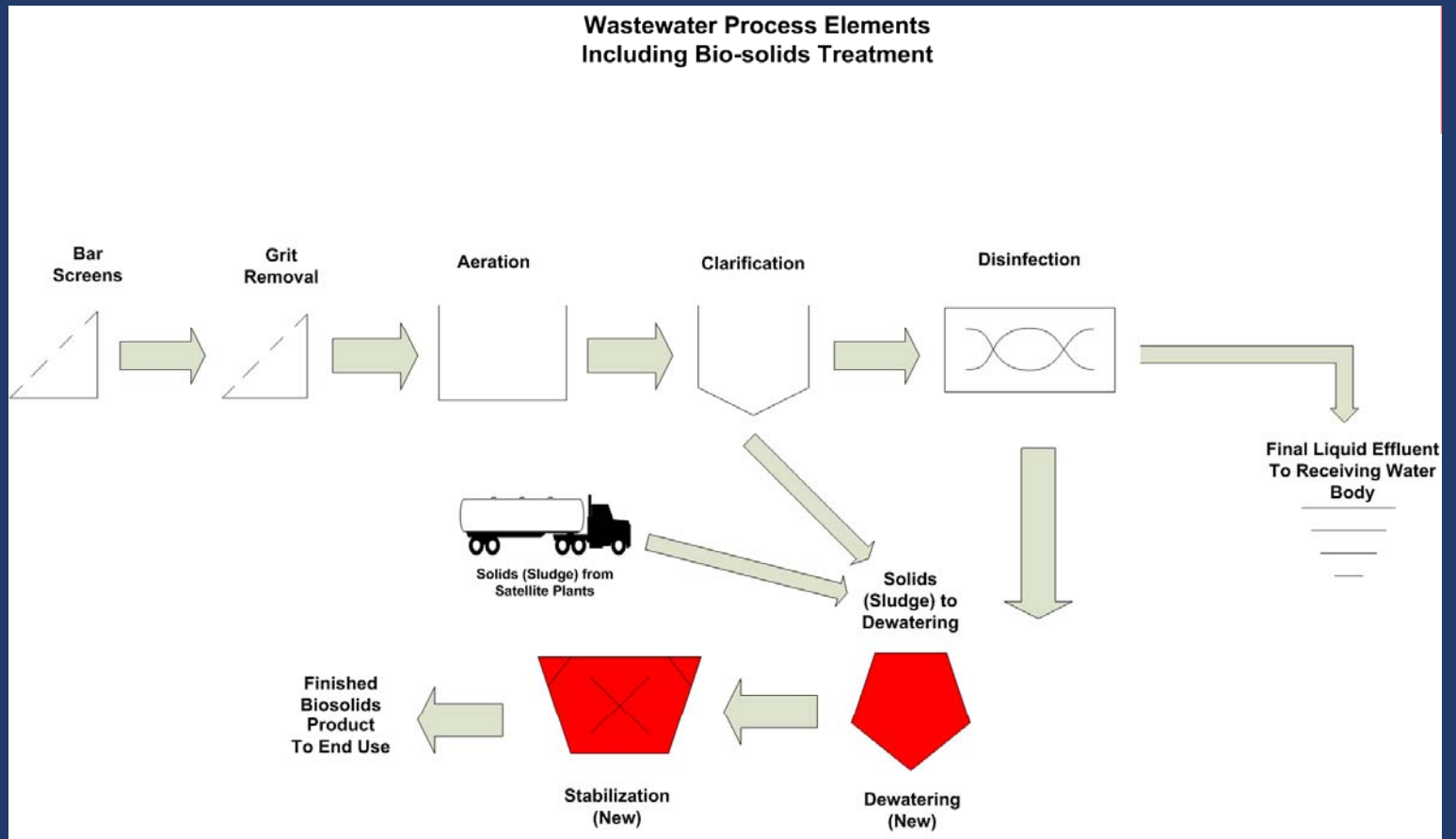




# Bio-solids Management Update



Wastewater Process Elements Including Bio-solids Treatment







# Bio-solids Management Update

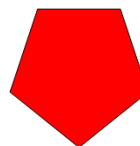


## Wastewater Process Elements Including Bio-solids Treatment

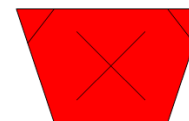
### Modifications to Existing Plant & Processes (New)

- Sludge Transfer Station
- Sludge Tank Covers
- Recycle Stream Pump Station
- Plant Upgrades – yard piping, electrical etc

### Dewatering (New)



### Stabilization (New)



**A**

**+**

**B**

**+**

**C**

**= Up to \$40M**



# Bio-solids Management Update



- Federal / provincial funding;
- Potential market value of beneficial use end product;
- Alternative construction models involving private sector partners;
- Design – Build – Operate (DBO)



# Bio-solids Management Update



Next steps:

- Hire project technical consultant;
- Hire project financial consultant;
- Convene Technical Steering Committee



# Bio-solids Management Update



- Commence final selection of solution treatment technology;
- Council Authorization to proceed;
- Develop project execution plan and final detailed schedule



# Bio-solids Management Update



Questions?

