

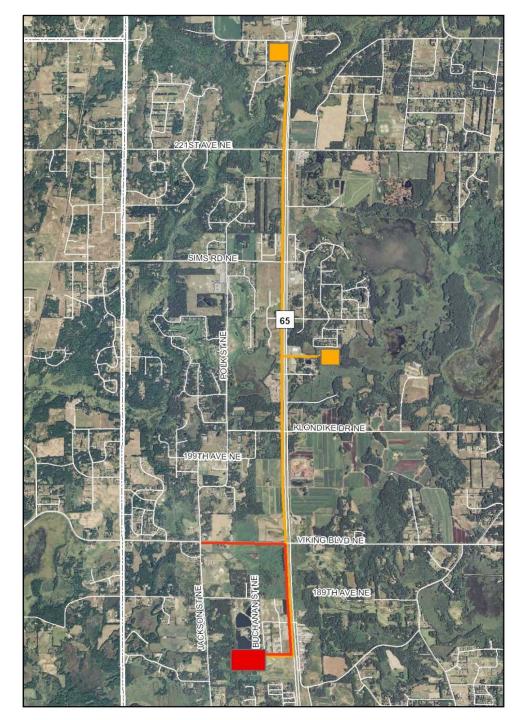
### Business Item 2012-16:

Authorization to Award and Execute
Construction Contract 11P060 for East Bethel
Water Reclamation Plant and Land
Application Basins

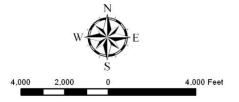
**Presented to the Environment Committee** 

January 10, 2012

Bryce Pickart, Assistant General Manager Technical Services



# **East Bethel Facilities**



Interceptor Alignment

--- Reclaimed Water Alignment

Water Reclamation Plant Site

Land Application Site





### **East Bethel Water Reclamation Plant**

- Initial capacity 0.41 MGD
- Raw sewage pumping
- Grit removal and fine screening
- Activated sludge with biological nutrient removal
- Membrane filtration



# East Bethel Water Reclamation Plant (cont.)

- Ultraviolet disinfection
- Effluent pumping to land application basins
- Sludge hauling to Fridley Liquid Waste Receiving Station

## East Bethel Water Reclamation Plant





# East Bethel Water Reclamation Plant

- Two remote land application basins
  - Subsurface effluent distribution
  - Capacity of each basin 0.41mgd



### **Effluent Requirements**

| Parameter               | Effluent Requirement       |
|-------------------------|----------------------------|
| CBOD5                   | 25 mg/l                    |
| TSS                     | 25 mg/l                    |
| Total Nitrogen          | 10 mg/l                    |
| <b>Total Phosphorus</b> | 1.0 mg/l                   |
| Disinfection            | < 2.2 total coliform/100ml |



#### **Bid Results**

- Four bids received ranging in costs from \$13,056,600 to \$14,136,000
- Low bid offered by Rice Lake Construction Group
- Engineer's estimate \$14,204,500



#### **Project Schedule**

- Notice to proceed February 2012
- Substantial Completion and ready for service – August 2013
- Contractor process performance verification – August 2013 – August 2015
- Final Completion August 2015