



Request for City Council Committee Action From the Department of Public Works

Date: March 23, 2004
To: Honorable Sandra Colvin Roy, Chair Transportation & Public Works Committee
Referral to: Honorable Barb Johnson, Chair Ways & Means Committee

Subject: **Contract with Black & Veatch for the Fridley Water Works Plant Chemical Alternatives Assessment**

Recommendation:

Authorize to enter into a contract with Black and Veatch Corporation for professional engineering consulting services to perform an assessment of the risk and alternatives for chemical disinfectant use at the Fridley water plant. Project amount is not to exceed \$75,000. Funds are available within the existing project budget (Water 7400/950/9515/C5200024).

Previous Directives:

- Authorized distribution of a Request for Proposals for the Fridley Water Works Plant Chemical Alternatives Assessment on December 29, 2003.

Prepared by: Annika Van Gelder, P.E. Engineering Services, 661-4975

Approved by:

Klara A. Fabry, P.E., City Engineer, Director of Public Works

Presenters: Adam Kramer, P.E., Assistant Director of Public Works / Director of Water Services Division

Financial Impact (Check those that apply)

No financial impact - or - Action is within current department budget.
(If checked, go directly to Background/Supporting Information)

Action requires an appropriation increase to the Capital Budget

Action requires an appropriation increase to the Operating Budget

Action provides increased revenue for appropriation increase

Action requires use of contingency or reserves

Other financial impact (Explain):

Request provided to the Budget Office when provided to the Committee Coordinator

Background/Supporting Information:

The Fridley Filtration Plant (FFP) employs chemical disinfection as a key element in providing high quality water to Minneapolis citizens. From 2005 - 2008, the City is planning to construct a

membrane filtration facility at the Fridley location. In order to minimize production shutdown and to ensure all systems are compatible, improvements to the chemical disinfectant system need to be made in conjunction with the membrane plant construction.

The project will perform a comparative risk analysis and determine planning-level probable costs of the following scenarios:

- Maintaining the existing chemical system as-is.
- Protecting (and enclosing) the existing chemical system and entrance.
- Converting to a smaller chemical container facility either by
 - converting the existing chemical storage and feed area at the FFP or,
 - building a new facility (integrated/coordinated with the planned new Fridley Membrane Filtration Plant).
- Conversion to an alternate chemical (integrated/coordinated with the planned new Fridley Membrane Filtration Plant).

The risk evaluation will result in a defensible comparison of risk between the scenarios and understanding of City's risk and liabilities as a chemical user in Twin Cities Metro area. Upon evaluation of risk and an estimation of cost for the above scenarios, the proper course of future action will be selected. Future improvements will be incorporated with the membrane plant design and construction if appropriate.

Current Request

Public Works is requesting authorization to hire Black & Veatch for engineering consulting and planning services to perform an assessment of the risk and alternatives for chemical disinfectant use at the Fridley treatment plant complex.

This project has followed the normal City review process, including review by the Permanent Review Committee.