



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

**Date:** January 4, 2005  
**To:** Honorable Sandra Colvin Roy, Chair Transportation & Public Works Committee  
**Referral to:** Honorable Barbara Johnson, Chair Ways & Means Committee

**Subject: Amendment No. 1 to contract with HDR Engineering for the Fridley Membrane Filtration Plant Implementation Support Services**

### Recommendation:

1. Authorize amendment to the contract with HDR Engineering, Inc., increasing the contract by \$ 551,646 up to a total contract price of \$ 2,087,815 for scope modifications that include a second performance testing program and re-bidding of the membrane equipment procurement contracts. Funds are available within the project budget (Water 7400/ 950/ 9515/ C5200024). Contract No. C-20523.

### Previous Directives:

- On October 24, 2003, Council authorized distribution of a Request for Proposals (RFP) for the specialized implementation support services for the design, construction and start up of the Minneapolis Water Works Fridley Membrane Filtration Program.
- On February 27, 2004, Council authorized entering a contract with HDR Engineering, Inc for the Fridley Membrane Filtration Plant Implementation Support Services for an amount not to exceed \$1,477,371.
- On May 14, 2004, Council authorized a correction to the contract with HDR Engineering, Inc. by adding \$58,798.00 for "Additional Services" as defined in the Request for Proposals for a total contract amount not to exceed \$1,536,169.

**Prepared by:** Shahin Rezanian, Engineering Services, 661-4910

**Approved by:**

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

**Presenters:** Adam J. Kramer, P.E., Director of Water Services

### 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 City of Minneapolis Capital Improvement Plan includes building a new 95 million-gallon per day (mgd) Water Treatment Plant using ultrafiltration membranes as the treatment technology. This proposed plant, called the Fridley Membrane Filtration Plant (FMFP) will be connected to the existing Fridley Filtration Plant (FFP) which was mostly constructed in 1925.

Previous phases of the project included similar steps of procurement of membrane equipment and construction of the Membrane Filtration Plant at Columbia Heights (CHMFP).

The current phase of work is the procurement of ultrafiltration membrane equipment for FMFP at Fridley. This phase includes about 9 months of performance testing to evaluate membrane capacity, operational efficiency, life-cycle costs, and design parameters of each manufacturer's membrane system.

Future phases in the overall plan includes design and construction of the FMFP building system, and various improvements of the water pretreatment system. The primary objective of the overall plan is to provide physical removal of pathogenic microorganisms and improve the quality of water delivered to the citizens of Minneapolis.

## **Current Request**

In September 2003, a previous effort of Performance Testing began. During that effort, some unexpected circumstances occurred that impaired the integrity of the bidding and testing work, including a foreign object appearing in one of the pilot-scale test units. That Performance Testing and bidding project were cancelled, and a new set of bidding documents were prepared.

The current recommendation will authorize an extension of the contract with HDR for: 1) preparation of a revised set of bidding documents, 2) a second bidding effort, and 3) services to complete the consultants role in the second performance testing effort.

The amendment will include the removal of one scope item from this contract, to allow that task to be completed by City employees. (i.e. Preparing a Request for Proposals (RFP) for a future engineering firm for design and construction phase services for FMFP.)

To maintain the integrity of the second performance testing program, the scope of the professional services was significantly expanded to have a HDR employee at the pilot-scale testing site during all working hours. The first program included only periodic visits by the consultant. Further, changes to the bidding document included tightened security procedures for the vendors representatives while working at our site.

cc: Dale A. Folen, P.E., Professional Engineer, Project Manager  
David Ybarra, Assistant Director, Purchasing