



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

Date: October 14, 2003
To: Honorable Sandra Colvin Roy, Chair Transportation & Public Works Committee
Referral to: Honorable Barb Johnson, Chair Ways & Means Committee

Subject: **Authorize to issue an RFP for the Fridley Membrane Filtration Plant Implementation Support Services**

Recommendation:

Authorize distribution of a Request For Proposals for the implementation support services for the Minneapolis Water Works Fridley Membrane Filtration Program. Funds are available within the project budget (Water 7400/950/9515/C5200024).

Previous Directives:

- Approved an amendment to Contract No. 9078 to increase the compensation payable to HDR Engineering, Inc. to provide implementation support services for the first phase of the Ultrafiltration Project in Columbia Heights.

Prepared by: Shahin Rezania, Engineering Services, 661-4910

Approved by:

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

Presenters: Adam Kramer, P.E., Director of Water 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 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.

Public Works, with the technical assistance of consultants, conducted a treatment feasibility study for the entire water supply and treatment system. The team recommended the construction of two new membrane filtration plants, one at Columbia Heights Filtration Plant (CHFP) site, and the second near the existing Fridley Filtration Plant (FFP) site. The project is being implemented in phases:

Phase One was performance testing and procurement of membrane equipment for the Membrane Filtration Plant at Columbia Heights (CHMFP).

Phase Two is the design and construction of the CHMFP building and piping system to house and operate the ultrafiltration equipment, which is underway.

Phase Three is the procurement of 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.

Phase Four (future) in the overall plan includes design and construction of the FMFP building system. The overall plan also includes evaluation of treatment enhancements to optimize membrane life span such as the addition of a granular activated carbon treatment system. The primary objective of the overall plan is to meet future regulations by providing physical removal of pathogenic microorganisms.

Current Request

Public Works is soliciting proposals for engineering services for specialized implementation support services for the design, construction, and start up of the Fridley Membrane Filtration Plant (FMFP) as a part of Phase Four. This is similar to services performed under Phase One and Phase Two at the Columbia Heights Membrane Filtration Plant.

This will follow the normal City review process, including review by the Permanent Review Committee.