



City of Appleton

100 North Appleton Street
Appleton, WI 54911-4799
www.appleton.org

Meeting Agenda - Final Utilities Committee

Tuesday, April 9, 2019

5:00 PM

Council Chambers, 6th Floor

1. Call meeting to order

2. Roll call of membership

3. Approval of minutes from previous meeting

[19-0396](#) Approval of the March 12, 2019 Utilities Committee Meeting Minutes.

Attachments: [March 12, 2019 Utilities Committee Meeting Minutes.pdf](#)

4. **Public Hearings/Apearances**

5. **Action Items**

[19-0445](#) Approve single source and award of Raw Water Line Contaminated Materials Contract to OMNNI Associates, Inc. in an amount not to exceed \$35,900.

Attachments: [Contaminated Materails Raw Water Line Award.pdf](#)

[19-0469](#) Anticipated award for Unit F-19, Sanitary and Storm Sewer Cleaning & Televising (bids opened Monday, April 8, 2019).

[19-0473](#) Award Phase 1 Engineering Services Contract for the Lake Intake Shorewell Project to McMahon Associates in the amount of \$411,000 with a 10% contingency of \$41,000 and a project cost not to exceed \$452,000.

Attachments: [2019 Engineering Lake Intake Project 04-04-19.pdf](#)

6. **Information Items**

[19-0398](#) Monthly Reports for February 2019
- Water Distribution and Meter Team Monthly Report

Attachments: [Water Main Breaks February 2019.pdf](#)

7. Adjournment

Notice is hereby given that a quorum of the Common Council may be present during this meeting, although no Council action will be taken.

Reasonable Accommodations for Persons with Disabilities will be made upon Request and if Feasible.

For questions on the agenda, contact Chris Shaw at 920-832-5945 or Paula Vandehey at 920-832-6474.



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Meeting Minutes - Final Utilities Committee

Tuesday, March 12, 2019

5:00 PM

Council Chambers, 6th Floor

1. Call meeting to order

Chairperson Baranowski called the Utilities Committee meeting to order at 5:00 p.m.

2. Roll call of membership

Present: 5 - Baranowski, Meltzer, Reed, Dvorachek and Raasch

3. Approval of minutes from previous meeting

[19-0317](#)

Approval of the February 12, 2019 Utilities Committee Meeting Minutes.

Attachments: [February 12, 2019 Utilities Committee Meeting Minutes.pdf](#)

**Meltzer moved, seconded by Raasch, that the Minutes be approved. Roll Call.
Motion carried by the following vote:**

Aye: 5 - Baranowski, Meltzer, Reed, Dvorachek and Raasch

[19-0318](#)

Approval of the March 6, 2019 Special Utilities Committee Meeting Minutes.

Attachments: [March 6, 2019 Special Utilities Committee Meeting Minutes.pdf](#)

**Meltzer moved, seconded by Raasch, that the Minutes be approved. Roll Call.
Motion carried by the following vote:**

Aye: 5 - Baranowski, Meltzer, Reed, Dvorachek and Raasch

4. Public Hearings/Appearances

5. Action Items

[19-0319](#)

Approve 2018 Annual Stormwater Report to the Wisconsin Department of Natural Resources.

Attachments: [2018 Annual Report to UC with attachments.pdf](#)

Meltzer moved, seconded by Reed, that the Report Action Item be recommended for approval. Roll Call. Motion carried by the following vote:

Aye: 5 - Baranowski, Meltzer, Reed, Dvorachek and Raasch

[19-0320](#)

Award of 2019H Consulting Services Contract to NES Ecological Services for Wetland Delineations in an amount not to exceed \$30,000.

Attachments: [2019H Wetland Delineations Award Memo Final 03-04-2019.pdf](#)

Meltzer moved, seconded by Dvorachek, that the Report Action Item be recommended for approval. Roll Call. Motion carried by the following vote:

Aye: 5 - Baranowski, Meltzer, Reed, Dvorachek and Raasch

6. Information Items

[19-0321](#)

Leona Pond Update on DNR Municipal Flood Control Grant Application

This item was discussed.

[19-0323](#)

Monthly Reports for January 2019
- Water Distribution and Meter Team Monthly Report

Attachments: [Water Main Breaks January 2019.pdf](#)

This item was reviewed.

7. Adjournment

Dvorachek moved, seconded by Reed, that the Utilities Committee meeting be adjourned at 5:21 p.m. Roll Call. Motion carried by the following vote:

Aye: 5 - Baranowski, Meltzer, Reed, Dvorachek and Raasch

Department of Public Works – Engineering Division

MEMO

TO: Utilities Committee

FROM: Chris Shaw, Director of Utilities
Paula Vandehey, Director of Public Works

DATE: April 3, 2019

RE: Approve single source and award of Raw Water Line Contaminated Materials Contract to OMNNI Associates, Inc. in an amount not to exceed \$35,900.

The Department of Utilities and Department of Public Works recommend to single source and award the Raw Water Line Contaminated Materials Contract to OMNNI Associates, Inc. in an amount not to exceed \$35,900.

Staff is recommending OMNNI because they have already been awarded the geotechnical contract for the Raw Water Line based on an RFP process and they have also been awarded the DPW contract for Materials Testing and Contaminated Materials, also based on an RFP process. Their environmental services stand out among consultants and efficiencies can be achieved by combining the borings for geotechnical and environmental analysis.

The scope of work will include the following:

- Soil screening during geotechnical investigation and analyzing for VOC's, PAH's and RCRA metals
- Soil Screening of the Fulcer property and analyzing for VOC's, PAH's and RCRA metals
- Prepare a Post-Closure Modification request to WDNR summarizing the analytical information and construction activities
- Prepare and submit Outagamie County landfill application
- Prepare and submit DNR "Development at Historic Fill Sites and Licensed Landfills" application
- Collect and analyze one water sample at the start of dewatering
- Prepare post-construction documents for WDNR submittal
- Project Management

Once the results of the analytical testing are received, it is possible that the WDNR requirements may change. The proposed budget includes a contingency to accommodate some modifications. Any significant changes requiring a contract amendment will be brought to the Utilities Committee and Common Council for approval prior to any additional work.



"...meeting community needs...enhancing quality of life."

Department of Utilities
Water Treatment Facility
2281 Manitowoc Road
Menasha, WI
920-832-5945 tel.
920-832-5949 fax

TO: Chairperson Ed Baranowski and Members of the Utilities Committee

FROM: Chris Shaw, Utilities Director

DATE: April 4, 2019

RE: *Award Phase I Engineering Services Contract for the Lake Intake Shorewell Project to McMahon in the Amount of \$411,000 with a 10% contingency of \$41,000 and a project cost not to exceed \$452,000*

BACKGROUND:

The Appleton Water Treatment Facility (AWTF) draws and treats raw water from Lake Winnebago through the Raw Water Lake Station. Once pretreated, the water is pumped to the AWTF. The intent of this project is to address reliability and redundancy in raw water treatment.

The lake intake and shorewell were constructed in 1968. The intakes' configuration and building materials are prone to icing events that have stopped raw water. The lake station traveling screen removes large objects from the raw water intake such as logs, fish, and other debris. This project will provide for a replacement screen and a screenings conveyance system for wastes to be collected. This project will also see upgrades to the incoming high voltage power systems, chemical system upgrades, as well as necessary building systems (e.g., process water, roof, HVAC, etc.).

Project planning to date has consisted of conditions assessments and alternatives analyses for both existing equipment and structures as well as proposed improvements to the lake station and intake. This engineering effort was conducted by McMahon Associates with the aid of Appleton Water Treatment (AWTF) staff.

McMahon has made available the report which summarizes their efforts and also serves as a planning document for three individual project phases. The first phase is engineering services being requested in this memo. Phase II will consist of providing a raw water transmission line from the lake station to the AWTF. The engineering effort for this project is being led by the City's Engineering Department. Phase III will provide for an intake out into Lake Winnebago. This project phase is planned for construction after 2020.

ENGINEERING SERVICES:

The Utilities Committee approved awarding preliminary engineering services to McMahon on May 17, 2018. As part of the initial approval there was a recommendation made for a

conditional approval of the current request of Phase I engineering services that takes into account the foundational project work McMahon has provided as part of preliminary engineering. McMahon Associates has performed well during the preliminary engineering phase. As a result, city staff including AWTF Operations Joe Myer, PR&FMD Director Dean Gazza, Utilities Deputy Director Chris Stempa and myself have completed negotiations for Phase I engineering services. These services include modifications to the existing intake and improvements to the lake station.

Engineering Services:

1. Modifications to the Existing Intake
 - a. Include remote controlled hydraulic valve on riser pipe
 - b. Replace intake grate and chemical dispersion system
 - c. Introduce new chemical and sampling lines
2. Pumping Station Site
 - a. Remove well and sewage holding tank
 - b. Correct settling conditions around facility
 - c. Pavement and road replacement
 - d. 15" storm sewer replacement
 - e. Remediate treatment screen gantry
3. Building Envelope
 - a. Tuck pointing brick
 - b. Replace awning and signage
 - c. Paint and caulk interior
4. HVAC System
 - a. System Replacement
5. Plumbing
 - a. Construct new well system
6. Electrical and Controls
 - a. Replace Motor Control Center (MCC) and Variable Frequency Drives (VFDs)
 - b. Replace control panel components
 - c. Upgrade telemetry system
 - d. Modification to Programmable Logic Controller (PLC) and Supervisory Control and Data Acquisition (SCADA) systems.
 - e. Bring up electrical system to electrical code requirements
7. Process Operations
 - a. Replace 11' traveling screen
 - b. New dewatering equipment for screenings
 - c. New 8' screen
 - d. Replace (2) potassium permanganate systems

SCOPE OF SERVICES:

Phase I engineering services would include a traditional project scope. Design services would include engineered drawings and specifications with reviews at 30% and 90%. Refined construction estimates and bidding documents would be the deliverables of design. Other

services include: regulatory agency approvals, bidding services, construction administration services, shop drawing review and construction management services.

RECOMMEDATION:

Award Phase 1 Engineering Services Contract for the Lake Intake Shorewell Project to McMahon Associates in the Amount of \$411,000 with a 10% contingency of \$41,000 and a project cost not to exceed \$452,000. Questions regarding this project should be directed to Chris Shaw at ph: 920-997-4200.

WATER MAIN BREAK/JOINT LEAK REPORT FEBRUARY 2019

YEARLY WATER MAIN BREAK COMPARISON

<u>FEB 18</u>	<u>FEB 19</u>	<u>YTD 18</u>	<u>YTD 19</u>
7	11	24	23

LOCATION	WORK ORDER	TYPE OF PIPE	SIZE	YEAR	BREAK	ESTIMATED DURATION	ESTIMATED WATER LOSS IN GALLONS	DOLLAR VALUE OF WATER REVENUE LOSS**
1432 S. Memorial Drive	251796	CIP	8"	1928	4" crack	2 hours	1,925,000	\$11,704.00
Matthias Street / Forest Street	252149	CIP	8"	1963	1/128" crack	8 hours	16,801	\$102.15
1517 W. Prospect Avenue	252316	CIP	6"	pre 1930	1/64" crack	43 days	2,369,421	\$14,406.08
1425 N. Drew Street	252356	CIP	6"	1920	1/8" crack	12 hours	225,537	\$1,371.26
900 E. Glendale Avenue	252667	CIP	8"	1952	3" hole	5 hours	407,716	\$2,478.91
1631 S. Lynndale Drive	252861	CIP	8"	1961	1/32" crack	7 days	1,053,496	\$6,405.26
1600 W. Prospect Avenue	252887	CIP	8"	1957	1/8" crack	8 hours	214,713	\$1,305.46
1613 S. Carver Lane	252905	CIP	6"	1952	2" hole	4 hours	178,927	\$1,087.88

**Water Loss is calculated at the residential rate of \$6.08 per 1000 gallons.

WATER MAIN BREAK/JOINT LEAK REPORT FEBRUARY 2019

LOCATION	WORK ORDER	TYPE OF PIPE	SIZE	YEAR	BREAK	ESTIMATED DURATION	ESTIMATED WATER LOSS IN GALLONS	DOLLAR VALUE OF WATER REVENUE LOSS**
1437 E. Harriet Street	252986	CIP	6"	1937	1/16" crack	12 hours	135,928	\$826.44
727 W. Weiland Avenue	252998	CIP	8"	1969	1/64" crack	56 days	2,565,694	\$15,599.42
Locust Street / Franklin Street	253146	CIP	6"	1948	1/8" crack	1 day	394,453	\$2,398.27
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**Water Loss is calculated at the residential rate of \$6.08 per 1000 gallons.