



City of Appleton

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

Meeting Agenda - Final Utilities Committee

Tuesday, August 9, 2016

5:30 PM

Council Chambers, 6th Floor

1. Call meeting to order

2. Roll call of membership

3. Approval of minutes from previous meeting

[16-1265](#) Approval of the July 26, 2016 Utilities Committee Meeting minutes.

Attachments: [July 26, 2016 Utilities Committee Meeting Minutes.pdf](#)

4. **Public Hearings/Apearances**

5. **Action Items**

[16-1266](#) Amend 2015C Design Contract fro Northland Pond with Brown and Caldwell by an amount not to exceed \$17,880.

Attachments: [Northland Pond 2015C Design Amend 1.pdf](#)

[16-1270](#) Preliminary Resolution 5-P-16 for Sanitary Lateral at 2619 N. Richmond Street be adopted and refer the matter to Finance Committee to determine the assessment rate.

Attachments: [Preliminary Resolution 5-P-16.pdf](#)

6. **Information Items**

[16-1268](#) Biosolids Compost Consulting Project Update.

[16-1269](#) Regulatory Upgrade and Process Improvement Update.

Attachments: [Water Quality Goal Comparison 1998 and 2013.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 Utilities Committee

Tuesday, July 26, 2016

5:30 PM

Council Chambers, 6th Floor

1. Call meeting to order

Chairperson Dannecker called the Utilities Committee meeting to order at 5:30 p.m.

2. Roll call of membership

Present: 4 - Dannecker, Meltzer, Reed and Jirschele

Excused: 1 - Baranowski

3. Approval of minutes from previous meeting

[16-1160](#)

Approval of the July 12, 2016 Utilities Committee Meeting Minutes.

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

Aye: 4 - Dannecker, Meltzer, Reed and Jirschele

Excused: 1 - Baranowski

4. Public Hearings/Appearances

5. Action Items

[16-1161](#)

Award 2016H Contract for Coop Road Pond Modeling and Design Assistance to AECOM in an amount not to exceed \$38,700.

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

Aye: 4 - Dannecker, Meltzer, Reed and Jirschele

Excused: 1 - Baranowski

[16-1162](#)

Amend 2016B contract for Arbutus Park Stormwater Lift Station Reconstruction Design with Strand Associates in an amount not to exceed \$4,400.

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

Aye: 4 - Dannecker, Meltzer, Reed and Jirschele

Excused: 1 - Baranowski

[16-1171](#)

Award of TOC Instrument Purchase to OI Analytical for \$23,829.50 with a 10% contingency of \$2,392.95 for a total not to exceed cost of \$26,212.45.

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

Aye: 4 - Dannecker, Meltzer, Reed and Jirschele

Excused: 1 - Baranowski

6. Information Items

[16-1163](#)

Department of Utilities Mid-Year Performance Reviews.

Reviewed.

[16-1164](#)

Department of Public Works Mid-Year Performance Reviews.

Reviewed.

[16-1165](#)

Monthly Reports for April, May, June 2016

- Wastewater Treatment Plant Synopsis and Receiving Station Revenue Report
- Water Treatment Plant Synopsis
- Water Distribution and Meter Team Monthly Report - June

Reviewed.

7. Adjournment

Jirschele moved, seconded by Reed, that the Utilities Committee meeting be adjourned at 5:47 p.m. Roll Call. Motion carried by the following vote:

Aye: 4 - Dannecker, Meltzer, Reed and Jirschele

Excused: 1 - Baranowski

Department of Public Works – Engineering Division

MEMO

TO: Utilities Committee

FROM: Paula Vandehey, Director of Public Works
Pete Neuberger, Staff Engineer

DATE: August 3, 2016

RE: Amend 2015C Design Contract for Northland Pond with Brown and Caldwell by an amount not to exceed \$17,880.

The Department of Public Works requests approval to amend the 2015C design contract for Northland Pond with Brown and Caldwell by an amount not to exceed \$17,880. If the amendment is approved, the total contract amount will be \$171,965.

The proposed Northland Pond is located within the Town of Grand Chute, and is therefore subject to the Outagamie County Zoning Ordinance. In May of 2016, Outagamie County informed DPW staff that the pond would be subject to airport zoning standards because it is located within 5 miles of the Outagamie County airport. Subsequent discussions resulted in a determination in July 2016 by the FAA consultant at US Fish and Wildlife that goose deterrent measures and monitoring would be required.

As proposed, the amended design scope of services includes the following tasks:

- Incorporate design of a goose deterrent grid into project plans and specifications
- Develop a pond Operation and Maintenance Plan that includes a section for monitoring and maintenance of goose deterrent grid performance (The O&M plan for the lift station will be in a separate 2017 contract)

Therefore the Department of Public Works requests approval to amend the 2015C design contract for Northland Pond with Brown and Caldwell by an amount not to exceed \$17,880.

RESOLUTION 5-P-16

PRELIMINARY RESOLUTION DECLARING INTENT TO EXERCISE SPECIAL ASSESSMENT
POWERS UNDER SECTION 66.0703 (7) (a), WISCONSIN STATUTES OF 2011-2012.

RESOLVED, by the Common Council of the City of Appleton, Wisconsin:

1. The Common Council hereby declares its intention to exercise its powers under Section 66.0703, Wisconsin Statutes, to levy special assessments upon property within the following described area for benefits conferred upon such property by improvement of the following area.

SANITARY LATERAL

2619 N. Richmond Street

2. The total amount assessed against such property shall not exceed the total cost of the improvements. The Common Council determines that such improvements shall be made under the police power and the amount assessed against each parcel shall be on a cost per front foot, area or unit cost basis.

3. The assessments against any parcel may be paid to the Finance Department on receipt of Special Assessment Notice by one of the following:

- a. In cash, or if entered on the Tax Roll;
- b. One installment, if the assessment is \$1000 or less;
- c. In five equal annual installments, if the assessment is greater than \$1000;

Deferred payments shall bear an interest at the rate of 6.25% per annum on the unpaid balance.

4. The Finance Committee is directed to prepare a report consisting of:

- a. Preliminary plans and specifications for said improvements.
- b. An estimate of the entire cost of the proposed street improvements.
- c. A schedule of proposed assessments showing the properties that are benefited by the work or improvements.

Upon completing such report, the Finance Committee is directed to file a copy thereof in the office of the City Clerk for public inspection.

5. Upon receiving the report of the Finance Committee, the City Clerk is directed to give notice of a public hearing on such report as specified in Section 66.0703 (7) (a), Wisconsin Statutes. The hearing shall be held at the Council Chambers in the City Hall at a time set by the City Clerk in accordance with Section 66.0703 (7) (a), Wisconsin Statutes.

Adopted: August 17, 2016

S/ TIMOTHY M. HANNA (Mayor)

Attest: KAMI L. LYNCH, (City Clerk)



Water Quality Goal Comparison 1998 and 2013

| <u>Water Quality Goal</u> | <u>1998</u> | <u>Potential Revision</u> | <u>Comments</u> |
|---------------------------------------|----------------------|---------------------------|---|
| Disinfection | | | |
| Turbidity | <0.1 NTU | None | Common goal for granular filter plants. |
| Giardia | ≥3 logs | ≥5 logs | With UV this is achievable |
| Virus | ≥4 logs | ≥5 logs | UV will add less than 1 log inactivation, so the remaining 3 logs (after 2 log credit for conventional treatment) must be achieved through chlorine contact. Need to balance DBP goals. |
| Cryptosporidium | ≥5 logs | ≥6 logs | With UV this is achievable (UV designed for 3 log and conventional treatment provides 3 log) |
| Regrowth (Distribution System) | | | |
| BDOC | <300 $\mu\text{g/l}$ | NA | No measurements available. Suggestion is to develop a baseline of data first before discussing a goal. |
| AOC | <500 $\mu\text{g/l}$ | NA | Same as above. |
| Chloramine Decay rate | ≤ current | ≤ current | AWTF is collecting data in distribution system for nitrification parameters and should continue. |
| Ammonia | None set | 0.2 to 0.4 mg/l | Lower is better for regrowth and nitrification |

| | | | |
|-----------------------------------|------------------------------|---------------------------------------|--|
| Chloramine residual leaving plant | None set | 2.0 to 2.2 mg/l. >1.0 at all times | |
| Fluoride | None set | 0.7 to 1.0 mg/l | Lower end of the range is preferred |
| DBPs | | | |
| THMs | <40 ug/l | <40 ug/l | This is half the regulatory level. Achievable with UV, but if UV is off line more chlorine contact time is needed. |
| HAAs | <30 ug/l | <30 ug/l | Same as above |
| TOC | 30% removal | 40% to 50% removal | Lime softening can achieve this most times, but depends on raw water quality. |
| Bromate | < 8 ug/l | < 8 ug/l | This is 80% of regulations. Less applicable unless future ozone is installed. |
| Corrosion Control | | | |
| pH | 9.2 | 8.7 to 8.9 | Lower pH is better for disinfection and THM DBPs |
| Alkalinity | 40 mg/l as CaCO ₃ | 20 to 90 as CaCO ₃ | Need to factor in pH, alkalinity and calcium into a calcium carbonate precipitation potential goal instead of individual goals. Higher alkalinity is generally better for distribution system water stability and corrosion. |
| Hardness | 85 mg/l as CaCO ₃ | 50 to 150 mg/l as CaCO ₃ | Depends on raw water quality. |
| Phosphate | None | 0.6 to 0.8 mg/l | Helps with lead/copper corrosion control. |
| Taste and Odor | | | |
| | < 3 TON | < 3 TON | PAC dose is the main method to control taste and odor. |