

**JOURNAL OF COMMISSION WORK SESSION**  
**August 21, 2012**

City Commission Work Session

Mayor Winters presiding

**CALL TO ORDER:** 5:30 p.m.

**ROLL CALL:** City Commissioners present: Michael J. Winters, Bill Bronson, Fred Burow, Mary Jolley, and Robert Jones.

**STAFF PRESENT:** City Manager; Deputy City Manager; Director of Public Works; Deputy Director of Park and Recreation; Fire Chief; Police Captain; City Engineer; Water Plant Supervisor; and the City Clerk Administrative Secretary.

**1. WASTEWATER TREATMENT PLANT IMPROVEMENTS UPDATE**

Public Works Director Jim Rearden introduced Craig Caprara, HDR Engineering, Missoula, and Travis Meyer, Morrison-Maierle Engineering, Helena, the consultant team for the Wastewater Treatment Plant improvements project.

The consultant team provided a PowerPoint presentation on the Wastewater Treatment Plant Disinfection and Ammonia Removal Improvements project.

<p><b>Agenda</b></p> <ul style="list-style-type: none"><li>• Project Review/Update</li><li>• Background</li><li>• Disinfection<ul style="list-style-type: none"><li>• Major Equipment Pre-selection</li></ul></li><li>• Ammonia/Metals<ul style="list-style-type: none"><li>• Major Equipment Pre-selection</li></ul></li><li>• Project Schedule</li></ul>	<p><b>Project Review/Update</b></p> <ul style="list-style-type: none"><li>• Background<ul style="list-style-type: none"><li>– MPDES Permit Renewal – December, 2010</li><li>– Contract for Engineering Services - August 16, 2011</li><li>– Permit Required Upgrades Summary – March 6, 2012<ul style="list-style-type: none"><li>• Disinfection Evaluation</li><li>• Ammonia and Metals Removal</li></ul></li><li>– Amendment for Final Design - March 20, 2012</li><li>– Equipment Pre-selection June 20, 2012</li></ul></li></ul>
<p><b>Disinfection Evaluation</b></p> <p>Study Objectives:</p> <ul style="list-style-type: none"><li>• Investigate available disinfection technologies and recommend a technology for implementation.</li><li>• Define the basis and scope for detailed design.</li><li>• Describe the recommended facility to be constructed and the project cost.</li></ul>	<p><b>Disinfection Evaluation</b></p> <ul style="list-style-type: none"><li>• Alternative Prescreening<ul style="list-style-type: none"><li>– Use existing gas chlorine system and add de-chlorination.</li><li>– Liquid hypochlorite and bisulfite.</li><li>– Onsite generation of hypochlorite.</li><li>– Solid chlorine.</li><li>– Ultraviolet.</li><li>– Ozone.</li></ul></li></ul>

## Disinfection Evaluation

### • Cost Comparison

Disinfection Alternative	Construction Cost	Annual O&M Cost	Net Present Worth 20-year, 5 percent interest	Percentage Comparison
Liquid Chlorination and De-chlorination	\$1,079,000	\$550,790	\$7,940,000	157 percent
UV Disinfection	\$3,400,000	\$134,000	\$5,070,000	100 percent

## Project Review/Update

### • UV Disinfection Equipment Pre-selection

– Received proposals on June 20, 2012

– Four proposals received

- Trojan Technologies
- Xylem - WEDECO
- Calgon Carbon Corp.
- Ozonia North America

– Proposals reviewed on set criteria including:

- System Reliability and Experience
- Adherence to the proposal requirements
- Capital and O&M Cost

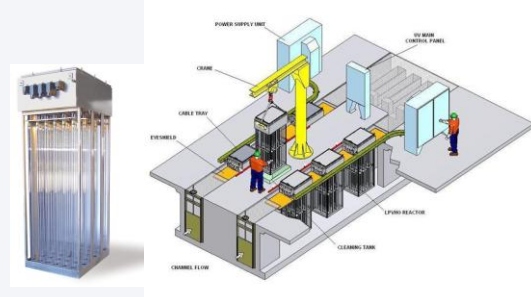
## Project Review/Update

### • UV Disinfection Equipment Pre-selection

Description	Trojan	Wedeco	Calgon	Ozonia
Total Capital Cost	\$1,150,800	\$889,701	\$1,044,453	\$746,400
Annual O&M Cost	\$110,249	\$127,373	\$112,474	\$93,189
20 Year Present Value of O&M Costs	\$1,373,698	\$1,587,064	\$1,401,428	\$1,161,133
20 Year Net Present Worth	\$2,524,498	\$2,476,765	\$2,445,881	\$1,907,533

**Ozonia recommended at a total cost for equipment and services of \$664,482**

## UV System Evaluation



## Project Review/Update

### • LPA Turbo Blower Equipment Pre-selection

– Received proposals on June 20, 2012

– Four proposals received

- Aerzen USA
- APG - Neuros
- Sulzer
- Piller

– Proposals reviewed on point system (100 points total)

- 20-Year Net Present Worth
- Experience
- Technical Service and Support
- Adherence to the proposal requirements

## Project Review/Update

Description	Aerzen	APG-Neuros	Sulzer	Piller
Total Equipment and Services Cost	\$955,625	\$1,121,950	\$842,550	\$930,425
Total Consumables Cost	\$112,407	\$115,897	\$154,843	\$130,340
Total Cost of Power	\$4,596,105	\$4,328,716	\$4,515,441	\$4,346,598
<b>Total Present Worth Cost</b>	<b>\$5,664,137</b>	<b>\$5,566,563</b>	<b>\$5,512,835</b>	<b>\$5,407,363</b>
Percent Higher	4.7%	2.9%	2.0%	-

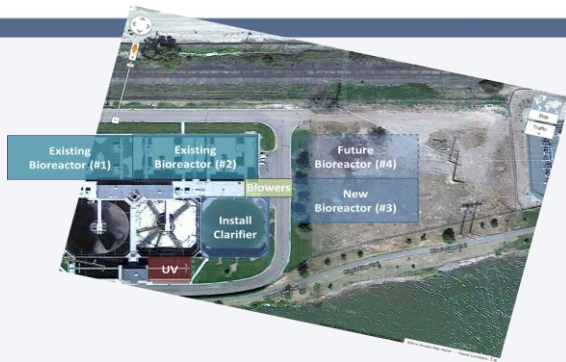
**APG - Neuros recommended at a total cost for equipment and services of \$1,028,500**

## Project Review/Update

Description	Category Weight	Sub-Category Weight	Aerzen	APG-Neuros	Sulzer	Piller
<b>1. Equipment, Services, and O&amp;M cost</b>	50					
Present worth cost		50	47	48	49	50
<b>2. Experience</b>	25					
# US Installations		10	3	10	2	1
Applicable project installations		10	5	6	10	1
Reference Quality		5	5	4	5	1
<b>3. Technical service and support</b>	15					
Team experience and qualifications		5	3	5	2	1
Location of service centers		5	1	5	1	1
Scope of service and support		5	4	5	3	1
<b>4. Proposal and adherence to RFP guidelines</b>	10					
Proposal appearance/organization		5	3	5	2	1
Adherence to guidelines		5	4	5	4	1
<b>Total Points</b>	<b>100</b>	<b>100</b>	<b>75</b>	<b>93</b>	<b>78</b>	<b>58</b>



## Site Layout



## Project Review/Update

- Schedule
  - Completed Major Equipment Pre-selection
  - Pre-design nearing completion
  - Preliminary Process and Site Layout Complete
  - Collecting River Data for Mixing Zone Study
    - Submission of major modification to permit this fall
    - Will request mixing zone for metals
  - Moving forward with final design
    1. Design Completion - December, 2012
  - Bid Opening and Award – February, 2013
  - UV Start-up – November, 2013
  - Ammonia Upgrade Completion – September, 2014

## 2. VALUE OF SPORTS IN THE COMMUNITY

Confero Sports Foundation Committee Chairman George Geise reported the Confero Sports Committee was formed in the Fall of 2011 as a spinoff of the former Four Seasons Sports Foundation. Committee members include long-time chairman of the Four Seasons Sports Foundation Dana Hennen; Great Falls Public Schools Athletic Director and Supervisor of Health Enhancement Gary DeGooyer; and Park and Recreation Deputy Director Patty Rearden. The goal of the team of volunteer sports-minded citizens is to bring more competitive sports events to Great Falls.

Mr. Geise provided The Impact of Sports on Great Falls guide, a snapshot of economic activity, current programs, and events brought to Great Falls. Players include Great Falls Public Schools, the University of Great Falls, Great Falls private schools, Malmstrom, Montana Special Olympics, and Montana Senior Olympics.

Mr. Geise emphasized that sporting events will not come to Great Falls unless there are adequate facilities to host those events. He discussed the state-wide soccer and softball tournaments that have been held in Great Falls in recent years due to the Siebel Soccer Complex and the Multi-Sports Complex.

The Confero Sports Foundation Committee believes it is important to recognize the value of the Centene Stadium, Multi-Sports Complex, tennis courts, and golf courses for citizens and also as a resource for drawing sports events. The Great Falls Public Schools District and the University of Great Falls also cooperate with the use of facilities.

Mr. Geise noted Great Falls lacks a large, modern arena capable of hosting 10,000 or more people for sports, cultural, and trade events.

The Confero Sports Foundation serves as a conduit for the 40-50 sports organizations including the Salvation Army, the Heisey Youth Center, soccer clubs, shooting sports, etc. He noted the Tourism Business Improvement District (TBID) has made substantial donations to help bring hockey and wrestling events to Great Falls.

Mr. Geise emphasized the need to keep current facilities open and in good working order.

Commissioner Jolley questioned the name "Confero".

Mr. Geise responded that "Confero" is Latin for bring together. The Confero Sports Foundation serves all sports organizations.

Great Falls Public Schools Athletic Director and Supervisor of Health Enhancement Gary DeGooyer thanked the City for the joint co-op of no rent for use of gymnasiums, softball fields, golf courses, and tennis courts. He agreed that all facilities must be kept in good working order.

An e-mail from Karen Venetz, TBID Administrative and Marketing Director, in support of George Geise and his support of all sports in Great Falls, was provided the Commission.

### **ADJOURN**

There being no further discussion, Mayor Winters adjourned the informal work session of August 21, 2012, at 6:13 p.m.