



CITY OF WASHINGTON, ILLINOIS
Public Works Committee Agenda Communication

Meeting Date: 6/1/20

Prepared By: Brian Rittenhouse, Utilities Superintendent

Agenda Item: Water Treatment Plant #1 Filter and Softener Rehabilitation.

Explanation: Last year Water Treatment Plant #1 started the rehab process of its Iron Filters and Water Softeners, getting one of each done. There are 4 Iron Filters and 3 Water Softeners that still need to be done. We would like to start the process and make sure we can get Evoqua scheduled for this fall to finish the rehabilitation.

Fiscal Impact: Evoqua has quoted the project at \$258,064.26 for the cleaning and disposal of old media, purchase and delivery of media and resin, checking metal integrity, and installation of media and resin for 4 filters and 3 softeners. The City has a Planned Expenditure of \$350,000 (Acct# 500-00-800-3000) for this work.

Recommendation/

Committee Discussion Summary: Staff recommends moving this forward to Committee of the Whole for further discussion.

Action Requested: Recommend moving item to the June 8th Committee of the Whole meeting.

Additional documentation: Evoqua project quotes.

	28-May
Tanker	\$6,492.75
Filter	\$14,400.40
Softener	\$25,354.29
Labor	<u>\$123,295.46</u>
Total	\$169,542.90

Removal	\$28,800.00
Filter & Softener	<u>\$23,900.00</u>
1 Set Total	\$52,700.00

3 Filters 3 Softeners	\$158,100.00
1 Filter	<u>\$28,800.00</u>
Total	\$186,900.00
4 Filters 3 Softeners	

Evoqua	\$6,492.75
Evoqua	\$14,400.40
Evoqua	\$25,354.29
Evoqua	\$123,295.46
Evoqua	<u>\$88,521.36</u>
	\$258,064.26

EVOQUA	\$169,542.90
RCC	<u>\$186,900.00</u>
Total Left	\$356,442.90



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1. SOFTENER RESIN DELIVERY 1

Item	Part No Description	Qty	Net Price	Ext. Price
1	W3T184389 COI TANKERING - LABOR LOADING RESIN INTO TANKER <ul style="list-style-type: none">133 CUFT C-211 resin loading	133 FT3	\$7.25	\$964.25
2	ESTIMATED TRANSPORTATION COST -- BILLED AT COST <ul style="list-style-type: none">Rockford IL to City of Washington, Washington ILIncluding roundtrip travel and tanker unloading.1 tanker will be used for this delivery.Estimated transportation cost provided, this does not include any applicable fuel surcharge or demurrage.Demurrage time is \$150.00/hour after 2 hours	1 tanker	\$1,200.00	\$1,200.00
			Subtotal:	\$2,164.25

2. SOFTENER RESIN DELIVERY 2

Item	Part No Description	Qty	Net Price	Ext. Price
3	W3T184389 COI TANKERING - LABOR LOADING RESIN INTO TANKER <ul style="list-style-type: none"> 133 CUFT C-211 resin loading 	133 FT3	\$7.25	\$964.25
5	ESTIMATED TRANSPORTATION COST -- BILLED AT COST <ul style="list-style-type: none"> Rockford IL to City of Washington, Washington IL Including roundtrip travel and tanker unloading. 1 tanker will be used for this delivery. Estimated transportation cost provided, this does not include any applicable fuel surcharge or demurrage. Demurrage time is \$150.00/hour after 2 hours 	1 tanker	\$1,200.00	\$1,200.00
			Subtotal:	\$2,164.25

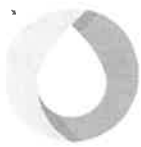


3. SOFTENER RESIN DELIVERY 3

Item	Part No Description	Qty	Net Price	Ext. Price
4	W3T184389 COI TANKERING - LABOR LOADING RESIN INTO TANKER <ul style="list-style-type: none">133 CUFT C-211 resin loading	133 FT3	\$7.25	\$964.25
6	ESTIMATED TRANSPORTATION COST -- BILLED AT COST <ul style="list-style-type: none">Rockford IL to City of Washington, Washington ILIncluding roundtrip travel and tanker unloading.1 tanker will be used for this delivery.Estimated transportation cost provided, this does not include any applicable fuel surcharge or demurrage.Demurrage time is \$150.00/hour after 2 hours	1 tanker	\$1,200.00	\$1,200.00

Subtotal: \$2,164.25

Total Net Price: \$6,492.75



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FILTER - 10' X 5' ASME VESSEL

5 total vessels on site – MMF #1 – completed

4 remaining vessels due for re-bedding

Permutit J-10018

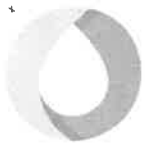
1. MMF #2 VESSEL

Item	Part No Description	Qty	Net Price	Ext. Price
1	W2T139351 FILTER MEDIA,ANTHRACITE SIZE 1 · Packaged in 50# bags · Total cuft required per vessel 118	118 FT3	\$11.62	\$1,371.16
2	W2T128683 FILTER MEDIA,ANTHRACITE #2 · Packaged in 50# bags · Total cuft required per vessel 59	59 FT3	\$12.18	\$718.62
3	W2T128685 FILTER MEDIA,ANTHRACITE # 4 · Packaged in 50# bags · Total cuft required per vessel 59	59 FT3	\$12.18	\$718.62
4	W2T128687 FILTER MEDIA,ANTHRACITE # 6 · Packaged in 50# bags · Total cuft required per vessel 65	65 FT3	\$12.18	\$791.70
			Subtotal:	\$3,600.10



2. MMF #3 VESSEL

Item	Part No Description	Qty	Net Price	Ext. Price
5	W2T139351 FILTER MEDIA,ANTHRACITE SIZE 1 · Packaged in 50# bags · Total cuft required per vessel 118	118 FT3	\$11.62	\$1,371.16
6	W2T128683 FILTER MEDIA,ANTHRACITE #2 · Packaged in 50# bags · Total cuft required per vessel 59	59 FT3	\$12.18	\$718.62
7	W2T128685 FILTER MEDIA,ANTHRACITE # 4 · Packaged in 50# bags · Total cuft required per vessel 59	59 FT3	\$12.18	\$718.62
8	W2T128687 FILTER MEDIA,ANTHRACITE # 6 · Packaged in 50# bags · Total cuft required per vessel 65	65 FT3	\$12.18	\$791.70
			Subtotal:	\$3,600.10



3. MMF #4 VESSEL

Item	Part No Description	Qty	Net Price	Ext. Price
9	W2T139351 FILTER MEDIA,ANTHRACITE SIZE 1 · Packaged in 50# bags · Total cuft required per vessel 118	118 FT3	\$11.62	\$1,371.16
10	W2T128683 FILTER MEDIA,ANTHRACITE #2 · Packaged in 50# bags · Total cuft required per vessel 59	59 FT3	\$12.18	\$718.62
11	W2T128685 FILTER MEDIA,ANTHRACITE # 4 · Packaged in 50# bags · Total cuft required per vessel 59	59 FT3	\$12.18	\$718.62
12	W2T128687 FILTER MEDIA,ANTHRACITE # 6 · Packaged in 50# bags · Total cuft required per vessel 65	65 FT3	\$12.18	\$791.70
Subtotal:				\$3,600.10

4. MMF # 5 VESSEL

Item	Part No Description	Qty	Net Price	Ext. Price
13	W2T139351 FILTER MEDIA,ANTHRACITE SIZE 1 · Packaged in 50# bags · Total cuft required per vessel 118	118 FT3	\$11.62	\$1,371.16
14	W2T128683 FILTER MEDIA,ANTHRACITE #2 · Packaged in 50# bags · Total cuft required per vessel 59	59 FT3	\$12.18	\$718.62
15	W2T128685 FILTER MEDIA,ANTHRACITE # 4 · Packaged in 50# bags · Total cuft required per vessel 59	59 FT3	\$12.18	\$718.62
16	W2T128687 FILTER MEDIA,ANTHRACITE # 6 · Packaged in 50# bags · Total cuft required per vessel 65	65 FT3	\$12.18	\$791.70
			Subtotal:	\$3,600.10

Total Net Price: **\$14,400.40**



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SOFTENER - 78" x 8' ASME VESSELS

4 total vessels on site – Softeners #1 – completed.

3 remaining softeners due for re-bedding

Permutit J-10018*

1. SOFTENER #2

Item	Part No Description	Qty	Net Price	Ext. Price
1	W2T820151 FILTER MEDIA, QTZ #7 50LB BG • Ships in 50# - 1/2 cf bags • Total lbs required per vessel: 930 • (19 bags per vessel needed)	19 BAG	\$5.31	\$100.89
2	W2T389247 FILTER MEDIA, GRAVEL 0.25" X .125" PKGD Reference #: W2T389247 • Ships in 50# - 1/2 cf bags • Total lbs required per vessel: 870 • (18 bags per vessel needed)	18 BAG	\$5.18	\$93.24
3	W2T389249 FILTER MEDIA, GRAVEL .500 X .250 50LB BG Reference #: W2T389249 • Ships in 50# - 1/2 cf bags • Total lbs required per vessel: 1740 • (35 bags per vessel needed)	35 BAG	\$5.18	\$181.30
4	W3T467698 RESIN C-211 (Na) CATION Reference #: 10900C211 • Ship in 5/cuft drums. • 133 cuft required per vessel • Or tankering slurry service available, separate quote provided.	133 FT3	\$60.67	\$8,069.11
Subtotal:				\$8,451.43

2. SOFTENER #3



Item	Part No Description	Qty	Net Price	Ext. Price
5	W2T820151 FILTER MEDIA, QTZ #7 50LB BG • Ships in 50# - 1/2 cf bags • Total lbs required per vessel: 930 • (19 bags per vessel needed)	19 BAG	\$5.31	\$100.89
6	W2T389247 FILTER MEDIA, GRAVEL 0.25" X .125" PKGD Reference #: W2T389247 • Ships in 50# - 1/2 cf bags • Total lbs required per vessel: 870 • (18 bags per vessel needed)	18 BAG	\$5.18	\$93.24
7	W2T389249 FILTER MEDIA, GRAVEL .500 X .250 50LB BG Reference #: W2T389249 • Ships in 50# - 1/2 cf bags • Total lbs required per vessel: 1740 • (35 bags per vessel needed)	35 BAG	\$5.18	\$181.30
8	W3T467698 RESIN C-211 (Na) CATION Reference #: 10900C211 • Ship in 5/cuft drums. • 133 cuft required per vessel • Or tankering slurry service available, separate quote provided.	133 FT3	\$60.67	\$8,069.11
			Subtotal:	\$8,451.43

3. SOFTENER #4

Item	Part No Description	Qty	Net Price	Ext. Price
9	W2T820151 FILTER MEDIA, QTZ #7 50LB BG <ul style="list-style-type: none"> Ships in 50# - 1/2 cf bags Total lbs required per vessel: 930 (19 bags per vessel needed) 	19 BAG	\$5.31	\$100.89
10	W2T389247 FILTER MEDIA, GRAVEL 0.25" X .125" PKGD Reference #: W2T389247 <ul style="list-style-type: none"> Ships in 50# - 1/2 cf bags Total lbs required per vessel: 870 (18 bags per vessel needed) 	18 BAG	\$5.18	\$93.24
11	W2T389249 FILTER MEDIA, GRAVEL .500 X .250 50LB BG Reference #: W2T389249 <ul style="list-style-type: none"> Ships in 50# - 1/2 cf bags Total lbs required per vessel: 1740 (35 bags per vessel needed) 	35 BAG	\$5.18	\$181.30
12	W3T467698 RESIN C-211 (Na) CATION Reference #: 10900C211 <ul style="list-style-type: none"> Ship in 5/cuft drums. 133 cuft required per vessel Or tankering slurry service available, separate quote provided. 	133 FT3	\$60.67	\$8,069.11

Subtotal: \$8,451.43

Total Net Price: \$25,354.29



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1. TRIP 1 – SOFTENER & FILTER

Item	Part No Description	Qty	Net Price	Ext. Price
1	Trip 1 – (1) SOFTENER / (1) FILTER Scrape/wash. Distribution removal & Installation / metal testing / media installation supervision for city of Washington IL Scope: <ul style="list-style-type: none">• Provide and Set up all scaffolding• Removal of old distribution in Softener• Scrape inside of each vessel, follow with high pressure wash.• Metal integrity testing, ND metal integrity testing, no report. Proving recorded numbers as to be used as reference point only.• Reinstallation of new brine/inlet softener distribution (COW to have on site ready for installation)• Reloading of media in filter and softener. Includes: Five (5) Technicians, six (6) to Seven (7) days Technicians are confined space certified and will include rescue team for vessel entry. Pricing includes travel and per diem City of Washington to supply: Access to 110AMP Access to 220 AMP for dust collection and blower Media and Resin removed from Vessels	1	\$35,056.82	\$35,056.82
			Subtotal:	\$35,056.82

2. TRIP 2 – SOFTENER & FILTER

Item	Part No Description	Qty	Net Price	Ext. Price
2	Trip 2 – (1) SOFTENER / (1) FILTER Scrape/wash. Distribution removal & Installation / metal testing / media installation supervision for city of Washington IL Scope: <ul style="list-style-type: none"> • Provide and Set up all scaffolding • Removal of old distribution in Softener • Scrape inside of each vessel, follow with high pressure wash. • Metal integrity testing, ND metal integrity testing, no report. Proving recorded numbers as to be used as reference point only. • Reinstallation of new brine/inlet softener distribution (COW to have on site ready for installation) • Reloading of media in filter and softener. Includes: Five (5) Technicians, six (6) to Seven (7) days Technicians are confined space certified and will include rescue team for vessel entry. Pricing includes travel and per diem City of Washington to supply: Access to 110AMP Access to 220 AMP for dust collection and blower	1	\$35,056.82	\$35,056.82
			Subtotal:	\$35,056.82

3. TRIP 3 – SOFTENER & FILTER

Item	Part No Description	Qty	Net Price	Ext. Price
3	Trip 3 – (1) SOFTENER / (1) FILTER Scrape/wash. Distribution removal & Installation / metal testing / media installation supervision for city of Washington IL Scope: <ul style="list-style-type: none"> • Provide and Set up all scaffolding • Removal of old distribution in Softener • Scrape inside of each vessel, follow with high pressure wash. • Metal integrity testing, ND metal integrity testing, no report. Proving recorded numbers as to be used as reference point only. • Reinstallation of new brine/inlet softener distribution (COW to have on site ready for installation) • Reloading of media in filter and softener. Includes: Five (5) Technicians, six (6) to Seven (7) days Technicians are confined space certified and will include rescue team for vessel entry. Pricing includes travel and per diem City of Washington to supply: Access to 110AMP Access to 220 AMP for dust collection and blower	1	\$35,056.82	\$35,056.82
			Subtotal:	\$35,056.82



4. TRIP 4 – FILTER

Item	Part No Description	Qty	Net Price	Ext. Price
4	Trip 4 – (1) SOFTENER / (1) FILTER Scrape/wash. Distribution removal & Installation / metal testing / media installation supervision for city of Washington IL Scope: <ul style="list-style-type: none">• Provide and Set up all scaffolding• Scrape inside of vessel, follow with high pressure wash.• Metal integrity testing, ND metal integrity testing, no report. Proving recorded numbers as to be used as reference point only.• Reloading of media in filter Includes: Five (5) Technicians, four (4) to five (5) days Technicians are confined space certified and will include rescue team for vessel entry. Pricing includes travel and per diem City of Washington to supply: Access to 110AMP Access to 220 AMP for dust collection and blower	1	\$18,125.00	\$18,125.00

Subtotal: \$18,125.00

Total Net Price: \$123,295.46



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Item Pricing Summary

Item	Part No Description	Qty	Net Price	Ext. Price
1	ADHOC-001 VAC SERVICES	1 LOT	\$88,521.36	\$88,521.36
<p>Pricing provided is for all 7 vessels</p> <p>Pricing includes all portal to portal of crew manpower / any required overtime, equipment, disposal, supplies & fuel surcharge all per diem, EIS</p> <p>SCOPE:</p> <ul style="list-style-type: none">• VAC OUT 7 VESSELS• INCLUDES OFF SITE DISPOAL• Vessels will be removed 2 at a time. Last trip will be for final MMF. <p>3 -- 6'6" x 8' SOFTENER 4 -- 10' 5' MMF</p> <p>Softener Weigh/vessel: Approx weight - media/resin has been running in system for 15+ years. • Gravel -- 3540, Resin -- 7049 - Total: 10,589 lbs</p> <p>Media Weight/vessel: Approx weight -- media has been running in system for 15+ years. • Anthracite -- 15,050 lbs</p> <p>CITY OF WASHINGTON: To have vessels drained and opened prior to service.</p>				

Total Net Price:

\$88,521.36