



Memo

TO: Public Works Committee
FROM: Ed Andrews, Public Works Director
DATE: October 12, 2018
SUBJECT: WTP#1 Pressure Vessel / Filter Rehab

The current fiscal year budget includes \$250,000 for filter and softener rehabilitation at WTP#1, over all the 9 vessels were estimated at \$350,000. At the October Public Works Committee, it was discussed how to best approach contracting for filter vessel rehab at water treatment plant WTP#1. CMT's plant evaluation identified this as needed repair and felt that this work would be considered maintenance and not require a full bid / contract package. Staff has been working obtaining quotes from both All Service of Decatur, IL and River City Construction (RCC) of East Peoria.

While both Contractors perform this work, All Service was reluctant to quote the work until laboratory sampling of the filter media was complete. As such, staff took representative samples from one softener and one filter vessel and had the samples run by PDC labs. These tests took 60 days to complete. While this sampling was sufficient for River City to prepare the attached quote, All Service still wanted to conduct their own composite samples (at our expense) to submit their quote.

Based upon this and successful project work with River City Construction at both the Water Treatment Plant and Sewer Plant, it would be the consideration to advance a contract with River City. A detailed breakdown of their proposal is attached and would include vacuum removal of the media, additional composite testing as the media is removed for proper disposal, T&M for weld build-back of wall thicknesses, disinfection and replacement of the media. The City would also contract separately with a piping contractor such as GA Rich to address any piping repairs and valve replacements as needed.

As such it is recommended to contract with River City Construction, under a time and materials, not to exceed (NTE) for the portion of their work in an amount of **\$79,000**.

This matter has been placed on the City Council meeting agenda of Monday, October 15th, 2018 for review and discussion.

cc: File

FINAL COPY

DESCRIPTION	TIOE	MATERIAL	LABOR	SUPPLIER	SUB-GEN'L	MECH/ELEC	* TOTAL *	FROM	ADJUSTMENTS TO	+ OR -
E001 EQUIPMENT	1,247	7,604	6,435	11,569	0	0	28,855			
E002 EQUIPMENT	1,325	7,408	6,827	15,700	0	0	31,260			
E003 EQUIPMENT	136	88	701	0	0	0	925			
	2,708	15,100	13,963	27,269	0	0	59,040			

Estimate: 181005 Owner: CITY OF WASHINGTON

Job: WASHINGTON WTP FILTER T&M

Cost Code	Description	Quantity	UM	Unit Price	Total
Section 10 GENERAL CONDITIONS					
100100	SUPERINTENDENT SUPERINTENDENT FULL TIME	0.25	MO	17,838.000	4,459
100200	PROJECT MANAGEMENT AREA MANAGER 1/10 TIME OF PM	0.05	MO	0.000	0
100200	PROJECT MANAGEMENT PROJECT MANAGER 1/4 TIME	0.25	MO	13,884.000	3,471
100700	PUNCH LIST 3/4 OF PUNCH LIST	0.75	DY	616.000	462
100800	WARRANTY 1/4 OF PUNCH LIST	0.25	DY	616.000	154
101000	RCCC OFFICES & VANS	1.00	MO	88.000	88
101000	RCCC OFFICES & VANS TRAILER SETUP/STAIRS/PLATFORMS	0.50	DY	698.000	349
101200	FURNITURE & SUPPLIES OFFICE FURNITURE,SUPPLIES,POSTAGE,& MISC SITE EXPENSE	1.00	LS	150.000	150
101300	PROJECT BARRICADES	1.00	LS	50.000	50
101400	CONSTRUCTION FENCE	1.00	LS	0.000	0
102020	CELL PHONE SERVICE CELLULAR PHONES (INCLD W/ LABOR OVHD)	1.00	LS	0.000	0
102100	TOILET SERVICE	1.00	MO	0.000	0
102200	DRINKING WATER & ICE DRINKING WATER	1.00	MO	0.000	0
102300	WATER SERVICE	1.00	LS	0.000	0
102400	METERED FLOW CHARGE WATER/SEWER	1.00	MO	0.000	0
102500	ELECTRIC SERVICE	1.00	LS	0.000	0
102600	METERED POWER CHARGE LIGHTS	1.00	MO	0.000	0
102600	METERED POWER CHARGE NIGHT LIGHTS FOR SECURITY	1.00	MO	0.000	0
102600	METERED POWER CHARGE POWER	1.00	MO	0.000	0
102700	TEMPORARY LIGHTING	1.00	LS	0.000	0
102800	TEMPORARY ROADS MAINTAIN	1.00	LS	0.000	0
102900	HAULING & UNLOADING	0.25	MO	1,240.000	310
103000	LADDERS & STAIRS ROLLING LADDER	1.00	EA	1,022.000	1,022
103100	GENERAL CLEANING	0.25	MO	1,108.000	277
103200	FINISH CLEANING MISC CLEANING	1.00	LS	0.000	0
103300	DUMPSTER GENERAL BLDG DEBRIS	1.00	LS	273.000	273
103400	SPECIAL CLEANING	1.00	LS	0.000	0
104000	WEATHER PROTECTION	1.00	LS	0.000	0
104100	SAFETY FIRE EXTINGUISHERS	1.00	EA	73.000	73
104100	SAFETY MEDICAL KITS/BLANKETS/STRETCHERS/FINES	1.00	MO	250.000	250
104100	SAFETY ROPE LADDER	2.00	EA	233.500	467
104400	SITE SECURITY	1.00	LS	0.000	0
104500	SITE SPECIAL WORK EROSION CONTROL & DUST CONTROL	1.00	LS	0.000	0
106000	TESTING MISC	1.00	LS	0.000	0
107000	TRAVEL EXPENSE PROJECT MANAGER OFFICE BASED PER DIEM	1.00	LS	0.000	0
107000	TRAVEL EXPENSE PROJECT MANAGER OFFICE BASED TRAVEL PAY	1.00	LS	0.000	0
107000	TRAVEL EXPENSE PROJECT MANAGER SITE BASED TRAVEL PAY 0-50 MILES	1.00	LS	0.000	0
107000	TRAVEL EXPENSE SUPERINTENDENT SITE BASED TRAVEL PAY 0-50 MILES	1.00	LS	0.000	0
107500	PARTNERING PARTNERING-SET UP	1.00	LS	0.000	0
108000	MISC BOND PERMIT INS	1.00	LS	0.000	0
108100	MISC SALES TAX	1.00	LS	0.000	0
108200	MISC FREIGHT	1.00	LS	0.000	0
109000	EQUIPMENT HOIST ENERGY AND OPERATION	1.00	LS	0.000	0
109000	EQUIPMENT HOIST EQUIPMENT	1.00	LS	0.000	0
109000	EQUIPMENT MAJOR EQUIPMENT FUEL	1.00	LS	0.000	0
109000	EQUIPMENT MAJOR EQUIPMENT PURCHASE	1.00	LS	0.000	0
109000	EQUIPMENT MAJOR EQUIPMENT RENT	1.00	LS	0.000	0
109000	EQUIPMENT MAJOR EQUIPMENT SHOW UP TIME	1.00	LS	0.000	0
109000	EQUIPMENT NEW TOOLS	1.00	LS	0.000	0
109500	MISC SPECIAL TOOL REPAIR	1.00	LS	0.000	0
109800	SMALL TOOLS SMALL TOOLS % 2.000	1.00	LS	155.000	155
109900	GENERAL COND. FEE % 0.000	1.00	LS	0.000	0
Section Total					12,010

Estimate: 181005 Owner: CITY OF WASHINGTON

Job: WASHINGTON WTP FILTER T&M

Cost Code		Description	Quantity	UM	Unit Price	Total
Section- 26 RIVER CITY MISC. CONCRETE						
260000	ANCHOR BOLTS	EQUIPMENT ANCHOR BOLTS	1.00	LS	0.000	0
260200	GROUT	GROUT EQUIPMENT BASE PLATES	1.00	LS	0.000	0
269800	SMALL TOOLS	SMALL TOOLS % 3.500	1.00	LS	0.000	0
269900	MISC CONCRETE	FEE % 0.000	1.00	LS	0.000	0
Section Total						0

Estimate: 181005 Owner: CITY OF WASHINGTON

Job: WASHINGTON WTP FILTER T&M

Cost Code	Description	Quantity	UM	Unit Price	Total
41 SPECIALTIES CSI DIV 10 THRU 1					
411801 EQUIPMENT	FILTER MEDIA REPLACEMENT	1.00	UN	0.000	0
411801 EQUIPMENT	A PACKAGED FILTER ASSEMBLY	1.00	LS	0.000	0
411801 EQUIPMENT	B REMOVE FILTRATION MEDIA	1.00	LS	0.000	0
411801 EQUIPMENT	BA #6 ANTHRACITE 13/16"-1-5/8", THICKNESS VARIES	47.00	CF	5.787	272
411801 EQUIPMENT	BB #4 ANTHRACITE 5/16"-9/16", 9"TH	59.00	CF	4.610	272
411801 EQUIPMENT	BC #2 ANTHRACITE 3/32"-3/16", 9"TH	59.00	CF	4.610	272
411801 EQUIPMENT	BD #1 FINE ANTHRACITE 0.55-0.65 MM, 18"TH	118.00	CF	4.610	544
411801 EQUIPMENT	BE BADGER HYDROVAC UNIT	1.00	LS	0.000	0
411801 EQUIPMENT	BEA BADGER HYDROVAC + 1-MAN CREW	1.00	DY	2,570.000	2,570
411801 EQUIPMENT	BEB MOBILIZATION	1.00	EA	185.000	185
411801 EQUIPMENT	BEC DEMOBILIZATION	1.00	EA	185.000	185
411801 EQUIPMENT	BED SUBSISTENCE	1.00	EA	140.000	140
411801 EQUIPMENT	BEE DUMP MATERIAL (ALLOWANCE FOR CORE SAMPLE INCLUDED)	2.00	EA	2,650.000	5,300
411801 EQUIPMENT	BEF WATER PER LOAD	2.00	EA	50.000	100
411801 EQUIPMENT	BEG REMOTE HOSE	50.00	LF	2.000	100
411801 EQUIPMENT	BEH REMOTE TRUCK	1.00	DY	150.000	150
411801 EQUIPMENT	C REPLACE FILTRATION MEDIA	283.00	CF	14.131	3,999
411801 EQUIPMENT	C* MATERIAL SALES TAX 8%	1.00	LS	320.000	320
411801 EQUIPMENT	CA #6 ANTHRACITE 13/16"-1-5/8", THICKNESS VARIES	47.00	CF	8.702	409
411801 EQUIPMENT	CB #4 ANTHRACITE 5/16"-9/16", 9"TH	59.00	CF	6.932	409
411801 EQUIPMENT	CC #2 ANTHRACITE 3/32"-3/16", 9"TH	59.00	CF	6.932	409
411801 EQUIPMENT	CD #1 FINE ANTHRACITE 0.55-0.65 MM, 18"TH	118.00	CF	6.924	817
411801 EQUIPMENT	CE CONVEYOR & TANK TEMP PLATFORM	1.00	LS	0.000	0
411801 EQUIPMENT	CEA TEMP MEDIA PLATFORM	1.00	UN	834.000	834
411801 EQUIPMENT	CEB FIXED CONVEYOR 21'L W/HOPPER	1.00	UN	3,959.000	3,959
411801 EQUIPMENT	D AIR PIPING SYSTEM	1.00	LS	0.000	0
411801 EQUIPMENT	E CONTROLS	1.00	LS	0.000	0
411801 EQUIPMENT	F SCAFFOLDING	314.00	SF	2.803	880
411801 EQUIPMENT	W START UP/FIELD TEST	1.50	DY	1,500.000	2,250
411801 EQUIPMENT	W STERILIZE W/CHLORINE	1.00	LS	0.000	0
411801 EQUIPMENT	W WARRANTY/SPARE PARTS	1.00	LS	0.000	0
411801 EQUIPMENT	X FINAL CONNECT	1.00	LS	0.000	0
411801 EQUIPMENT	X LUBE AND ADJUST	1.00	EA	75.000	75
411801 EQUIPMENT	X UNLOAD	4.00	HR	452.500	1,810
411801 EQUIPMENT	X VACUUM DECK	1.00	EA	272.000	272
411801 EQUIPMENT	Y ANCHOR BOLTS PACKAGE UNIT	1.00	LS	0.000	0
411801 EQUIPMENT	Z GROUT AT PACKAGE UNIT	1.00	LS	0.000	0
411801 EQUIPMENT	SMALL TOOLS % 5.000	1.00	LS	322.000	322
411801 EQUIPMENT	FEE % 0.000	1.00	LS	0.000	0
Section Total					26,855
411802 EQUIPMENT	SOFTENER MEDIA REPLACEMENT	1.00	LS	0.000	0
411802 EQUIPMENT	A PACKAGED SOFTENER ASSEMBLY	1.00	LS	0.000	0
411802 EQUIPMENT	B REMOVE SOFTENER MEDIA	1.00	LS	0.000	0
411802 EQUIPMENT	BA MEDIUM GRAVEL 1/4" - 1/2"	35.00	CF	7.771	272
411802 EQUIPMENT	BB FINE GRAVEL 1/8"-1/4"	18.00	CF	7.611	137
411802 EQUIPMENT	BC COARSE SAND	19.00	CF	7.211	137
411802 EQUIPMENT	BD ZEOLITE PERMUTIT Q	133.00	CF	6.143	817
411802 EQUIPMENT	BE BADGER HYDROVAC UNIT	1.00	LS	0.000	0
411802 EQUIPMENT	BEA BADGER HYDROVAC + 1-MAN CREW	1.00	DY	2,570.000	2,570
411802 EQUIPMENT	BEB MOBILIZATION	1.00	EA	185.000	185
411802 EQUIPMENT	BEC DEMOBILIZATION	1.00	EA	185.000	185
411802 EQUIPMENT	BED SUBSISTENCE	1.00	EA	140.000	140
411802 EQUIPMENT	BEE DUMP MATERIAL	1.00	EA	300.000	300
411802 EQUIPMENT	BEF WATER PER LOAD	1.00	EA	50.000	50
411802 EQUIPMENT	BEG REMOTE HOSE	50.00	LF	2.000	100
411802 EQUIPMENT	BEH REMOTE TRUCK	1.00	DY	150.000	150
411802 EQUIPMENT	C REPLACE SOFTNER MEDIA	72.00	CF	5.750	414
411802 EQUIPMENT	C* MATERIAL SALES TAX 8%	1.00	LS	986.000	986
411802 EQUIPMENT	CA MEDIUM GRAVEL 1/4"-1/2"	35.00	CF	7.771	272
411802 EQUIPMENT	CB FINE GRAVEL 1/8"-1/4"	18.00	CF	7.611	137

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Cost Code	Description	Quantity	UM	Unit Price	Total
4	EQUIPMENT	CC COARSE SAND	19.00 CF	7.211	137
411802	EQUIPMENT	CD ZEOLITE PERMUTIT Q	170.00 CF	76.412	12,990
411802	EQUIPMENT	CE CONVEYOR & TANK TEMP PLATFORM	1.00 LS	0.000	0
411802	EQUIPMENT	CEA TEMP MEDIA PLATFORM	1.00 UN	1,709.000	1,709
411802	EQUIPMENT	CEB FIXED CONVEYOR 21'L W/HOPPER	1.00 UN	3,959.000	3,959
411802	EQUIPMENT	D AIR PIPING SYSTEM	1.00 LS	0.000	0
411802	EQUIPMENT	E CONTROLS	1.00 LS	0.000	0
411802	EQUIPMENT	F SCAFFOLD	256.00 SF	3.379	865
411802	EQUIPMENT	W START UP/FIELD TEST	1.50 DY	1,500.000	2,250
411802	EQUIPMENT	W STERILIZE W/CHLORINE	1.00 LS	0.000	0
411802	EQUIPMENT	W WARRANTY/SPARE PARTS	1.00 LS	0.000	0
411802	EQUIPMENT	X FINAL CONNECT	1.00 LS	0.000	0
411802	EQUIPMENT	X LUBE AND ADJUST	1.00 EA	75.000	75
411802	EQUIPMENT	X UNLOAD	4.00 HR	452.500	1,810
411802	EQUIPMENT	X VACUUM DECK	1.00 EA	272.000	272
411802	EQUIPMENT	Y ANCHOR BOLTS PACKAGE UNIT	1.00 LS	0.000	0
411802	EQUIPMENT	Z GROUT AT PACKAGE UNIT	1.00 LS	0.000	0
411802	EQUIPMENT	SMALL TOOLS % 5.000	1.00 LS	341.000	341
411802	EQUIPMENT	FEE % 0.000	1.00 LS	0.000	0
Section Total					31,280
411804	EQUIPMENT	WTP DISINFECTION PER AWWA STANDARD	1.00 LS	0.000	0
411804	EQUIPMENT	A FILTER 1 DISINFECTION	1.00 LS	0.000	0
411804	EQUIPMENT	AA FILL FILTER#1 W/WATER CONTAINING 50 MG/L CL2	3.00 KG	32.333	97
411804	EQUIPMENT	AB DRAIN TANK	3.00 KG	0.000	0
411804	EQUIPMENT	AC INITIAL TEST WATER CHARGE	3.00 KG	0.000	0
411804	EQUIPMENT	AD ALLOWANCE FOR SECONDARY TEST	3.00 KG	5.000	15
4	EQUIPMENT	B PIPING DISINFECTION	1.00 LS	0.000	0
411804	EQUIPMENT	C SOFTENER 1 DISINFECTION	1.00 LS	0.000	0
411804	EQUIPMENT	CA FILL SOFTENER#1 W/WATER CONTAINING 50 MG/L CL2	2.00 KG	24.000	48
411804	EQUIPMENT	CB DRAIN TANK	2.00 KG	0.000	0
411804	EQUIPMENT	CC INITIAL TEST WATER CHARGE	2.00 KG	0.000	0
411804	EQUIPMENT	CD ALLOWANCE FOR SECONDARY TEST	2.00 KG	5.000	10
411804	EQUIPMENT	D PIPING DISINFECTION	1.00 LS	0.000	0
411804	EQUIPMENT	W START UP/FIELD TEST	2.00 UN	360.000	720
411804	EQUIPMENT	SMALL TOOLS % 5.000	1.00 LS	35.000	35
411804	EQUIPMENT	FEE % 0.000	1.00 LS	0.000	0
Section Total					925
Project Total					71,050

Red Flint Sand & Gravel, LLC

1 American Blvd.

PO Box 688

Eau Claire, WI 54702

Phone: (715) 855-7600

Fax: (715) 855-7608

**DATE:** October 10, 2018**TO:** J.R. Peterson

River City Construction

FROM: Laura Dombrowski**SUBJECT:** Granular Filter Materials**QUOTE:** QTE181010E11-01

Phone: 309.694.3120

Email: jrpeterson@rccllc.com

WASHINGTON, IL

Listed below is our quotation for the Red Flint products you requested with delivery to **Washington, IL** via **Flatbed**. Sales tax, if applicable, has not been included in the quoted price. Our product pricing will remain valid for 30 days; however, **freight rate at time of shipping will apply**. Our terms are net 30 days, with 1.5% interest charged per month on all account balances over 30 days.

Red Flint granular filter materials have been used in municipal and industrial filtration applications since 1917. Red Flint filtration media is produced to meet exacting size and uniformity specifications and meets or exceeds the AWWA B100-16 Standard (Granular Filter Materials) and is NSF/ANSI Standard 61 (Drinking Water System Components – Health Effects) certified for quality and purity.

ITEM CODE	ITEM DESCRIPTION	QUANTITY
AC10057	#1 Anthracite (0.55-0.65 mm)	118 (1 cuft) poly bags
AC11057	#2 Anthracite (3/32" x 3/16")	59 (1 cuft) poly bags
AC13057	#4 Anthracite (5/16" x 9/16")	59 (1 cuft) poly bags
AC15057	#6 Anthracite (13/16" x 1 5/8")	47 (1 cuft) poly bags
PA13099	Anthracite Pallets	8 pallets
ANTHRACITE SUBTOTAL:		\$ 3,996.50
AB30051	0.80-1.20 mm Course Sand	19 (50 lb) poly bags
AB10050	1/4" x 1/8" Fine Gravel	18 (50 lb) poly bags
AA21050	1/2" x 1/4" Medium Gravel	35 (50 lb) poly bags
PA11099	Industrial Pallets	3 pallets
SAND & GRAVEL SUBTOTAL:		\$ 413.70
TA12099	Estimated Shipping & Handling	1 Flatbed
DELIVERED TOTAL:		\$ 5,410.20

Additional Notes:

1. In order to meet your delivery schedule, Red Flint requests that a Purchase Order be issued 2-3 weeks prior to your estimated shipping date. This lead time **does not** include transit time to your location.
2. Independent Laboratory Testing is not included in the quoted price.

3. Shipping & Handling price is based on current rates and fuel surcharge. Actual rates and surcharge at the time of shipping will apply. After the first hour of truck unloading, there is an \$85/hour demurrage charge for any further unloading time.

4. We advise all of our customers to account for the volatility of the shipping market in their project contingency plans. Additional carrier increases are expected. We will pass on these increases, should they occur on this project, when we invoice. Shipping reductions are not anticipated for this project. However, if they were to occur, we will also pass on those savings at invoice.

Please advise if we can be of further assistance by calling us at (715) 855-7600 or you can email me at laura.dombrowski@redflint.com. All purchase orders can be sent to Sales@redflint.com. Thank you for considering Red Flint Sand and Gravel.

**WASHINGTON IL
RATES FOR JOBSITE PERSONNEL
FOR THE LABOR CONTRACT PERIOD: 5/1/2018 TO 4/30/2019**

		Rate Per Hour		
		S-T	P-T	D-T
PEORIA:				
Superintendent:		\$97.50	\$97.50	\$97.50
Project Manager:		\$92.50	\$92.50	\$92.50
Carpenter:	Journeyman	\$80.41	\$116.32	\$152.21
	Foreman	\$84.03	\$121.47	\$158.91
	General Foreman	\$84.83	\$122.62	\$160.39
Millwright	Journeyman	\$80.97	\$117.02	\$153.05
	Foreman	\$84.58	\$122.18	\$159.75
	General Foreman	\$85.39	\$123.32	\$161.24
Laborer: Peoria	Journeyman	\$71.39	\$97.38	\$123.37
	Foreman	\$73.80	\$100.82	\$127.83
	General Foreman	\$75.41	\$103.11	\$130.81
Laborer: Pekin	Journeyman	\$72.30	\$104.39	\$136.47
	Foreman	\$73.50	\$106.11	\$138.70
	General Foreman	\$74.31	\$107.25	\$140.19
Ironworker:	Journeyman	\$81.56	\$111.99	\$142.42
	Foreman	\$85.25	\$117.26	\$149.26
	General Foreman	\$86.38	\$118.86	\$151.35
	Senior Foreman	\$87.98	\$121.15	\$154.32
Cement Mason	Journeyman	\$79.72	\$110.37	\$141.02
	Foreman	\$82.13	\$113.81	\$145.49
	General Foreman	\$84.14	\$116.67	\$149.21
Oper. Engineer	Operator	\$89.20	\$122.73	\$156.26
	Crane Operator	\$92.41	\$127.31	\$162.21
	Foreman Crane Operator	\$94.01	\$129.60	\$165.19
Bricklayers:	Journeyman	\$78.08	\$108.64	\$140.23
	Foreman	\$80.49	\$112.08	\$144.69
	General Foreman	\$85.31	\$118.95	\$153.62