

MINUTES OF THE BOARD OF PUBLIC WORKS
Tuesday, June 14, 2016

The Regular Meeting of the Board of Public Works was held on Tuesday, June 14, 2016 at 7:30 p.m. in the City Council Chambers located at 405 Jefferson Street, Washington, Missouri. The following were present/absent:

MEMBERS:		
Chairman	Kurt Voss	Present
Member	Rob Vossbrink	Present
Member	John Vietmeier	Present
Member	Brad Mitchell	Present
Ex-officio Member	Mike Radetic	Present
OTHERS:		
Council Representative	Jeff Mohesky	Absent
Council Representative	Josh Brinker	Absent
Council Representative	Steve Sullentrup	Absent
Council Representative	Greg Skornia	Absent
Mayor	Sandy Lucy	Absent
City Administrator	James A. Briggs	Present
Public Works Director	Brian Boehmer	Absent
Water/Wastewater Superintendent	Kevin Quaethem	Present
Public Works Secretary	Beverly Hoyt	Present
City Engineer	John Nilges	Present
Assistant City Engineer	Andrea Lueken	Absent

Originals and/or copies of agenda items of the meeting, including recorded votes are available on record in the office of the Public Works Secretary for one year. Video/DVD and audio tapes are kept only until the minutes have been approved for the meeting. DVD copies of this meeting are distributed to Board Members if requested.

A motion was made by Mr. Vietmeier and seconded by Mr. Vossbrink to approve the minutes from the regular May 10, 2016 meeting. The motion passed without dissent.

Wastewater

Electric Unlimited is 100% complete. Nothing further to be done, final will be presented to the board next month. All systems are up and running with no problems.

Odor at the Wastewater Treatment Plant has been minimal. There are a few odors early in the mornings on the trail that are contributed to possibly the mixers that are running at the plant. We are pressing one to two times a week.

Water – Siemens Presentation by Wes Walker

Scope – Year One - Test Results (Recap) - Main question is has Siemens met their guarantee? After a thorough review of City billing, numbers of meters and sizes of meters that were contracted have been run. There is a notable difference in size of meters, 5/8" was about 655 less and the 3/4" was 471 more. Original test back in 2011 the 5/8" tested low and were not capturing all the water for metering and billing. The 3/4" was incredibly high close to 100%, 1" and 1-1/2 was 94.7% accurate. The guarantee was for the 5/8" and 2" only, the 3/4", 1" and 1 1/2 were already 100% accurate in performance.

The actual test results for the 5/8" and 2" were down 20% from baseline year. The 5/8" and 2" actually captured 489,817 kgal water and sewer, baseline year of 504,217 of water and sewer. If the existing meters were still in place 404,143 kgal would have been captured that would be an additional 85,674 kgals captured from the 5/8" and 2" (489,817). Contract guaranteed 108,171 kgal. Additional revenue captured is \$217,148. All that was really seen was \$22,497 less than contracted.

Close out of project was 2013, the reduction between pumped and metered kgal reduced by 29%. In 2014 the gap increased. Meters are testing within manufactured range. We knew there were some differences but we didn't know how many meters were 5/8" or 2" for sure until they were installed. We should have revised once the as-built documentation was received and revised the calculations.

Where do we go from here? The pumped and billed water is going in a different direction. As far as pumped we have had to do an excessive amount of flushing throughout 2014 and 2015 which put a lot of unused water on the ground that's not metered. The meters are performing above where they should. The change in consumption is not a result of meter accuracy. This is a result of a lot of variables, meter use, population change, weather, it's impossible to know what the consumptions of next year will be. It could be up 20%.

Increase from year one to three it's the water being captured times the water and sewer rates. If the existing meters had been kept in place they would have degraded, they were at 75.8% accurate. The increase is a result of the amount of water flowing through at the rate captured times the water and sewer rates. Table 1.2 explicitly states that we will not predict the fluctuations in usage it's impossible. The actual billable usage is calculated by multiplying the water we know that went through it divided by the accuracy of the meters there were versus the meters Siemens installed.

The City was told that these new meters would show an increase in consumption, but this has not happened. We still have not seen savings in increased sales that would result in sufficient revenue to pay off debt. It's not happening. The Board has asked Siemens to return in July for further discussion.

Donohue - Hydraulic Study

Donohue will come back for July Board meeting to present their presentation. The Hydraulic Model calibrated system is well maintained. Well 10 issues with low pressure and high pressure is due to Well 10 running and turned off. While well is running psi is 100 or higher, when well shuts off it drops to 35 psi. The ground elevation cannot be fixed.

Storage Tank Volume – Enduro stand pipe is 80 feet tall. Top 10 to 15 feet is usable, when it goes below that level you can't maintain the 30 psi. We calculated the needed storage compared to the usable storage, there is a storage surplus. Based on strictly storage numbers there's no justification for a new tank at this time.

An additional tank is recommended on the east side of town just so we could allow for new growth. It would alleviate the pressure fluctuation near Well 10 area. It also can help maintain fire flow if a catastrophic power outage occurred. It would maintain pressure in the system. Well 10 pressure fluctuation is due to lack of storage and the fact there is only one 8" connection to that area to the rest of the system. Another transmission to connect to the rest of the system would make for a better connection.

Another recommendation is a control valve on the Enduro tank. Well 11 is closely located to the Enduro stand pipe. Well 11 turns on and the stand pipe fills quickly then Well 11 turns off. We recommend putting a control valve inlet on the Enduro stand. This would force the Well 11 water to feed into the system instead of directly into the pipe tank and the tank will fill more slowly allowing Well 11 to stay on longer instead of off and on all day.

There are a lot of areas in the older part of town that have smaller mains and old cast iron main. A plan needs to be implemented that would allow replacing those in a systematic way with a larger main, or PVC main.

ISO would come in the hottest part of the year available fire flow from tanks. Residential Code – 1000 per minutes, 1500 in commercial with Well 10 and 11 having backup generator we have met that flow. We can maintain a 20 psi for 8 hours if there were a power outage. Which is plenty of time for staff to go to Well 10 and 11 to make sure generators are working. With 10 and 11 running it lasts about 18 hours, giving time to get portable generators to Well 5 to get kicked on. With all three on in a no power situation we can maintain 20 psi for over a five day period. They don't operate at full capacity but 20 psi is the DNR's requirement and we meet that.

System in a whole is in good shape, we do have some deficiencies. The study gives us a change to calculate water line sizes on expansion projects. We tried this out on a couple of projects in our offices it works nice.

Donohue will have a final report at the July meeting.

Permanent Chlorination

Donohue & Associates, Chris has sent all the paperwork to DNR after the initial requirements for more information was needed. The system is up and running. There is one thing we still need to do and that is put vents outside the buildings. We are holding off until we get the permit.

The Public Works is still fielding calls with regard to dirty water and odor issue, but they are to a minimum of four or five per month.

Fire Chief Halmich spoke briefly about the fire flow and discussed the fire hydrants that are coded by color and a little on the ISO that is to be done early this summer. He reminded us that we need to do flow tests periodically to maintain flow.

A motion was made by Mr. Mitchell and second by Mr. Vossbrink to adjourn for Executive Session.

All in favor aye, all oppose, none. It has been approved to go into Executive Session.

Return from Executive Session:

Chairman Voss had to leave to be in court. Mr. Vossbrink brought up that his term is expiring in June of this year and he has elected not to renew his term. Mr. Vossbrink was an officio for six years and has served on the Board for nine years. He feels it is time to let someone else move up. Mr. Mike Radetic was asked and has accepted the position. Mr. Vossbrink says he will be here to answer any questions anyone might have, always happy to help.

Board thanked him for his time and service.

Next Scheduled Meeting Date:

The next scheduled meeting date is August 9, 2016.

Adjourn:

There being no further business the meeting adjourned on a motion by Mr. Vietmeier and second by Mr. Mitchell. All in favor aye, those oppose. We are adjourned.

Prepared by: _____
Beverly Hoyt
Public Works Secretary

Adopted and Approved By the Board of Public Works:

Date: _____ Signature: _____
Secretary

CITY OF WASHINGTON, MISSOURI

Public Works - Water and Wastewater Departments
405 Jefferson Street - Washington, MO 63090
Phone (636) 390-1030 · Fax (636) 390-1038

FINAL PAY REQUEST

NAME OF PROJECT: Permanent Chlorination System (13026)

OWNER: City of Washington, Missouri

CONTRACTOR: Donohue & Associates, Inc.

Staff recommends payment of final pay request from Donohue & Associates, Inc. by the Board of Public Works

Description	Amount
Final Pay Request Amount	\$392.10

THE CONTRACT SUMMARY FOLLOWS:

Original Contract Price	\$ 6,535.00
Pay Request #1	\$ 5,489.40
Pay Request #2	\$ 392.10
Pay Request #3	\$ 261.40
Final Pay Request #4	\$ 392.10
Balance of Contract	\$0.00

Approved by the Board of Public Works:

_____ Date: _____
Kurt Voss, Board of Public Works Chairman

INVOICE



1415 Elbridge Payne Rd., Suite 165
Chesterfield, MO 63017
Phone: 636-536-7042
www.donohue-associates.com

Invoice To:
City of Washington
Attn: Kevin Quaethem
405 Jefferson Street
Washington, MO 63090

Invoice Date: June 15, 2016
Donohue Project No.: 13026
Invoice No: 13026-04
Project Manager: Chris Safford
Terms: Net 30 Days
Billing Period: 03/13/16 - 06/11/16

Project Description: Permanent Chlorination System Design
Your Authorization: Engineering Services Agreement, Signed 11/18/15

Compensation: Lump Sum \$ 6,535.00

Billing Summary:	Current Charges		
	Percent Complete		100.0%
	Fee Earned	\$	6,535.00
	Charges Previously Billed	\$	6,142.90
	Total	\$	392.10
Current Charges Due		\$	392.10

Please Remit to: Donohue & Associates, Inc.
3311 Weeden Creek Road
Sheboygan, WI 53081
Phone: 920-208-0296
Fax: 920-208-0402

Aged Receivables				
<u>Current</u>	<u>31 - 60 Days</u>	<u>61 - 90 Days</u>	<u>91 - 120 days</u>	<u>>120 days</u>
\$392.10	\$0.00	\$0.00	\$0.00	\$0.00



Donohue & Associates, Inc.
1415 Elbridge Payne Road, Suite 165 | Chesterfield, MO 63017
636.536.7042 | donohue-associates.com

June 15, 2016

Mr. Kevin Quaethem
City of Washington
405 Jefferson Street
Washington, MO 63090

Re: Permanent Chlorination System (13026)
Invoice 13026-04

Dear Kevin:

Please find enclosed Invoice No. 13026-04, which is the FINAL invoice for work performed on the above referenced project. This invoice covers the work from March 13, 2016 through June 11, 2016. The work completed includes finalizing the construction plans and submitting to MDNR for approval. We are currently waiting for Final approval from MDNR and we do not anticipate any additional comments from them. Once we have approval from MDNR, a final set of sealed drawings will be provided for your use.

Should you have any questions regarding this invoice or the work completed, please do not hesitate to contact me at (636) 400-7046.

Sincerely,

A handwritten signature in black ink, appearing to read 'Chris Safford', is written over a faint, illegible typed name.

Christopher M. Safford, PE
Project Manager

Enclosures: As noted



Budget Report Account Summary

For Fiscal: 2015-2016 Period Ending: 06/30/2016

	Original Total Budget	Current Total Budget	Period Activity	Fiscal Activity	Variance Favorable (Unfavorable)	Percent Remaining
Fund: 400 - WATER FUND						
Revenue						
<u>400-35-000-450600</u>	Penalties/Interest Chgs.	22,000.00	22,000.00	1,871.80	16,085.45	-5,914.55 26.88 %
<u>400-35-000-450900</u>	Revenues-All Other	15,000.00	15,000.00	1,250.00	21,882.53	6,882.53 145.88 %
<u>400-35-000-453100</u>	Water Sales	1,430,000.00	1,430,000.00	112,682.28	973,969.12	-456,030.88 31.89 %
<u>400-35-000-453200</u>	Water Meter Sales	10,000.00	10,000.00	0.00	10,656.89	656.89 106.57 %
<u>400-35-000-453500</u>	Connection Charges	15,000.00	15,000.00	1,750.00	6,100.00	-8,900.00 59.33 %
<u>400-35-000-453550</u>	Tap Charges	500.00	500.00	0.00	282.60	-217.40 43.48 %
<u>400-35-000-453600</u>	Labor & Equipment Charges	500.00	500.00	123.66	3,164.05	2,664.05 632.81 %
<u>400-35-000-453700</u>	Miscellaneous Materials Sold	10,000.00	10,000.00	175.84	4,518.72	-5,481.28 54.81 %
<u>400-35-000-461200</u>	Rent/Lease-Municipal Property/Bui	53,460.00	53,460.00	2,147.07	30,507.22	-22,952.78 42.93 %
<u>400-35-000-480000</u>	Investment Income	3,000.00	3,000.00	0.00	5,297.88	2,297.88 176.60 %
<u>400-35-000-480100</u>	Investment Income-notes	3,300.00	3,300.00	0.00	2,087.89	-1,212.11 36.73 %
	Revenue Total:	1,562,760.00	1,562,760.00	120,000.65	1,074,552.35	-488,207.65 31.24 %
Expense						
<u>400-35-000-510100</u>	Salaries/Wages-Regular	362,910.00	362,910.00	40,465.48	264,969.73	97,940.27 26.99 %
<u>400-35-000-510150</u>	Elected Board Officials Compensati	200.00	200.00	100.00	200.00	0.00 0.00 %
<u>400-35-000-510200</u>	Wages-Part Time/Permanent	5,100.00	5,100.00	0.00	0.00	5,100.00 100.00 %
<u>400-35-000-510300</u>	Salaries/Wages-Overtime	8,360.00	8,360.00	1,728.68	11,478.84	-3,118.84 -37.31 %
<u>400-35-000-511100</u>	FICA Taxes	28,810.00	28,810.00	3,118.32	20,138.50	8,671.50 30.10 %
<u>400-35-000-511300</u>	Health Insurance	92,110.00	92,110.00	7,332.59	62,622.19	29,487.81 32.01 %
<u>400-35-000-511400</u>	Dental Insurance	6,620.00	6,620.00	471.80	4,143.04	2,476.96 37.42 %
<u>400-35-000-511600</u>	Life Insurance	730.00	730.00	60.21	451.71	278.29 38.12 %
<u>400-35-000-511700</u>	LAGERS Retirement Plan	40,100.00	40,100.00	4,140.63	29,177.30	10,922.70 27.24 %
<u>400-35-000-512601</u>	Tuition Reimbursement	2,500.00	2,500.00	0.00	0.00	2,500.00 100.00 %
<u>400-35-000-512605</u>	Employee Incentive Program	300.00	300.00	0.00	193.18	106.82 35.61 %
<u>400-35-000-512700</u>	HRA Deductible	22,500.00	22,500.00	0.00	12,923.90	9,576.10 42.56 %
<u>400-35-000-512701</u>	HRA Administration Fee	490.00	490.00	0.00	0.00	490.00 100.00 %
<u>400-35-000-520250</u>	Administration, Finance & IT Depar	151,810.00	151,810.00	0.00	101,206.72	50,603.28 33.33 %
<u>400-35-000-520300</u>	Technical Services	10,400.00	10,400.00	565.15	13,769.03	-3,369.03 -32.39 %
<u>400-35-000-520400</u>	Other Contracted Services	80,000.00	80,000.00	1,597.39	45,279.99	34,720.01 43.40 %
<u>400-35-000-521540</u>	Uniform Cleaning Service	2,000.00	2,000.00	148.88	1,366.72	633.28 31.66 %
<u>400-35-000-521560</u>	Building Repair & Maintenance	10,000.00	10,000.00	261.00	261.00	9,739.00 97.39 %
<u>400-35-000-521620</u>	Equipment Repair & Maintenance	12,000.00	12,000.00	0.00	2,948.89	9,051.11 75.43 %
<u>400-35-000-521630</u>	Vehicle Repair & Maintenance	7,500.00	7,500.00	484.87	5,435.44	2,064.56 27.53 %
<u>400-35-000-521635</u>	Water System Repair & Maintenanc	10,000.00	10,000.00	0.00	0.00	10,000.00 100.00 %
<u>400-35-000-521636</u>	Well Pump Repair & Maintenance	40,000.00	40,000.00	0.00	0.00	40,000.00 100.00 %
<u>400-35-000-521640</u>	Equipment Rental	1,000.00	1,000.00	232.35	949.99	50.01 5.00 %
<u>400-35-000-522100</u>	Advertising	200.00	200.00	0.00	0.00	200.00 100.00 %
<u>400-35-000-522200</u>	Property, Liability & Casualty Insur	34,610.00	34,610.00	2,323.46	19,979.91	14,630.09 42.27 %
<u>400-35-000-522210</u>	Self-Insurance Deductible	0.00	0.00	192.00	690.88	-690.88 0.00 %
<u>400-35-000-522300</u>	Printing/Duplicating	1,300.00	1,300.00	0.00	998.46	301.54 23.20 %
<u>400-35-000-522400</u>	Telephone	8,000.00	8,000.00	611.79	4,746.81	3,253.19 40.66 %
<u>400-35-000-522410</u>	Telephone-Alarm Control	4,500.00	4,500.00	425.34	3,402.72	1,097.28 24.38 %
<u>400-35-000-522500</u>	Training/Seminars	1,400.00	1,400.00	0.00	880.75	519.25 37.09 %
<u>400-35-000-522600</u>	Travel	1,200.00	1,200.00	0.00	664.76	535.24 44.60 %
<u>400-35-000-522700</u>	Professional Dues & Memberships	2,050.00	2,050.00	45.00	782.00	1,268.00 61.85 %
<u>400-35-000-522900</u>	Postage	12,000.00	12,000.00	866.66	9,018.52	2,981.48 24.85 %
<u>400-35-000-522950</u>	Credit Card Fees	4,400.00	4,400.00	483.11	4,201.25	198.75 4.52 %
<u>400-35-000-530410</u>	Parts-Vehicle	2,000.00	2,000.00	11.22	1,267.92	732.08 36.60 %
<u>400-35-000-530415</u>	Parts-Equipment	2,000.00	2,000.00	258.28	2,093.84	-93.84 -4.69 %
<u>400-35-000-530420</u>	Offices Supplies	1,200.00	1,200.00	45.45	373.42	826.58 68.88 %

Budget Report

For Fiscal: 2015-2016 Period Ending: 06/30/2016

		Original Total Budget	Current Total Budget	Period Activity	Fiscal Activity	Variance Favorable (Unfavorable)	Percent Remaining
<u>400-35-000-530500</u>	Asphalt/Rock/Cement	15,000.00	15,000.00	4,490.97	19,373.03	-4,373.03	-29.15 %
<u>400-35-000-530600</u>	Straw/Seeding/Plants	500.00	500.00	137.28	526.31	-26.31	-5.26 %
<u>400-35-000-530800</u>	General Supplies	7,000.00	7,000.00	6,382.80	23,238.70	-16,238.70	-231.98 %
<u>400-35-000-530900</u>	Employee Appreciation Cost	1,500.00	1,500.00	0.00	1,739.40	-239.40	-15.96 %
<u>400-35-000-531110</u>	Electricity	150,000.00	150,000.00	15,908.41	90,426.81	59,573.19	39.72 %
<u>400-35-000-531120</u>	Heating Fuel	1,500.00	1,500.00	10.73	982.67	517.33	34.49 %
<u>400-35-000-531300</u>	Gasoline & Oil	22,000.00	22,000.00	0.00	8,101.36	13,898.64	63.18 %
<u>400-35-000-532100</u>	Meters & Hydrants	25,000.00	25,000.00	198.00	18,811.63	6,188.37	24.75 %
<u>400-35-000-532200</u>	Pipe & Fittings	22,000.00	22,000.00	3,684.20	24,222.43	-2,222.43	-10.10 %
<u>400-35-000-534100</u>	Depreciation Expense	385,000.00	385,000.00	0.00	0.00	385,000.00	100.00 %
<u>400-35-000-534200</u>	Small Tools/Equipment/Furnishings	29,650.00	29,650.00	279.23	10,105.48	19,544.52	65.92 %
<u>400-35-000-540200</u>	Buildings	220,000.00	220,000.00	0.00	0.00	220,000.00	100.00 %
<u>400-35-000-541100</u>	Improvements Other Than Building	0.00	0.00	0.00	6,142.90	-6,142.90	0.00 %
<u>400-35-000-541110</u>	Water System Improvements	168,000.00	168,000.00	15,340.00	107,751.90	60,248.10	35.86 %
<u>400-35-000-542100</u>	Vehicles	31,000.00	31,000.00	0.00	0.00	31,000.00	100.00 %
<u>400-35-000-559100</u>	Bad Debts Expense	0.00	0.00	0.00	3,843.87	-3,843.87	0.00 %
<u>400-35-000-559200</u>	Bond/Note Principal	121,200.00	121,200.00	0.00	0.00	121,200.00	100.00 %
<u>400-35-090-559110</u>	Interest Expense	129,140.00	129,140.00	0.00	0.00	129,140.00	100.00 %
	Expense Total:	2,298,790.00	2,298,790.00	112,401.28	941,883.90	1,356,906.10	59.03 %
	Fund: 400 - WATER FUND Surplus (Deficit):	-736,030.00	-736,030.00	7,599.37	132,668.45	868,698.45	118.02 %
Fund: 410 - SEWAGE TREATMENT FUND							
Revenue							
<u>410-36-000-418500</u>	Sanitary Sewer District	13,000.00	13,000.00	3,202.60	14,332.70	1,332.70	110.25 %
<u>410-36-000-450600</u>	Penalties/Interest Charges	43,000.00	43,000.00	3,642.98	29,942.22	-13,057.78	30.37 %
<u>410-36-000-450900</u>	Revenues-All Other	5,000.00	5,000.00	0.00	4,302.26	-697.74	13.95 %
<u>410-36-000-453600</u>	Labor & Equipment Charges	100.00	100.00	0.00	105.75	5.75	105.75 %
<u>410-36-000-453700</u>	Miscellaneous Materials Sold	500.00	500.00	0.00	6.60	-493.40	98.68 %
<u>410-36-000-454100</u>	Sewer Service Charges	2,390,000.00	2,390,000.00	202,675.10	1,806,718.93	-583,281.07	24.41 %
<u>410-36-000-454125</u>	Surcharge Fees	15,000.00	15,000.00	1,238.64	20,256.15	5,256.15	135.04 %
<u>410-36-000-454150</u>	Leachate Disposal Charge	70,000.00	70,000.00	0.00	30,770.00	-39,230.00	56.04 %
<u>410-36-000-454200</u>	Sewer Connection Charges	25,000.00	25,000.00	3,667.75	19,633.20	-5,366.80	21.47 %
<u>410-36-000-480000</u>	Investment Income	2,000.00	2,000.00	0.00	3,229.72	1,229.72	161.49 %
<u>410-36-000-480200</u>	Investment Income.-Bond Acct.	460,000.00	460,000.00	0.00	217,845.21	-242,154.79	52.64 %
	Revenue Total:	3,023,600.00	3,023,600.00	214,427.07	2,147,142.74	-876,457.26	28.99 %
Expense							
<u>410-36-000-510100</u>	Salaries/Wages-Regular	72,350.00	72,350.00	14,179.05	83,181.65	-10,831.65	-14.97 %
<u>410-36-000-510200</u>	Wages-PartTime/Permanent	5,100.00	5,100.00	0.00	0.00	5,100.00	100.00 %
<u>410-36-000-510300</u>	Salaries/Wages-Overtime	5,150.00	5,150.00	205.72	4,207.66	942.34	18.30 %
<u>410-36-000-511100</u>	FICA Taxes	6,320.00	6,320.00	1,050.49	6,943.78	-623.78	-9.87 %
<u>410-36-000-511300</u>	Health Insurance	18,030.00	18,030.00	2,663.80	22,879.62	-4,849.62	-26.90 %
<u>410-36-000-511400</u>	Dental Insurance	1,200.00	1,200.00	185.24	1,614.04	-414.04	-34.50 %
<u>410-36-000-511600</u>	Life Insurance	150.00	150.00	20.68	174.09	-24.09	-16.06 %
<u>410-36-000-511700</u>	LAGERS Retirement Plan	8,810.00	8,810.00	1,340.56	10,065.77	-1,255.77	-14.25 %
<u>410-36-000-512605</u>	Employee Incentive Program	400.00	400.00	0.00	48.06	351.94	87.99 %
<u>410-36-000-512700</u>	HRA Deductible	6,000.00	6,000.00	0.00	1,402.88	4,597.12	76.62 %
<u>410-36-000-512701</u>	HRA Administration Fee	110.00	110.00	0.00	0.00	110.00	100.00 %
<u>410-36-000-520250</u>	Administration, Finance & IT Depar	68,125.00	68,125.00	0.00	45,416.72	22,708.28	33.33 %
<u>410-36-000-520300</u>	Technical Services	600.00	600.00	170.05	565.40	34.60	5.77 %
<u>410-36-000-520400</u>	Other Contracted Services	11,000.00	11,000.00	158.85	2,398.19	8,601.81	78.20 %
<u>410-36-000-520450</u>	Public Works Staff Services	0.00	0.00	0.00	9,035.88	-9,035.88	0.00 %
<u>410-36-000-521300</u>	Tipping Fee - City of Washington	300.00	300.00	0.00	0.00	300.00	100.00 %
<u>410-36-000-521540</u>	Uniform Cleaning Service	1,500.00	1,500.00	114.50	481.25	1,018.75	67.92 %
<u>410-36-000-521560</u>	Building Repair & Maintenance	1,000.00	1,000.00	0.00	0.00	1,000.00	100.00 %
<u>410-36-000-521620</u>	Equipment Repair & Maintenance	30,000.00	30,000.00	0.00	7,624.90	22,375.10	74.58 %
<u>410-36-000-521630</u>	Vehicle Repair & Maintenance	2,500.00	2,500.00	819.14	1,976.23	523.77	20.95 %
<u>410-36-000-521640</u>	Equipment Rental	500.00	500.00	32.35	249.99	250.01	50.00 %
<u>410-36-000-522200</u>	Property, Liability & Casualty Insur	15,560.00	15,560.00	2,542.73	10,382.42	5,177.58	33.27 %

Budget Report

For Fiscal: 2015-2016 Period Ending: 06/30/2016

	Original Total Budget	Current Total Budget	Period Activity	Fiscal Activity	Variance Favorable (Unfavorable)	Percent Remaining
410-36-000-522210	Self-Insurance Deductible	500.00	500.00	0.00	368.00	132.00 26.40 %
410-36-000-522300	Printing/Duplicating	400.00	400.00	0.00	272.69	127.31 31.83 %
410-36-000-522400	Telephone	3,000.00	3,000.00	242.08	1,900.90	1,099.10 36.64 %
410-36-000-522410	Telephone-Alarm Control	3,500.00	3,500.00	155.14	1,165.36	2,334.64 66.70 %
410-36-000-522500	Training/Seminars	1,000.00	1,000.00	0.00	439.49	560.51 56.05 %
410-36-000-522600	Travel	500.00	500.00	0.00	323.15	176.85 35.37 %
410-36-000-522700	Professional Dues & Memberships	500.00	500.00	0.00	591.00	-91.00 -18.20 %
410-36-000-522900	Postage	6,000.00	6,000.00	433.34	3,932.23	2,067.77 34.46 %
410-36-000-522950	Credit Card Fees	4,400.00	4,400.00	483.10	4,120.02	279.98 6.36 %
410-36-000-530200	Lab Supplies	50.00	50.00	0.00	0.00	50.00 100.00 %
410-36-000-530410	Parts-Vehicle	600.00	600.00	79.68	139.57	460.43 76.74 %
410-36-000-530415	Parts-Equipment	10,000.00	10,000.00	1,230.07	12,538.86	-2,538.86 -25.39 %
410-36-000-530420	Offices Supplies	500.00	500.00	45.45	268.23	231.77 46.35 %
410-36-000-530500	Asphalt/Rock/Cement	2,500.00	2,500.00	113.05	3,719.85	-1,219.85 -48.79 %
410-36-000-530600	Straw/Seeding/Plants	250.00	250.00	44.78	191.97	58.03 23.21 %
410-36-000-530800	General Supplies	2,300.00	2,300.00	556.24	2,113.12	186.88 8.13 %
410-36-000-530900	Employee Appreciation Cost	200.00	200.00	0.00	49.71	150.29 75.15 %
410-36-000-531110	Electricity	44,000.00	44,000.00	4,432.13	28,092.10	15,907.90 36.15 %
410-36-000-531120	Heating Fuel	10,500.00	10,500.00	10.73	982.62	9,517.38 90.64 %
410-36-000-531300	Gasoline & Oil	7,500.00	7,500.00	0.00	4,073.39	3,426.61 45.69 %
410-36-000-532200	Pipe & Fittings	2,500.00	2,500.00	15.75	1,615.06	884.94 35.40 %
410-36-000-532270	Manhole Replacement Program	11,000.00	11,000.00	9,057.09	17,408.07	-6,408.07 -58.26 %
410-36-000-533100	Chemicals	3,000.00	3,000.00	0.00	0.00	3,000.00 100.00 %
410-36-000-534100	Depreciation Expense	310,000.00	310,000.00	0.00	0.00	310,000.00 100.00 %
410-36-000-534200	Small Tools/Equipment/Furnishings	13,320.00	13,320.00	86.80	2,499.74	10,820.26 81.23 %
410-36-000-541100	Improvements Other Than Building	140,000.00	140,000.00	0.00	0.00	140,000.00 100.00 %
410-36-000-541120	Sanitary Sewer System Improve	150,000.00	150,000.00	0.00	14,249.65	135,750.35 90.50 %
410-36-000-542100	Vehicles	90,000.00	90,000.00	0.00	0.00	90,000.00 100.00 %
410-36-000-542200	Machinery & Equipment	10,000.00	10,000.00	0.00	0.00	10,000.00 100.00 %
410-36-000-559100	Bad Debts Expense	0.00	0.00	0.00	5,942.45	-5,942.45 0.00 %
410-36-090-559110	Interest Expense	655,800.00	655,800.00	0.00	332,534.38	323,265.62 49.29 %
410-36-090-559120	Agent Fees	83,000.00	83,000.00	0.00	77,692.75	5,307.25 6.39 %
410-36-090-559130	Amortization of Bond Discount/Pre	-21,340.00	-21,340.00	0.00	0.00	-21,340.00 100.00 %
410-36-090-559200	Bond/Note Principal	930,000.00	930,000.00	0.00	930,000.00	0.00 0.00 %
410-36-361-510100	Salaries/Wages-Regular	310,550.00	310,550.00	25,492.20	158,261.44	152,288.56 49.04 %
410-36-361-510300	Salaries/Wages-Overtime	2,500.00	2,500.00	83.67	3,279.17	-779.17 -31.17 %
410-36-361-511100	FICA Taxes	23,950.00	23,950.00	1,877.56	12,348.03	11,601.97 48.44 %
410-36-361-511300	Health Insurance	68,340.00	68,340.00	4,081.25	35,000.32	33,339.68 48.79 %
410-36-361-511400	Dental Insurance	4,530.00	4,530.00	252.19	2,219.59	2,310.41 51.00 %
410-36-361-511600	Life Insurance	580.00	580.00	34.94	319.85	260.15 44.85 %
410-36-361-511700	LAGERS Retirement Plan	33,370.00	33,370.00	2,558.73	18,091.07	15,278.93 45.79 %
410-36-361-512605	Employee Incentive Program	200.00	200.00	0.00	96.26	103.74 51.87 %
410-36-361-512700	HRA Deductible	9,000.00	9,000.00	0.00	6,558.38	2,441.62 27.13 %
410-36-361-512701	HRA Administration Fee	220.00	220.00	0.00	0.00	220.00 100.00 %
410-36-361-520250	Administration, Finance & IT Depar	68,125.00	68,125.00	0.00	45,416.72	22,708.28 33.33 %
410-36-361-520300	Technical Services	20,200.00	20,200.00	1,766.05	6,850.80	13,349.20 66.09 %
410-36-361-520400	Other Contracted Services	16,350.00	16,350.00	291.00	3,970.27	12,379.73 75.72 %
410-36-361-520450	Public Works Staff Services	0.00	0.00	0.00	9,035.87	-9,035.87 0.00 %
410-36-361-521300	Tipping Fee - City of Washington	1,200.00	1,200.00	127.81	1,128.94	71.06 5.92 %
410-36-361-521540	Uniform Cleaning Service	500.00	500.00	98.32	883.78	-383.78 -76.76 %
410-36-361-521560	Building Repair & Maintenance	2,000.00	2,000.00	0.00	0.00	2,000.00 100.00 %
410-36-361-521620	Equipment Repair & Maintenance	108,100.00	108,100.00	335.38	12,157.27	95,942.73 88.75 %
410-36-361-521630	Vehicle Repair & Maintenance	3,000.00	3,000.00	0.00	4,421.53	-1,421.53 -47.38 %
410-36-361-521640	Equipment Rental	500.00	500.00	0.00	0.00	500.00 100.00 %
410-36-361-522200	Property, Liability & Casualty Insur	21,670.00	21,670.00	1,161.73	11,632.55	10,037.45 46.32 %
410-36-361-522210	Self-Insurance Deductible	500.00	500.00	0.00	0.00	500.00 100.00 %
410-36-361-522300	Printing/Duplicating	1,050.00	1,050.00	0.00	892.44	157.56 15.01 %
410-36-361-522400	Telephone	6,500.00	6,500.00	722.40	5,491.47	1,008.53 15.52 %

Budget Report

For Fiscal: 2015-2016 Period Ending: 06/30/2016

	Original Total Budget	Current Total Budget	Period Activity	Fiscal Activity	Variance Favorable (Unfavorable)	Percent Remaining
<u>410-36-361-522410</u>	Telephone-Alarm Control	1,000.00	1,000.00	0.00	0.00	1,000.00 100.00 %
<u>410-36-361-522500</u>	Training/Seminars	800.00	800.00	0.00	0.00	800.00 100.00 %
<u>410-36-361-522600</u>	Travel	700.00	700.00	0.00	0.00	700.00 100.00 %
<u>410-36-361-522700</u>	Professional Dues & Memberships	700.00	700.00	0.00	505.00	195.00 27.86 %
<u>410-36-361-522900</u>	Postage	4,500.00	4,500.00	459.87	3,974.33	525.67 11.68 %
<u>410-36-361-530200</u>	Lab Supplies	13,600.00	13,600.00	324.54	830.13	12,769.87 93.90 %
<u>410-36-361-530410</u>	Parts-Vehicle	1,000.00	1,000.00	45.88	423.39	576.61 57.66 %
<u>410-36-361-530415</u>	Parts-Equipment	28,600.00	28,600.00	531.83	6,222.50	22,377.50 78.24 %
<u>410-36-361-530420</u>	Offices Supplies	500.00	500.00	37.25	128.00	372.00 74.40 %
<u>410-36-361-530500</u>	Asphalt/Rock/Cement	1,000.00	1,000.00	0.00	0.00	1,000.00 100.00 %
<u>410-36-361-530600</u>	Straw/Seeding/Plants	250.00	250.00	0.00	0.00	250.00 100.00 %
<u>410-36-361-530800</u>	General Supplies	4,000.00	4,000.00	174.41	3,615.04	384.96 9.62 %
<u>410-36-361-531110</u>	Electricity	170,000.00	170,000.00	20,741.93	111,501.92	58,498.08 34.41 %
<u>410-36-361-531120</u>	Heating Fuel	13,000.00	13,000.00	242.79	9,768.46	3,231.54 24.86 %
<u>410-36-361-531300</u>	Gasoline & Oil	3,000.00	3,000.00	762.41	1,994.12	1,005.88 33.53 %
<u>410-36-361-532200</u>	Pipe & Fittings	1,200.00	1,200.00	0.00	1,753.50	-553.50 -46.13 %
<u>410-36-361-533100</u>	Chemicals	17,300.00	17,300.00	1,350.00	11,815.08	5,484.92 31.70 %
<u>410-36-361-534100</u>	Depreciation Expense	890,000.00	890,000.00	0.00	0.00	890,000.00 100.00 %
<u>410-36-361-534200</u>	Small Tools/Equipment/Furnishings	14,280.00	14,280.00	0.00	4,584.92	9,695.08 67.89 %
<u>410-99-361-569250</u>	Transfer out- Vehicle & Equipment	201,500.00	201,500.00	0.00	2,275.00	199,225.00 98.87 %
	Expense Total:	4,800,050.00	4,800,050.00	104,022.73	2,153,320.03	2,646,729.97 55.14 %
	Fund: 410 - SEWAGE TREATMENT FUND Surplus (Deficit):	-1,776,450.00	-1,776,450.00	110,404.34	-6,177.29	1,770,272.71 99.65 %
	Report Surplus (Deficit):	-2,512,480.00	-2,512,480.00	118,003.71	126,491.16	2,638,971.16 105.03 %

Group Summary

Account Type	Original Total Budget	Current Total Budget	Period Activity	Fiscal Activity	Variance Favorable (Unfavorable)	Percent Remaining
Fund: 400 - WATER FUND						
Revenue	1,562,760.00	1,562,760.00	120,000.65	1,074,552.35	-488,207.65	31.24 %
Expense	2,298,790.00	2,298,790.00	112,401.28	941,883.90	1,356,906.10	59.03 %
Fund: 400 - WATER FUND Surplus (Deficit):	-736,030.00	-736,030.00	7,599.37	132,668.45	868,698.45	118.02 %
Fund: 410 - SEWAGE TREATMENT FUND						
Revenue	3,023,600.00	3,023,600.00	214,427.07	2,147,142.74	-876,457.26	28.99 %
Expense	4,800,050.00	4,800,050.00	104,022.73	2,153,320.03	2,646,729.97	55.14 %
Fund: 410 - SEWAGE TREATMENT FUND Surplus (Deficit):	-1,776,450.00	-1,776,450.00	110,404.34	-6,177.29	1,770,272.71	99.65 %
Report Surplus (Deficit):	-2,512,480.00	-2,512,480.00	118,003.71	126,491.16	2,638,971.16	105.03 %

Fund Summary

Fund	Original Total Budget	Current Total Budget	Period Activity	Fiscal Activity	Variance Favorable (Unfavorable)
400 - WATER FUND	-736,030.00	-736,030.00	7,599.37	132,668.45	868,698.45
410 - SEWAGE TREATMENT FUND	-1,776,450.00	-1,776,450.00	110,404.34	-6,177.29	1,770,272.71
Report Surplus (Deficit):	-2,512,480.00	-2,512,480.00	118,003.71	126,491.16	2,638,971.16

Memorandum

TO: James A. Briggs, City Administrator
 Brian N. Boehmer, Public Works Director
 Board of Public Works

FROM: Kevin Quaethem, Water and Wastewater Superintendent

DATE: July 6, 2016

RE: Work Performed by the Water and Wastewater Departments

STATUS OF MAJOR CONTRACTS –JUNE 2016

PROJECT	VENDOR	CONTRACT AMOUNT	PREVIOUSLY APPROVED	CURRENTLY APPROVED	BALANCE
Hydraulic Study	Donohue	\$ 58,000.00	\$2,900.00		\$11,600.00
WWTP Electrical Modifications	Electric Unlimited	\$274,300.00	\$85,700.00		\$23,100.00
Permanent Chlorination System Design	Donohue	\$ 6,535.00	653.50	\$ 392.10	\$ -0-

JUNE 2016

Water Pumped June 2016. 85,058,652 2.84 mgd
 Wastewater Effluent Flow June 2016. 61,030,000 2.03 mgd
 Missouri One Call Locate messages received for locates.....196
 Meters Issued as new. 1
 Meters Issued as replacements.....0
 Meters Issued as new for irrigation systems0
 Water breaks repaired.5
 Sewer Routines48
 Delinquent Accounts actually shut off in June 2016.45

WATER DEPARTMENT FIELD WORK PERFORMED – JUNE 2016

- | | |
|--|--|
| <ol style="list-style-type: none"> 1. Shop Maintenance 2. Meter/Swapping/Repair 3. Repair/Replace/Number Hydrants 4. Check Wells/Lift Stations/Heaters 5. Missouri One Call Locates 6. Hydrant Flushing/Painting 7. Dig up/Repair Curb Stops 8. Water Samples 9. Repair Water Break @ International 10. Water Break @ 905 E. 5th 11. Water Break @ Meadowlark 12. Water Break @ Stafford & 5th | <ol style="list-style-type: none"> 13. Water leak repair @ Dawn Valley 14. Repair Service Line @ 1210 W. 9th St. 15. Repair Valve @ Hancock 5th & Madison 16. Repair Curb Stop @ Riverview, Stafford 17. Mr. Manhole (8th St. Caroline Dr., Zero Ave. 18. Installed gravity flow pipe Well 8 19. Recalibrate Analyzer 20. Repair Hydrant @ 106 Jade 21. Repair Hydrant @ 1086 Washington Square 22. Repair Hydrant @ 1005 Marilyn 23. Sinkhole @ 426 Cedar |
|--|--|

WASTEWATER DEPARTMENT FIELD WORK PERFORMED – JUNE 2016

1. Sewer Routines
2. Daily lab work and routines.
3. Cleaned belt press.
4. Clean Process Filters
5. Run belt press.
6. Cleaned bar screen.
7. Sprayed all Lift Stations
8. Checked Drain & temp gauges
9. Cleaned polymer barrels
10. Televised Sewer Main @ Anniston
11. Worked on Elevators @ WLLS
11. Hauled Sludge
12. Cleaned Clarifiers
13. Replaced Various Hoses
14. Vehicles & Equipment Maintenance
15. Camera Various Sewer Lines
16. Sprayed for Weeds @ Painted Handrails
17. Sampling for DMR-QA
18. Sewer Call @ 107 Dawn
19. Inspected Sewer Main @ 6th

ROUTINE FIELD WORK

1. Read meters and performed rereads as necessary.
2. Performed read-outs on meters (persons moving in and out)
3. Installed reading device receptacles on houses where new/replacement meters were installed.
4. Issued meters and materials to contractors, owners, etc.
5. Took necessary water samples of the distribution system.
6. Flushed hydrants – scheduled routine flushing.
7. Wastewater lab work.
8. Root-sawed and/or cleaned sewer lines where necessary.
9. Hauled sludge.
10. Televised sewer lines.
11. Performed river gauge measurement.
12. Performed sewer and water service main inspections.
13. Located water and sewer lines.
14. Monitored construction of water and sewer mains in new developments.
15. Responded to service call requests.
16. Invoiced for meters, materials and other charges as necessary.
17. Performed maintenance and repairs on buildings, vehicles, and equipment.

Disinfectant Monitoring

PWS:	The City of Washington - Well # 3			
PWSID:	.MO6010838			
County:	Franklin			
Month:	June			
Date	Time	Free Cl (mg/l)	Total Cl (mg/l)	Sampler
1	8:50	1.46		CDC
2	7:33	1.99		CDC
3	8:20	2.14		CDC
4	8:19	1.64		AG
5	8:20	1.21		AG
6	9:00	1.65		CDC
7	8:17	1.6	1.87	CDC
8	8:20	1.56		CDC
9	8:27	0.8		KD
10	8:38	1.04		KD
11	6:11	1		RW
12	6:16	1.05		RW
13	8:40	1.08		BK
14	7:20	0.87	0.98	CDC
15	11:20	0.97		CDC
16	7:20	1.86		CDC
17	10:25	1.02		CA
18	6:54	1		CA
19	7:05	0.93		CA
20	8:13	0.96		CDC
21	9:02	1.11	1.45	CDC
22	9:10	0.6		CDC
23	8:45	0.6		CDC
24	8:45	0.56		BK
25	6:44	0.72		KD
26	7:33	0.66		KD
27	8:20	0.61		CA
28	8:27	0.58		CA
29	8:30	0.78		CA
30	7:46	0.78		AG
31				

Notes:

Disinfectant Monitoring

PWS:	The City of Washington - Well # 4			
PWSID:	.MO6010838			
County:	Franklin			
Month:	June			
Date	Time	Free Cl (mg/l)	Total Cl (mg/l)	Sampler
1	8:35	1.3		CDC
2	8:22	1.79		CDC
3	8:08	1.58		CDC
4	7:48	1.14		AG
5	8:06	1.12		AG
6	8:40	1.71		CDC
7	8:00	1.75	1.24	CDC
8	8:45	1.14		CDC
9	8:14	0.88		KD
10	7:57	0.98		KD
11	6:00	1.25		RW
12	6:36	0.87		RW
13	8:26	0.8		BK
14	7:43	0.71	1.01	CDC
15	11:10	0.53		CDC
16	7:10	0.73		CDC
17	9:00	0.7		BK
18	6:44	0.6		CA
19	7:04	0.63		CA
20	7:55	0.59	1.02	CDC
21	7:12	0.68		KD
22	8:55	0.79		CDC
23	8:27	0.73		CDC
24	8:30	0.66		BK
25	7:31	0.67		KD
26	7:20	0.7		KD
27	8:06	0.65		CA
28	8:18	0.64		CA
29	8:05	0.66		CA
30	8:00	0.56		RW
31				

Notes:

Disinfectant Monitoring

PWS:	The City of Washington - Well # 5			
PWSID:	.MO6010838			
County:	Franklin			
Month:	June			
Date	Time	Free Cl (mg/l)	Total Cl (mg/l)	Sampler
1	9:30	1.84		CDC
2	9:15	1.87		CDC
3	9:10	1.69		CDC
4	8:28	1.59		AG
5	8:36	1.64		AG
6	9:30	2.45		CDC
7	8:55	1.29	0.55	CDC
8	7:35	1.57		CDC
9	9:02	0.9		KD
10	9:33	0.94		KD
11	6:50	1.02		RW
12	7:00	0.89		RW
13	8:50	0.88		BK
14	7:15	0.87	1.2	CDC
15	11:55	0.84		CDC
16	8:00	0.85		CDC
17	10:35	0.78		BK
18	8:00	0.81		CA
19	8:00	1.62		CA
20	8:40	0.7		CDC
21	9:08	0.82	1.4	CDC
22	9:18	0.52		CDC
23	9:25	0.69		CDC
24	9:00	0.7		BK
25	6:04	0.68		KD
26	8:24	0.75		KD
27	9:00	0.72		CA
28	8:54	0.8		CA
29	9:00	0.7		CA
30	8:14	0.66		AG
31				

Notes:

Disinfectant Monitoring

PWS:	The City of Washington - Well # 6			
PWSID:	.MO6010838			
County:	Franklin			
Month:	June			
Date	Time	Free Cl (mg/l)	Total Cl (mg/l)	Sampler
1	8:24	0.99		CDC
2	8:10	1		CDC
3	8:00	1.08		CDC
4	7:40	1.04		AG
5	7:56	0.81		AG
6	8:33	0.95		CDC
7	7:50	0.98		CDC
8	7:42	0.91		KD
9	8:09	0.95		KD
10	7:52	0.94		KD
11	5:50	0.93		RW
12	5:45	0.93		RW
13	8:20	0.9		BK
14	7:45	0.9		CDC
15	11:00	0.84		CDC
16	7:00	0.87		CDC
17	9:00	0.88		CA
18	6:40	0.84		CA
19	7:00	0.84		CA
20	7:48	1.39		CDC
21	7:18	0.73	0.9	KD
22	8:45	0.65		CDC
23	8:10	0.57		CDC
24	8:20	0.59		BK
25	7:36	0.62		KD
26	7:08	0.65		KD
27	8:00	0.58		CA
28	8:12	0.62		CA
29	8:00	0.59		CA
30	8:00	0.61		BK
31				

Notes:

Disinfectant Monitoring

PWS:	The City of Washington - Well # 7			
PWSID:	.MO6010838			
County:	Franklin			
Month:	June			
Date	Time	Free Cl (mg/l)	Total Cl (mg/l)	Sampler
1	9:03	0.85		CDC
2	8:47	1.01		CDC
3	8:42	0.76		CDC
4	9:00	0.91		AG
5	9:10	0.92		AG
6	9:10	0.89		CDC
7	8:27	0.9		CDC
8	8:07	0.99		CDC
9	8:37	1		KD
10	8:57	0.87		KD
11	6:22	0.87		RW
12	7:15	0.87		RW
13	9:15	0.62		BK
14	7:00	0.69		CDC
15	11:34	0.69		CDC
16	7:30	1.2		CDC
17	10:50	0.51		BK
18	7:25	0.63		CA
19	7:10	0.55		CA
20	8:20	0.53		CDC
21	8:55	0.71		CDC
22	9:42	0.66		CDC
23	9:00	0.5		CDC
24	9:30	0.58		BK
25	6:28	0.68		KD
26	7:41	0.66		KD
27	8:30	0.6		CA
28	8:32	1.92		CA
29	8:35	0.82		CA
30	7:53	0.86		AG
31				

Notes:

Disinfectant Monitoring

PWS:	The City of Washington - Well # 8			
PWSID:	.MO6010838			
County:	Franklin			
Month:	June			
Date	Time	Free Cl (mg/l)	Total Cl (mg/l)	Sampler
1	7:55	1.44		CDC
2	7:43	1.39		CDC
3	7:40	1.28		CDC
4	7:27	1.14		AG
5	7:32	1.05		AG
6	8:00	1.33		CDC
7	7:27	0.73		CDC
8	7:55	0.93		KD
9	8:01	0.94		KD
10	7:30	0.83		KD
11	5:32	0.79		RW
12	6:00	0.83		RW
13	8:00	0.73		BK
14	7:52	0.72		CDC
15	10:35	0.71		CDC
16	6:26	0.65		CDC
17	9:15	0.63		BK
18	6:18	0.73		CA
19	6:55	0.63		CA
20	7:29	0.68		CDC
21	7:27	0.6		CDC
22	7:40	0.63		CDC
23	7:45	0.61		CDC
24	8:10	0.69		BK
25	7:43	0.59		KD
26	6:40	0.58		KD
27	7:33	1.3		CA
28	8:07	0.83		CA
29	7:53	0.89		CA
30	7:52	0.73		RW
31				

Notes:

Disinfectant Monitoring

PWS:	The City of Washington - Well # 9			
PWSID:	.MO6010838			
County:	Franklin			
Month:	June			
Date	Time	Free Cl (mg/l)	Total Cl (mg/l)	Sampler
1	7:40	1.1		CDC
2	7:35	1.04		CDC
3	7:30	1.00		CDC
4	7:00	1.59		AG
5	7:05	0.84		AG
6	7:52	0.89		CDC
7	7:18	0.85		CDC
8	9:20	0.83		CDC
9	7:42	0.82		KD
10	7:24	0.78		KD
11	5:09	0.75		RW
12	5:12	0.71		RW
13	7:45	0.68		BK
14	8:30	0.66		CDC
15	10:25	0.7		CDC
16	6:17	0.66		CDC
17	9:45	0.62		BK
18	5:20	0.65		CA
19	6:42	1.07		CA
20	7:17	0.82		CDC
21	7:10	0.79		CDC
22	7:30	0.59		CDC
23	7:33	0.58		CDC
24	7:45	0.53		BK
25	5:50	0.77		KD
26	6:27	0.69		KD
27	7:17	0.63		CA
28	7:45	0.6		CA
29	7:38	0.55		CA
30	7:36	0.57		RW
31				

Notes:

Disinfectant Monitoring

PWS:	The City of Washington - Well # 10			
PWSID:	.MO6010838			
County:	Franklin			
Month:	June			
Date	Time	Free Cl (mg/l)	Total Cl (mg/l)	Sampler
1	8:07	1.59		CDC
2	7:53	1.59		CDC
3	7:53	1.6		CDC
4	7:11	1.51		AG
5	7:16	1.84		AG
6	8:19	1.78		CDC
7	7:38	2.66	0.91	CDC
8	8:16	1.09		KD
9	7:51	0.97		KD
10	7:42	0.84		KD
11	5:19	0.86		RW
12	5:20	0.87		RW
13	8:00	0.8		BK
14	8:13	0.82	1.37	CDC
15	10:45	0.84		CDC
16	6:50	0.74		CDC
17	9:30	1.35		CA
18	6:00	0.88		CA
19	6:50	0.62		CA
20	7:37	0.74		CDC
21	7:27	0.71		KD
22	8:20	1.7		CDC
23	7:53	1.48		CDC
24	8:00	0.6		BK
25	7:50	0.61		KD
26	6:58	0.66		KD
27	7:25	0.73		CA
28	8:00	0.74		CA
29	7:46	0.73		CA
30	7:45	1.49		BK
31				

Notes:

Disinfectant Monitoring

PWS:	The City of Washington - Well # 11			
PWSID:	.MO6010838			
County:	Franklin			
Month:	June			
Date	Time	Free Cl (mg/l)	Total Cl (mg/l)	Sampler
1	9:17	1.9		CDC
2	8:57	1.89		CDC
3	8:55	2.04		CDC
4	8:40	1.85		AG
5	8:55	1.7		AG
6	9:20	1.79		CDC
7	8:37	1.76	1.99	CDC
8	7:55	1.07		CDC
9	8:51	1.63		KD
10	9:20	1.57		KD
11	7:00	1.68		RW
12	7:24	1.49		RW
13	9:35	1.62		BK
14	6:40	1.55	0.96	CDC
15	11:42	1.6		CDC
16	7:40	1.49		CDC
17	9:50	1.55		CA
18	7:30	1.39		CA
19	7:30	1.3		CA
20	8:30	1.8		CDC
21	8:40	1.5	1.13	CDC
22	9:30	1.95		CDC
23	9:13	0.69		CDC
24	9:40	0.75		BK
25	6:13	0.62		KD
26	8:04	0.75		KD
27	8:35	0.84		CA
28	8:44	2.76		CA
29	8:45	0.9		CA
30	8:02	0.85		AG
31				

Notes: