

**CITY OF OAK CREEK WATER & SEWER UTILITY**

**OFFICIAL NOTICE**

**PLEASE TAKE NOTICE** that the Water and Sewer Utility Commission will meet at the Oak Creek Water & Sewer Utility, 170 West Drexel Avenue, Oak Creek, Wisconsin, 53154 on Tuesday, September 11, 2018, at 9:00 am.

The purpose of this meeting will be to discuss the topics listed on the attached agenda.

It is possible that members of and possibly a quorum of members of our governmental bodies of the municipality may be in attendance at the above-stated meeting to gather information; no action will be taken by any governmental body at the above-stated meeting other than the governmental body specifically referred to above in this notice.

**PUBLIC NOTICE**

**Please Note:** Upon reasonable notice, a good faith effort will be made to accommodate the needs of disabled individuals through sign language interpreters or other auxiliary aid at no cost to the individual to participate in public meetings. Due to the difficulty in finding interpreters, requests should be made as far in advance as possible, preferably a minimum of 48 hours. For additional information or to request this service, contact the Oak Creek City Clerk at 414-766-7023 or write to the ADA Coordinator at the Health Department, City Hall, 8040 South 6<sup>th</sup> Street, Oak Creek, Wisconsin, 53154.

**DATED**, at Oak Creek, Wisconsin, this the 6th day of September, 2018.

/s/ Michael J. Sullivan  
General Manager

**A G E N D A**  
**WATER AND SEWER UTILITY COMMISSIONERS**  
**CITY OF OAK CREEK**

<u>TIME</u>	<u>DATE</u>	<u>LOCATION</u>
9:00 am	Tuesday September 11, 2018	Headquarters Building 170 West Drexel Avenue

**1.0 OPENING OF MEETING**

- 1.1 Roll Call
- 1.2 Minutes Approval - Regular Meeting 08-14-18

**2.0 CLOSED SESSION**

- 2.1 Closed session in accordance with Section 19.85 (1) (e) and (g) of the Wisconsin State Statutes for the following purpose:
  - A. Water Quality Improvement Project
  - B. Oak Creek – Franklin Municipal Water and Sewer Agreement
  - C. City of Franklin's Request to Abandon Standby Drinking Water Wells

**3.0 PROJECT APPROVALS**

- 3.1 Proceed with Construction of the Water Quality Improvement Project, While Waiting for PSC Approval
- 3.2 Creekside Water Main Extension
- 3.3 Orchard Hills Public Water Main and Sanitary Sewer Extension
- 3.4 Project Arrow Public Water Main and Sanitary Sewer Extension

**4.0 MISCELLANEOUS MATTERS**

- 4.1 Award Water Treatment Plant Locker Room Construction Project
- 4.2 Award I-94 and Puetz Road Water Main Relay Project

**5.0 FINANCIAL MATTERS**

- 5.1 Project Payment Approval
- 5.2 Voucher Approval
- 5.3 Utility Investments

**6.0 ADMINISTRATIVE & OPERATIONS REPORTS**

- 6.1 Aldermanic Report
- 6.2 Administrative Operations Report
- 6.3 Engineering Operations Report
- 6.4 Distribution Operations Report
- 6.5 Plant Operations Report
- 6.6 Manager's Report

**7.0 ADJOURN**

## Water Treatment Plant Locker Room Contract Award

Project Nos.: 18110

Date: September 11, 2018

**RECOMMENDATION: That the Commission consider a motion to approve the Water Treatment Plant Locker Room project and award a construction contract to the lowest responsive, responsible bidder, William Sackerson Construction, based on the bid amount of \$223,500.00.**

This project will renovate the existing locker room facilities at the water treatment plant in order to provide updated facilities for both the men and women.

The work was advertised, and the following bids were received:

<b>Contractor</b>	<b>Bid Amount</b>
<b>William Sackerson Construction</b>	<b>\$223,500.00</b>
Rasch Construction	\$239,400.00
Scherrer Construction	\$242,488.00

The capital budget for construction on this project is \$350,000.

## I-94 Water Main Crossing Contract Award

Project Nos.: 18108

Date: September 11, 2018

**RECOMMENDATION: That the Commission consider a motion to approve the I-94 Water Main Crossing project and award a construction contract to the lowest responsive, responsible bidder, Globe Contractors, based on the bid amount of \$889,665.00 and to amend the capital budget by the same.**

This project will mitigate conflicts with both a 16" and 24" water main crossing at I-94 and Puetz Road. The Wisconsin Department of Transportation will be reconstructing areas along the north leg between County Line Road and College Avenue. This proposed construction created conflicts with both of these crossings.

There were three bids provided by the contractors for this project. The work was advertised, and the following bids were received:

### Base Bid

The base bid includes relaying the same size pipes as existing. In this case, a 16" and 24" ductile iron pipe.

<b>Contractor</b>	<b>Bid Amount</b>
<b>Globe Contractors</b>	<b>\$889,665.00</b>
Super Excavators	\$991,975.00

### Alternate 1

Relay the existing 16" crossing as 24" ductile iron.

<b>Contractor</b>	<b>Bid Amount</b>
<b>Globe Contractors</b>	<b>\$949,025.00</b>
Super Excavators	\$1,108,290.00

### Alternate 2

Relay the existing 16" crossing as 30" concrete pressure pipe (PCCP)

<b>Contractor</b>	<b>Bid Amount</b>
<b>Globe Contractors</b>	<b>\$1,197,452.00</b>
Super Excavators	\$1,272,180.00

The Utility sought alternate bids for this project because water modelling showed that improved system flow characteristics could be achieved by upsizing the 16" pipe (north crossing) at this location to either a 24" ductile iron or 30" concrete pressure pipe. By upsizing the pipe in this location, this would serve to synchronize water levels in the orchard way reservoir and other system storage facilities. However, additional study revealed that extensive pipe upsizing would need to occur further east of the I-94/Puetz Road intersection that would likely never materialize.

Because constructing larger transmission pipe east of this intersection cannot be economically justified in the foreseeable future, the recommendation is to award the base bid of \$889,665.00.

## ADMINISTRATIVE OPERATIONS

August 2018

### Training:

Accounting Supervisor Stenzel attended the Wisconsin Section of the American Waterworks Association Management Seminar held in Milwaukee on August 8.

### Workload:

Other administrative tasks included the following:

1. Added 4 customer accounts for the month.
2. Billed 3,290 water customers and 3,412 sewer customers.

### Gallons Billed (in thousands):

	YTD 2018	YTD 2017	YTD 2016	YTD 2015	YTD 2014	Average
Residential	251,538	249,212	257,197	254,103	257,481	253,906
Commercial	292,217	307,383	294,051	288,149	284,650	293,290
Industrial	338,113	285,208	270,723	255,890	268,545	283,696
Public Authority	9,067	9,332	10,133	15,179	12,071	11,156
Wholesale	727,633	714,921	795,630	830,720	787,166	771,214
Total	1,618,568	1,566,056	1,627,734	1,644,041	1,609,913	1,613,262
% Change to Prior Year	3.4%	-3.8%	-1.0%	2.1%	N/A	
% Change to Average	0.3%	-2.9%	0.9%	1.9%	-0.2%	

### New Customers:

	YTD 2018	YTD 2017	YTD 2016	YTD 2015	YTD 2014	Average
Residential	23	17	18	15	15	17.6
Commercial	15	22	17	7	1	12.4
Industrial	0	0	0	1	0	0.2
Public Authority	1	0	1	1	0	0.6
Wholesale	0	0	0	0	0	-
Total	39	39	36	24	16	30.8

### New Residential Customers (YTD 2018):

8219 S. Alisa Lane, 8223 S. Alisa Lane, 375 E. Lily Drive, 380 E. Lily Drive, 365 E. Lily Drive, 2230 W. Southland Drive, 2300 W. Southland Drive, 9441 S. Nicholson Road, 165 E. Golden Lane, 1101 E. Wildflower Drive, 10110 S. Barrington Drive, 10130 S. Barrington Drive, 990 E. Peach Tree Lane, 1880 E. Lilac Lane, 1930 E. Lilac Lane, 10390 S. Willow Creek Drive, 360 E. Forest Hill Avenue, 380 E. Forest Hill Avenue, 2620 E. Oakwood Road, 9838 S. Chicago Road, 10068 S. Macintosh Lane, 10405 S. Redwood Lane, 3413 E. Elm Road

**New Commercial Customers (YTD 2018):**

Drexel Square Hotel, HSI Drexel Ridge (7 accounts), Storage Shop USA, IKEA, warehouse building on 10651 S. Oakview Parkway, GSI Family Investments of WI, Howell Avenue Retail II, Hoffman Storage LLC, We Energies – Admin Building

**New Public Authority Customers (YTD 2018):**

City of Oak Creek – 4001 E. Lake Vista Parkway

# ENGINEERING OPERATIONS

August 2018

## I-94 & Puetz road Water Main Crossing

Bids were opened for this project on August 17, 2018. Globe Contractors submitted the low proposal in \$889,665.00. This bid included a base bid to relay the north and south crossings at this location with the same pipe material and size. Two alternate bids were considered for upsizing the existing 16" ductile iron pipe to a 24" ductile iron and 30" concrete pressure pipe.

The Utility sought alternate bids for this project because water modelling showed that improved system flow characteristics could be achieved by upsizing the 16" pipe (north crossing) at this location to either a 24" ductile iron or 30" concrete pressure pipe. By upsizing the pipe in this location, this would serve to synchronize water levels in the orchard way reservoir and other system storage facilities. However, additional study revealed that extensive pipe upsizing would need to occur further east of the I-94/Puetz Road intersection that would likely never materialize.

Because constructing larger transmission pipe east of this intersection cannot be economically justified in the foreseeable future, the recommendation is to award the base bid of \$889,665.00.



Existing 24" D.I. Crossing

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Existing 16" D.I. Crossing

## 27<sup>th</sup> Street Water Main Extension

Plans and specifications for this project are 100% complete. The project is currently being advertised for bid. Bids will be opened on September 21, 2018. This project will extend water main in 27<sup>th</sup> Street from South Branch Blvd. to approximately 1,000' south of South Branch Blvd.

## Forest Hill Water Main Extension

Plans and specifications for this project are 95% complete. The project is expected to be advertised on September 12.

## East Depot Road Water Main Extension

This project is substantially complete. The only remaining items of work are asphalt and turf restoration. The water main has been installed and is in operation.



## **DISTRIBUTION & COLLECTION OPERATIONS**

**August 2018**

### **Water Main Breaks:**

On August 2<sup>nd</sup> at 2:30 p.m. the Utility received a report of a possible main break at 8475 South Jean Avenue. A crew was called in to repair an 8" CIP that had a blow hole. The main was installed in 1956.

On August 15<sup>th</sup> at 3:15 p.m. the Utility received a call of a possible main break at 435 East Golden Lane. The crew excavated the water main and found a blowhole in the 6" DIP that was installed in 1969.

On August 24<sup>th</sup> at 9:00 p.m. the Utility received a report of a possible main break at 9920 South Darlene Lane. A crew was called in to repair an 8" DIP that had a blow hole. The main was installed in 1977.

### **Water Lateral Repairs:**

In the month of August, there were no laterals repaired.

### **Water Gate Valves Repaired:**

On August 27<sup>th</sup> a crew was sent to repair a 6" gate valve at 2030 East Spruce Court that was reported leaking by a resident. When the crew excavated the valve, they found the bonnet was leaking. The bonnet and packing bolts were replaced.

### **Fire Hydrant Maintenance:**

Summer workers painted 78 hydrants in subdivisions.

### **East Depot Road Water Main:**

On August 13<sup>th</sup> the Utility started the water main extension on East Depot Road and finished on the 15<sup>th</sup>. This included 130 feet of 8" main and installing one hydrant. After the main was pressure tested and safe sampled, the 42' water lateral was installed at 3953 East Depot Road on August 29<sup>th</sup>.

### **Sanitary Sewer Maintenance:**

In the month of August, Utility workers completed 6 maintenance tasks including: lowering a manhole frame and repairing manhole cover seals, along with cleaning and televising of mains.

### **Miscellaneous:**

In the month of August, Utility workers completed 2 restoration projects from previous water main repairs.



## PLANT OPERATIONS

August, 2018

<b>PUMPAGE REPORT</b>	<b>2018</b>	<b>2017</b>	<b>% Change</b>	<b>5 Year %</b>
Monthly Pumpage	279,527,000	270,764,000	+3.2	+0.7
Monthly Average Day	9,017,000	8,734,000	+3.2	+0.7
Monthly Peak Day	(8/19) 10,880,000	(8/27) 10,510,000	+3.5	-0.3
Yearly Pumpage	1,868,436,000	1,765,865,000	+5.8	+1.3
Yearly Average Day	7,689,000	7,267,000	+5.8	+1.4
Yearly Peak Day	(7/11) 12,110,000	(8/27) 10,510,000	+15.2	+2.7
West Zone Pumpage	121,640,000	119,930,000	+1.4	-10.81

<b>WATER QUALITY REPORT</b>	<b>Raw Water</b>	<b>Finished Water</b>
Average Free Chlorine		1.58 mg/l
Total Chlorine		1.74 mg/l
Average Alkalinity	108.3 mg/l	109.1 mg/l
Average pH	8.4	8.2
Average Fluoride	0.14 mg/l	0.69 mg/l
Average Turbidity	4.63 NTU	0.04 NTU
Average Temperature	63.7 F	
Hardness	137 mg/l	137 mg.l

**Preventative Maintenance Tasks:** Staff completed 121 preventative maintenance tasks, 9 miscellaneous work orders, and 2 safety sessions during the month.

**Operators:** Operator Ludke has passed her Operator Certification Exam and continues her training for the relief operator position. Operator White participated in the filming of a commercial for ATC.

**Plant:** National Wash Authority was on site 8/20/18 to clean and wash the backwash tower. J.F. Ahern and Pieper Electric installed the new flow meter at 22<sup>nd</sup> St. Booster Station on 8/30/18.

