

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, March 12, 2019, 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 6th Street, Oak Creek, Wisconsin, 53154.

DATED, at Oak Creek, Wisconsin, this the 7th day of March, 2019.

/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 March 12, 2019	Headquarters Building 170 West Drexel Avenue

1.0 OPENING OF MEETING

- 1.1 Roll Call
- 1.2 Minutes Approval - Regular Meeting 02-12-19

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

3.0 PROJECT APPROVALS

4.0 MISCELLANEOUS MATTERS

- 4.1 Excavator Approval
- 4.2 Water Tower Cleaning Approval
- 4.3 Cell Tower Escrow Policy
- 4.4 Replacement Fluoride Metering Pump and Motor
- 4.5 UCMR4 Testing-Laboratory Costs

5.0 FINANCIAL MATTERS

- 5.1 Treatment Plant Locker Room Change Order No. 1
- 5.2 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

2019 Excavator and Trailer Bids

The Utility received bids from Brooks Tractor and Miller Bradford for a new excavator and a new trailer for transporting it.

Brooks Tractor:

<u>Make</u>	<u>Model</u>	<u>Warranty</u>	<u>Price</u>
John Deere	85-G	12 Month, unlimited hours	\$99,900.00
Hitachi	ZX85-5	12 Month, unlimited hours	\$105,200.00
Felling Trailer	FT-24-2LP	12 Month full warranty Limited life time structural	\$16,495.00

Miller Bradford & Risberg, Inc.

<u>Make</u>	<u>Model</u>	<u>Warranty</u>	<u>Price</u>
Case	CX80C	36 Month, 3,000 hours	\$95,283.00
Kobelco	SK85	36 Month, 3,000 hours	\$102,675.00
Towmaster	TC-24	12 Month full warranty 10 Year – suspension Limited life time – frame	\$15,315.00

Package Price:	Case CX80C	\$95,283.00
	Towmaster trailer	<u>\$15,315.00</u>
	Total	\$110,598.00
	2% Discount	<u>\$2,211.96</u>
	Total cost	\$108,386.04

2019 CIP budget for excavator and trailer \$145,000.00

Recommend purchasing a Case CX80C excavator and Towmaster trailer for \$108,386.04
Delivery to be made within 50 calendar days.

Miller Bradford & Risberg, Inc. offered a 2018 CX80C demo unit for \$1,250.00 less than the new one.



TOWMASTER®

Deck-Over
TC-20 / TC-24



Dexter slipper-spring suspension provides the capacity you need at a budget price.



Self-cleaning angle iron beaver tail also provides positive traction when loading equipment.



Off-the-ground spring assist ramps for easy ramp lifting. Grommet mounted LED lights are standard.

Description:

Get great value with the TC-series by Towmaster®. These models are built on heavy-duty I-beam frames and feature the basics you need without breaking your budget; adjustable hitch, slipper-spring suspension, off-the-ground spring-assist ramps, oak wood deck and sealed wiring and lights. If you need a budget trailer to haul your equipment, the Towmaster® TC is the perfect investment.

Quick Specs:

- 36" deck height (empty)
- 8'-6" deck width
- 20' deck length
- Electric brakes (Air optional)
- General Duty spring suspension
- Self-cleaning angle-iron beaver tail
- One-way spring-assist ramps
- LED lights and sealed wiring

towmaster.com

Photos may show optional equipment.

800-462-4517

**U.S.A. BUILT
EMPLOYEE OWNED**



**GALVANIZING
AVAILABLE**



Tower Cleaning Quotes

Howell Tower:

KLM Engineering Inc.	\$10,444.00
National Wash Authority	\$6,100.00
Water Tower Clean & Coat Inc.	\$4,800.00

Sycamore Tower:

Water Tower Clean & Coat Inc.	\$4,200.00
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2019 CIP budget for Howell Tower	\$6,100.00
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The quotes from Water Tower Clean & Coat Inc. came in less than what was budgeted for Howell Tower. After Sycamore Tower was inspected, it was determined that it also should be cleaned in 2019.

Recommend cleaning both towers at a cost of \$9,000.00

Policy for entering into a cellular review fee agreement

Date: March 12, 2019

RECOMMENDATION: That the Commission consider a motion to create a policy for the agreement to pay cellular review fees.

The Utility receives requests to add cellular equipment to the Howell and Sycamore towers as well as the Orchard Way Reservoir. These requests involve a structural review of the effects to the equipment on our facility. The policy will create a \$5000 escrow to be established prior to the structural analysis being started. This escrow will be used to pay the review fees of the Consultant hired by the Utility to perform the review. The Utility is not required to hold the funds in any special or trust account, but may commingle the funds with other funds of the Utility. Any money left over in the escrow will be refunded to the Provider after the project is completed to the Utility's standard.



WATER and SEWER UTILITY

170 West Drexel Avenue, Oak Creek, WI 53154
water.oak-creek.wi.us
414-570-8210

**OAK CREEK WATER AND SEWER UTILITY
AGREEMENT TO PAY CELLULAR REVIEW FEES**

PROVIDER: _____

ADDRESS: _____

CITY/STATE/ZIP CODE: _____

LOCATION: _____

The above Provider (the "Provider") has requested the Oak Creek Water and Sewer Utility (the "Utility") to consider the installation of certain telecommunications equipment on Utility property to facilitate the Provider's cellular telecommunications network. Provider hereby agrees to reimburse the Utility for all costs relating to staff, legal and engineering review of the request. Said reimbursement to be limited to \$5,000.

As security the Provider hereby tenders with this agreement the sum of \$5,000 and authorizes the Utility to bill against it as payment for such costs as they are incurred.

The Utility will refund to the Provider any unused portion of the deposit within 30 days after completion of all review services pertaining to the Provider's request and full payment thereof.

The Provider acknowledges the legal and/or engineering consultants retained by the Utility are acting exclusively on behalf of the Utility and not the Provider. The Provider further acknowledges this agreement to pay review fees and posting of such deposit shall not be deemed a representation, warranty or guarantee that the Provider's request will be approved by the Utility at any time.

PROVIDER

By: _____

By: _____

(Name & Title)

(Name & Title)

Date

Date

Replacement Fluoride Metering Pump and Motor

Date: March 12, 2019

RECOMMENDATION: That the Commission consider a motion to authorize the Plant Manager to purchase a replacement Fluoride metering pump and motor in the amount of \$7,952.00.

Equipment included in this cost is as follows:

- UGSI/Wallace and Tiernan Encore 700 diaphragm pump for metering 23% Hydrofluosilicic acid
- ½ hp 1750rpm Baldor inverter-duty motor
- VFD drive with NEMA 4X enclosure box with 4-20mA signal
- One day of start-up and training by Energenecs trained technician

The current Fluoride metering pump and controller were purchased and installed in January 1999. This equipment has far exceeded its expected life span and is no longer supported by Wallace and Tiernan. The new metering pump and equipment was ordered to the specifications of the proposed Fluoride room equipment. This equipment will be able to be moved to the new location as a primary pump or a backup if needed. The pump is sized the same as the current pump, so all spare parts on hand can still be used.

UCMR4 Testing-Laboratory Costs

Date: March 12, 2019

RECOMMENDATION: That the Commission consider a motion to authorize the Plant Manager to contract Northern Lakes Service for required UCMR4 testing.

Quote 1: Pace Analytical Services, Osmond Beach, FL \$7968.00

Quote 2: Northern Lakes Service, Crandon, WI \$8276.80

Due to the temperature sensitive nature of these samples, I believe it is best to contract the Laboratory that is closer to our location. The savings of \$308.80 would be lost if any of the samples arrived out of temperature parameters. Northern Lakes Service also has an office in Waukesha, WI so hand delivery of samples is possible if needed.

WATER TREATMENT PLANT LOCKER ROOM

PROJECT 18110

INITIATED BY WILLIAM SACKERSON CONSTRUCTION CO., INC.

DATE INITIATED: February 6, 2019

Work authorization for furnishing the necessary labor, materials and equipment to perform the following:

ITEM NO.	ITEM DESCRIPTION	QUANTITY UNIT	UNIT PRICE	COST
E-1	Remove concrete locker pads	1 LS	\$258.75	\$258.75
E-2	Construct new wood locker pads	1 LS	\$564.65	\$564.65
E-3	Run new water supply from ceiling to feed lavs	1 LS	\$2,653.15	\$2,653.15
E-4	Removal of block to install new 1" water service	1 LS	\$1,100.00	\$1,100.00
	TOTAL CHANGE ORDER			\$4,576.55

E = Contract Extra, C = Contract Credit

Project contract amount - \$223,500.00

Change Order amount - \$4,576.55

Total contract amount - \$228,076.55

**OAK CREEK WATER AND SEWER UTILITY
PROGRESS PAYMENT REPORT**

Item No.	Item Description	Bid		Visu-Sewer, Inc W230 N4855 Belker Dr. Pewaukee, WI 53072		Partial Payment No. 1 May 8th, 2018		Partial Payment No. 2 August 14th, 2018		Partial Payment No. 3 March 12, 2019		PROJECT TOTAL	
		Quantity	EA	Unit Price	Total Price	Quantity Complete	Cost Complete	Quantity Complete	Cost Complete	Quantity Complete	Cost Complete	Quantity Complete	Cost Complete
1	PVC Sanitary Sewer Spot Repair (5-10LF)	4	EA	\$7,875.00	\$31,500.00	4.00	\$31,500.00		\$0.00		\$0.00	4.00	\$31,500.00
2	PVC Sanitary Sewer Spot Repair (10-15LF)	4	EA	\$10,500.00	\$42,000.00	4	\$42,000.00		\$0.00		\$0.00	4.00	\$42,000.00
3	6-Inch PVC Sanitary Lateral Relay	34	LF	\$417.00	\$14,178.00	24.00	\$10,008.00		\$0.00		\$0.00	24.00	\$10,008.00
4	6-Inch PVC Sanitary Riser Lateral Relay	29	VF	\$490.00	\$14,210.00	15	\$7,350.00		\$0.00		\$0.00	15.00	\$7,350.00
5	8-Inch CIPP Liner	3,866	LF	\$22.85	\$88,338.10	3,365.00	\$77,347.25	484.00	\$11,059.40		\$0.00	3,869.00	\$88,406.65
6	10-Inch CIPP Liner	152	LF	\$44.20	\$6,718.40	152	\$6,718.40	159	\$7,027.80		\$0.00	311.00	\$13,746.20
7	12-Inch CIPP Liner	123	LF	\$62.00	\$7,626.00	123	\$7,626.00	134	\$8,308.00		\$0.00	257.00	\$15,934.00
8	15-Inch CIPP Liner	66	LF	\$152.00	\$10,032.00	-	\$0.00	69.00	\$10,488.00		\$0.00	69.00	\$10,488.00
9	18-Inch CIPP Liner	1,089	LF	\$44.50	\$48,460.50	1,067	\$47,481.50	26	\$1,157.00		\$0.00	1,093.00	\$48,638.50
10	21-Inch CIPP Liner	1,335	LF	\$60.00	\$80,100.00	-	\$0.00	1,334.00	\$80,040.00		\$0.00	1,334.00	\$80,040.00
11	24-Inch CIPP Liner	163	LF	\$164.00	\$26,732.00	-	\$0.00	166.00	\$27,224.00		\$0.00	166.00	\$27,224.00
12	30-Inch CIPP Liner	256	LF	\$162.30	\$41,548.80	-	\$0.00	253	\$41,061.90		\$0.00	253.00	\$41,061.90
13	8-Inch CIPP Short Liner	14	LF	\$338.00	\$4,732.00	-	\$0.00	15.00	\$5,070.00		\$0.00	15.00	\$5,070.00
14	10-inch CIPP Short Liner	32	LF	\$250.00	\$8,000.00	-	\$0.00	17	\$4,250.00		\$0.00	17.00	\$4,250.00
15	12-Inch CIPP Short Liner	10	LF	\$467.00	\$4,670.00	-	\$0.00	11.00	\$5,137.00		\$0.00	11.00	\$5,137.00
16	8-Inch PVC Sanitary Sewer Relay	156	LF	\$242.00	\$37,752.00	156	\$37,752.00		\$0.00		\$0.00	156.00	\$37,752.00
17	10-inch PVC Permitted Sanitary Sewer	90	LF	\$278.00	\$25,020.00	-	\$0.00		\$0.00		\$0.00	-	\$0.00
18	8-Inch PVC-C900 Sanitary Sewer Relay	41	LF	\$655.00	\$26,855.00	-	\$0.00		\$0.00	22.50	\$14,737.50	22.50	\$14,737.50
19	10-Inch PVC-C900 Sanitary Sewer Relay	40	LF	\$665.00	\$26,600.00	20	\$13,300.00		\$0.00	(20)	-\$13,300.00	-	\$0.00
20	12-Inch PVC Sanitary Sewer	14	LF	\$849.00	\$11,886.00	14.00	\$11,886.00		\$0.00		\$0.00	14.00	\$11,886.00
21	Test & Seal Lateral Connections	70	EA	\$300.00	\$21,000.00	-	\$0.00	67.00	\$20,100.00	(9.00)	-\$2,700.00	58.00	\$17,400.00
22	Sanitary Manhole Abandonment	4	EA	\$630.00	\$2,520.00	5.00	\$3,150.00		\$0.00		\$0.00	5.00	\$3,150.00
23	Sanitary Sewer Abandonment	1,223	LF	\$11.00	\$13,453.00	865.00	\$9,515.00		\$0.00	367.00	\$4,037.00	1,232.00	\$13,552.00
24	48" Dia Precast Sanitary Sewer Manhole	20	VF	\$420.00	\$8,400.00	10.00	\$4,200.00		\$0.00		\$0.00	10.00	\$4,200.00
25	Sewer Manhole Bench Adjustment	2	EA	\$683.00	\$1,366.00	1.00	\$683.00		\$0.00		\$0.00	1.00	\$683.00
28	Sanitary Sewer Relay Trench EBS	97	CY	\$105.00	\$10,185.00	-	\$0.00		\$0.00		\$0.00	-	\$0.00
27	Dense Graded Base (3")	211	TON	\$11.00	\$2,321.00	-	\$0.00		\$0.00		\$0.00	-	\$0.00
E-1	Manhole Flat Top	1	LS	\$1,500.00	\$1,500.00				\$0.00	1.00	\$1,500.00	1.00	\$1,500.00
E-1	Reinstatement of Unknown Lateral	1	LS	\$600.00	\$600.00				\$0.00	1.00	\$600.00	1.00	\$600.00
E-1	Grout Unknown Leak	1	LS	\$600.00	\$600.00				\$0.00	1.00	\$600.00	1.00	\$600.00
TOTAL ITEMS 1-27 (inclusive)					\$580,478.80		\$310,517.15		\$220,923.10		\$6,474.60		\$536,914.75

Sub-Total Completed To Date	\$536,914.75
Less Allowance for testing and approval	2.5% - \$13,422.87
Less Retainage (5% to 60% complete)	5% - \$14,511.87
Total	\$508,979.91
Less Previous Payments	\$463,784.25
TOTAL PAYMENT DUE THIS PERIOD	\$45,195.66

Recommended for Commission Approval by: *[Signature]* Date: 2-28-19

APPLICATION AND CERTIFICATION FOR PAYMENT AIA DOCUMENT G702

TO (OWNER): City of Oak Creek
 7300 S. 13th Street
 Oak Creek, WI 53154

PROJECT: City of Oak Creek Water Treatment
 Plant Locker Rooms

Distribution to:
 OWNER
 ARCHITECT
 CONTRACTOR

FROM (CONTRACTOR):
 William Sackerson Constr. Co., Inc.
 PO Box 100318
 Cudahy, WI 53110

VIA (ARCHITECT):
 CH2M Hill
 135 S. 84th St.
 Milwaukee, WI 53214

PERIOD TO: 2/28/19

ARCHITECT'S
 PROJECT NO: 460402

CONTRACT DATE: 10/1/18

CONTRACTOR'S APPLICATION FOR PAYMENT

CHANGE ORDER SUMMARY		ADDITIONS	DEDUCTIONS
Change Order approved in previous months by owner			
TOTAL			
Approval this Month	Date Approved		
Number			
TOTALS			
Net change by change Orders			

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

CONTRACTOR: William Sackerson Constr. Co., Inc.

By: *[Signature]* Date: 2/27/2019

ARCHITECT'S CERTIFICATION FOR PAYMENT

In accordance with the Contract Documents, based on on-site observations and the data comprising the above application, the Architect certifies to the Owner that to the best of the Architect's knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

Application is made for Payment, as shown below, in connection with the Contract. Continuation Sheet, AIA Document G703, is attached.

1. ORIGINAL CONTRACT SUM \$ 223,500.00
2. Net change by Change Orders \$ 0
3. CONTRACT SUM TO DATE (Line 1 ± 2) \$ 223,500.00
4. TOTAL COMPLETED & STORED TO DATE \$ 50,690.00
 (Column G on G703)
5. RETAINAGE:
 a. 10 % of Completed Work \$ 5,069.00
 (Column D + E on G703)
 b. _____ % of Stored Material \$
 (Column F on G703)
 Total Retainage (Line 5a + 5b or Total in Column I of G703 \$ 5,069.00
6. TOTAL EARNED LESS RETAINAGE \$ 45,621.00
 (Line 4 less Line 5 Total)
7. LESS PREVIOUS CERTIFICATES FOR PAYMENT (Line 6 from prior Certificate) \$ 30,951.00
8. CURRENT PAYMENT DUE \$ 14,670.00
9. BALANCE TO FINISH, PLUS RETAINAGE \$ 177,879.00
 (Line 3 less Line 6)

State of: Wisconsin
 County: Milwaukee
 Subscribed and sworn to before me this 27 day of February, 2019

Notary Public: *[Signature]*
 My Commission expires: 11/12/22

JOHN W. SACKERSON

AMOUNT CERTIFIED \$ 14,670.00

(Attach explanation if amount certified differs from the amount applied for.)

By: *Richard Siebers* Date: February 28, 2019

AIA Document G702, APPLICATION AND CERTIFICATE FOR PAYMENT, containing Contractor's signed Certification is attached.

Application Number: 2
 Application Date: 2/27/2019
 Period To: 2/28/2019
 Architect's Project No:

A ITEM NO.	B DESCRIPTION OF WORK	C SCHEDULED VALUE	D WORK COMPLETED		E THIS PERIOD	F MATERIALS PRESENTLY STORED (Not in D or E)	G TOTAL COMPLETED AND STORED TO DATE (D+E+F)	H BALANCE TO FINISH (C-G)	I RETAINAGE
			FROM PREV. APPLICATION (D+E)						
1	Bond	3,000.00	3,000.00		0.00	0.00	3,000.00	0.00	0.00
2	Submittals	4,000.00	2,400.00		400.00	0.00	2,800.00	1,200.00	0.00
3	Mobilization	6,000.00	6,000.00		0.00	0.00	6,000.00	0.00	0.00
4	Demolition	20,000.00	15,000.00		0.00	0.00	15,000.00	5,000.00	0.00
5	Masonry	45,000.00	0.00		0.00	0.00	0.00	45,000.00	0.00
6	Carpentry	5,000.00	0.00		0.00	0.00	0.00	5,000.00	0.00
7	Frames, Doors & Hardware	7,000.00	0.00		7,000.00	0.00	7,000.00	0.00	0.00
8	Drywall	2,800.00	0.00		0.00	0.00	0.00	2,800.00	0.00
9	Tile	16,000.00	0.00		0.00	0.00	0.00	16,000.00	0.00
10	Acoustical	4,100.00	0.00		0.00	0.00	0.00	4,100.00	0.00
11	Paint	8,600.00	0.00		0.00	0.00	0.00	8,600.00	0.00
12	Toilet Partitions	5,000.00	0.00		0.00	0.00	0.00	5,000.00	0.00
13	Toilet Accessories	2,700.00	0.00		0.00	0.00	0.00	2,700.00	0.00
14	Lockers	10,500.00	0.00		0.00	0.00	0.00	10,500.00	0.00
15	Window Shades	900.00	0.00		0.00	0.00	0.00	900.00	0.00
16	Plumbing	40,000.00	6,000.00		2,000.00	0.00	8,000.00	32,000.00	0.00
17	HVAC	23,000.00	0.00		6,900.00	0.00	6,900.00	16,100.00	0.00
18	Electrical	19,900.00	1,990.00		0.00	0.00	1,990.00	17,910.00	0.00
Totals		223,500.00	34,390.00		16,300.00	0.00	50,690.00	172,810.00	0.00

ADMINISTRATIVE OPERATIONS

February 2019

Year End:

Accounting Supervisor Stenzel and staff are working on closing out the financial records for the year 2018. This process involves reconciling several accounts and preparing workpapers to facilitate the year-end audit. All departments help with closing out projects and conducting inventories. The financial audit is scheduled for March 21 and 22.

Meetings:

Accounting Supervisor Stenzel attended the Wisconsin Section of American Water Works Association annual conference planning meeting on February 6 in Wisconsin Dells and management committee meeting on February 8 in Oak Creek.

Workload:

Other administrative tasks included the following:

1. Added 4 customer accounts for the month.
2. Billed 3,301 water customers and 3,419 sewer customers.

Gallons Billed (in thousands):

	YTD 2019	YTD 2018	YTD 2017	YTD 2016	YTD 2015	Average
Residential	41,094	43,100	42,250	40,885	41,986	41,863
Commercial	66,342	64,235	69,648	64,879	65,604	66,142
Industrial	79,193	78,931	64,237	57,400	64,407	68,834
Public Authority	1,927	2,105	2,143	2,734	3,531	2,488
Wholesale	216,925	209,286	207,796	206,247	228,947	213,840
Total	405,481	397,657	386,074	372,145	404,475	393,167
% Change to Prior Year	2.0%	3.0%	3.7%	-8.0%	N/A	
% Change to Average	3.1%	1.1%	-1.8%	-5.3%	2.9%	

New Customers:

	YTD 2019	YTD 2018	YTD 2017	YTD 2016	YTD 2015	Average
Residential	3	9	0	6	5	4.6
Commercial	6	5	3	0	1	3.0
Industrial	0	0	0	0	1	0.2
Public Authority	0	0	0	0	0	-
Wholesale	0	0	0	0	0	-
Total	9	14	3	6	7	7.8

New Residential Customers (YTD 2019):

9001 S. 15th Avenue, 8850 S. 6th Avenue, 1800 E. Lilac Lane

New Commercial Customers (YTD 2019):

Verizon Wireless, EVCAP Oak Creek LLC, Dr. Hartman/Dr. Tolzman, 120 W. Town Square Way (Ste 200), 120 W. Town Square Way (Ste 300), Oakview Industrial Property

ENGINEERING OPERATIONS

February 2019

I-94 & Puetz Road Water Main Crossing

Globe Contractors has completed the 16" ductile iron water main crossing at I-94 on the north side of Puetz Road and the main is in operation. The Contractor has pushed the casing for the 24" water main under the freeway. This casing has been inspected and water main installation is to continue this month. The project is scheduled to be completed this Spring.

27th Street Water Main Extension

Globe Contractors has completed the 12" water main installation in 27th Street south of Southbranch Boulevard. The main is now in service. Curb replacement and grass restoration will be completed in the Spring.

Wildwood Drive Water and Sewer Replacement Project

The engineer has completed the design. This project will be advertised in March with the bid opening scheduled for March 29. The project will relay 1810 LF of 8" water main. It will place a structural lining in 335 LF of 8" water main under the creek. The project also will relay 90 LF of 8" PVC sanitary sewer, 25 LF of 12" PVC sanitary sewer and 100 LF of 27" RCP sanitary sewer. The creek crossing will be accomplished by jack and boring 95 LF of 8" PVC sanitary sewer. This project will be completed in advance of the City street project this summer.

College Avenue Water Main Replacement Project

The consultant is working on the final plans for the project. There was an address error on the resolution to declare the intent to exercise special assessment powers. This will need to go back to Council for approval prior to the public notice moving forward. The work will be entirely directional drilled in College Avenue to avoid pavement restoration costs.

Forest Hill Avenue Water Main Replacement Project

The project has started construction of the E. Forest Hill Avenue project. This will connect two dead end sections and install approximately 1800 LF of 8" PVC water main. The majority of this project is constructed by direction drill operations. Forest Hill Avenue is closed to through traffic during this project.

Fitzsimmons Road Water Main Replacement Project

Preliminary engineering has begun on this 700-foot project. Construction is anticipated in the fall.

Development Project with Utility Construction

The following development projects which involve utility construction are actively underway.

HSI Orchard Hills (27th Street, north of Honadel Boulevard)

Amazon (13th Street and Ryan Road)

St. John's Properties (Howell Avenue and Rawson Avenue)

East Brooke Preserve Phase II (Nicholson Road, north of Ryan Road)

DISTRIBUTION & COLLECTION OPERATIONS

February 2019

Water Main Breaks:

On February 11th the Utility had a report of a water main break at 8436 South Howell Avenue. A crew was called in to repair a 12" CIP installed in 1958. With the frost in the ground it made it difficult to locate the leak. When the crew excavated the water main, they found a circumferential break.

Water Lateral Repairs:

There were no water lateral repairs in the month of February.

Fire Hydrant Repairs:

On February 4th a crew was sent to South 20th Street and West Carrington Avenue to repair a hydrant hit by a city snow plow truck.

On February 5th a crew was sent to 10380 South Oakview Parkway to repair a hydrant hit by a city plow truck.

On February 28th a crew was sent to South Liberty Lane and West Puetz Road to repair a hydrant hit by a city snow plow truck.

On February 28th a crew was sent to 2202 West Vista Bella Court to replace the 2 ½" nozzle on a fire hydrant damaged by a city snow plow truck.

Valve Repairs:

There were no valve repairs in the month of February.

Sewer repairs:

In February Utility workers replaced manhole cover seals along with cleaning and televising of mains.

Miscellaneous:

On February 5th and 6th Distribution Manager Schwartz attended the WIAWWA Distribution Expo in Wisconsin Dells.

On February 5th Utility Service Workers Struebing, Allard, Flatow, Proeber and Construction Coordinator Ricker attended the WIAWWA Expo in the Wisconsin Dells. Utility Workers Proeber and Ricker competed in Hydrant Hysteria taking 3rd place.

On February 6th Utility Service Workers Volbrecht, Price, Pier and Maughan attended the WIAWWA Expo in the Wisconsin Dells. Utility Service Worker Maughan competed in Meter Madness taking 2nd place.

On February 7th Utility Service Workers Volbrecht, Pier, Flatow and Distribution Manager Schwartz attended Inspection 2019 sponsored by Milwaukee Metropolitan Sewerage District and held at the Oak Creek City Hall.

On February 14th Distribution Manager Schwartz along with Utility Engineer Johnston attended the 2019 Annual Utility Conference for the DOT Southeastern region. The conference was held at the Waukesha County Technical College.

PLANT OPERATIONS

February, 2019

PUMPAGE REPORT	2019	2018	% Change	5 Year %
Monthly Pumpage	194,648,000	185,140,000	+5.1	+2.0
Monthly Average Day	6,951,714	6,612,000	+5.1	+2.7
Monthly Peak Day	(02/10) 8,550,000	(02/04) 9,010,000	-5.1	+3.0
Yearly Pumpage	403,822,000	395,821,000	+2.0	+0.4
Yearly Average Day	6,844,440	6,709,000	+2.0	+0.8
Yearly Peak Day	(01/02) 8,940,000	(02/04) 9,010,000	-0.8	+4.0
West Zone Pumpage	90,888,000	84,040,000	+8.4	+0.3

WATER QUALITY REPORT	Raw Water	Finished Water
Average Free Chlorine		1.63 mg/l
Total Chlorine		1.81 mg/l
Average Alkalinity	114.3 mg/l	115.6 mg/l
Average pH	8.3	8.1
Average Fluoride	0.16 mg/l	0.74 mg/l
Average Turbidity	4.52NTU	0.032 NTU
High Temperature	High 36.2 F Low 33.9 F	
Hardness	137 mg/l	137 mg/l

Preventative Maintenance Tasks: Staff completed 164 preventative maintenance tasks and 2 safety sessions during the month.

Work Orders: Staff completed 9 work orders. Some of the tasks include updating to LED bulbs in the filter gallery, discharge room and raw water pump station, replacing a fan motor on a hanging furnace, replacing emergency lights and repairing a leak on a booster pump.

Plant: Work continues on the locker room update including installing water supply lines, drain piping and building block walls. The installation of new turbidity meters is now complete.

