

Tuesday, April 28, 2015  
8:00AMCity Hall, Council Chambers  
23 N 2<sup>nd</sup> Street**AGENDA****COMMISSION  
MEMBERS**ADAM WEBSTER  
TERM EXP. 2020SCOTT BORCHARDT  
TERM EXP. 2017DALE ARTHUR  
TERM EXP. 2019BILL ERICKSON  
CHAIRPERSON  
TERM EXP. 2018BILL PAULSON  
TERM EXP. 2016“WINTER,  
SPRING,  
SUMMER, FALL...  
TOMAHAWK  
HAS IT ALL”

1. **CALL TO ORDER**
2. **PUBLIC COMMENTS** (During this item on the agenda the Commission listens to oral comments from members of the public on non-agenda items. When speaking please state your name and limit your time to five minutes.)
3. **MINUTES –**
  - 1.) April 14, 2015
4. **CHECKS – 15319 – 15367** in the amount of \$280,543.05
5. **FINANCIAL REPORT – April 2015**
6. **OLD BUSINESS**
  - a. Capacity, Management, Operation and Maintenance (CMOM) Report
  - b. Waste Water Projects
    - Waste Water Plant Updates
    - Collection System/Rehabilitation Updates
    - Pipe Bursting
    - WWTF Upgrade – Change Order No.1 – Addition of Grit Pad
    - WWTF Upgrade – Change Order No. 2 – Primary Sump Pump Change, convert LS #5, 10, 12, and 13 to 480V service, remove OmniSites at LS #5,10, and 13, Add location control station at LS #5, 10, 12, and 13, add conduit for primary clarifier condensate heater
  - c. Safe Drinking Water Loan Program – Construct Well & Pump House
7. **NEW BUSINESS**
  - a. “The Box Says Flush” – New York Times March 15, 2015
8. **DIRECTOR’S REPORT**
9. **MEETING DATES**
  - a. May 26, 2015
10. **ADJOURN**

Any additions to this agenda will be added to the original posted at City Hall. Any person who has a qualifying disability as defined by the American’s with Disabilities Act, that requires the meeting or materials at the meeting to be in an accessible location or format must contact the Clerk-Treasurer at City Hall, 453-4040, at least three days prior to the meeting so any necessary arrangements can be made to accommodate each request.

**PLEASE TURN CELL PHONES ON SILENT DURING MEETINGS**

1                                   **MINUTES OF THE WATER AND SEWER UTILITY COMMISSION**  
2   **City of Tomahawk**  
3   **City Council Chambers**  
4   **April 14, 2015**  
5

6   CALL TO            ERICKSON called the meeting of the Water and Sewer Utility Commission meeting to  
7   ORDER             order at 8:00AM.  
8  
9   ROLL CALL         Commission members present were Adam Webster, Scott Borchardt, Dale Arthur, Bill  
10                       Erickson and Bill Paulson. Also present was Director of Public Works Mike Tolvstad,  
11                       Public Works Superintendent Dustin Bonack and Clerk-Treasurer Amanda L. Bartz.  
12  
13   PUBLIC            Bruce Hetzel requested that the meeting time for the Commission be changed. He  
14   COMMENTS         stated that it is hard to attend the meetings in the mornings. He also stated that he had  
15                       attended the last scheduled meeting and it was cancelled and he missed two hours of  
16                       work. Mayor STOCKER stated that she likes that the meetings for the rest of year were  
17                       included in the packet.  
18  
19   MINUTES            BORCHARDT MOVED to approve the February 24, 2015 minutes and ARTHUR seconded.  
20                       The VOTE was unanimous.  
21  
22                       WEBSTER MOVED to approve the February 17, 2015 minutes and PAULSON seconded.  
23                       The VOTE was unanimous.  
24  
25   CHECKS            BORCHARDT questioned check 15278 and the expense of uniforms. It was explained  
26                       that the employees of the utility have uniforms provided to them per the Employee  
27                       Handbook.  
28  
29                       BORCHARDT questioned check 15284 and the purchase of safety boots for William  
30                       Jelinek. Clerk BARTZ stated that per the Employee Handbook the employees receive  
31                       \$100.00 towards the purchase of safety boots each year.  
32  
33                       PAULSON asked what the “waterproof deerskin” referred to on check 15295, it was  
34                       explained that it was gloves. PAULSON also questioned the purchase of sockets for  
35                       \$110.40 on check 15303.  
36  
37                       ERICKSON MOVED to approve check numbers 15270 – 15318 in the amount of  
38                       \$98,616.73 and WEBSTER seconded. The VOTE was unanimous.  
39  
40   FINANCIAL         ARTHUR MOVED to approve the financial report and ERICKSON seconded. The VOTE  
41   REPORT            was unanimous.  
42  
43

1 OLD  
2 BUSINESS

**1.) Capacity, Management, Operation and Maintenance (CMOM)**

3 ERICKSON stated that the Commission needs to select a firm and start the process so  
4 that the CMOM is completed by August 2016.

5  
6 BORCHARDT stated that we heard that a lot of communities are completing the CMOM  
7 themselves and asked why that wasn't an option for the City. TOLVSTAD stated that  
8 typically the first time you put something like this together you have help completing it.  
9 TOLVSTAD stated that the Commission has a lack of institutional knowledge and this  
10 process will help bring the commission up to speed with the current system.

11  
12 BORCHARDT stated that the Commission would gain the knowledge if we complete it  
13 ourselves. ERICKSON stated that another issue that was discussed was manpower.

14  
15 WEBSTER stated that he agreed with TOLVSTAD and that this process will help us get on  
16 the same page with the needs of the collection system.

17  
18 WEBSTER asked what the price tag was, ERICKSON stated that MSA Profession Services  
19 would complete the CMOM for \$5,000 if they did it and \$10,000 if they reported to the  
20 Commission on each section.

21  
22 PAULSON stated that he was surprised that MSA wouldn't do the CMOM at no cost after  
23 being awarded a \$500,000 project.

24  
25 BORCHARDT stated that the comment was made about having a new firm do the CMOM  
26 so that we don't become complacent.

27  
28 ERICKSON stated that more staff time would be used if we hired a firm other than MSA.  
29 He also stated that he felt MSA's price was high for the amount of information that they  
30 already have.

31  
32 ERICKSON suggested offering MSA the project for \$5,000 with the impute from the  
33 Commission. BORCHARDT suggested offering the same price to CWE. ERICKSON stated  
34 that he would be concerned if they would take that offer as the difference would have  
35 to be made up at some point.

36  
37 ERICKSON MOVED to offer MSA the project at the price of \$5,000 and PAULSON  
38 seconded.

39  
40 BORCHARDT asked what would happen if MSA rejected the offer, ERICKSON stated that  
41 it would come back to the Commission.

42  
43 The VOTE was unanimous.

1  
2 **2.) Clean Water Fund Loan – Vacuum/Jetter Truck, Grit Pad, Excavator**  
3

4 ERICKSON stated that the vacuum truck has been on the agenda since November 2014.  
5 TOLVSTAD stated that they have been made aware of a grit pad that will be needed as  
6 well.  
7

8 TOLVSTAD stated that a vacuum jetter truck like this is important to remove the rags  
9 from the system instead of pushing it through the system and trying to pick it up at the  
10 next lift station. TOLVSTAD explained that because these types of trucks have been  
11 around 20-25 years there is now a market for used trucks. He stated that most  
12 communities are purchasing these from the clean water fund loan because they are too  
13 large to purchase through the annual budget.  
14

15 BONACK stated that this is a different machine than most communities our size are  
16 running. He stated that right now we are pushing grit and rag down the system instead  
17 of pulling it out. BONACK stated that this truck has side benefits like the ability to  
18 hydro-excavate.  
19

20 Kahle stated that he had experience with hydro-excavating on N 4<sup>th</sup> Street in the middle  
21 of winter. He explained that they can dig with water pressure and suction without  
22 damage to any infrastructure in the ground. He stated that they can expose and pick up  
23 anything the size of a basketball.  
24

25 Bruce Hetzel stated that he sees sewer backups caused by “flushable wipes”.  
26

27 BORCHARDT asked why this purchase was never mentioned at the special meeting.  
28 TOLVSTAD stated that it was on the November meeting agenda and it was in the loan  
29 information.  
30

31 WEBSTER stated that there is a change order for \$82,000 and asked if this is something  
32 the Commission will be looking at. ERICKSON stated that it will not be approved today  
33 because the cost is too high for a concrete pad.  
34

35 BORCHARDT asked why the truck cannot be rented when it is needed. TOLVSTAD stated  
36 that you can't rent this truck anytime you need it. BORCHARDT asked if you are cleaning  
37 the system regularly if it would solve the rag issues. TOLVSTAD stated people are  
38 flushing the rags continually.  
39

40 PAULSON asked what the maintenance costs are, TOLVSTAD stated that he cannot  
41 answer that question.  
42

1 ERICKSON stated that this purchase is by the users of the utility and not tax dollars, he  
2 stated that the cost equals \$1 per quarter per user or \$4 per year.

3  
4 ERICKSON suggested waiting to purchase the truck until the project is further along.  
5 TOLVSTAD expressed concerns with trying to buy a used truck and stated that the  
6 further you push it off the longer it will take to find the truck.

7  
8 ERICKSON explained that they would like to entertain a purchase of an excavator if the  
9 contingency funds are not spent.

10  
11 Mayor STOCKER asked if the Utility received a grant, Clerk BARTZ stated that they had  
12 received principal forgiveness and that it was for approved projects.

13  
14 BORCHARDT stated that he had reached out to Jed Baus and his company does not own  
15 vacuum trucks anymore because of the maintenance costs. TOLVSTAD stated that if you  
16 are a contractor you are renting equipment for projects that you already have lined up.  
17 He explained that in the City's case we have to respond when a customer calls.

18  
19 Rejeana Ebert stated that she understands that this is not tax base but rather a user  
20 charges but she explained that together they are part of the cost of living in the City.

21  
22 ERICKSON MOVED to purchase the vacuum/jetter truck within the next 6 months at a  
23 price not to exceed \$125,000, ARTHUR seconded. The VOTE was 3-2 with ERICKSON,  
24 ARTHUR, and WEBSTER in favor and BORCHARDT and PAULSON opposed. Motion  
25 passes.

26  
27 ERICKSON stated that the change order for the grit pad will not be approved today  
28 because it can be done at a cheaper price. PAULSON stated that it is a hefty price for a  
29 concrete pad with a screen.

30  
31 BORCHARDT commented that the City owned an excavator that was sold and now we  
32 are going to buy a new one. TOLVSTAD clarified that we got rid of a larger excavator  
33 and we are proposing a smaller excavator that the crew will be more comfortable  
34 operating. BORCHARDT stated that he reviewed the expenditures for the last five  
35 months and we only rented an excavator one time for \$320.

36  
37 Pat Haskin stated that she is appalled that our purchase of equipment depends on the  
38 talent of the staff instead of telling the staff that you either learn to run the equipment  
39 or we will find someone else who will.

1 NEW  
2 BUSINESS

**1.) Storm and Ground Water Being Pumped into Waste Water System**

3 Hetzel stated that there are three or four places where ground water is being pumped  
4 into the sanitary sewers through sump pumps in basements. He stated that we have to  
5 find a way to control this issue. He stated that there was a procedure in place when all  
6 the meters were read manually but now with everything being read externally we are  
7 seeing more of these cases.

8  
9 ERICKSON asked if we have a City code against dumping storm water into the sanitary  
10 system, TOLVSTAD stated that it is prohibited in the state plumbing code. TOLVSTAD  
11 stated that with the new meter program they are looking for any cross connections.

12  
13 ERICKSON asked what happens when we find one. TOLVSTAD stated that they would be  
14 sent a letter to disconnect and if not fixed in 30 days then a citation will be issued.  
15 Hetzel stated that a program to check this is needed.

16  
17 Rejeana Ebert asked if there was a way to meter and charge the resident for the storm  
18 water. TOLVSTAD suggested against allowing it because it creates problems at the  
19 waste water plant.

20  
21 ERICKSON stated that he would like to see what other communities are doing. BONACK  
22 stated that they are hiring staff or a consultant to inspect sump pumps.

23  
24 **2.) Public Service Commission of Wisconsin – Annual Report of Tomahawk Municipal**  
25 **Water Utility**

26  
27 ERICKSON explained that this is an annual report filed by the City’s auditors with the  
28 Public Service Commission.

29  
30 Clerk BARTZ explained that the report is on the water utility only. She brought to the  
31 attention of the Commission the 4.17% rate of return for 2014 versus the 5.53% rate of  
32 return for 2013. Clerk BARTZ also reported that the percentage of real and apparent  
33 water loss was 21% in 2014 versus 17% in 2013. She stated that this was due to the city-  
34 wide water run during the extreme cold and harsh weather conditions.

35  
36 **3.) “Functions of the Utility Commission” – Presented by Mike Tolvstad at the January**  
37 **6, 2015 Board of Public Works meeting**

38  
39 PAULSON stated that he had requested this be added to the agenda and it looks like  
40 TOLVSTAD was giving the Board of Public Works contradicting information.

41  
42 TOLVSTAD explained that after the meeting in December 2014 with the rate increase,  
43 the Board of Public Works felt like they were blindsided. He stated that this was written

1 in a context to explain what control the City Council has. TOLVSTAD also explained that  
2 the Council gets the minutes and packets for all the Commission meetings.

3  
4 **4.) Sludge Hauling Contract**

5  
6 TOLVSTAD stated that we take proposals on sludge hauling every 3 years. He stated  
7 that because of the wet years hauling has been difficult because it tears up the fields.  
8 TOLVSTAD explained that the floatation truck proposal is high and suggested awarding  
9 that portion for a length of one year on an hourly rate and awarding the 5 years for the  
10 regular hauling.

11  
12 WEBSTER MOVED to accept the proposal for the regular truck at 5 years and 1 year with  
13 the floatation truck, PAULSON seconded. The VOTE was unanimous.

14  
15 **5.) Staff Reassignment Update**

16  
17 BORCHARDT stated that he was not aware of a staff reassignment. TOLVSTAD stated  
18 that he contacted the Department of Natural Resources and Jelinek has the ability to  
19 obtain a Grade 4 Operator faster than the other utility employees. He stated that this  
20 will assure that we stay in compliance with our permit.

21  
22 DIRECTOR'S TOLVSTAD reported that there will be a pre-construction meeting April 15, 2015 on the  
23 REPORT water main loop project on River Street.

24  
25 TOLVSTAD stated that when the sanitary line on S. Tomahawk Avenue was televised it  
26 showed that it has significantly detreated since it was televised last year. He stated that  
27 they will have to do what is called pipe bursting to repair the pipe.

28  
29 NEXT The next Water and Sewer Utility Commission meeting will be April 28, 2015 at  
30 MEETING 8:00AM at City Hall.

31  
32 Ebert commented that she found this meeting to be very informative and thanked the  
33 Commission for their time.

34  
35 BORCHARDT asked if the \$50,000 overage of the budget that came in the packet was  
36 going to be reviewed. TOLVSTAD stated that he will update the Commission at the next  
37 meeting.

38  
39 ADJOURN WEBSTER MOVED to adjourn the meeting of the Water and Sewer Utility Commission  
40 and BORCHARDT seconded. The VOTE was unanimous. The meeting was adjourned at  
41 9:52AM.

42  
43 Approved: DRAFT \_\_\_\_\_

## 1ST MERIT - WATER AND SEWER CHECKING

ALL Checks

Posted From: 3/21/2015 From Account:  
Thru: 4/20/2015 Thru Account:

Check Nbr	Check Date	Payee	Amount
15319	3/24/2015	CITY OF TOMAHAWK SOLID WASTE FUND REFUSE COLLECTION	
610-00-15063-000-000		DUE TO/FROM SOLID WASTE FUND REFUSE COLLECTION	-15.83
610-00-15063-000-000		DUE TO/FROM SOLID WASTE FUND REFUSE COLLECTION	31.50
610-00-15063-000-000		DUE TO/FROM SOLID WASTE FUND REFUSE COLLECTION	27.75
610-00-15063-000-000		DUE TO/FROM SOLID WASTE FUND REFUSE COLLECTION	24.36
610-00-15063-000-000		DUE TO/FROM SOLID WASTE FUND REFUSE COLLECTION	3,418.46
			<b>Total</b>
			<b>3,486.24</b>
15320	3/25/2015	CITY OF TOMAHAWK DEBT SERVICE PAYMENTS	
610-00-22310-000-000		Notes Payable S TOMAHAWK AVE (WATER) - PRINCIPAL	13,425.00
610-00-57431-000-000		INTEREST ON DEBT S TOMAHAWK AVE (WATER) - INTEREST	1,527.09
620-00-22231-000-000		Notes Payable S TOMAHAWK AVE (SEWER) - PRINCIPAL	7,095.00
620-00-59431-000-000		INTEREST ON DEBT S TOMAHAWK AVE (SEWER) - INTEREST	807.06
610-00-22310-000-000		Notes Payable RIVER CROSSING (WATER) - PRINCIPAL	80,000.00
610-00-57431-000-000		INTEREST ON DEBT RIVER CROSSING (WATER) - INTEREST	18,893.75
620-00-59431-000-000		INTEREST ON DEBT RIVER CROSSING (SEWER) - INTEREST	43,128.13
			<b>Total</b>
			<b>164,876.03</b>
15321	3/30/2015	UNITED STATES POSTAL SERVICE Wtr Billing 2/15	
610-00-57903-000-000		SUPPLIES, MERER READ, BILLING Wtr Billing 2/15	113.74
620-00-59840-000-000		BILLING, COLLECTING & ACCTG Wwtr Billing 2/15	113.74

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ALL Checks

Posted From: 3/21/2015 From Account:  
Thru: 4/20/2015 Thru Account:

Check Nbr	Check Date	Payee	Amount
			Total
			227.48
15322	3/31/2015	CITY OF TOMAHAWK SOLID WASTE FUND REFUSE COLLECTION	
610-00-15063-000-000		DUE TO/FROM SOLID WASTE FUND REFUSE COLLECTION	1,005.25
			Total
			1,005.25
15323	3/27/2015	CITY OF TOMAHAWK PETTY CASH Ice	
610-00-57930-000-000		MISC GENERAL EXPENSE Ice	2.19
			Total
			2.19
15324	3/27/2015	FIRST NATIONAL BANK OMAHA 4581 Marriott Hotels	
620-00-59856-000-000		MISC. GENERAL EXPENSE 4581 Marriott Hotels	156.38
			Total
			156.38
15325	3/27/2015	FRONTIER 715-453-2404-010165-5	
610-00-57602-000-000		S.O.S.-Misc supplis 715-453-2404-010165-5	221.15
610-00-57602-000-000		S.O.S.-Misc supplis 262-002-4771-082781-5	30.00
620-00-59832-000-000		MAINT COLLECTION SYSTEM PUMP 262-001-8149-082896-5	80.25
			Total
			331.40
15326	3/27/2015	HYDRITE CHEMICAL CO 01784812 HFS Acid	
610-00-57631-000-000		WATER TREATMENT -CHEMICALS 01784812 HFS Acid	1,268.18
			Total
			1,268.18
15327	3/27/2015	LINCOLN COUNTY ABSTRACT CO 44527 Title Letter	
620-00-59852-000-000		OUTSIDE SERVICES EMPLOYED 44527 Title Letter	110.00

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ALL Checks

Posted From: 3/21/2015 From Account:  
Thru: 4/20/2015 Thru Account:

Check Nbr	Check Date	Payee	Amount
			<b>Total</b>
			110.00
15328	3/27/2015	RADIO SHACK	
10061161		Charger	
610-00-57602-000-000		S.O.S.-Misc supplies	21.99
10061161		Charger	
610-00-57602-000-000		S.O.S.-Misc supplies	19.99
10061173		USB	
610-00-57602-000-000		S.O.S.-Misc supplies	18.99
10061160		Cell Phone Case	
			<b>Total</b>
			60.97
15329	3/27/2015	STRELOW, BRANDON	
		Reimburse for Mileage	
610-00-57930-000-000		MISC GENERAL EXPENSE	210.60
		Reimburse for Mileage	
			<b>Total</b>
			210.60
15330	3/27/2015	TOMAHAWK BATTERY & REBUILDING LLC	
86138		Battery	
610-00-57933-000-000		TRANSPORTATION EXPENSE	87.98
86138		Battery	
			<b>Total</b>
			87.98
15331	3/27/2015	WISCONSIN STATE LAB OF HYGIENE	
408671-1		Fluoride	
610-00-57602-000-000		S.O.S.-Misc supplies	40.00
408671-1		Fluoride	
			<b>Total</b>
			40.00
15332	4/03/2015	AUS APPLETON/CASPIAN MC LOCKBOX	
616-7089155		Uniforms 3/5	
620-00-59827-000-000		OTHER OPERATING SUPPLIES	84.22
616-7089155		Uniforms 3/5	
610-00-57923-000-000		OUTSIDE SERV-ENGINEER, WTR TEST	26.95
616-7092026		Uniforms 3/10	
610-00-57923-000-000		OUTSIDE SERV-ENGINEER, WTR TEST	44.25
616-7087183		Uniforms 3/3	
610-00-57923-000-000		OUTSIDE SERV-ENGINEER, WTR TEST	26.95
616-7082317		Uniforms 2/24	

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ALL Checks

Posted From: 3/21/2015 From Account:  
Thru: 4/20/2015 Thru Account:

Check Nbr	Check Date	Payee	Amount
610-00-57923-000-000		OUTSIDE SERV-ENGINEER, WTR TEST	44.25
		616-7096968 Uniforms 3/17	
620-00-59827-000-000		OTHER OPERATING SUPPLIES	84.22
		616-7098927 Uniforms 3/19	
		<b>Total</b>	<b>310.84</b>
15333	4/03/2015	BP	
9042		17.29g Unlead	
610-00-57933-000-000		TRANSPORTATION EXPENSE	39.19
		9042 17.29g Unlead	
		<b>Total</b>	<b>39.19</b>
15334	4/03/2015	CITY OF TOMAHAWK	
		4/15 Taxes Due City	
610-00-57080-000-000		TAXES	5,507.92
		4/15 Taxes Due City	
610-00-57902-000-000		ACCOUNTING AND COLLECTION LABO	2,077.82
		4/15 Wtr Administration Due City	
620-00-59840-000-000		BILLING, COLLECTING & ACCTG	2,701.38
		4/15 Wwtr Administration Due City	
610-00-15010-000-000		DUE TO/FROM GENERAL FUND	5,616.23
		4/3 Wtr Payroll	
		<b>Total</b>	<b>15,903.35</b>
15335	4/03/2015	EAGLE WASTE & RECYCLING INC.	
		178553 Trash Service	
620-00-59856-000-000		MISC. GENERAL EXPENSE	92.65
		178553 Trash Service	
		<b>Total</b>	<b>92.65</b>
15336	4/03/2015	FRONTIER	
		715-453-3143-010165-5	
620-00-59851-000-000		OFFICE SUPPLIES & EXPENSES	158.88
		715-453-3143-010165-5	
		<b>Total</b>	<b>158.88</b>
15337	4/03/2015	MINNESOTA LIFE	
		2832L-G May Life Ins	
610-00-57926-000-000		EMPLOYEE PENSIONS & BENEFITS	3.62
		2832L-G May Life Ins	

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ALL Checks

Posted From: 3/21/2015 From Account:  
Thru: 4/20/2015 Thru Account:

Check Nbr	Check Date	Payee	Amount
620-00-59854-000-000		EMPLOYEE PENSIONS & BENEFITS	4.66
		2832L-G May Life Ins	
Total			8.28
<hr/>			
15338	4/03/2015	SHELL FLEET PLUS	
0503	480202	167.99g Unlead	
610-00-57933-000-000		TRANSPORTATION EXPENSE	391.07
		0503 480202 167.99g Unlead	
610-00-57933-000-000		TRANSPORTATION EXPENSE	-5.04
		Discount - Wtr Dept	
620-00-59828-000-000		OPERATION-TRANSPORTATION	97.06
		0503 532820 43.01g Unlead	
620-00-59828-000-000		OPERATION-TRANSPORTATION	-1.29
		Discount - Wwtr Dept	
Total			481.80
<hr/>			
15339	4/03/2015	TOMAHAWK BP	
1114627		13.44g Unlead	
610-00-57933-000-000		TRANSPORTATION EXPENSE	31.86
		1114627 13.44g Unlead	
Total			31.86
<hr/>			
15340	4/03/2015	WISCONSIN PUBLIC SERVICE	
		135-76 WWTP-Gen	
620-00-59821-000-000		POWER & FUEL FOR PUMPING	24.49
		135-76 WWTP-Gen	
620-00-59821-000-000		POWER & FUEL FOR PUMPING	349.37
		135-81 Deer Park Rd	
620-00-59821-000-000		POWER & FUEL FOR PUMPING	2,935.97
		135-57 WWTR Plant	
620-00-59821-000-000		POWER & FUEL FOR PUMPING	232.77
		135-07 Lift Station #4	
620-00-59821-000-000		POWER & FUEL FOR PUMPING	49.12
		135-13 Lift Station #3	
620-00-59821-000-000		POWER & FUEL FOR PUMPING	148.59
		135-14 Lift Station #5	
620-00-59821-000-000		POWER & FUEL FOR PUMPING	169.36
		135-19 Lift Station #12	

## 1ST MERIT - WATER AND SEWER CHECKING

ALL Checks

Posted From: 3/21/2015 From Account:  
Thru: 4/20/2015 Thru Account:

Check Nbr	Check Date	Payee	Amount
610-00-57622-000-000		FUEL/POWER FOR PUMPING 135-21 Waterworks Rd	2,237.88
620-00-59821-000-000		POWER & FUEL FOR PUMPING 135-28 Lift Station #15	76.17
610-00-57622-000-000		FUEL/POWER FOR PUMPING 135-33 Birchwood Av	82.72
620-00-59821-000-000		POWER & FUEL FOR PUMPING 135-34 Lift Station #16	109.68
620-00-59821-000-000		POWER & FUEL FOR PUMPING 135-39 Lift Station #6	32.18
620-00-59821-000-000		POWER & FUEL FOR PUMPING 135-41 Lift Station #13	128.47
620-00-59821-000-000		POWER & FUEL FOR PUMPING 135-45 Lift Station #8	145.05
620-00-59821-000-000		POWER & FUEL FOR PUMPING 135-47 Lift Station #2	981.76
620-00-59821-000-000		POWER & FUEL FOR PUMPING 135-48 Lift Station #11	113.41
620-00-59821-000-000		POWER & FUEL FOR PUMPING 135-50 Lift Station #1	881.83
620-00-59821-000-000		POWER & FUEL FOR PUMPING 135-52 Lift Station #10	206.16
620-00-59821-000-000		POWER & FUEL FOR PUMPING 135-55 Lift Station #7	145.74
Total			9,050.72

15341 4/08/2015 CITY OF TOMAHAWK SOLID WASTE FUND  
REFUSE COLLECTION

610-00-15063-000-000		DUE TO/FROM SOLID WASTE FUND REFUSE COLLECTION	4,235.16
Total			4,235.16

15342 4/10/2015 SECURITY HEALTH PLAN  
May Health Ins Prem

610-00-57926-000-000		EMPLOYEE PENSIONS & BENEFITS May Health Ins Prem	5,075.26
620-00-59854-000-000		EMPLOYEE PENSIONS & BENEFITS May Health Ins Prem	3,454.58

## 1ST MERIT - WATER AND SEWER CHECKING

ALL Checks

Posted From: 3/21/2015 From Account:  
Thru: 4/20/2015 Thru Account:

Check Nbr	Check Date	Payee	Amount
			<b>Total</b>
			<b>8,529.84</b>
15343	4/10/2015	TOMAHAWK ACE HARDWARE	
		286300 Hoses	
610-00-57652-000-000		MAINT SERVICE	28.79
		286300 Hoses	
610-00-57602-000-000		S.O.S.-Misc supplies	17.21
		286284 Keys, Clip	
610-00-57602-000-000		S.O.S.-Misc supplies	36.97
		286254 Flashlite, Butt, Plier	
610-00-57652-000-000		MAINT SERVICE	26.98
		285843 Hoses	
610-00-57652-000-000		MAINT SERVICE	21.85
		286118 Hose, Plug	
610-00-57652-000-000		MAINT SERVICE	16.61
		286061 Cutter, Couple, clamp	
610-00-57652-000-000		MAINT SERVICE	36.22
		285993 Hose, Elbow, Bushing	
610-00-57602-000-000		S.O.S.-Misc supplies	129.99
		285872 Shoplight, Adapter Hose	
610-00-57652-000-000		MAINT SERVICE	26.53
		285771 Hose, Couple	
610-00-57652-000-000		MAINT SERVICE	6.74
		286669 Knee Pad	
610-00-57652-000-000		MAINT SERVICE	23.39
		286441 Hoses	
610-00-57652-000-000		MAINT SERVICE	22.93
		286392 Hose, Couple	
620-00-59833-000-000		MAINT TREATMENT/DISPOSAL PLANT	21.56
		287077 Bags, Bleach	
610-00-57602-000-000		S.O.S.-Misc supplies	7.19
		287361 Battery	
610-00-57602-000-000		S.O.S.-Misc supplies	14.04
		287081 Wire	
610-00-57602-000-000		S.O.S.-Misc supplies	89.99
		286925 Sump Pump	
			<b>Total</b>
			<b>526.99</b>

## 1ST MERIT - WATER AND SEWER CHECKING

ALL Checks

Posted From: 3/21/2015 From Account:  
Thru: 4/20/2015 Thru Account:

Check Nbr	Check Date	Payee	Amount
15344	4/10/2015	VERIZON WIRELESS 715-966-0464	
610-00-57625-000-000		MAINTENANCE OF PUMPING PLANT 715-966-0464	81.75
620-00-59851-000-000		OFFICE SUPPLIES & EXPENSES 715-966-0471	104.65
610-00-57625-000-000		MAINTENANCE OF PUMPING PLANT 715-966-0614	100.25
620-00-59851-000-000		OFFICE SUPPLIES & EXPENSES 715-966-6816	72.70
Total			359.35
15345	4/14/2015	CITY OF TOMAHAWK SOLID WASTE FUND REFUSE COLLECTION	
610-00-15063-000-000		DUE TO/FROM SOLID WASTE FUND REFUSE COLLECTION	3,544.97
Total			3,544.97
15346	4/20/2015	AUS APPLETON/CASPIAN MC LOCKBOX 616-7108724 Uniforms 4/2	
620-00-59827-000-000		OTHER OPERATING SUPPLIES 616-7108724 Uniforms 4/2	84.22
620-00-59827-000-000		OTHER OPERATING SUPPLIES 616-7103761 Uniforms 3/26	78.89
610-00-57923-000-000		OUTSIDE SERV-ENGINEER, WTR TEST 616-7106656 Uniforms 3/31	44.25
610-00-57923-000-000		OUTSIDE SERV-ENGINEER, WTR TEST 616-7111564 Uniforms 4/7	26.95
610-00-57923-000-000		OUTSIDE SERV-ENGINEER, WTR TEST 616-7101787 Uniforms 3/24	26.95
Total			261.26
15347	4/20/2015	BEAR GRAPHICS, INC 0711755 Checks	
620-00-59856-000-000		MISC. GENERAL EXPENSE 0711755 Checks	91.95
610-00-57930-000-000		MISC GENERAL EXPENSE 0711755 Checks	91.95
Total			183.90

## 1ST MERIT - WATER AND SEWER CHECKING

ALL Checks

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Thru: 4/20/2015 Thru Account:

Check Nbr	Check Date	Payee	Amount
15348	4/20/2015	BUMPER TO BUMPER TOMAHAWK 640-116667 Ball Mount	
620-00-59828-000-000		OPERATION-TRANSPORTATION 640-116667 Ball Mount	108.95
			<b>Total</b> 108.95
15349	4/20/2015	BUSINESS INSURANCE GROUP 2095 Workers Compensation	
610-00-57924-000-000		PROPERTY INSURANCE 2095 Workers Compensation	476.98
620-00-59853-000-000		INSURANCE EXPENSE 2095 Workers Compensation	476.98
			<b>Total</b> 953.96
15350	4/20/2015	CITY OF TOMAHAWK 4/17 Wtr Payroll	
610-00-15010-000-000		DUE TO/FROM GENERAL FUND 4/17 Wtr Payroll	4,573.58
			<b>Total</b> 4,573.58
15351	4/20/2015	CITY OF TOMAHAWK PETTY CASH Postage	
610-00-57930-000-000		MISC GENERAL EXPENSE Postage	17.15
			<b>Total</b> 17.15
15352	4/20/2015	COUNTY MATERIALS CORPORATION 2507304-00 Rock	
610-00-57651-000-000		MAINTENANCE OF MAINS 2507304-00 Rock	107.88
			<b>Total</b> 107.88
15353	4/20/2015	DIGGERS HOTLINE 150 57101 Tickets for 3/2015	
610-00-57602-000-000		S.O.S.-Misc supplies 150 57101 Tickets for 3/2015	39.80
			<b>Total</b> 39.80
15354	4/20/2015	GRAINGER 9697671908 Cable	

## 1ST MERIT - WATER AND SEWER CHECKING

ALL Checks

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Check Nbr	Check Date	Payee	Amount
620-00-59833-000-000		MAINT TREATMENT/DISPOSAL PLANT 9697671908 Cable	152.36
620-00-59833-000-000		MAINT TREATMENT/DISPOSAL PLANT 9688119966 Air Release Valve	189.04
620-00-59833-000-000		MAINT TREATMENT/DISPOSAL PLANT 9586760366 Ratchet, Gloves	284.98
610-00-57602-000-000		S.O.S.-Misc supplies 9505650532 Union PVC	35.83
610-00-57602-000-000		S.O.S.-Misc supplies 9706526028 Clipboard, Letter Tray	92.43
610-00-57602-000-000		S.O.S.-Misc supplies 970652036 Card Binder	49.55
Total			804.19

15355 4/20/2015 LAWSON PRODUCTS  
9303113891 Aerosol Rack

620-00-59827-000-000		OTHER OPERATING SUPPLIES 9303113891 Aerosol Rack	22.48
Total			22.48

15356 4/20/2015 MSA PROFESSIONAL SERVICES, INC.  
11 WWTF Improvments Design

620-00-59852-000-000		OUTSIDE SERVICES EMPLOYED 11 WWTF Improvments Design	13,705.95
620-00-59852-000-000		OUTSIDE SERVICES EMPLOYED 5 Utility Improvements	1,117.15
Total			14,823.10

15357 4/20/2015 NCL OF WISCONSIN INC  
352260 Epoxy Triode

620-00-59851-000-000		OFFICE SUPPLIES & EXPENSES 352260 Epoxy Triode	1,050.06
620-00-59851-000-000		OFFICE SUPPLIES & EXPENSES 352977 Storage Solution	23.24
Total			1,073.30

15358 4/20/2015 NORTHERN LAKE SERVICE INC  
271726 Phosphorus

620-00-59852-001-000		OUTSD SERV.-TEST/SLUDGE HAUL 271726 Phosphorus	95.00
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## 1ST MERIT - WATER AND SEWER CHECKING

ALL Checks

Posted From: 3/21/2015 From Account:  
Thru: 4/20/2015 Thru Account:

Check Nbr	Check Date	Payee	Amount
620-00-59852-001-000		OUTSD SERV.-TEST/SLUDGE HAUL 272707 Phosphorus	95.00
610-00-57652-000-000		MAINT SERVICE 272857 Iron, Manganese	45.00
610-00-57652-000-000		MAINT SERVICE 272889 Nitrate	32.00
Total			267.00

15359 4/20/2015 NORTHWOODS LUBE & TIRE  
65519 Oil

610-00-57933-000-000		TRANSPORTATION EXPENSE 65519 Oil	32.49
Total			32.49

15360 4/20/2015 NORTHWOODS SUPERIOR CHEMICAL CORP  
87498 Degreaser

620-00-59832-000-000		MAINT COLLECTION SYSTEM PUMP 87498 Degreaser	345.43
610-00-57654-000-000		MAINTENANCE OF HYDRANTS 87497 Knock Out	198.23
Total			543.66

15361 4/20/2015 OFFICE OF STATE TREASURER  
Deposit to 835286 Sub Acct 11

610-00-25010-000-000		Due to General Fund Deposit to 835286 Sub Acct 11	5,000.00
Total			5,000.00

15362 4/20/2015 RADIO SHACK  
10061289 Case, Ink

620-00-59851-000-000		OFFICE SUPPLIES & EXPENSES 10061289 Case, Ink	101.96
610-00-57602-000-000		S.O.S.-Misc supplies 10061315 Mouse, Logitech	57.97
Total			159.93

15363 4/20/2015 ROBIN MYRE ELECTRICAL CONTRACTING LLC  
21115 N 9th St Pump Station

620-00-59852-000-000		OUTSIDE SERVICES EMPLOYED 21115 N 9th St Pump Station	3,463.56
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4/23/2015 2:25 PM

Reprint Check Register - Full Report - ALL

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ACCT

1ST MERIT - WATER AND SEWER CHECKING

ALL Checks

Posted From: 3/21/2015 From Account:  
Thru: 4/20/2015 Thru Account:

Check Nbr	Check Date	Payee	Amount	
			Total	3,463.56
15364	4/20/2015	SHARE CORPORATION		
89788		Hand Soap		
610-00-57602-000-000		S.O.S.-Misc supplies	100.66	
89788		Hand Soap		
			Total	100.66
15365	4/20/2015	STAAB CONSTRUCTION CORP		
1		Waste Water Treatment Upgrade		
620-00-59834-000-000		MAINT GENERAL PLANT STRUCTURE	31,671.00	
1		Waste Water Treatment Upgrade		
			Total	31,671.00
15366	4/20/2015	TOMAHAWK LEADER INC		
297		Sludge Hauling 3/10		
620-00-59856-000-000		MISC. GENERAL EXPENSE	48.20	
297		Sludge Hauling 3/10		
620-00-59856-000-000		MISC. GENERAL EXPENSE	48.20	
297		Sludge Hauling 3/17		
			Total	96.40
15367	4/20/2015	USA BLUE BOOK		
581048		Deionized Water, Bulb		
610-00-57602-000-000		S.O.S.-Misc supplies	127.96	
581048		Deionized Water, Bulb		
610-00-57623-000-000		OPERATION SUPPLIES & EXPENSES	974.26	
586810		Pump		
			Total	1,102.22
			Grand Total	280,543.05

# City of Tomahawk

P.O. Box 469, Tomahawk, WI 54487  
(715) 453-4040 phone (715) 453-2717 fax  
www.cityoftomahawk.com

Date: April 20, 2015

To: Members of the Tomahawk Water and Sewer Utility Commission  
From: Amanda L. Bartz, Clerk-Treasurer  
Subject: Non-audited Financial Report

Total Treasurer's Cash Last Report (March 21, 2015)	\$	174,407.83
Credits- Cash Receipts/Transfers	\$	129,417.20
Debits - Checks 15270 - 15318	\$	(280,543.05)
<b>Total Treasurer's Cash April 20, 2015</b>	<b>\$</b>	<b>23,281.98</b>
1st Merit Saving Account	\$	55,629.01
State Local Government Investment Pool	\$	533,137.30
<b>Total Cash Available</b>	<b>\$</b>	<b>612,048.29</b>

## Fund Balances:

Equipment Replacement Fund	\$	334,103.06
Clean Water Debt Fund	\$	177,815.42

## Debts:

		<b>Balance</b>
Clean Water Fund - Matures 2015 - Interest 3.096%	\$	203,613.57
Next Payment      \$206,765.57      Date    5/1/2015		
S. Tomahawk Ave. - Matures 2022 - Interest 2.250%	\$	143,640.00
Next Payment      \$2,128.95      Date    10/1/2015		
N. 4th St Utilities/River Crossing - Matures 2028 -1.250%	\$	4,195,000.00
Next Payment      \$      61,421.88      Date    10/1/2015		
State Trust Fund - Matures March 2024 - Interest 4.00%	\$	900,000.00
Next Payment      \$      121,574.41      Date    3/15/2016		
<b>Total Debt</b>	<b>\$</b>	<b>5,442,253.57</b>
Due to General Fund from Water	\$	169,503.89
Due to General Fund from Sewer	\$	(26,374.79)

We, the members of the Tomahawk Water and Sewer Utility Commission, have examined to the extent we feel necessary, and approve the above numbered checks with a value of :  
\$ 280,543.05

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\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Fund: 610 - WATER FUND

Account Number		2015	2015	2015	Budget Status	% of Budget
		April	Actual 04/30/2015	Budget		
610-00-44180-000-000	NON OPERATING RENTAL	0.00	0.00	0.00	0.00	0.00
610-00-44190-000-000	INTEREST AND DIVIDEND INTEREST	0.00	2.82	200.00	-197.18	1.41
610-00-44191-000-000	INTEREST SPECIAL ASSESSMENTS	0.00	0.00	4,234.51	-4,234.51	0.00
610-00-44192-000-000	CAPITAL CONTRIBUTIONS	0.00	0.00	0.00	0.00	0.00
610-00-44210-000-000	MISC. NON-OPERATING INCOME	0.00	-20.00	200.00	-220.00	-10.00
610-00-44290-000-000	AMORTIZATION OF DEBT PREMIUM	0.00	0.00	0.00	0.00	0.00
610-00-44601-000-000	BULK WATER SALES	0.00	0.00	0.00	0.00	0.00
610-00-44611-000-000	RESIDENTIAL WATER	33.64	48,863.58	200,000.00	-151,136.42	24.43
610-00-44612-000-000	MULTI FAMILY RESIDENTIAL WATER	0.00	1,524.20	3,500.00	-1,975.80	43.55
610-00-44613-000-000	COMMERCIAL WATER	21.44	22,466.92	95,000.00	-72,533.08	23.65
610-00-44615-000-000	INDUSTRIAL WATER	0.00	16,543.85	80,000.00	-63,456.15	20.68
610-00-44617-000-000	PUBLIC AUTHORITY WATER	-20.00	3,624.40	12,000.00	-8,375.60	30.20
610-00-44619-000-000	INTERDEPARTMENTAL WATER	0.00	0.00	0.00	0.00	0.00
610-00-44620-000-000	PRIVATE FIRE -WATER	0.00	2,820.00	12,000.00	-9,180.00	23.50
610-00-44630-000-000	PUBLIC FIRE PROTECTION	18,301.75	73,207.00	219,621.00	-146,414.00	33.33
610-00-44700-000-000	CUSTOMER FORFEITED PENALTIES	1,599.27	5,657.79	25,000.00	-19,342.21	22.63
610-00-44710-000-000	MISC. SERVICE REVENUE	0.00	0.00	500.00	-500.00	0.00
610-00-44720-000-000	WATER TOWER RENT	1,800.00	13,533.84	39,000.00	-25,466.16	34.70
610-00-44740-000-000	MISC. WATER REVENUE	0.00	775.00	1,000.00	-225.00	77.50
610-00-44741-000-000	RECONNECTS -MISC. SERVICE	0.00	110.00	500.00	-390.00	22.00
<b>LICENSES AND PERMITS</b>		<b>21,736.10</b>	<b>189,109.40</b>	<b>692,755.51</b>	<b>-503,646.11</b>	<b>27.30</b>
610-10-49200-000-000	TRANSFER	0.00	0.00	0.00	0.00	0.00
<b>DONATIONS</b>		<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>Total Revenues</b>		<b>21,736.10</b>	<b>189,109.40</b>	<b>692,755.51</b>	<b>-503,646.11</b>	<b>27.30</b>

## Fund: 610 - WATER FUND

Account Number		2015		2015 Budget	Budget Status	% of Budget
		2015 April	Actual 04/30/2015			
610-00-57080-000-000	TAXES	5,507.92	22,031.68	66,095.04	44,063.36	33.33
610-00-57081-000-000	TAXES -FICA	654.56	2,163.20	7,168.34	5,005.14	30.18
610-00-57343-000-000	ASSET:DISTRIBUTION MAINS	0.00	0.00	0.00	0.00	0.00
610-00-57345-000-000	NEW SERVICES	0.00	0.00	0.00	0.00	0.00
610-00-57346-000-000	METERS	0.00	0.00	0.00	0.00	0.00
610-00-57390-000-000	ASSET:STRUCTURES & IMPROVEMENT	0.00	0.00	0.00	0.00	0.00
610-00-57392-000-000	ASSET: TRANSPORTATION EQUIPMNT	0.00	0.00	0.00	0.00	0.00
610-00-57394-000-000	TOOLS,SHOP & GARAGE EQUIP	0.00	0.00	0.00	0.00	0.00
610-00-57403-000-000	DEPRECIATION	0.00	18,053.49	0.00	-18,053.49	0.00
610-00-57404-000-000	Contributed Deprec (Non-Op)	0.00	7,703.25	0.00	-7,703.25	0.00
610-00-57427-000-000	PRINCIPAL ON DEBT	0.00	0.00	93,425.00	93,425.00	0.00
610-00-57428-000-000	AMORTIZATION OF DEBT DISCOUNT	0.00	0.00	0.00	0.00	0.00
610-00-57431-000-000	INTEREST ON DEBT	0.00	20,420.84	40,107.43	19,686.59	50.92
610-00-57600-000-000	OPERATING SUPERVISION	2,755.50	18,297.78	38,860.10	20,562.32	47.09
610-00-57602-000-000	S.O.S.-Misc supplis	799.59	2,799.89	10,000.00	7,200.11	28.00
610-00-57605-000-000	MAIN OF WATER SOURCE PLANT	0.00	0.00	3,000.00	3,000.00	0.00
610-00-57620-000-000	OPERATION LABOR-POWER/PUMPING	44.72	111.80	8,850.00	8,738.20	1.26
610-00-57622-000-000	FUEL/POWER FOR PUMPING	2,320.60	6,841.76	25,000.00	18,158.24	27.37
610-00-57623-000-000	OPERATION SUPPLIES & EXPENSES	974.26	974.26	500.00	-474.26	194.85
610-00-57624-000-000	PUMP LABOR & EXPENSE	0.00	0.00	0.00	0.00	0.00
610-00-57625-000-000	MAINTENANCE OF PUMPING PLANT	182.00	1,026.04	4,150.00	3,123.96	24.72
610-00-57630-000-000	OPERATION WATER TREATMNT-LABOR	43.78	43.78	885.00	841.22	4.95
610-00-57631-000-000	WATER TREATMENT -CHEMICALS	0.00	10,758.68	44,000.00	33,241.32	24.45
610-00-57640-000-000	OPERATING LABOR-TRANS/DIST FAC	266.44	266.44	4,425.00	4,158.56	6.02
610-00-57641-000-000	TRANS& DISTR. SUPPLIES/EXPNSES	0.00	0.00	4,000.00	4,000.00	0.00
610-00-57642-000-000	WATER TREATMENT OPERATION	0.00	0.00	0.00	0.00	0.00
610-00-57650-000-000	MAINT DIST RESERVOIR/STANDPIPE	0.00	389.97	9,885.00	9,495.03	3.95
610-00-57651-000-000	MAINTENANCE OF MAINS	877.32	2,558.25	50,000.00	47,441.75	5.12
610-00-57652-000-000	MAINT SERVICE	2,834.93	8,339.75	15,000.00	6,660.25	55.60
610-00-57653-000-000	MAINTENANCE OF METERS	1,140.17	2,103.34	36,850.00	34,746.66	5.71
610-00-57654-000-000	MAINTENANCE OF HYDRANTS	488.44	1,713.69	10,000.00	8,286.31	17.14
610-00-57655-000-000	MAINTENANCE OF OTHER PLANT	0.00	0.00	0.00	0.00	0.00
610-00-57676-000-000	MAINT OF METERS	0.00	439.38	0.00	-439.38	0.00
610-00-57677-000-000	MAINT OF HYDRANTS	0.00	0.00	0.00	0.00	0.00
610-00-57901-000-000	METER READING LABOR	634.81	1,034.00	10,509.38	9,475.38	9.84
610-00-57902-000-000	ACCOUNTING AND COLLECTION LABO	2,077.82	8,311.28	24,933.84	16,622.56	33.33
610-00-57903-000-000	SUPPLIES, MERER READ, BILLING	113.74	340.01	5,000.00	4,659.99	6.80
610-00-57904-000-000	Cust A/C - Uncollectibel Accts	0.00	0.00	0.00	0.00	0.00
610-00-57920-000-000	ADMIN & GEN SALARY, CITY HALL	180.00	432.00	1,080.00	648.00	40.00
610-00-57921-000-000	OFFICE SUPPLIES & EXPENSE	0.00	0.00	25,000.00	25,000.00	0.00
610-00-57923-000-000	OUTSIDE SERV-ENGINEER, WTR TEST	240.55	3,611.46	20,000.00	16,388.54	18.06
610-00-57923-001-000	ADMIN & GEN--OUTSIDE SERV	0.00	0.00	0.00	0.00	0.00
610-00-57924-000-000	PROPERTY INSURANCE	476.98	2,159.37	9,500.00	7,340.63	22.73
610-00-57926-000-000	EMPLOYEE PENSIONS & BENEFITS	5,656.60	17,405.33	66,597.21	49,191.88	26.14
610-00-57928-000-000	REGULATORY COMMISSION	0.00	0.00	1,000.00	1,000.00	0.00
610-00-57930-000-000	MISC GENERAL EXPENSE	109.10	1,098.55	6,000.00	4,901.45	18.31
610-00-57933-000-000	TRANSPORTATION EXPENSE	489.57	1,070.40	5,500.00	4,429.60	19.46
<b>CAPITAL OUTLAY</b>		<b>28,869.40</b>	<b>162,499.67</b>	<b>647,321.34</b>	<b>484,821.67</b>	<b>25.10</b>
610-00-59000-000-000	OTHER FINANCING USES	0.00	0.00	0.00	0.00	0.00
610-00-59200-000-000	INTERFUND TRANSFER	0.00	0.00	0.00	0.00	0.00

Fund: 610 - WATER FUND

Account Number	2015 April	2015 Actual 04/30/2015	2015 Budget	Budget Status	% of Budget
OTHER FINANCING USES	0.00	0.00	0.00	0.00	0.00
Total Expenses	28,869.40	162,499.67	647,321.34	484,821.67	25.10
Net Totals	-7,133.30	26,609.73	45,434.17	18,824.44	58.57

## Fund: 620 - SEWER FUND

Account Number		2015 April	2015 Actual 04/30/2015	2015 Budget	Budget Status	% of Budget
620-00-44190-000-000	INTEREST AND DIVIDEND INTEREST	0.00	22.52	500.00	-477.48	4.50
620-00-44191-000-000	INTEREST SPECIAL ASSESSMENTS	0.00	0.00	1,515.00	-1,515.00	0.00
620-00-44192-000-000	CAPITAL CONTRIBUTIONS	0.00	0.00	0.00	0.00	0.00
620-00-44210-000-000	MISC. NON-OPERATING INCOME	0.00	0.00	1,500.00	-1,500.00	0.00
620-00-44210-001-000	MISC. NON-OPERATING INCOME	0.00	0.00	3,000.00	-3,000.00	0.00
620-00-44290-000-000	AMORTIZATION OF DEBT PREMIUM	0.00	0.00	0.00	0.00	0.00
620-00-44320-000-000	INTEREST CHARGED TO CONST	0.00	0.00	0.00	0.00	0.00
=====						
<b>LICENSES AND PERMITS</b>		0.00	22.52	6,515.00	-6,492.48	0.35
=====						
620-00-46211-000-000	FLAT RESIDENTIAL SEWER	0.00	276.52	1,000.00	-723.48	27.65
620-00-46221-000-000	METERED RESIDENTIAL SEWER	58.52	129,355.34	450,000.00	-320,644.66	28.75
620-00-46221-001-000	METERED MULTI FAM RES SEWER	0.00	4,831.10	10,500.00	-5,668.90	46.01
620-00-46222-000-000	METERED COMMERCIAL SEWER	62.57	62,149.47	250,000.00	-187,850.53	24.86
620-00-46223-000-000	METERED INDUSTRIAL SEWER	0.00	18,636.09	105,000.00	-86,363.91	17.75
620-00-46224-000-000	METERED PUBLIC AUTHORITY	-64.70	11,261.01	30,000.00	-18,738.99	37.54
620-00-46226-000-000	Leachate Treatment	0.00	0.00	0.00	0.00	0.00
620-00-46230-000-000	BOD CHARGES - HARLEY DAVIDSON	0.00	0.00	0.00	0.00	0.00
620-00-46310-000-000	PENALTIES	0.00	0.00	0.00	0.00	0.00
620-00-46320-000-000	SERVICING CUSTOMER LATERALS	0.00	0.00	0.00	0.00	0.00
620-00-46350-000-000	MISC. OPERATING REVENUE	0.00	0.00	350.00	-350.00	0.00
=====						
<b>PUBLIC CHARGES FOR SERVICES</b>		56.39	226,509.53	846,850.00	-620,340.47	26.75
=====						
620-10-49200-000-000	TRANSFER	0.00	0.00	0.00	0.00	0.00
620-10-49200-001-000	TRANSFER TO OTHER FUNDS	0.00	0.00	0.00	0.00	0.00
=====						
<b>DONATIONS</b>		0.00	0.00	0.00	0.00	0.00
=====						
<b>Total Revenues</b>		56.39	226,532.05	853,365.00	-626,832.95	26.55
=====						

## Fund: 620 - SEWER FUND

Account Number		2015	2015	2015	Budget Status	% of Budget
		April	Actual 04/30/2015	Budget		
620-00-59080-000-000	TAXES	0.00	0.00	0.00	0.00	0.00
620-00-59081-000-000	TAXES -FICA	902.58	3,474.70	12,029.17	8,554.47	28.89
620-00-59200-000-000	INTERFUND TRANSFER	0.00	0.00	0.00	0.00	0.00
620-00-59313-000-000	COLLECTING MAINS & ACCESSORIES	0.00	0.00	0.00	0.00	0.00
620-00-59379-000-000	ASSET: GEN EQUIP. LAB, COMMUNI	0.00	0.00	0.00	0.00	0.00
620-00-59403-000-000	DEPRECIATION	0.00	48,356.22	0.00	-48,356.22	0.00
620-00-59427-000-000	PRINCIPAL ON DEBT	0.00	0.00	210,708.57	210,708.57	0.00
620-00-59431-000-000	INTEREST ON DEBT	3,151.94	47,087.13	90,951.37	43,864.24	51.77
620-00-59432-000-000	AMORTIZATION OF DEBT DISCOUNT	0.00	0.00	0.00	0.00	0.00
620-00-59820-000-000	OPERATION SUPERVISION & LABOR	10,731.39	44,363.51	133,707.21	89,343.70	33.18
620-00-59821-000-000	POWER & FUEL FOR PUMPING	6,730.12	20,937.86	67,000.00	46,062.14	31.25
620-00-59823-000-000	CHLORINE	0.00	0.00	0.00	0.00	0.00
620-00-59825-000-000	SLUDGE CONDITIONING CHEMICALS	0.00	2,417.04	7,000.00	4,582.96	34.53
620-00-59826-000-000	OTHER CHEMICALS-SEWAGE	0.00	0.00	0.00	0.00	0.00
620-00-59827-000-000	OTHER OPERATING SUPPLIES	354.03	2,127.84	14,500.00	12,372.16	14.67
620-00-59828-000-000	OPERATION-TRANSPORTATION	204.72	1,297.32	1,500.00	202.68	86.49
620-00-59831-000-000	MAINT SEWAGE COLLECTIONS	0.00	0.00	26,000.00	26,000.00	0.00
620-00-59832-000-000	MAINT COLLECTION SYSTEM PUMP	345.43	7,757.22	13,000.00	5,242.78	59.67
620-00-59833-000-000	MAINT TREATMENT/DISPOSAL PLANT	647.94	6,372.96	15,000.00	8,627.04	42.49
620-00-59833-001-000	MAINT TREATMENT/DISPOSAL PLANT	0.00	0.00	0.00	0.00	0.00
620-00-59834-000-000	MAINT GENERAL PLANT STRUCTURE	31,671.00	31,671.00	0.00	-31,671.00	0.00
620-00-59834-001-000	MAINT GENERAL PLANT STRUCTURE	0.00	0.00	0.00	0.00	0.00
620-00-59835-000-000	MAINT OF METERS	223.26	380.35	36,850.00	36,469.65	1.03
620-00-59840-000-000	BILLING, COLLECTING & ACCTG	2,815.12	11,145.53	35,000.00	23,854.47	31.84
620-00-59842-000-000	METER READING	1,277.95	1,277.95	10,509.38	9,231.43	12.16
620-00-59850-000-000	ADMIN & GENERAL SALARIES	180.00	472.00	1,080.00	608.00	43.70
620-00-59851-000-000	OFFICE SUPPLIES & EXPENSES	1,511.49	2,769.37	21,300.00	18,530.63	13.00
620-00-59852-000-000	OUTSIDE SERVICES EMPLOYED	18,286.66	44,355.28	11,000.00	-33,355.28	403.23
620-00-59852-001-000	OUTSD SERV.-TEST/SLUDGE HAUL	190.00	615.00	23,000.00	22,385.00	2.67
620-00-59852-002-000	OUTSD SERV.-PHOSPHOROUS	0.00	0.00	5,000.00	5,000.00	0.00
620-00-59853-000-000	INSURANCE EXPENSE	476.98	2,159.36	9,500.00	7,340.64	22.73
620-00-59854-000-000	EMPLOYEE PENSIONS & BENEFITS	4,362.11	14,907.72	71,045.23	56,137.51	20.98
620-00-59855-000-000	REGULATORY COMMISSION	0.00	0.00	2,000.00	2,000.00	0.00
620-00-59856-000-000	MISC. GENERAL EXPENSE	281.00	1,075.11	10,000.00	8,924.89	10.75
<b>OTHER FINANCING USES</b>		<b>84,343.72</b>	<b>295,020.47</b>	<b>827,680.93</b>	<b>532,660.46</b>	<b>35.64</b>
<b>Total Expenses</b>		<b>84,343.72</b>	<b>295,020.47</b>	<b>827,680.93</b>	<b>532,660.46</b>	<b>35.64</b>
<b>Net Totals</b>		<b>-84,287.33</b>	<b>-68,488.42</b>	<b>25,684.07</b>	<b>94,172.49</b>	<b>-266.66</b>

# Change Order No. 1

Date of Issuance: 3/23/15 Effective Date: 3/26/15

Project: <b>WWTF Upgrade</b>	Owner: <b>City of Tomahawk</b>	Owner's Contract No.:
Contract: <b>Tomahawk Wastewater Treatment Facility Upgrade</b>		Date of Contract: <b>12/30/14</b>
Contractor: <b>Staab Construction</b>		Engineer's Project No.: <b>00046044</b>

**The Contract Documents are modified as follows upon execution of this Change Order:**

Description:

Addition of Grit Pad

**Attachments (list documents supporting change):**

Staab C.O. proposal 4481-CO, Re: Grit Pad

**CHANGE IN CONTRACT PRICE:**

**CHANGE IN CONTRACT TIMES:**

Original Contract Price:

Original Contract Times:       Working days       Calendar days

\$1,534,171.00

— Substantial completion (days or date): \_\_\_\_\_

— Ready for final payment (days or date): \_\_\_\_\_

Increase from previously approved Change Orders No. 0 to No. 0

~~[Increase]~~ ~~[Decrease]~~ from previously approved Change Orders No. \_\_\_\_\_ to No. \_\_\_\_\_

\$0

— Substantial completion (days): \_\_\_\_\_

— Ready for final payment (days): \_\_\_\_\_

Contract Price prior to this Change Order:

Contract Times prior to this Change Order:

\$1,534,171.00

— Substantial completion (days or date): \_\_\_\_\_

— Ready for final payment (days or date): \_\_\_\_\_

**Increase of this Change Order:**

~~[Increase]~~ ~~[Decrease]~~ of this Change Order:

\$82,617

— Substantial completion (days or date): \_\_\_\_\_

— Ready for final payment (days or date): \_\_\_\_\_

Contract Price Incorporating this Change Order:

Contract Times with all approved Change Orders:

\$1,616,788

— Substantial completion (days or date): \_\_\_\_\_

— Ready for final payment (days or date): \_\_\_\_\_

**RECOMMENDED:**

**ACCEPTED:**

**ACCEPTED:**

By:   
Engineer (Authorized Signature)

By: \_\_\_\_\_  
Owner (Authorized Signature)

By:   
Contractor (Authorized Signature) Kevin J Leick,

Date: 3/23/15  
Approved by Funding Agency (if applicable):

Date: \_\_\_\_\_

Date: 3/24/15 Sr. Vice President

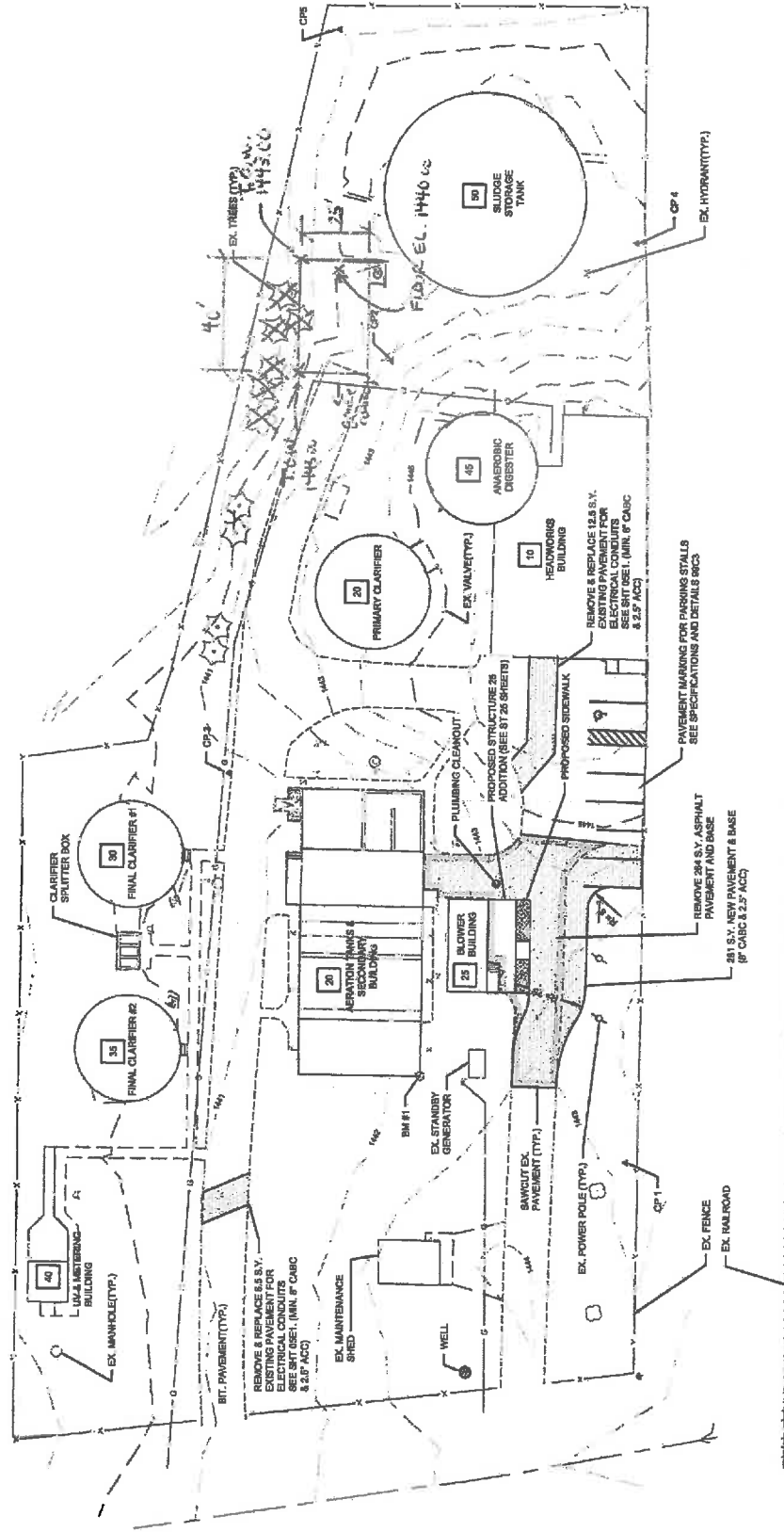
Date: \_\_\_\_\_

**GENERAL NOTES**

1. ALL UNSTURDED TURRED AREAS SHALL BE RESTORED PER THE SPECIFICATIONS.
2. ELEVATIONS ARE BASED ON UGSS DATUM.
3. CONSTRUCTION COORDINATES ARE PROVIDED FOR USE BY THE CONTRACTOR TO ESTABLISH THE EXISTING AND PROPOSED LAYOUT. ENGINEER RESERVES THE RIGHT TO MAKE ADJUSTMENTS IN THE FIELD PRIOR TO CONTRACTOR'S LAYOUT.
4. COORDINATE SYSTEM BASED ON ENGINEER'S ESTABLISHED REFERENCE AND CONTROL FOR THE SITE. CONTROL POINTS INDICATED DETERMINE BASIS FOR THIS SYSTEM AND CONSTRUCTION COORDINATES.
5. CONTRACTOR SHALL NOT TRACK OR SPILL OIL, GREASE OR OTHER CONTAMINANTS ON THE SITE. CONTRACTOR SHALL BE RESPONSIBLE FOR IMMEDIATE ASSOCIATED CLEANUP.
6. CONTRACTOR SHALL MAKE ADJUSTMENTS TO THE SIDEWALK GRASSES TO MATCH ADJACENT GRASSES AND TO MAINTAIN DRAINAGE.

**CONTROL POINT & BENCHMARK TABLE**

NO.	TYPE	NORTHING & EASTING DESCRIPTION	ELEV.
BM 1	CHBL X	BE COR AERATION TANK #2	1442.79
CP 1	5/8" REBAR	220223.116, 394193.888	1442.83
CP 2	5/8" REBAR	220418.202, 393872.365	1442.15
CP 3	60 D NAIL	220263.116, 394003.485	1440.78
CP 4	60 D NAIL	220498.787, 394023.889	1441.51
CP 5	60 D NAIL	220504.167, 393895.723	1438.83



**MSA**  
MANUFACTURING SERVICES ASSOCIATES, INC.  
1200 South Albany - Spring Valley, WI 53088-1071  
Phone: 262-338-8800 Fax: 262-338-8870  
www.msa-engineers.com

**2015 WWTF UPGRADE**  
**CITY OF TOMAHAWK**  
 LINCOLN COUNTY, WISCONSIN

PROJECT NO.	DATE	BY	CHK
ISSUED FOR	DATE	BY	CHK
REVISED	DATE	BY	CHK
DATE	DATE	BY	CHK





# Staab PM Change Order Estimate

GREG GUNDERSON

M S A PROFESSIONAL SERVICES

1230 SOUTH BLVD

BARABOO, WI 53913-2791

File: 4481- CO

Date: 03/17/2015

Project: 4481- TOMAHAWK WWTF

Re: GRIT PAD AND PIPING ADDITION

PCO:

03

PCO Item #:

1

Phase	Description	Comments	Qty	UM	Material	Indirect	Rent	Hours	Rate	Labor	Sub	Equip	Totals
1002- -	Project Management / Supervision		598	CLH				44	111.82	4,920			4,920
1400- -	Quality Control		4	SET		298		4	101.46	355	267		920
2050- -	Demolition		1	LS	103			12	103.43	1,241	906		2,250
2222- -	Structural Excavation - Entire Site		0	CCY			1,246	35	100.90	3,531			4,777
2510- -	Asphalt Paving		0	SY							1,388		1,388
2605- -	Manholes		1	LS	3,437			12	98.81	1,186			4,623
2690- -	Pipe Excavation & Backfill - Entire Site		0	BCY	181		129	7	100.90	706			1,016
3000- -	CONCRETE		51	CY	10,893		212	353	103.58	36,564			47,669
5500- -	Metal Fabrications		1	LS	5,665			20	101.89	2,010			7,675
7900- -	Joint Sealants		0	LF	86			2	104.98	210			296
11292- -	SLIDE GATES		1	EA				9	100.80	907		1,660	2,567
	<b>Total Cost</b>				<b>20,365</b>	<b>298</b>	<b>1,587</b>	<b>497</b>		<b>51,632</b>	<b>2,561</b>	<b>1,660</b>	<b>78,103</b>
	<b>Percent Margin</b>				<b>15.00%</b>	<b>15.00%</b>	<b>15.00%</b>				<b>5.00%</b>	<b>15.00%</b>	
	<b>Margin</b>				<b>3,055</b>	<b>45</b>	<b>238</b>				<b>128</b>	<b>249</b>	<b>3,715</b>
	<b>Contract Price Sub-Total</b>				<b>23,420</b>	<b>343</b>	<b>1,825</b>			<b>51,632</b>	<b>2,689</b>	<b>1,909</b>	<b>81,817</b>
1220- -	BONDS												800
	<b>Contract Price Total</b>												<b>82,617</b>

# Change Order No. 2

Date of Issuance: 4/22/15 Effective Date: 4/22/15

Project: <b>WWTF Upgrade</b>	Owner: City of Tomahawk	Owner's Contract No.:
Contract: <b>Tomahawk Wastewater Treatment Facility Upgrade</b>		Date of Contract: <b>12/30/14</b>
Contractor: <b>Staab Construction</b>		Engineer's Project No.: <b>00046044</b>

The Contract Documents are modified as follows upon execution of this Change Order:

Description:

Primary Sludge pump change, convert LS #5,10,12,13 to 480V service, remove OmniSites @ LS #5,10,13, Add location control stations @ LS #5,10,12,13, add conduit for primary clarifier condensate heater

Attachments (list documents supporting change):

Attached proposals from Staab and email correspondence

**CHANGE IN CONTRACT PRICE:**

**CHANGE IN CONTRACT TIMES:**

Original Contract Price:

\$1,534,171.00

Original Contract Times:

Working days  Calendar days

~~Substantial completion (days or date):~~ \_\_\_\_\_

~~Ready for final payment (days or date):~~ \_\_\_\_\_

Increase from previously approved Change Orders No. 0 to No. 0

{Increase} {Decrease} from previously approved Change Orders  
No. \_\_\_\_\_ to No. \_\_\_\_\_

\$Pending C.O. #1

~~Substantial completion (days):~~ \_\_\_\_\_

~~Ready for final payment (days):~~ \_\_\_\_\_

Contract Price prior to this Change Order:

\$Pending C.O. #1

Contract Times prior to this Change Order:

~~Substantial completion (days or date):~~ \_\_\_\_\_

~~Ready for final payment (days or date):~~ \_\_\_\_\_

Increase of this Change Order:

\$8,932.00

{Increase} {Decrease} of this Change Order:

~~Substantial completion (days or date):~~ \_\_\_\_\_

~~Ready for final payment (days or date):~~ \_\_\_\_\_

Contract Price incorporating this Change Order:

\$Pending C.O. #1

Contract Times with all approved Change Orders:

~~Substantial completion (days or date):~~ \_\_\_\_\_

~~Ready for final payment (days or date):~~ \_\_\_\_\_

RECOMMENDED:

ACCEPTED:

ACCEPTED:

By:   
Engineer (Authorized Signature)

By: \_\_\_\_\_  
Owner (Authorized Signature)

By:   
Contractor (Authorized Signature)

Date: 4/22/15  
Approved by Funding Agency (if applicable):

Date: \_\_\_\_\_

Date: 4/22/15 Kevin J. Leick,  
Sr. Vice President

Date: \_\_\_\_\_

## Greg Gunderson

---

**From:** Greg Gunderson  
**Sent:** Wednesday, April 15, 2015 2:03 PM  
**To:** Steinman,Tim (tim.steinman@Staabco.com)  
**Cc:** Thea Carroll; Jeff Seamandel  
**Subject:** Tomahawk - C.O. #2

Tim –

I've gotten the go ahead from the DPW at Tomahawk for the following items. We'll consider them C.O. #2. Anything dealing with the grit pad is on hold pending the decision by the Water/Sewer Commission on 4/28.

Primary Sludge Pump (change to Penn Valley)	ADD	\$7,532
Convert LS #5,10,12,13 Control Panels to 480V Service	ADD	\$5,630
Remove Omni-Site Dialers @ LS 5,10,13	DEDUCT	\$9,300
Local Control Stations @ LS 5,10,12,13	ADD	\$4,120
Primary Clarifier Motor Heater Conduit	ADD	<u>\$950</u>
<b>TOTAL</b>	<b>ADD</b>	<b>\$8,932</b>

Let me know if you have any questions. I'll forward you the formal paperwork soon.

Thanks.

 **Greg Gunderson, PE** | Senior Project Engineer  
MSA Professional Services, Inc.  
(608) 356-2771



# Staab PM Change Order Estimate

GREG GUNDERSON  
 M S A PROFESSIONAL SERVICES  
 1230 SOUTH BLVD  
 BARABOO, WI 53913-2791

File: 4481- CO  
 Date: 02/23/2015  
 Project: 4481- TOMAHAWK WWTF  
 Re: SUPPLY PENN VALLEY PUMP IN LIEU OF WASTECORP

Phase	Description	Comments	Qty	UM	Material	Indirect	Rent	Hours	Rate	Labor	Sub	Equip	Totals
1002- -	Project Management / Supervisor		0	CLH				2	111.50	223			223
2050- -	Demolition		0	LS	114			13	103.14	1,341			1,455
9900- -	Painting		0	LS				0		0	234		234
11313- -	Double Disc PD Pumps		0	EA				0		0		4,121	4,121
15002- -	DI Piping Lbr		0	LS				3	96.25	289			289
15070- -	DI Pipe Materials		0	LS	284			0		0			284
15120- -	Pipe Accessories		0	LS	58			1	96.25	96			154
	<b>Total Cost</b>				<b>456</b>	<b>0</b>	<b>0</b>	<b>19</b>		<b>1,949</b>	<b>234</b>	<b>4,121</b>	<b>6,760</b>
	<b>Percent Margin</b>				<b>15.00%</b>	<b>0.00%</b>	<b>0.00%</b>				<b>5.00%</b>	<b>15.00%</b>	
	<b>Margin</b>				<b>68</b>	<b>0</b>	<b>0</b>				<b>12</b>	<b>618</b>	<b>698</b>
	<b>Contract Price Sub-Total</b>				<b>524</b>	<b>0</b>	<b>0</b>			<b>1,949</b>	<b>246</b>	<b>4,739</b>	<b>7,458</b>
1220- -	<b>BONDS</b>												<b>74</b>
	<b>Contract Price Total</b>												<b>7,532</b>



**Penn Valley Pump Co., Inc.**

998 Easton Road • Warrington, PA 18976

Ph: 215-343-8750 • Fax: 215-343-8753

www.pennvalleypump.com

<b>Staab Construction Corporation</b> 1800 Laemle Ave. Marshfield, WI 54449 Attn: Mr. Tim Steinman	<b>Date: February 16, 2015</b>
	<b>Quote No: 14223-A</b>
	<b>Project: Tomahawk, WI WWTP</b> <b>Local Rep: LW Allen, Inc. – Bill Buckles, P.E.</b> <b>Contact: 608-516-4080</b>

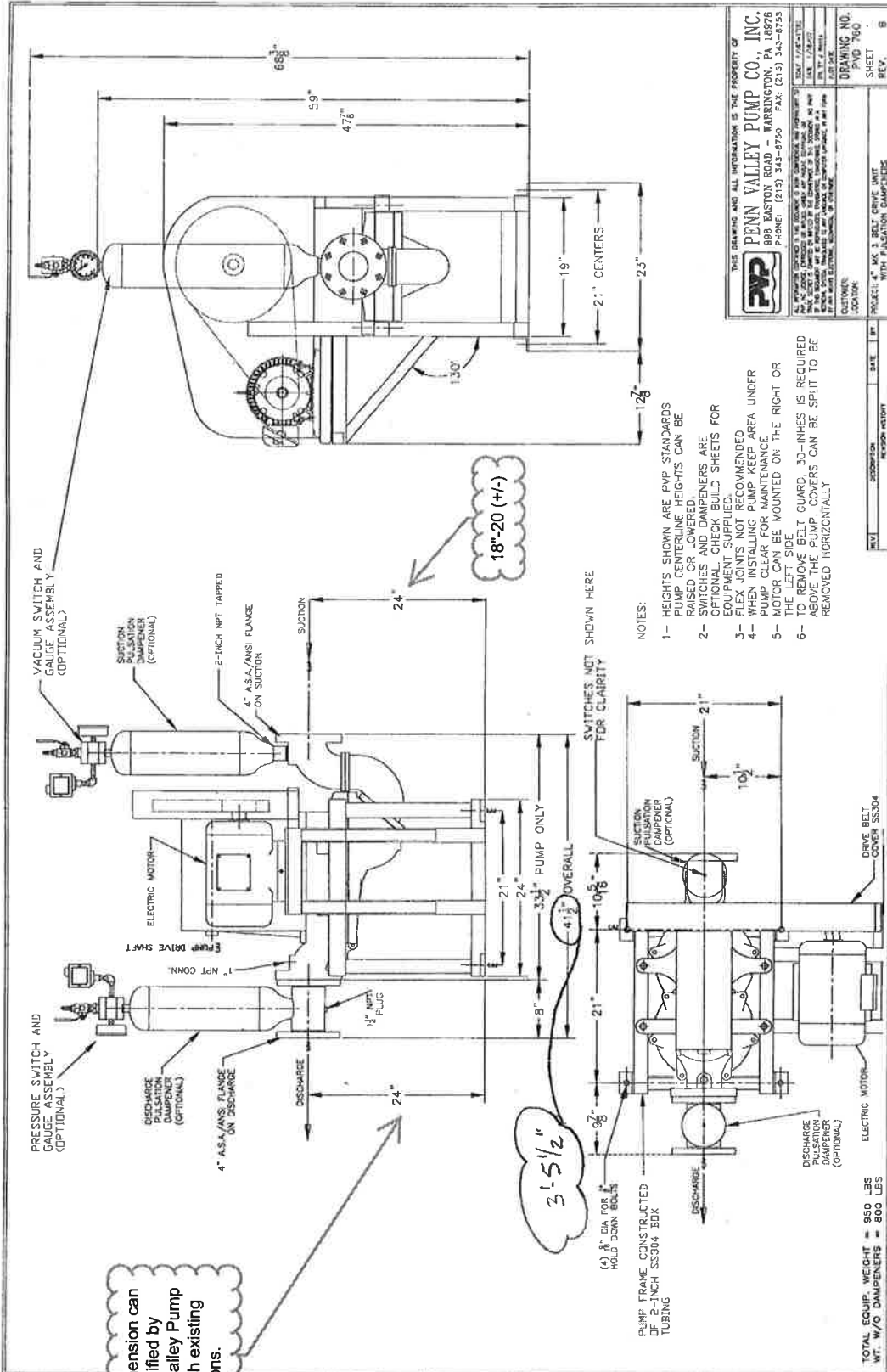
Qty	Description: Municipal WWTP	Unit Price	Total Price
	<b>Application: Primary sludge transfer</b>		
	<b>Duty: 80 GPM @ 50ft TDH</b>		
	<b>Suction: Suction lift of approx 10 feet</b>		
	<b>Proposed Equipment:</b>		
1	4" Model 4DDSX30CNU Penn Valley Double Disc™ pump <ul style="list-style-type: none"> <li>• 4" ASA/ANSI 150# flanged suction and discharge connections</li> <li>• Cast iron housing and neoprene elastomers</li> <li>• Maintain-in-place hinged housing design for ease of maintenance</li> <li>• Two-piece swan neck design with full port rigid clack valve</li> <li>• 5 HP, 1160RPM 230-460/3/60 Severe duty, inverter ready motor with thermal overloads</li> <li>• 280 RPM Max pump speed achieved with V-belt and pulley drive</li> <li>• Suction pulsation dampener</li> <li>• Discharge pulsation dampener</li> <li>• 304SS Welded base with OSHA approved guards and covers</li> <li>• Pump and dampeners coated with industrial primer and topcoat</li> <li>• Per drawing PVD760 Side motor mount</li> </ul>	\$	\$
1	PVP Model 420 Suction vacuum switch assembly consisting of: 1" NPT SS316 sensor with EPDM sleeve, adjustable pressure switch set at 10"Hg and 4" (30"Hg-30psi) SS gauge. Mounts to top of dampener to provide protection against plugged lines and closed valves.	\$	\$
1	PVP Model 420 Discharge pressure switch assembly consisting of: 1" NPT SS316 sensor with EPDM sleeve, adjustable pressure switch set at 30psi and 4" (0-100psi) SS gauge. Mounts to top of dampener to provide protection against plugged lines and closed valves.	\$	\$
1	Days of start-up and training services (one-trip/one day onsite)	\$	\$
<b>Total Sale Price</b>		<b>\$</b>	<b>\$19,897.00</b>

**Commercial Information:**

1. Delivery is 4 – 6 weeks after receipt of purchase order or approved submittals.
2. Submittals, if required, are 2 – 3 weeks after receipt of purchase order.
3. Freight terms are F.O.B. Factory, Warrington, PA with freight allowed to jobsite.
4. Terms are Net 30 days after receipt of invoice.
5. Quotation is valid for 60 days from date of issue.
6. Warranty is two (2) years from date of shipment for manufacturer's defects in materials and workmanship. A complete warranty statement is available for review.

**The following items have not been included:**

- Installation and unloading.
- Foundations, anchor bolts, grouting and foundation design
- Fittings, elbows, reducers or piping of any kind
- Motor starters, Variable Frequency Drives (VFD's) or Controls
- Junction boxes, electrical conduits, or wiring of any kind
- Spare Parts



THIS DRAWING AND ALL INFORMATION IS THE PROPERTY OF  
**PENN VALLEY PUMP CO., INC.**  
 888 EASTON ROAD - WARRINGTON, PA 18878  
 PHONE: (215) 343-8750 FAX: (215) 343-8755

DATE: 1/28/07  
 BY: J. B. BISHOP  
 CHECKED: J. B. BISHOP  
 APPROVED: J. B. BISHOP

DRAWING NO. PVD 760  
 SHEET 1 OF 1  
 REV. B

PROJECT: 1/2\" 3\" BELT DRIVE UNIT WITH PULSATION DAMPENERS

- NOTES:
- 1- HEIGHTS SHOWN ARE PVP STANDARDS PUMP CENTERLINE HEIGHTS CAN BE RAISED OR LOWERED.
  - 2- SWITCHES AND DAMPENERS ARE OPTIONAL. CHECK BUILD SHEETS FOR EQUIPMENT SUPPLIED.
  - 3- FLEX JOINTS NOT RECOMMENDED
  - 4- WHEN INSTALLING PUMP KEEP AREA UNDER PUMP CLEAR FOR MAINTENANCE.
  - 5- TOP OF PUMP SHOULD BE MOUNTED ON THE RIGHT OR THE LEFT SIDE.
  - 6- TO REMOVE BELT GUARD, 30-INCHES IS REQUIRED ABOVE THE PUMP. COVERS CAN BE SPLIT TO BE REMOVED HORIZONTALLY.

REV	DESCRIPTION	DATE	BY

TOTAL EQUIP. WEIGHT = 950 LBS  
 WT. W/O DAMPENERS = 800 LBS



**staab**  
construction  
CORPORATION

1800 LAEMLE AVE., P.O. BOX 900; MARSHFIELD, WI 54449-0900  
715-387-8429 FAX NO. 715-384-4846

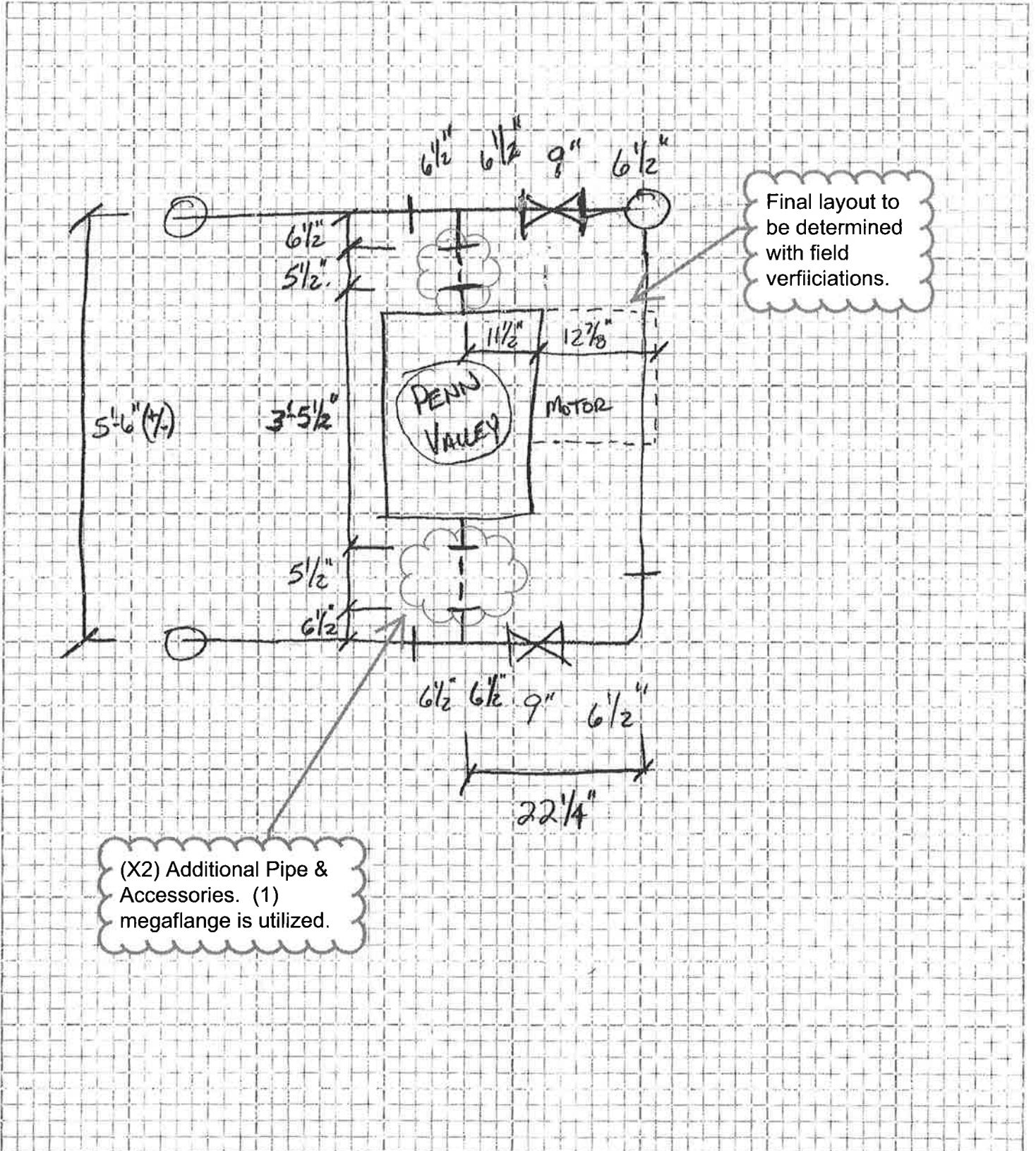
JOB: COTWWTF-2015 FILE: 4481-11313

SUBJECT: PEN VALLEY PUMP LAYOUT

DRAWN BY: TJS DATE: 2/20/15

CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

SCALE: NTS



Final layout to be determined with field verifications.

(X2) Additional Pipe & Accessories. (1) megaflange is utilized.



# Staab PM Change Order Estimate

GREG GUNDERSON  
 M S A PROFESSIONAL SERVICES  
 1230 SOUTH BLVD  
 BARABOO, WI 53913-2791

File: 4481- CO  
 Date:  
 Project: 4481- TOMAHAWK WWTF  
 Re: LS 5,10,12,13 CONVERT TO 480 VOLT SERVICE

PCO: 06 PCO Item #: 1

Phase	Description	Comments	Qty	UM	Material	Indirect	Rent	Hours	Rate	Labor	Sub	Equip	Totals
1002- -	Project Management / Supervision		0	CLH				2	107.40	215			215
13690- -	P & I Control Systems		0									3,400	3,400
16050- -	Electrical Construction		0	C\$							1,380		1,380
	<b>Total Cost</b>							<b>2</b>		<b>215</b>	<b>1,380</b>	<b>3,400</b>	<b>4,995</b>
	<b>Percent Margin</b>										<b>5.00%</b>	<b>15.00%</b>	
	<b>Margin</b>										<b>69</b>	<b>510</b>	<b>579</b>
	<b>Contract Price Sub-Total</b>									<b>215</b>	<b>1,449</b>	<b>3,910</b>	<b>5,574</b>
1220- -	BONDS												56
	<b>Contract Price Total</b>												<b>5,630</b>

## Greg Gunderson

---

**From:** Steinman, Tim <tim.steinman@Staabco.com>  
**Sent:** Tuesday, March 17, 2015 3:22 PM  
**To:** Greg Gunderson  
**Subject:** RE: Tomahawk WWTF - LS WPS Service  
**Attachments:** LIFT 5 DRAWINGS.PDF

**Follow Up Flag:** Follow up  
**Flag Status:** Completed

Greg,

Additional cost will apply to upsize the panel ratings to 480V at LS# 5,10,12,13 (~~\$3570~~ + ~~pending~~ **\$5,630** ~~verification/clarification of scope of supply & items #3&4~~).

Cost take into consideration the following:

1. With the change to a 480V service, the existing station heater would need to be added to the control transformer within the panel. Our current design has the heater powered off of the 240V service directly, through its own dedicated breaker. Current drawings are attached. The additional cost per panel for this would be to cover additional material costs and engineering/CAD to modify drawings. Costs included in the \$3570 above.

FYI - there are also other options you could consider for this item (i.e. a transformer in the drywell, re-using the old control panel transformer, etc).

2. The specified surge suppressor is not UL listed for 480V, three phase (however it is UL listed at 240V). IPS recommends a UL listed, Square D surge suppressor (SDSA3650), which is additional per panel. Costs included in the \$3570 above.
3. The generator receptacle we selected is based on the existing generator plug. If a different plug is used for 480V backup, we would need to check pricing compared to our bid.
4. The arc flash energy levels will be higher at 480V versus 240V. This would need to be investigated further, and may not be an additional cost but have safety implications (i.e. different PPE/maintenance procedures).

Jason with Van Ert will visit the site tomorrow to review what can be done with the existing generator. See attached generator equipment tag sent to us from Dave (Tomahawk). Additional cost may apply for the generator conversion. Cost to come later this week.

I thought we would get you what information we have to date. We can follow up with an official cost estimate once we have all the details worked out and decide if we are moving forward with the changes.

Thanks,

Tim Steinman

### Staab Construction Corporation

*General & Mechanical Contractors - Industrial, Municipal*  
1800 Laemle Ave PO Box 900 Marshfield, WI 54449-0900



# Staab PM Change Order Estimate

GREG GUNDERSON  
 M S A PROFESSIONAL SERVICES  
 1230 SOUTH BLVD  
 BARABOO, WI 53913-2791

File: 4481- CO  
 Date: 03/19/2015  
 Project: 4481- TOMAHAWK WWTF  
 Re: PRIMARY CLARIFIER MOTOR HEATER CIRCUIT

PCO: 04 PCO Item #: 1

Phase	Description	Comments	Qty	UM	Material	Indirect	Rent	Hours	Rate	Labor	Sub	Equip	Totals
16050- -	Electrical Construction		0	C\$							896		896
	<b>Total Cost</b>										<b>896</b>		<b>896</b>
	<b>Percent Margin</b>										<b>5.00%</b>		
	<b>Margin</b>										<b>45</b>		<b>45</b>
	<b>Contract Price Sub-Total</b>										<b>941</b>		<b>941</b>
1220- -	BONDS												9
	<b>Contract Price Total</b>												<b>950</b>

## Greg Gunderson

---

**From:** Steinman, Tim <tim.steinman@Staabco.com>  
**Sent:** Thursday, March 19, 2015 11:41 AM  
**To:** Greg Gunderson  
**Subject:** RE: C.O. #1 - Tomahawk WWTF

**Follow Up Flag:** Follow up  
**Flag Status:** Completed

Greg – see attached cost for the additional wiring for the Primary Clarifier motor heater. This should conclude the items on Project Change Order #1. We did find that all the other 120V going to the Primary Clarifier (lights, receptacles) comes from 10LP-1 at the HW BLDG. You had referenced we need to come from 25LP-1. Our pricing reflects terminating in panel 10LP-1. Let us know if you need any additional information.

Thanks,

Tim Steinman

### Staab Construction Corporation

*General & Mechanical Contractors - Industrial, Municipal*

1800 Laemle Ave PO Box 900 Marshfield, WI 54449-0900

P: 715.387.8429 ext 292 F: 715.384.4846 M: 715.305.2007

tim.steinman@staabco.com

**Please visit our website: [www.staabco.com](http://www.staabco.com)**

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**From:** Greg Gunderson [mailto:ggunderson@msa-ps.com]  
**Sent:** Tuesday, March 17, 2015 4:44 PM  
**To:** Steinman, Tim  
**Cc:** Anderson, April  
**Subject:** RE: C.O. #1 - Tomahawk WWTF

Sent from my Verizon Wireless 4G LTE smartphone

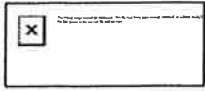
----- Original message -----

**From:** Greg Gunderson <ggunderson@msa-ps.com>  
**Date:** 03/17/2015 8:53 AM (GMT-06:00)  
**To:** "Steinman, Tim" <tim.steinman@Staabco.com>  
**Cc:** "Anderson, April" <April.Anderson@Staabco.com>  
**Subject:** RE: C.O. #1 - Tomahawk WWTF

Thanks for the reminder, Tim. We included new conduit for the 120V power to the clarifier equipment, refer to plan note #9 on drawing 05E1. We did not include a dedicated circuit for the 30W heater, but it probably should

be. You can utilize spare 20A/1P breaker in 25-LP-1 (20) for this purpose and run 3#12's through the same conduit. I would expect the additional cost to be minimal. Let me know, and we'll make sure to include it in the change order.

Thanks.



**Greg Gunderson, PE** | Senior Project Engineer  
MSA Professional Services, Inc.  
(608) 356-2771

---

**From:** Steinman, Tim [<mailto:tim.steinman@staabco.com>]  
**Sent:** Monday, March 16, 2015 5:03 PM  
**To:** Greg Gunderson  
**Cc:** Anderson, April  
**Subject:** RE: C.O. #1 - Tomahawk WWTF

Greg – did you have a chance to review the information I sent you regarding the heater for the primary clarifier motor? There is a potential for additional changes depending on how we are required to route the wire to the motor? Call me if you would like to further discuss. (We could hold CO #1 until we have all current issues resolved to minimize paperwork)

Thanks,

Tim Steinman

## **Staab Construction Corporation**

*General & Mechanical Contractors - Industrial, Municipal*

1800 Laemle Ave PO Box 900 Marshfield, WI 54449-0900

**P:** 715.387.8429 **ext 292** **F:** 715.384.4846 **M:** 715.305.2007

[tim.steinman@staabco.com](mailto:tim.steinman@staabco.com)



# Staab PM Change Order Estimate

GREG GUNDERSON  
 M S A PROFESSIONAL SERVICES  
 1230 SOUTH BLVD  
 BARABOO, WI 53913-2791

File: 4481- CO  
 Date: 03/16/2015  
 Project: 4481- TOMAHAWK WWTF  
 Re: DEDUCT OMNI-SITES(DIALERS @ LIFT STATIONS #5,10,12,13)

PCO: 02 PCO Item #: 1

Phase	Description	Comments	Qty	UM	Material	Indirect	Rent	Hours	Rate	Labor	Sub	Equip	Totals
13690- -	P & I Control Systems		0									(9,300)	(9,300)
	<b>Total Cost</b>											<b>(9,300)</b>	<b>(9,300)</b>
	<b>Percent Margin</b>											<b>0.00%</b>	
	<b>Margin</b>											<b>0</b>	
	<b>Contract Price Sub-Total</b>											<b>(9,300)</b>	<b>(9,300)</b>
1220- -	BONDS											<b>0</b>	<b>0</b>
	<b>Contract Price Total</b>											<b>(9,300)</b>	<b>(9,300)</b>

## Greg Gunderson

---

**From:** Steinman, Tim <tim.steinman@Staabco.com>  
**Sent:** Friday, March 06, 2015 4:40 PM  
**To:** Greg Gunderson  
**Subject:** COTWWTF: Cost Savings Proposal

**Follow Up Flag:** Follow up  
**Flag Status:** Completed

Greg,

Through discussions with Eric at Integrated Process Solutions and site visits to the Lift Stations, a Credit of \$9300 can be offered to the owner based on the following:

### Description of Change to contract

1. The contract specifications include Omni-site XR-50 dialers to be installed in the new panels for Lift Stations 5, 10, 12, and 13. The contract specifications also require 5 years of service through Verizon. Currently lift stations 5, 10, and 13 have XR-50 cellular dialers installed.
2. A credit for the dialer and cellular service includes material costs and labor for relocating the three existing dialers.

Let us know how you would like for us to proceed.

Thanks,

Tim Steinman

### **Staab Construction Corporation**

**General & Mechanical Contractors - Industrial, Municipal**

1800 Laemle Ave PO Box 900 Marshfield, WI 54449-0900

**P:** 715.387.8429 **ext 292** **F:** 715.384.4846 **M:** 715.305.2007

tim.steinman@staabco.com

**Please visit our website: [www.staabco.com](http://www.staabco.com)**

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# Staab PM Change Order Estimate

GREG GUNDERSON  
 M S A PROFESSIONAL SERVICES  
 1230 SOUTH BLVD  
 BARABOO, WI 53913-2791

File: 4481- CO  
 Date:  
 Project: 4481- TOMAHAWK WWTF  
 Re: LS 5,10,12,13 PUSH BUTTON STATIONS

PCO: 05 PCO Item #: 1

Phase	Description	Comments	Qty	UM	Material	Indirect	Rent	Hours	Rate	Labor	Sub	Equip	Totals
1002- -	Project Management / Supervision		0	CLH				2	107.40	215			215
13690- -	P & I Control Systems		0									740	740
16050- -	Electrical Construction		0	C\$							2,870		2,870
	<b>Total Cost</b>							<b>2</b>		<b>215</b>	<b>2,870</b>	<b>740</b>	<b>3,825</b>
	<b>Percent Margin</b>										<b>5.00%</b>	<b>15.00%</b>	
	<b>Margin</b>										<b>144</b>	<b>111</b>	<b>255</b>
	<b>Contract Price Sub-Total</b>									<b>215</b>	<b>3,014</b>	<b>851</b>	<b>4,079</b>
1220- -	BONDS												41
	<b>Contract Price Total</b>												<b>4,120</b>

## Greg Gunderson

---

**From:** Greg Gunderson  
**Sent:** Wednesday, March 18, 2015 3:23 PM  
**To:** Steinman,Tim  
**Subject:** RE: C.O. Request - Local Control Stations @ LS 5, 10, 12, 13

Correct.

 **Greg Gunderson, PE** | Senior Project Engineer  
MSA Professional Services, Inc.  
(608) 356-2771

---

**From:** Steinman,Tim [mailto:tim.steinman@Staabco.com]  
**Sent:** Wednesday, March 18, 2015 3:13 PM  
**To:** Greg Gunderson  
**Subject:** RE: C.O. Request - Local Control Stations @ LS 5, 10, 12, 13

NEMA 12 enclosures?

Thanks,

Tim Steinman

### Staab Construction Corporation

*General & Mechanical Contractors - Industrial, Municipal*  
1800 Laemle Ave PO Box 900 Marshfield, WI 54449-0900  
**P:** 715.387.8429 **ext 292** **F:** 715.384.4846 **M:** 715.305.2007  
[tim.steinman@staabco.com](mailto:tim.steinman@staabco.com)

**Please visit our website: [www.staabco.com](http://www.staabco.com)**

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---

**From:** Greg Gunderson [mailto:ggunderson@msa-ps.com]  
**Sent:** Wednesday, March 18, 2015 2:17 PM  
**To:** Steinman,Tim  
**Subject:** C.O. Request - Local Control Stations @ LS 5, 10, 12, 13

Tim –

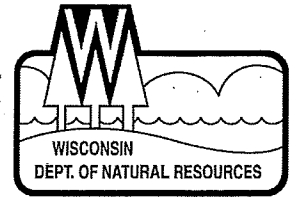
Another C.O. request:

At lift stations 5, 10, 12 and 13, provide a new local HAND-OFF-AUTO control station for each lift station pump. Pedestal mount each control station near it's corresponding pump in the drywell, coordinate exact location with owner. Revise lift station controls to incorporate local control stations such that each control panel mounted HAND-OFF-AUTO selector switch will not operate unless the corresponding local control station is placed in the AUTO position.

Thanks.

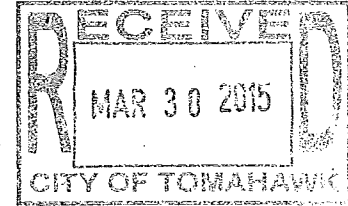
State of Wisconsin  
DEPARTMENT OF NATURAL RESOURCES  
101 S. Webster Street  
Box 7921  
Madison WI 53707-7921

Scott Walker, Governor  
Cathy Stepp, Secretary  
Telephone 608-266-2621  
FAX 608-267-3579  
TTY Access via relay - 711



March 25, 2015

MIKE TOLVSTAD, DIRECTOR OF PUBLIC WORKS  
CITY OF TOMAHAWK  
23 N SECOND ST  
PO BOX 469  
TOMAHAWK, WI 54487



SUBJECT: SFY 2016 Safe Drinking Water Loan Program Project Priority Score  
SDWLP Project No. 5342-02  
Construct Well & Pumphouse #6/SCADA/Trans Main

Dear Mr. Tolvstad:

The Department (DNR) reviewed the Safe Drinking Water Loan Program (SDWLP) Priority Evaluation and Ranking Form (PERF) you submitted in a previous year for this project. We didn't find anything that needs to be revised; therefore, 41 is your project priority score for State Fiscal Year (SFY) 2016.

The SFY 2016 SDWLP Project Priority List containing your project is available online at <http://dnr.wi.gov/Aid/LoanNews.html> under the Project Lists tab. Your project's priority score may change in the future: a) if the project scope identified in the PERF is not fully implemented, b) to incorporate new median household income and population data, or c) to ensure accuracy. We will notify you in writing if we change your priority score.

When DNR assigns a priority score and places a project on the list, we neither guarantee funding nor the eligibility of the project. To obtain funding, you must complete and submit a SDWLP Financial Assistance Application by June 30, 2016. At that time, a DNR project manager will review your application and determine your project's eligibility.

Steven Ohm is your construction management engineer (CME) in the Rhinelander DNR Office, who will monitor the onsite construction management and review all change orders. Contact the CME if you have questions regarding your priority score. Please notify Steven Ohm at least 7 days prior to your preconstruction meeting to ensure the CME is available to participate. You can contact Steven Ohm at 715-365-8939 or [steven.ohm@wisconsin.gov](mailto:steven.ohm@wisconsin.gov).

For next steps and other important information regarding obtaining SDWLP financial assistance, see the enclosed document. Additional SDWLP information is available on the EIF web pages at <http://dnr.wi.gov/Aid/EIF.html>.

If you have questions regarding the SDWLP, please contact your project manager, Mary E. Wagner, at 608-267-7475 or [marye.wagner@wisconsin.gov](mailto:marye.wagner@wisconsin.gov).

Sincerely,



Robin R. Schmidt, Chief  
Environmental Loans Section  
Bureau of Community Financial Assistance

Enclosure

C: Taryn Nall, Kaempfer & Associates Inc., Oconto Falls  
Jim Witthuhn - DG/5  
Bill Dobbins - DNR NOR - Electronic  
Steven Ohm - DNR NOR - Electronic

## IMPORTANT INFORMATION FOR SDWLP APPLICANTS

The Department of Natural Resources (DNR) scored your SDWLP project. So what happens now?

**Next Steps** – If you decide after seeing the SFY 2016 Project Priority List (online at <http://dnr.wi.gov/Aid/LoanNews.html> under the Project Lists tab), that you are interested in applying for SDWLP funds, then **by June 30, 2015**, you must do the following:

- Obtain Engineering Report approval from DNR's Bureau of Drinking Water and Groundwater.
- Submit two (2) copies of approvable, biddable construction plans and specifications to DNR's Bureau of Drinking Water and Groundwater for each portion of the project for which you want to receive SFY 2016 funds.
- Submit a complete SDWLP Financial Assistance Application (Form 8700-262) with all required attachments to DNR's Bureau of Community Financial Assistance. The following should be done as soon as possible in order to include these items with your application.
  - ✓ Pass an Authorized Representative Resolution (see info under A in the Reference Guide Index <http://dnr.wi.gov/Aid/Guide.html>).
  - ✓ Pass a Reimbursement Resolution (<http://dnr.wi.gov/Aid/documents/EIF/Guide/reimbursement.html>).
  - ✓ Determine whether you must conduct an environmental review (see Federal Requirements on page 2 of this document) and submit appropriate documents.

**Split or Multiple Projects** – Sometimes DNR splits the scope of work described on an individual PERF into 2 or more projects to ensure that SDWLP funds are used to address the greatest public health needs in the state. If DNR split your project scope, you will receive a Project Priority Score letter, for each project, that includes a unique SDWLP project number and short project description. Please do the following:

- Use the unique number and description on any documentation submitted in the future for the separate projects.
- Submit a separate application form for each project, following the information in the Next Steps section above.
- Contact the DNR project manager identified in the Project Priority Score letter to discuss whether you could submit just one copy of certain items rather than including the same item with each separate application form.

**PSC Water Rates** – If you need a rate increase in order to construct this project and continue proper operation of your water system, your new water rates **must be in effect prior to** your SDWLP loan closing.

- Submit your "Application to Increase Water Rates" to the PSC **as soon as possible** if your rates are regulated by the Public Service Commission of Wisconsin (PSC).
- The rate review process, including reviewing your request, making their recommendations, and conducting a public hearing, may take as long as 6 months.

Contact PSC at 608-266-5481 or visit their website at <http://psc.wi.gov/water/index.htm> for more information.

## **Federal Requirements**

SDWLP applicants must comply with the following federal requirements when applicable to their projects:

---

***Environmental/Archaeological/Historical Reviews*** – You are responsible for determining whether these reviews are applicable to your project.

- Prior to submitting a SDWLP application, an environmental review, and a historical/ archaeological review must be performed on all SDWLP projects in which there is ANY ground disturbance.
- If these reviews are conducted for this project by another agency or for another purpose associated with the project (e.g. a Chapter 30 permit, DOT involvement, CDBG or RD funding), you do not need to duplicate efforts if you can provide sufficient documentation of those reviews.
- Find the link to the “Environmental Review Process for the Safe Drinking Water Loan Program” PDF document in our Reference Guide online at <http://dnr.wi.gov/Aid/Guide.html>.

***Use of American Iron and Steel*** – All SDWLP projects for which the first plans and specifications approval was received on or after December 16, 2014, must comply with Use of American Iron and Steel requirements. Please see our Use of American Iron and Steel web page at <http://dnr.wi.gov/Aid/UAIS.html> for detailed information, including a webinar, applicable forms, a list of affected iron and steel products, documentation requirements, and waiver instructions.

***Davis-Bacon Wage Rates*** – Applicants must comply with Davis-Bacon wage rate requirements. Find a link to the “Complying with Davis-Bacon Requirements” PDF document in our Reference Guide online at <http://dnr.wi.gov/Aid/Guide.html> under D (Davis-Bacon and Related Acts).

***DBEs*** – When your municipality solicits bids or a construction contractor is hiring a subcontractor for construction work, and when procuring equipment, raw materials, or supplies, requirements for solicitation of minority business enterprises, women business enterprises, and other disadvantaged business enterprises (DBEs) apply. For information regarding the DBE requirements, go to <http://dnr.wi.gov/Aid/documents/EIF/Guide/DBE.html>.

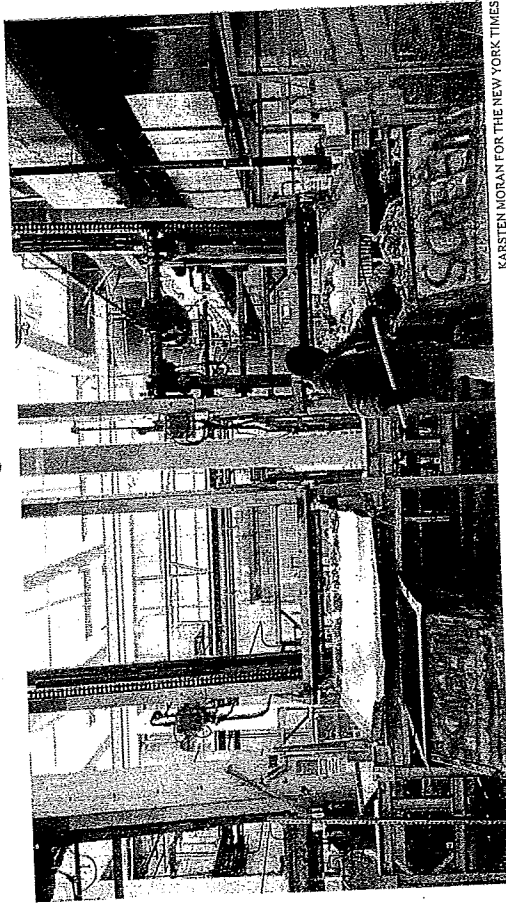
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**Other** – We encourage you to prepare for submitting your application by doing the following as soon as you are able:

- Read through the Checklist on page 1 of the SDWLP Financial Assistance Application (Form 8700-262 available online at (<http://dnr.wi.gov/Aid/documents/EIF/forms/forms.html>)).
  - Start keeping a file of all invoices related to the project and include in the application budget sheet ALL costs you hope to have reimbursed by the SDWLP.
  - Contact your bond counsel to let them know you have a loan closing coming up.
- 

Please contact your DNR project manager if you have any questions or concerns about the application process. We're here to assist you!

# The Box Says Flush . . .



KARSTEN MORAN FOR THE NEW YORK TIMES

Michael Brady, a worker at Newtown Creek, raking wipes and other waste into a bin for disposal.

Wet wipes are gumming up New York's sewer system.

By MATT FLEGENHEIMER

With its sewer system under siege, tallying millions of dollars in equipment damage across its underground maze, New York City is confronting a menace that has gummed the gears of plumbing networks around the world: the common wet wipe.

In recent years, the intersection of evolving hygienic sensibilities and aggressive industry marketing has fueled the product's rise. Wet wipes, long used for baby care, have grown popular with adults.

Some of the products are branded as "flushable" — a characterization contested by wastewater officials and plaintiffs

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sort of superknot. "They're really indestructible," said Vincent Sapienza, a deputy commissioner for the city's Department of Environmental Protection. "I guess that's the purpose."

The city has spent more than \$18 million in the past five years on wipe-related equipment problems, officials said. The volume of materials extracted from screening machines at the city's wastewater treatment plants has more than doubled since 2008, an increase attributed largely to the wipes.

Removal is an unpleasant task. The dank clusters, gray and impenetrable, gain mass like demon snowballs as they travel. Pumps clog. Gears falter. Then, there is the final blow, wrought by an intake of sewage that overwhelmed a portion of a north Brooklyn treatment plant.

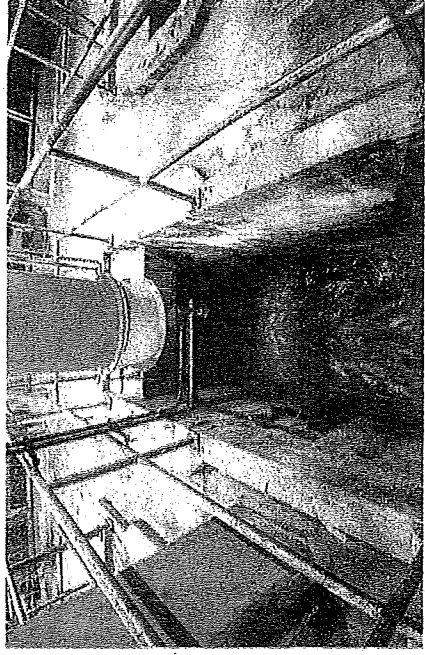
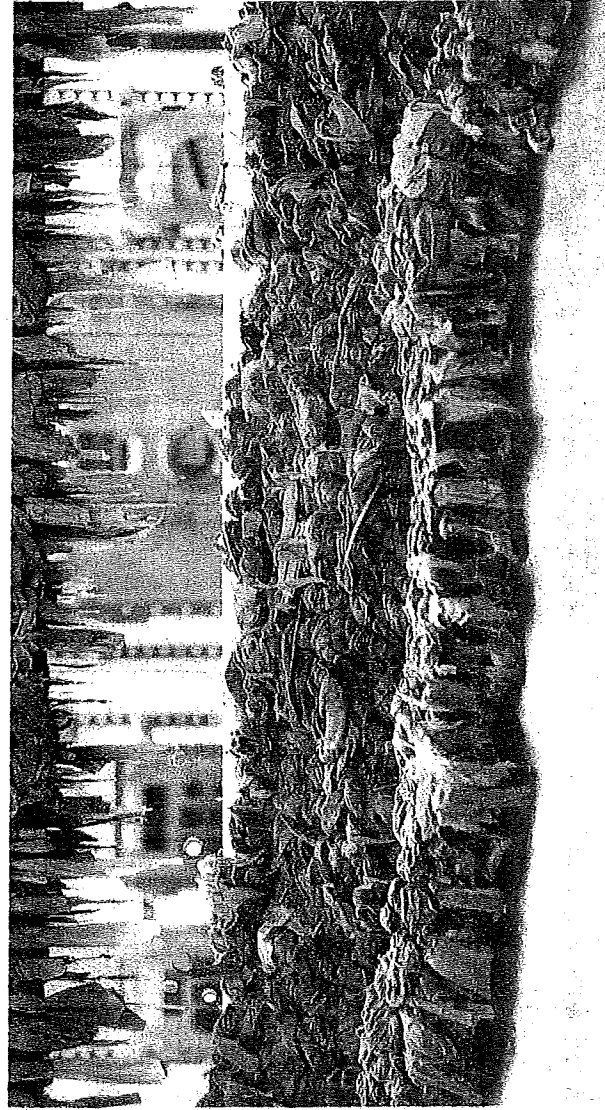
"Odor control," a sign there reads. But on a recent afternoon, the second word had disappeared behind a wayward splotch: It was a used wipe, etched with a heavenly cloud design.

**THE CITY IS NOT ALONE.** Wet wipes, which do not disintegrate the way traditional toilet paper does, have plagued Hawaii and Alaska, Wisconsin and California. Sewer systems have been struffed in Portland, Ore., and Portland, Me. Semantic debates have visited Charleston, W.Va., challenging the latitude of "flushability." "I agree that they're flushable," said Tim Haapala, operations manager for the Charleston Sanitary Board. "A golf ball is flushable, but it's not a good idea."

The consummate cautionary tale is that of London, where in 2013 a collection of wipes, congealed cooking oil and other materials totaled 15 tons, according to Thames Water, the utility company that removed it. It was known, like some previous occurrences, as the fatberg. "We reckon it has to be the biggest such berg in British history," Gordon Hallwood, an official with Thames Water, said at the time.

For wipe manufacturers, heavy investments in products for adults have resonated with customers. Market research, cited in a Bloomberg News article last year, suggested that from 2008 to 2013, sales of the moist flushable wipes had grown 23 percent to \$367 million.

In New York, city officials are tackling the problem in various ways. A City Council bill, which has the backing of the administration of Mayor Bill de Blasio, was introduced last month to prohibit advertising certain moist wipes as flushable. The envi-



PHOTOGRAPHS BY KARSTEN MORAN FOR THE NEW YORK TIMES

Clockwise from top: a mechanical rake at the Newtown Creek plant in Brooklyn collecting solid waste, mostly wet wipes, for disposal; raw sewage entering the plant; a wet wipe stuck to a pipe.

ronmental department has begun work on a public awareness campaign concerning the importance of proper wipe disposal, throwing them in the trash.

Emily Lloyd, Mr. de Blasio's environmental commissioner, who also served that role from 2005 to 2009 and was sanitation commissioner from 1992 to 1994, recalled the warning she received during a return tour of a wastewater plant last year: "You're not going to believe what's happened with baby wipes." And it is residents, Ms. Lloyd noted, who bear the extra cost. "That goes, obviously, on the water

rates," she said. "It's an expense we didn't have before that now we have."

High-profile wipes champions have included the television host Dr. Mehmet Oz; he has since reversed course after conferring with wastewater experts. In a segment outlining his change of heart, he advised viewers to return to regular toilet paper, manually moistened if possible.

**INDUSTRY REPRESENTATIVES** chafe at the suggestion that they have operated irresponsibly. The prime culprits, they say, are customers who ignore label warnings.

The group has teamed up with municipal officials and advocacy groups to promote proper disposal. The industry even pitched in with a logo. "It's the symbol of a stick man dropping something in the toilet, with a slash bar across the stick man," Mr. Rousseau said. But environmentalists say the industry must do more, calling for improved labeling and refined standards for what is considered flushable.

While companies like Procter & Gamble have maintained that their flushable wipes are compatible with municipal pumps, wastewater authorities have long argued that guidelines are not stringent enough.

At issue, primarily, is an industry trial known as the "slosh box test," designed to gauge disintegration thresholds. Critics say the test, which rocks wipes back and forth in a crate of water, does not properly mimic the wastewater system, allowing manufacturers to claim flushability for a product that may be too sturdy for treatment systems. The test is "a lot more turbulent than the flow that you find in a wastewater pipe," said Cynthia Finley, director of regulatory affairs for the National Association of Clean Water Agencies. Flushed materials, she added, generally move "on very gentle slopes."

Mr. Rousseau agreed that the test "can be modified," but added that only 5 or 6 percent of wipes were designed to be flushable, suggesting that much of the trouble involved improper disposal.

City officials have emphasized that they are not anti-wipe. The Council bill would keep the "flushable" label off any product that does not pass a third-party test approved by the environmental protection commissioner, but would not imperil sales, supporters say. "We're not banning wipes," said Councilman Antonio Reynoso, a co-sponsor. He said the bill would simply ban the "flushable" label for products that emerge from the wastewater treatment process "almost as new."

On a recent afternoon at the Newtown Creek Wastewater Treatment Plant in Brooklyn, heaps of wipes — flushable or otherwise — had survived the underground journey intact.

They clung to walls and wires, hanging off gears and horizontal rails, with some discarded atop a metal sheet.

A sewage treatment worker, Michael Brady, approached with a rake, sidling up beside the machines. He cleared the materials off the sheet, into a small trash bin. "It's kind of gross," Mr. Brady said, scraping the bottom clean.

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