

### TOWNSEND WATER DEPARTMENT

540 Main Street West Townsend, Massachusetts 01474

Water 1,5

Michael MacEachern, Chairman

Niles Busler, Vice-Chairman

Nathan Mattila, Clerk

(978) 597-2212 Fax (978) 597-5561

Paul L. Rafuse, Water Superintendent

WATER COMMISSIONERS MEETING MINUTES

March 9, 2015 - 5:30P.M.

Water Department 540 Main Street, Meeting Room

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### I. PRELIMINARIES:

- 1.1 MM Called the meeting to order at 5:30 p.m. at 540 Main Street.
- 1.2 The roll call showed members present: Michael MacEachern-Chairman, Niles Busler-Vice Chairman and Nathan Mattila-Clerk. Guest present: Paul Rafuse, James Blanchard and Brenda Boudreau.
- 1.3 Announce that the meeting is being tape recorded.
- 1.4 Chairman's additions or deletions.
- 1.5 Review/Approve meeting minutes of February 18, 2015. NB moved to approve the meeting minutes of February 8, 2015. NM seconded. Unanimous vote.
- 1.6 The Board reviewed the correspondence between Carolyn and Cheryl Meservey. 3 Gemni Lane. No comment or action was made by customer.

### II. APPOINTMENTS:

### III. MEETING BUSINESS:

- 3.1 Discuss amending rules and regulations re: requirement for asbuilt drawings. NM made a motion to approve the amendment to the Rules and Regulations for required asbuilt drawings. NB seconded. Unanimous vote.
- 3.2 Modify Capital Plan to include cost to purchase and install new generators at the office and Main St station and upgrade the standby engine at Cross St station. MM asked to correct the language to reflect that Cross Street will need a NEW generator not an upgrade. It was tabled.
- 3.3 Review/Discuss/Sign Amendment to Personal Policies and Procedures Manual RE: Biweekly Payroll. NM moved to approve and sign amending the personnel, policies and procedures referring to the bi-weekly payroll change. NB seconded. Unanimous vote.
- 3.4 Formally sign previously approved Change Orders 1 & 2 of the SCADA project. The changes were (1). Addition of ultrasonic level transducers in the chemical storage tanks at the Main Street, Cross Street and Witches Brook 1&2 totaling \$13,764.95. (2) Elimination of the labor required to install new level transducers at the Fitchburg Road Tank and highland Street Tank sites totaling \$(1,109.49). The Board signed the previously voted on change order.
- 3.5 Discuss results of pantonite treatment and recent developments regarding the Cross St. well. Paul reported that the pantonite did reduce the manganese levels at the Cross Street well, but not enough. The manganese level is still too high and Paul recommends flushing. A long term plan may result in locating an alternate well site which may cost somewhere between \$300K-\$400K.
- 3.6 Discuss/Approve estimating the remaining residential accounts that do not have radio meter reading transmitters due to the excessive snow fall. Paul reported that there is approximately 200 accounts left to convert to radio read. Those accounts will be estimated.
- 3.7 Discuss the use of another contractor to perform Cross-Connection Surveying and Backflow Preventer testing. Paul reported that Gary is ill and unable to perform the Backflow testing until

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- further notice. Paul met with Joe Heitz, president of water safety services in Woburn Ma. He will be performing the testing at a lower cost to the customer.
- 3.8 Discuss/approve/vote on Superintendent signing Adjustment form in lieu of BOWC for daily work. RE: NSF, Quarterly U/C adjustments. Etc. NM moved to allow the superintendent to sign the adjustments for daily work. NB seconded. Unanimous vote.
- 3.9 Discuss the subject of Water Department vehicle use by employees at recent Board of Selectmen's meetings. Paul discussed his displeasure with the BOS meeting discussing the accusations made referring to the vehicle policy use by a selectman.
- 3.10 Approve adjustment to acct #60989, John Leahy, \$79.50 RE: NSF. NB made a motion to approve the adjustment to account # 60989, John Leahy in the amount of \$79.50. NM seconded. Unanimous vote.
- 3.11 Approve adjustment to Country Estates, Acct#'s 60476, 60477, 60478, \$287.50. RE: Quarterly UC adjustment. NM moved to approve adjustments to the following accounts #60476, 60477 and 60478 in the amount of \$287.50. NB seconded. Unanimous vote.
- 3.12 Approve adjustment/abatement to acct# 60343, Edward Smith, 1 Fox Run, \$150.63 User and -\$12.17 late charges totaling \$162.80. RE payment of 150.63 posted to acct #60353 in error. See vote 3.14
- 3.13 Approve adjustment to acct# 60353, Enrico Leal, 4 Fox Run \$150.63 User. RE payment of 150.63 should have been posted to acct #60343. NB made a motion to adjust account #60343, E Smith increase \$162.80 and decrease acct #60353, \$153.63. Post to wrong acct in error. NM seconded. Unanimous vote.
- 3.14 Approve adjustment to acct #60117, Paula Woodman, 453 Main Street \$1.86. RE: Customer did not realize payment to Unibank did not go through. NB made a motion to approve adjustment to acct #60117, P. Woodman \$1.86 in late charges due to customer error. NM seconded. Unanimous vote.

### IV. COMMISSIONERS UPDATES AND REPORTS.

4.1

### V. WATER SUPERINTENDENTS UPDATES AND REPORTS.

- 5.1 Paul reported that to date there has been eleven freeze ups costing the TWD \$1100.00.
- 5.2 Paul reported that he had spoken to Mr. Dow, 529 Main Street about the proposed pipeline. He has attended several meetings and informed me he proposed a relocation of the line that would go through the right side of our property.
- 5.3 Paul reported that we needed replace our Comcast modem. This will increase our band width and accommodate all of our new software and SCADA programming.

### VI. OFFICE UPDATES AND REPORTS.

- 6.1 The Board reviewed payroll.
- 6.2 The Board reviewed and signed February 2015 Schedule of Bills Receivable report.
- 6.3 The Board reviewed February 2015 Accounts Receivable report.
- 6.4 The Board reviewed February 2015 Appropriation Balance report.
- 6.5 Brenda reported on the Century Bank lockbox operation and the EZ Bill program to upload payments to customer accts automatically was successful.

### VII. ADJOURNMENT:

MM adjourned the meeting at 7:05pm.



### TOWNSEND WATER DEPARTMENT

540 Main Street West Townsend, Massachusetts 01474

Michael MacEachern, Chairman

Niles Busler, Vice-Chairman

Nathan Mattila, Clerk

(978) 597-2212 Fax (978) 597-5561

Paul L. Rafuse, Water Superintendent

## WATER COMMISSIONERS MEETING AGENDA March 9, 2015 - 5:30P.M. Water Department 540 Main Street, Meeting Room

### I. PRELIMINARIES:

- 1.1 Call the meeting to order and announce meeting address.
- 1.2 Roll call.
- 1.3 Announce that the meeting is being tape recorded
- 1.4 Chairman's additions or deletions.
- 1.5 Review/Approve meeting minutes of February 18, 2015(SF)
- 1.6 Review correspondence.

### II. APPOINTMENTS:

### **III. MEETING BUSINESS:**

- 3.1 Discuss amending rules and reg's re: requirement for asbuilt drawings
- 3.2 Modify Capital Plan to include cost to purchase and install new generators at the office and Main St station and upgrade the standby engine at Cross St station.
- 3.3 Review/Discuss/Sign Amendment to Personal Policies and Procedures Manual RE: Biweekly Payroll (SF)
- 3.4 Formally sign previously approved Change Orders 1 & 2 of the SCADA project
- 3.5 Discuss results of Pantonite treatment and recent developments regarding the Cross St. well.
- 3.6 Discuss/Approve estimating the remaining residential accounts that do not have radio meter reading transmitters due to the excessive snow fall.
- 3.7 Discuss the use of another contractor to perform Cross-Connection Surveying and Backflow Preventer testing.
- 3.8 Discuss/approve/vote on Superintendent signing Adjustment form in lieu of BOWC for daily work. RE: NSF, Quarterly U/C adjustments. Etc.
- 3.9 Discuss the subject of Water Department vehicle use by employees at recent Board of Selectmen's meetings.
- 3.10 Approve adjustment to acct #60989, John Leahy, \$79.50 RE: NSF. (SF)
- 3.11 Approve adjustment to Country Estates, Acct#'s 60476, 60477, 60478, \$287.50. RE: Quarterly UC adjustment. (SF)
- 3.12 Approve adjustment/abatement to acct# 60343, Edward Smith, 1 Fox Run, \$150.63 User and -\$12.17 late charges totaling \$162.80. RE payment of 150.63 posted to acct #60353 in error. (SF)
- 3.13 Approve adjustment to acct# 60353, Enrico Leal, 4 Fox Run \$150.63 User. RE payment of 150.63 should have been posted to acct #60343. (SF)
- 3.14 Approve adjustment to acct #60117, Paula Woodman, 453 Main Street \$1.86. RE: Customer did not realize payment to Unibank did not go through. (SF)

### IV. COMMISSIONERS UPDATES AND REPORTS.

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### V. WATER SUPERINTENDENTS UPDATES AND REPORTS.

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### VI. OFFICE UPDATES AND REPORTS.

- 6.1 Review and Sign Bills Payable Warrants.
- 6.2 Review payroll.
- 6.3 Review and sign February 2015 Schedule of Bills Receivable report (SF)
- 6.4 Review February 2015 Accounts Receivable report.
- 6.5 Review February 2015 Appropriation Balance report.
- \*\* (SF) signature folder

### VII. ADJOURNMENT:

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### TOWNSEND WATER DEPARTMENT

540 Main Street West Townsend, Massachusetts 01474

Michael MacEachern, ChairmanNiles Busler, Vice-ChairmanNathan Mattila, ClerkPaul L. Rafuse,(978) 597-2212Water SuperintendentFax (978) 597-5561

### WATER COMMISSIONERS MEETING MINUTES February 18, 2015 - 5:30P.M.

Water Department 540 Main Street, Meeting Room



### I. PRELIMINARIES:

- 1.1 MM called the meeting to order at 5:38 PM, 540 Main Street.
- 1.2 Roll call showed members present Michael MacEachern, Niles Busler and Nathan Mattila. Guests present Paul Rafuse and Brenda Boudreau.
- 1.3 MM announced that the meeting is being tape recorded
- 1.4 Chairman's additions or deletions. None
- 1.5 NM made a motion to accept the meeting minutes of January 12, 2015. NB seconded. Unanimous vote.
- 1.6 The Board reviewed the correspondence.
- II. APPOINTMENTS: None

### **III. MEETING BUSINESS:**

- 3.1 The Board discussed amending rules and reg's re: requirement for asbuilt drawings. Paul submitted a draft for approval. Tabled. The Board will review for the March meeting.
- 3.2 Modify Capital Plan to include cost to purchase and install new generators at the office and Main St station and upgrade the standby engine at Cross St station. Tabled
- 3.3 Paul reported that the Highway Department has already started to maintain Kimplen Court.
- 3.4 The Board discussed amending specifications for meter pit size requirements. Tabled
- 3.5 NM made a motion to approve the adjustment to acct #60524, Eugene Champagne \$85.50 due to the payment made to Unibank twice. NB seconded. Unanimous vote.
- IV. COMMISSIONERS UPDATES AND REPORTS.

### V. WATER SUPERINTENDENTS UPDATES AND REPORTS.

5.1 Paul reported the Highland St. Tank testing results for the month was clean.

### VI. OFFICE UPDATES AND REPORTS.

- 5.4 The Board reviewed and signed bills payable warrants out of session.
- 5.5 The Board reviewed the payroll.
- 5.6 The Board reviewed and signed the January 2015 Schedule of Bills Receivable report
- 5.7 The Board reviewed the January 2015 Accounts Receivable report.
- 5.8 The Board did not review January 2015 Appropriation Balance report. It was unavailable.

VII. <u>ADJOURNMENT</u>: NM made a motion to adjourn the meeting at 6:10 pm and sign the warrants out of session. NB seconded. Unanimous vote.

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To: Cheryl Meservey <cmes912@gmail.com>

Subject: Re: Please remove late charges from my account

Cc: prafuse@townsend.ma.us, brenda Boudreau <bboudreau@townsend.ma.us>

Hi Cheryl,

I will certainly put your request before the Commissioners to decide, however, I just wanted to let you know the due date for payment was February 15, 2015 and late charges were applied to the accounts on February 19, 2015.

Without trying to decide for the Water Commissioners, I am not sure they will agree that a check dated and mailed on February 14, 2015 would be here in time.

If you still want me to put this on the next agenda for them to decide, please let me know.

Thank you and I do apologize for the inconvenience.

Carolyn

At 10:47 AM 2/27/2015, you wrote:

Hello-

Please remove the late charge and demand charge from my account #4960 for Stephen Meservey, 3 Gemini Lane. We paid the bill on time. The date on the check was 2/14 and it was mailed within a day of that date. We understand that there may have been issues with mail delivery at that time due to the weather conditions.

Thank you.

Cheryl Meservey

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To: Cheryl Meservey <cmes912@gmail.com>

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Thank you.

Cheryl Meservey

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### **Current Regulation**

2.4 Installation and repairs between the curbstop and the inlet side of the water meter will be made by the Water Department. The customer will be charged for work done by the Water Department for materials used at cost, plus 10% and labor, and equipment charges plus 20%.

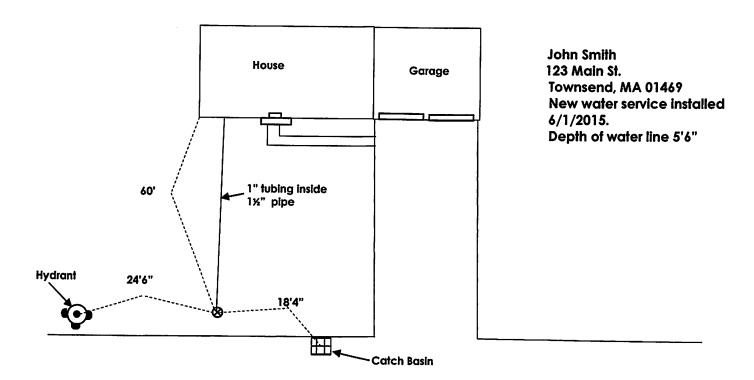
### To Be Replaced By:

Amendment to Sec. 2, Subsection 2.4

Installation and repairs between the curbstop and the inlet side of the water meter can be made by the Water Department or an outside contractor. The customer will be charged by the Water Department for equipment, labor and materials used or provided to the contractor. Work performed and materials used by outside contractors shall strictly conform to the Townsend Water Department specifications. All service installations whether new, replaced or repaired shall be inspected by a Water Department Technician or Superintendent prior to backfilling. Outside contractors installing or replacing services shall provide a clear and, legible AS BUILT drawing illustrating the location of the following:

- Curbstop
- Connectors
- Meter Pits
- Size of service line and sleeve
- Obstruction/s causing an alternate route of the service
- Location where the service enters the building

All AS BUILT drawings shall have a minimum of two (2) ties from permanent structures (i.e. building corners, hydrants, gate covers, manhole covers, catch basins and, property bound posts.
AS BUILTS shall be provided to the Water Department prior to the water service being turned on.



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### Office of the **BOARD OF SELECTMEN**

272 Main Street
Townsend, Massachusetts 01469

Colin McNabb, Vice-Chairman

Carolyn Smart, Clerk
Office (978) 597-1701
Fax (978) 597-1719

Sue Lisio, Chairman Andrew J. Sheehan,

Town Administrator

MEMORANDUM

TO:

Board of Assessors

Board of Health Board of Selectmen

Board of Water Commissioners Cemetery & Parks Commission

Library Trustees Planning Board

**Recreation Commission** 

Trustees of Soldiers Memorials

Amanda Dwight Entertainment Fund Committee

**Housing Authority** 

FROM:

Andrew J. Sheehan, Town Administrator

DATE:

March 2, 2015

SUBJ.:

Amendment to Personnel Policies & Procedures Manual

Biweekly Payroll

The Treasurer-Collector has identified a cost savings if the Town converts from weekly payroll to biweekly payroll. The savings will be manifested in improved efficiency in the Treasurer-Collector's Office and will have no effect on any employee's pay. All of the Town's unions have agreed to the move.

The Town's Non-Contractual Personnel Policies & Procedures Manual states that payroll is processed weekly. Chapter 90 Personnel Policies of the Townsend Code states: "Any noncontractual personnel policy and/or procedure of the Town as affirmatively voted and signed off by the majority of elected boards and commissions shall be applicable to all noncontractual Town employees." Therefore, in order to make the change to biweekly payroll a majority of elected boards and commissions must vote to agree to the change.

In order to effect the change from weekly to biweekly payroll the following section of the Personnel Policies & Procedures Manual must be amended. Deleted language is indicated with strikethrough and proposed language is underlined:

### **GENERAL PROVISIONS**

### **PAYDAY**

Payday is every Thursday every other Thursday for the previous week two weeks worked. The workweek is the seven-day period commencing Sunday at 12:01 A.M. and extending through the following Saturday, midnight. The pay period is the fourteen day period commencing Sunday at 12:00AM and extending through Saturday at 11:59PM fourteen days following. If a payday falls on a holiday, employees will be paid the preceding business day.

this \_97H Approved by majority vote of the [NANIMON]

(Elected board or commission)

Chairman's signature:

Please return this form to the Board of Selectmen's Office by March 25, 2015.



January 6, 2015

Townsend, MA Project No. M2140254

Louis A Soracco, P.E. Project Manager Stantec Consulting Services 5 LAN Drive, Suite 300 Westford, MA 01886

Water System SCADA System Upgrade Project Change Order No. 1

Dear Mr. Soracco:

As requested, **Weston & Sampson CMR**, **Inc.** (W&S CMR) is pleased to submit this change order to furnish and install ultrasonic level transmitters in the chemical storage tanks at the Town's pump stations. The pump stations, transmitter model numbers and costs are listed in detail below:

### A. Stations/Proposed Transmitters

Station	Proposed Transmitter	
Main Street	Siemens 7ML 521-2BA11	
Cross Street	Siemens 7ML 521-2BA11	
Witch's Brook No. 1	Siemens 7ML 521-2BA11	
Witch's Brook No. 2	Siemens 7ML 521-2BA11	

### B. Costs

F	Materials	
	<ul> <li>Ultrasonic Transmitters – Actual Cost \$4,300 x 1.15 (M.U. and profit) =</li> <li>Mounting Flanges – Actual Cost \$750 x 1.15 =</li> <li>Conduit – Actual Cost \$1,000 x 1.15 =</li> <li>Subtotal Materials =</li> </ul>	\$ 4,945.00 \$ 862.50 \$ 1,150.00 \$ 6,957.50
¥	Additional SCADA programming (Subcontractor) \$1,200 x 1.05 =	\$ 1,260.00
¥	Labor  o 50 man hours x \$59.65 x 1.55 (Direct Payroll Expense) x 1.20 (OH&P.) =	\$ 5,547.45
<b>~</b>	Total Change Order No. 1 =	\$13,764,95

Attachment A contains the data sheets for the transmitters.

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Please review this submittal and call me at (978) 532-1900 ext 2440 or e-mail me at <u>richards@wseinc.com</u>. with any questions.

Sincerely,

Weston & Sampson CMR, Inc.

Stephen J. Richard, P.E., C.P.O.

Vice President

T:\CMR\Townsend Water Dept\SCADA System M2140254\Change Orders\Change Order No. 1 Revised- Level Transmitters.docx

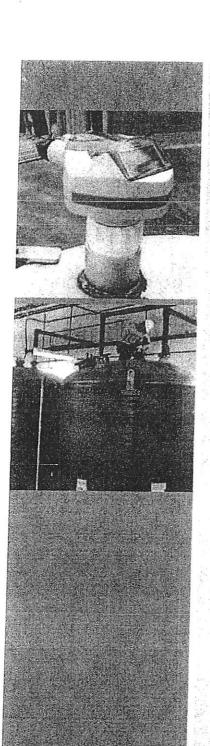
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### ATTACHMENT A

ULTRASONIC EQUIPMENT DATA SHEETS

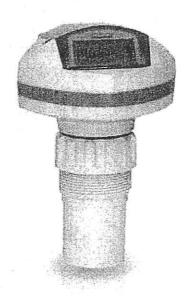
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## Unbeatable accuracy in ultrasonic level measurement

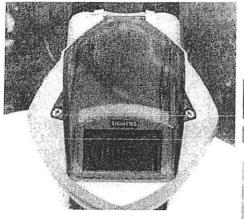
With the reliability of Sonic Intelligence echo processing



## SITRANS Probe LU

Answers for industry.

SIEMENS



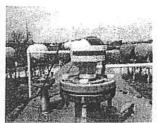
### Unbeatable accuracy

With an accuracy of 0.15%, SITRAINS\*\* Probe EU sets the standard for precision in ultrasonic level measurement transmitters. Its high signal to-noise ratio results in a longer measurement range, and the patented Sonic Intelligence\* echo processing.

The ultrasonic STRAMS Probe LU is ideal for measuring storage vessels, filter bods, and open channels in the water/wastewater, food, and chemical industries.

- Simple setup and programming with handheld infrared programmer or via PC software
- Sonic Intelligence our fieldproven echo processing algorithms guarantee the most reliable performance available
- Unmatched beam angle stronger pulse and sensitivity in a compact beam make our ultrasonics transducers the most accurate in the industry
- Million in one our products have the field experience of over a million points of level built into every device
- Global network sales and support in your neighborhood.
   Our extensive global coverage means you get sales and support when and where you need it.







#### SITRANS Probe II

#### Power

HART® version

- Nominal 24 V DC with max. 550 Ω loop resistance
- Maximum 30 V DC
- . 4 to 20 mA

PROFIBUS PA version

Bus powered, as per IEC 61158-2; 12, 13, 15, or 20 mA depending on programming (General Purpose or Intrinsically Safe version)

### Performance

Accuracy

Measurement range

- 6 m (20 ft) model: 0.25 to 6 m (10" to 20 ft), liquid applications • 12 m (40 ft) model: 0.25 to 12 m (10" to 40 ft), liquid applications
- ± the greater of 0.15% of range or 6 mm (0.24")

Repeatability ≤ 3 mm (0.12")

Frequency 54 kHz

Update time HART version: ≤ 5 seconds at 4 mA

PROFIBUS PA version: ≤ 4 seconds at 15 mA current loop

### Interface

Display Communication Built-in alpha-numeric display – visible through transparent lid

· HART

PROFIBUS PA

Programming

• Patented infrared handheld programmer
• SIMATIC® PDM

....

HART version: 4 to 20 mA range, ± 0.02 mA accuracy PROFIBUS PA version: Profile 3, Class B

### Mechanical

Enclosure

Outputs

· PBT (polybutylene terephthalate) body

Type 4XINEMA 4X, Type 6/NEMA 6/IP67/IP68 enclosure

• Cable inlet: 2 x M20x1.5 cable gland or 2 x 1/2" NPT thread

Process connection . • Threaded connection: 2" NPT, BSP or G/PF

· Flange connection: 3" (80 mm) universal flange

Other connection: FMS 200 mounting bracket

Sensor Transducer options: ETFE (ethylene tetrafluouroethylene) or PVDF (Polyvinylidene Fluoride)

### Process conditions

Ambient temperature Process temperature

-40 to 80 °C (-40 to 176 °F)

Pressure (vessel) 0.5 bar g(7.25 psi g)

### Approvais

*Арріосаіз* 

CE, CSA<sub>ust</sub>, C-Tick, FM, ANZEX, IECEX, ATEX HART version: Lloyd's Register of Shipping, ABS Type approval

HART is a registered trademark of HART Communication Foundation. SIMATIC PDM and SITRANS are registered trademarks of Siemens AG. Sonic Intelligence is a registered trademark of Siemens Milltronics Process Instruments Inc. Specifications are subject to change without notice.

© Siemens Milltronics Process Instruments Inc. 2008.

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Change Order

Section 00820a - Page 1

### SECTION 00820a

### **CHANGE ORDER**

		Project Number	195111966
		Contract Number	N/A_
		Change Order Number	2
Contract Amount (As Bid)			\$156,249.00
Net Change in Contract Pri	ice (this Change Order)	<u> </u>	\$12,655.46
Net Change in Contract Pri	ce (all other Change Orde	ers)	\$22,225.00
Total Adjusted Contract Pri	ice		\$191,129.46
This Change Order extends	s the time to complete the	Work by:	20 calendar days
The extended completion d	late is:		See Agreement
This Change Order is recor	mmended by:	Stantec	
Son h	Sur	47126	1/30/15
Louis A. S	Soracco	P.E.#	Date
Contractor: Owner:	Townsend Water		3-9-15 3-9-15 3-9-15
Owner:	Board of Selectmen		
Certification of Appropriation cover the total cost of this C	n under M. G. L. C.44, Se change Order is available.	ction 31C: Adequate funding in an	Date amount sufficient to
Ву:			
	Theresa	Walsh, Town Accountant	Date

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Water System SCADA System Upgrade Townsend Water Department Engineer: Stantec Change Order

Section 00820a - Page 2

1/30/2015

Public Entity:	Townsend Water Department		
Project Number:	195111966 Contract Number: N/A	Change Order Number:	2
Contract Title:	Water System SCADA System Upgrade		
Owner's Name:	Townsend Water Department		
Owner's Address:	540 Main Street, West Townsend, MA 01474		
Contractor's Name:	Weston & Sampson CMR, Inc.		
Contractor's Address:	Five Centennial Drive, Peabody, MA 01960-7985		

### **Description of Change**

This Change Order includes the costs for the following changes:

- 1. Addition of ultrasonic level transducers in the chemical storage tanks at Main Street, Cross Street, Witch's Brook No. 1 and Witch's Brook No. 2.
  - a. Change in Contract = \$13,764.95
- 2. Elimination of labor required to install new level transducers at the Fitchburg Road Tank and Highland Street Tank sites.
  - a. Change in Contract = -\$1,109.49

This increases the contract amount by \$12,655.46

### **Reason for Change**

These changes are being requested for the following reasons:

- 1. Ultrasonic level transducers will allow the Town to monitor and automatically record chemical volumes and usage.
- 2. New level transducers are being provided under this contract to replace the existing transducers at the two storage tanks. It has been determined that the existing transducers will integrate into the new SCADA system. The new transducers will be stored by the Town and kept as backups in the event the existing transducers stop working.

**END OF SECTION** 

195111966

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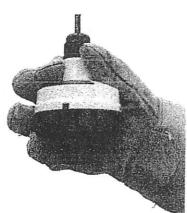
11.000 (Para 14.00)

### EchoPod® DL24 Ultrasonic Level Transmitter, Switch & Controller



### Application





The general purpose ultrasonic level transmitter provides continuous level measurement up to 9.8' (3m) with a 4-20 mA signal output, and is configured via our free Webcal software. The level sensor has 4 programmable relays with selectable hysteresis and fail-safe logic. The embedded level controller can lower cost by replacing external control hardware. This non-contact liquid level sensor is ideally suited for corrosive, sticky or dirty liquids, and is widely selected for day tank, skid, IBC, sump and process tank level applications.

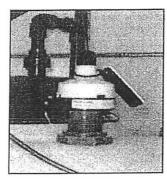




### Features

- Level detection, switch and control functions up to
- Configuration is fast and easy via WebCal software and USB adapter
- Narrow 2" beam width and short 4" dead band optimized for small tanks
- Four programmable relays for switch, pump or valve control and fail-safety
  - · 1 pump or valve with 3 alarms
  - · 2 pumps (lead-lag) with 2 alarms
  - · 2 pumps (duplexing) with 2 alarms
  - · 4 independent switch point alarms
- PVDF transducer and 6P polycarbonate enclosure for corrosive liquids
- Automatic temperature compensation for accurate measurement

### Success



About 1.3M polyethylene tanks are sold in North America each year ranging in size from 1 to 15,000 gallons. Most of these are less than 6' in height with capacities under 500 gallons. The largest markets are industrial manufacturing, mu-

nicipal, agriculture and residential in chemical, water & wastewater applications. Over the past 10 years, customers have moved toward the use of smaller storage tanks with increased automation to lower cost. Today, mini-bulk tanks are a major product category. Flowline has developed a new multi-function sensor to meets the needs of this growing market. The DL24 EchoPod puts non-contact level measurement, relay switch and advanced control functions in the palm of your hand.

### Compatible Products

DataLoop™ Level Indicator

DataView™ Level Controller

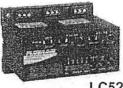




Commander™ Multi-Tank Level Controller



DataPoint™ Level Controller



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### EchoPod® DL24 Ultrasonic Level Transmitter, Switch & Controller



### Specifications

Range:

9.8' (3m)

Accuracy: Resolution: ± 0.2% of range 0.039" (1mm)

Dead band: Beam width: 4" (10cm) 2" (5.08cm)

Configuration:

WebCal® PC

Windows® USB 2.0

Memory:

Non-volatile

Supply voltage: Consumption:

24 VDC (loop) 0.5W

Loop resist.:

400Ω max

Signal output:

4-20 mA, two-wire

Signal invert:

4-20 mA or 20-4 mA

Signal fail-safe:

4 mA, 20 mA, 21 mA,

22 mA or hold last

Contact type:

(4) SPST relays

Contact rating:

60 VA, 1A maximum

Contact fail-safe: Power loss: Hold last

Echo loss: Open, close

or hold last

Hysteresis:

Selectable

Process temp.:

F: 20° to 140°

C: -7° to 60°

Temp. comp.: Ambient temp.:

Automatic F: -31° to 140°

C: -35° to 60°

Pressure:

MWP = 30 PSI (2 bar)

Enclosure rating: Type 6P, encapsulated,

corrosion resistant &

submersible

Encl. material:

Polycarbonate

Trans. material: PVDF

Cable jacket mat: Polyurethane

Cable type:

9-conductor, shielded

Cable length:

Process mount: 1" NPT (1" G)

Mount gasket:

Viton®

Classification:

Compliance: Approvals:

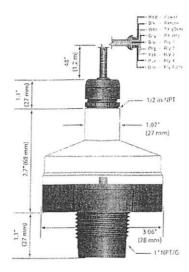
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48" (1.2m)

General purpose CE, RoHS

With Fob

### Dimensions



### Configuration





The level sensor is configurable via our free WebCal PC software and Fob USB adapter. The sensors are offered with and without Fobs. Fobs are universal and can be used to configure any WebCal compatible product.

Download your free copy of WebCal in English or Chinese at www.flowline.com/webcal.php.

### **Fittings**

For optimum performance, install the level sensor using the below recommended or direct equivalent fittings.

P/N	Description
LM52-1400	2" NPT x 1" NPT (Sch. 40)
LM52-1800	2" NPT x 1" NPT (Sch. 80)
LM52-1410	2" Socket x 1" NPT (Sch. 40)
LM52-1810	2" Socket x 1" NPT (Sch. 80)
LM52-1850	1" NPT Flange - 150# (Sch. 80)
LM50-1001-1	1" NPT Bracket, Polypropylene

### Ordering

		DL24-[][_
Proce	ss mount (1) -	
0	NPT (US)	
7	G (Metric)	
Fob U	SB adapter (2)	
0	Without Fob	

### Notes

- 1) Install the level sensor using Flowline installation fittings or equivalents.
- The level sensor is configured via our WebCal software and one LI99-1001 Fob USB adapter. The level sensor is offered with and without a Fob. Fobs are universal and can be used to configure any WebCal compatible product. WebCal is a free download from our website at www.flowline.com/webcal.php.

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### Townsend Water

### Proposal to install ultrasonic transmitters in chemical tanks

-West Meadow Booster Siemens 7ML 521-2BA11

-Main Street Siemens 7ML 521-2BA11

-Cross Street · Siemens 7ML 521-2BA11

-Witches Brook #1 Siemens 7ML 521-2BA11

-Witches Brook #2 Siemens 7ML 521-2BA11

-Harbor Trace Flowline DL24 (day tank)

### Material

Ultrasonics \$5,950.00

Mounting flanges \$700.00

Conduit \$1,200.00

Installation time and startup 90 MH

Additional SCADA programming \$1,200.00

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January 6, 2015

Townsend, MA Project No. M2140254

Louis A Soracco, P.E. Project Manager Stantec Consulting Services 5 LAN Drive, Suite 300 Westford, MA 01886

Water System SCADA System Upgrade Project Change Order No. 2

Dear Mr. Soracco:

As requested, **Weston & Sampson CMR**, **Inc.** (W&S CMR) is pleased to submit this change order to deduct labor for installation of ultrasonic level transmitters at the Highland and Fitchburg Tanks. Both tanks have existing transmitters that are in good condition and compatible with the new units. The new units will be delivered as spares. The Cost for this change order is outlined below:

### A. Costs

- > Labor
  - o 8 man hours x \$59.65 x 1.55 (Direct Payroll Expense) x 1.20 (OH&P.) = \$1,109.49
- Total Change Order No. 2 Deduct =

-\$1,109.49

Please review this submittal and call me at (978) 532-1900 ext 2440 or e-mail me at <u>richards@wseinc.com</u>. with any questions.

Sincerely,

Weston & Sampson CMR, Inc.

Stephen J. Richard, P.E., C.P.O.

Vice President

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## TOWNSEND WATER DEPARTMENT 540 Main Street West Townsend, Massachusetts 01474

Michael MacEachern, Chairman	Niles Busler, Vice Chairman	Nathan Mattila, Clerk
Paul L. Rafuse,		(978) 597-2212
Water Superintendent		Fax (978) 597-5611

NO. <u>15-8</u> 2/28/2015

### SCHEDULE OF BILLS RECEIVABLE

To the

Accountant:

Treasurer:

The following bills, amounting in the aggregate to

are herewith committed for collection. **BACK** CONN **SERVICE USER FLOW CHARGES** CHARGES **CHARGES** DATE 0.00 0.00 75.00 02/28/15 446.50

BOARD OF WATER COMMISSIONERS

Michael MacEaghern, Chairman

Niles Busler, Vice-Chairman

Nathan Mattila, Clerk

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71 Concord Street
North Reading, MA 01864
Tel: 978-664-WELL (9355) Fax: 978-664-9356
www.maherserv.com

3/3/2015

Paul Rafuse
Townsend Water Department
540 Main Street
P.O. Box 17
Townsend, MA 01469-0017
paulr@townsendwater.com

RE: Cross Street Townsend, MA

Dear Paul.

Well Diameter – 24" Well Depth – 43' Screen Length – 5' 100 slot

On February 24, 2015 we conducted a flow test and the well showed a specific capacity of 25 GPM/ft @ 314 GPM. After the test 55 gallons of Pantonite PM was injected into the screened area. The pump was started 5 times at closed head to mix the Pantonite. The chemical was left in the well to react.

On February 26, 2015 the well was pumped to a settling tank where the discharge water was neutralized with soda ash. We conducted a flow test and the well showed a specific capacity of 25.4 GPM/ft @ 310 GPM.

Iron and manganese samples were taken before and after the injection of Pantonite. Certificates of analysis are attached.

	Iron	Manganese
Before Pantonite	1.8	0.12
After Pantonite	0.85	0.092

If you need further information please contact us.

Sincerely, / | MAHER SERVICES, INC.

Peter Maher

<u>pmaher@maherserv.com</u>

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AMERICAN SERVICE

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 $N^{\,ashoba}\,A_{nalytical,\,LLC}$ 

Tel: 978-391-4428

Fax: 978-391-4643

LabNumber:

153354

31A Willow Road, Ayer MA 01432

Website: http://www.NashobaAnalytical.com

Use this number with all correspondence

Client:

**Maher Services** 

71 Concord Street

North Reading, MA 01854

ReportDate:

2/25/2015

### **Certificate of Analysis**

Cross Street Well, Townsend, MA

Parameter	Method		Result	MCL	MRL	Date of Analysis	Analyst
- Well Head							
Sampled: 2/24/2015 12:00	0:00 PM by Client						
Iron, MG/L	EPA 200.7	#	1.8	0.3	0.003	2/25/2015	M-MA1118
Manganese, MG/L	EPA 200.7	#	0.12	0.05	0.002	2/25/2015	M-MA1118

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N ashoba Analytical, LLC

Tel: 978-391-4428

Fax: 978-391-4643

LabNumber:

153430

31A Willow Road, Ayer MA 01432

Website: http://www.NashobaAnalytical.com

Use this number with all correspondence

Client:

Maher Services

71 Concord Street

North Reading, MA 01854

ReportDate:

3/2/2015

#### **Certificate of Analysis**

### Cross Street Well, Townsend, MA

Parameter	Method		Result	MCL	MRL	Date of Analysis	Analyst
- Well Head							
Sampled: 2/26/2015 1:30:00	PM by A. Proctor						
Iron, MG/L	EPA 200.7	#	0.85	0.3	0.003	3/2/2015	M-MA1118
Manganese, MG/L	EPA 200.7	#	0.092	0.05	0.002	3/2/2015	M-MA1118

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### TOWN OF TOWNSEND BOARD OF WATER COMMISSIONERS APPLICATION TO ABATE OR ADJUST CHARGES

Name: John Leahy Account # 60989  Address: Ble Warren Road
Address: Ble Warren Road
Phone # Email Address
Billing date
AMOUNT:ABATEMENT[] ADJUSTMENT[// (check one)
REQUESTED BY: CUSTOMER [ ] OFFICE [ ] OTHER A - if other please explain below:
Reasons: (please attached supporting documentation if applicable)
NSF 79.50 USEV
APPROVED [ ] DENIED [ ] (check one)
DATE: 3-9-15
TOWNSEND BOARD OF WATER COMMISSIONERS
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### TOWN OF TOWNSEND BOARD OF WATER COMMISSIONERS APPLICATION TO ABATE OR ADJUST CHARGES

Name: Country ESTATES Account # 60476
Address: Turn pill Road -
Phone # Email Address
Billing date
AMOUNT 287.50 ABATEMENT [ ] ADJUSTMENT [ ] (check one)
REQUESTED BY: CUSTOMER [ ] OFFICE [ ] OTHER [ ] - if other please explain below.
Reasons: (please attached supporting documentation if applicable)
Bowc voted to Adjust the unit charge
Powc Oted to Adjust the unit charge for empty units. This is a reoccurring Quarterly Charge -
APPROVED [ ] (check one)
DATE: 3-9-15
TOWNSEND BOARD OF WATER COMMISSIONERS
- Mela /
All Marine Marine

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### TOWN OF TOWNSEND BOARD OF WATER COMMISSIONERS APPLICATION TO ABATE OR ADJUST CHARGES

Name: ED Smith	Account # 60343
Address: 1 FOX RUN	
Phone # 9 17 14 Email Address	
Billing date	
AMOUNT: 16280 USC ABATEMENT [	J ADJUSTMENT [ ] (check one)
REQUESTED BY: CUSTOMER [ ] OFFICE [ ] OTH	HER[] - if other please explain below:
Reasons: (please attached supporting documentation if	applicable)
150.63 162.80 -1217 USCI	
APPROVED [ ] (check one)  DATE: 3-9-15	Posted to wrong
TOWNSEND BOARD OF WATER COMMISSIONERS	Posted to wrong ACCT - Should have Duen posted to 60343 - Abale
- stuff	12.17 for 4c that were applied
AMMINT AMBRICA	i pa 80 4/ 1431
1	Paymon -
1	Total 162.80

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### TOWN OF TOWNSEND BOARD OF WATER COMMISSIONERS APPLICATION TO ABATE OR ADJUST CHARGES



Name: 60 Lea   Enaco Account # 60353
Address: 4 POX RUN
Phone # Email Address
Billing date $9104$ .
AMOUNT: 150 43 ABATEMENT [ ] ADJUSTMENT [X] (check one)
REQUESTED BY: CUSTOMER [ ] OFFICE [ ] OTHER [ ] - if other please explain below
Reasons: (please attached supporting documentation if applicable)
(15063) Payment Should have been posted
/ Sex Adjustment to ACCT #40343
APPROVED [] DENIED [] (check one)
DATE: 3-9-15 + transfer 150.63 ->
TOWNSEND BOARD OF WATER COMMISSIONERS  ACCT # 60343
- J. J. Lander
MANUMATHAM

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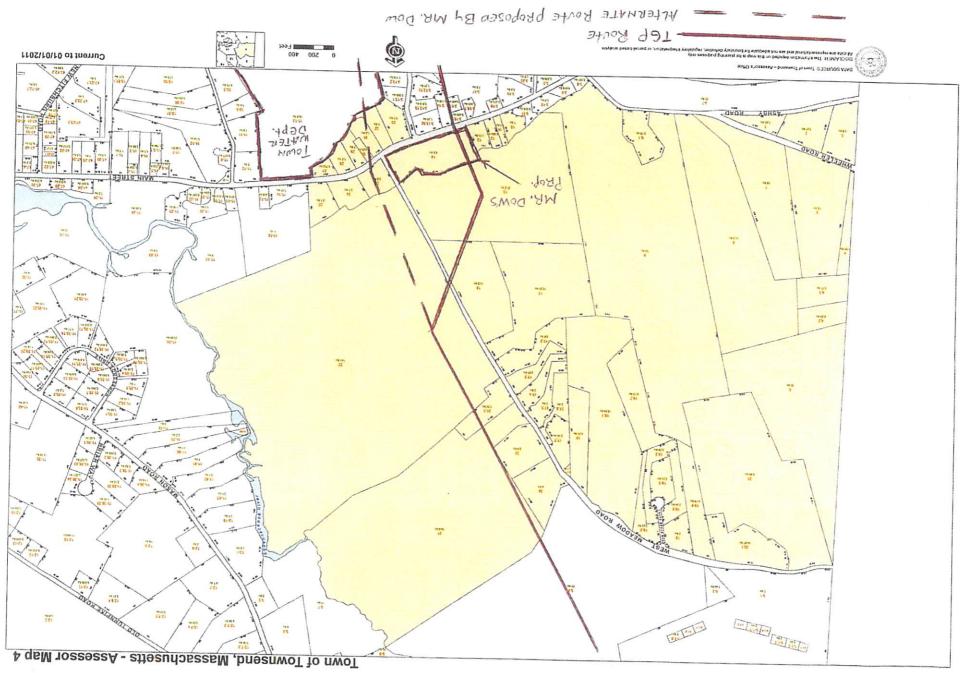


### TOWN OF TOWNSEND BOARD OF WATER COMMISSIONERS APPLICATION TO ABATE OR ADJUST CHARGES

,	
Name: Paula Woodman	Account # 60 N 7
Address: 453 Main St	
Phone #_597-200  Email Address	
Billing date \$ 1.86	
AMOUNT:ABATEMEN	TT[] ADJUSTMENT[] (check one)
REQUESTED BY: CUSTOMER [ ] OFFICE [ ] C	OTHER [ ] - if other please explain below:
Reasons: (please attached supporting documentation	n if applicable)
1.86	
Customer thought She h to Unikan K- see email	rad made a payment
to Unibank- see email	
APPROVED [ ] (check one	e)
DATE: 3-9-15	
TOWNSEND BOARD OF WATER COMMISSIONE	RS ·
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## TOWNSEND WATER DEPARTMENT 540 Main Street West Townsend, Massachusetts 01474

Michael MacEachern, Chairman	Niles Busler, Vice Chairman	Nathan Mattila, Clerk
Paul L. Rafuse,		(978) 597-2212
Water Superintendent		Fax (978) 597-5611

SCHEDULE OF BILLS RECEIVABLE

To the

Accountant: Treasurer:

The following bills, amounting in the aggregate to

NO. <u>15-8</u>

are herewith committed for collection.

DATE	USER	SERVICE	CONN	BACK
	CHARGES	CHARGES	CHARGES	FLOW
02/28/15	446.50	75.00	0.00	0.00

BOARD OF WATER COMMISSIONERS

Michael MacEachern, Chairman

Niles Busler, Vice-Chairman

Nathan Mattila, Clerk

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2006年2月2日 日本日本日本日本日本

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## FISCAL YEAR 15 SUMMARY TOWNSEND WATER DEPARTMENT - ACCOUNTS RECEIVABLE 2/28/2015

**UNCOLLECTED FROM JUNE 30, 2014** 

83,934.69

939,753.57

07/01/14- 02/28/15	2/28/2015	Previous Balance	Total	
USER CHARGES	446.50	784,995.95	785,442.45	
SERVICE CHARGES	75.00	23,681.45	23,756.45	
CONNECTION CHARGES	0.00	30,600.00	30,600.00	
LATE CHARGES	2,376.16	10,143.82	12,519.98	
BACKFLOW	0.00	3,500.00	3,500.00	
	2,897.66			855,818.88
TOTAL CHARGES				939,753.57
07/01/14- 02/28/15	2/28/2015			
USER CHARGES	155,975.76	571,613.94	727,589.70	
SERVICE CHARGES	4,335.76	19,382.53	23,718.29	
CONNECTION CHARGES	0.00	30,600.00	30,600.00	
LATE CHARGES	1,775.95	7,823.27	9,599.22	
BACKFLOW		·	3,650.00	
SUBTOTAL TOTAL RECEIPTS	162,137.47	]		795,157.21
1 (EA)				38,039.21
				0.00
				583.48
MENTS				411.71
ECTED			-	105,561.96 939 753 57
	SERVICE CHARGES  CONNECTION CHARGES  LATE CHARGES  BACKFLOW SUBTOTAL TOTAL CHARGES  O7/01/14- 02/28/15 USER CHARGES  SERVICE CHARGES  CONNECTION CHARGES  LATE CHARGES  BACKFLOW SUBTOTAL TOTAL RECEIPTS  LIEN DLLECTED ENTS MENTS	USER CHARGES  SERVICE CHARGES  CONNECTION CHARGES  LATE CHARGES  BACKFLOW SUBTOTAL TOTAL CHARGES  O7/01/14- 02/28/15 USER CHARGES  LATE CHARGES  O7/01/14- 02/28/15 USER CHARGES  SERVICE CHARGES  LATE CHARGES  LATE CHARGES  BACKFLOW SUBTOTAL TOTAL RECEIPTS  LIEN DILLECTED ENTS MENTS	USER CHARGES 446.50 784,995.95  SERVICE CHARGES 75.00 23,681.45  CONNECTION CHARGES 0.00 30,600.00  LATE CHARGES 2,376.16 10,143.82  BACKFLOW 0.00 3,500.00  SUBTOTAL 2,897.66  TOTAL CHARGES 155,975.76 571,613.94  SERVICE CHARGES 4,335.76 19,382.53  CONNECTION CHARGES 0.00 30,600.00  LATE CHARGES 1,775.95 7,823.27  BACKFLOW 50.00 3,600.00  SUBTOTAL TOTAL RECEIPTS  LIEN DILLECTED ENTS MENTS	USER CHARGES 446.50 784,995.95 785,442.45  SERVICE CHARGES 75.00 23,681.45 23,756.45  CONNECTION CHARGES 0.00 30,600.00 30,600.00  LATE CHARGES 2,376.16 10,143.82 12,519.98  BACKFLOW 0.00 3,500.00 3,500.00  SUBTOTAL 2,897.66 TOTAL CHARGES 155,975.76 571,613.94 727,589.70  SERVICE CHARGES 4,335.76 19,382.53 23,718.29  CONNECTION CHARGES 0.00 30,600.00 30,600.00  LATE CHARGES 1,775.95 7,823.27 9,599.22  BACKFLOW 50.00 3,600.00 3,650.00  SUBTOTAL TOTAL RECEIPTS  LIEN DELECTED ENTS MENTS

**OUTSTANDING:** 

 USER CHARGES
 \$ 98,379.79

 SERVICE CHARGES
 1,719.67

 CONNECTION CHARGES
 0.00

 LATE CHARGES
 5,312.50

 BACKFLOW TOTAL OUTSTANDING
 150.00

 TOTAL OUTSTANDING
 \$ 105,561.96

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3:22 PM 03/09/15 Accrual Basis

## Townsend Water Department Budget vs. Actual

July 2014 through February 2015

	Jul '14 - Feb 15	Budget	\$ Over Budget
Ordinary Income/Expense			
Expense			
061.000 · General Operations 000			
061.001 · Personal Services 1			
5100 · Salaries & Wages-Water Super	46,562.88	71,915.00	-25,352.12
5110 · Salary & Wages-Oper Staff	63,300.81	97,784.00	-34,483.19
5112 · Salary & Wages-Support Staff	35,554.57	55,312.00	-19,757.43
5130 · Additional Gross	3,062.32	8,300.00	-5,237.68
5134 · Additional Gross-Reg&SpecOncall	9,175.00	13,325.00	-4,150.00
5190 · Other Stipened-Longevity	3,900.00	3,900.00	0.00
5191 · Other - Stipend BOWC	0.00	3.00	-3.00
5192 · Other-Certification/Stipend	1,000.00	0.00	1,000.00
5193 · Retirement Benefit	0.00	2,000.00	-2,000.00
5195 · Other-Clothing Allowance	496.42	3,800.00	-3,303.58
Total 061.001 · Personal Services 1	163,052.00	256,339.00	-93,287.00
061.002 · Purchased Services 2			
5210 · Energy	53,855.66	82,000.00	-28,144.34
5240 · Repair & Maint Building	2,119.84	5,000.00	-2,880.16
5245 · Repair & Maint Equipment	21,371.44	20,000.00	1,371.44
5245100 · Repair & Maintain Equip SCADA	0.00	1.00	-1.00
5270 · Rentals	965.00	1,000.00	-35.00
Total 061.002 · Purchased Services 2	78,311.94	108,001.00	-29,689.06
061.003 · Purchased Services 3			
5300 · Professional Services	24,571.37	20,000.00	4,571.37
5300100 · Proff Service Backflow	3,500.00	6,000.00	-2,500.00
5340 · Communication	9,500.92	17,600.00	-8,099.08
5380 · Other Services	0.00	2,600.00	-2,600.00
Total 061.003 · Purchased Services 3	37,572.29	46,200.00	-8,627.71

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## Townsend Water Department Budget vs. Actual

July 2014 through February 2015

	Jul '14 - Feb 15	Budget	\$ Over Budget
061.004 · Purchased Supplies 4 5420 · Office Supplies 5430 · Building Supplies 5435 · Equipment Maint Supplies 5460 · Groundskeeping Supplies 5480 · Vehicular Supplies	1,863.73 595.14 0.00 0.00 3,865.91	5,000.00 1,500.00 1,500.00 500.00 8,000.00	-3,136.27 -904.86 -1,500.00 -500.00 -4,134.09
Total 061.004 · Purchased Supplies 4	6,324.78	16,500.00	-10,175.22
061.005 · Purchased Supplies 5 5530 · Public Works Supplies 5531 · Chemicals 5580 · Other Supplies	22,168.68 8,421.87 0.00	35,000.00 23,000.00 1,000.00	-12,831.32 -14,578.13 -1,000.00
Total 061.005 · Purchased Supplies 5	30,590.55	59,000.00	-28,409.45
061.007 · Other Charges & Exp 7 5710 · Travel/mileage-in state 5720 · Out of State Travel 5730 · Dues and Memberships 5780 · Other Charges 5782 · Other Charges-Bank 5785 · Water Assessment D.E.P.	45.00 0.00 1,143.00 0.00 0.00 1,718.56	1,100.00 100.00 2,000.00 500.00 0.00 2,000.00	-1,055.00 -100.00 -857.00 -500.00 0.00 -281.44
Total 061.007 · Other Charges & Exp 7	2,906.56	5,700.00	-2,793.44
061.008 · Articles 8 5850 · New Equipment 5870 · Replacement Equipment	477.51 0.00	10,000.00 1.00	-9,522.49 -1.00
Total 061.008 · Articles 8	477.51	10,001.00	-9,523.49
061.400 · Special Projects 400 5009 · Main St Station Upgrade 5012 · System Enhancement 5013 · Water Main Extensions 5014 · Well Development & Exploration	0.00 85,446.29 0.00 0.00	58,219.23 1,157,365.65 127,911.75 6,276.29	-58,219.23 -1,071,919.36 -127,911.75 -6,276.29
Total 061.400 · Special Projects 400	85,446.29	1,349,772.92	-1,264,326.63

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3:22 PM 03/09/15 Accrual Basis

### Townsend Water Department Budget vs. Actual

July 2014 through February 2015

Jul '14 - Feb 15	Budget	\$ Over Budget
0.00	1,426.07	-1,426.07
0.00	13,883.40	-13,883.40
0.00	20,000.00	-20,000.00
0.00	25,000.00	-25,000.00
0.00	50,000.00	-50,000.00
0.00	110,309.47	-110,309.47
404,681.92	1,961,823.39	-1,557,141.47
33,669.00	33,002.00	667.00
47,963.42	48,030.00	-66.58
8,704.97	9,378.00	-673.03
13,620.19	14,970.00	-1,349.81
145,971.06	105,380.00	40,591.06
550,652.98	2,067,203.39	-1,516,550.41
-548,809.93	-2,067,203.39	1,518,393.46
-548,809.93	-2,067,203.39	1,518,393.46
	0.00 0.00 0.00 0.00 0.00 0.00 404,681.92 33,669.00 47,963.42 8,704.97 13,620.19 145,971.06 550,652.98 -548,809.93	0.00       1,426.07         0.00       13,883.40         0.00       20,000.00         0.00       25,000.00         0.00       50,000.00         0.00       110,309.47         404,681.92       1,961,823.39         33,669.00       33,002.00         47,963.42       48,030.00         8,704.97       9,378.00         13,620.19       14,970.00         145,971.06       105,380.00         550,652.98       2,067,203.39         -548,809.93       -2,067,203.39

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