



TOWNSEND WATER DEPARTMENT
540 Main Street West Townsend, Massachusetts 01474

Michael MacEachern, Chairman

Nathan Mattila, Vice-Chairman

Todd Melanson, Clerk

Paul Rafuse

(978) 597-2212

Water Superintendent

Email: water@townsend.ma.us

WATER COMMISSIONERS MEETING AGENDA

October 21, 2019 - 6:00 P.M.

Water Department 540 Main Street, Meeting Room

I. PRELIMINARIES:

- 1.1 MM called the meeting to order at 6:00 PM., 540 Main Street.
- 1.2 Roll call showed Members present: Chairman Michael MacEachern (MM), Vice-Chair Nathan Matilla (NM), and Todd Melanson (TM), Clerk and Interim Superintendent, Rebecca McEnroe (RM). Guests Present: Don Klein.
- 1.3 MM announce that the meeting is being audio recorded.
- 1.4 Chairman's additions or deletions. MM deleted 5.4 Update on 23 Proctor Road.

II. MEETING BUSINESS:

- 2.1 Discuss Winter Operations procedures, plowing and OT. MM wanted to talk about winter operations and plowing at the water department. MM stated that there is only a need for the person on call to come in and open up the stations during a snow storm. Very little overtime is needed for plowing as we do not plow the roads and most of the plowing can be done during normal work hours. Also to start a list of homes that look vacant so the office can try to contact someone to ask if the property will be heated or remove the meter for the season.
- 2.2 Discuss/ Review recommendation to secure additional funding at fall town meeting. RM reviewed the Capital Projects and found that we have an estimated shortfall of 70,000 she suggested repurposing 50,000 from Main Street cleaning and 20,000 from Emergency Fund. NM moved to create a warrant article for special town meeting. acct # 5902-18 Main Street Cleaning \$50,000 and 061-5000 Emergency Fund \$20,000 to Acct# 5805-18 West End Water Main Project. TM seconded. Unanimous vote.
- 2.3 FY21 Budget Planning. Discussion on conducting a Master Plan and acquiring generators at the Main Street Stations. TM mentioned we should belong to Mass Water Wastewater Agency Response Network. Without being a member they will not respond to a call for Mutual aide. This is a state wide program.
- 2.4 Dump Truck re-purpose for next Special Town Meeting. NM motioned to create a warrant article for Fall town meeting to repurpose the dump truck for a utility truck in the amount of \$49, 895.03. TM seconded. Unanimous vote.
- 2.5 Discuss increase of water rates. RM feels that we will have to raise the rates in order to sustain the Water Department's Budget. TM suggest a tiered rate billing.
- 2.6 Discuss/Vote on Interim Superintendent Addendum to extend her contract. NM moved to accept Addendum #1 that would extend the Interim Superintendent's contract up to 12/31/2019 and not to exceed the cost of \$11,300 to \$19, 800. TM seconded. Unanimous vote.
- 2.7 Update on 35 Adams Road. Brenda reported that the homeowner notified the department that they would be using an old existing well that had been retired on their property.

III. COMMISSIONERS UPDATES AND REPORT

- 4.1 None.

IV. INTERIM SUPERINTENDENTS UPDATES AND REPORTS

- 5.1 Discuss Main Street Water Main Project Budget. RM suggested the BOWC vote extend the Shepco contract until November 22, 2019. TM motioned to extend the Shepco Contract for the West End Water Main Project from the end date of October 22, 2019 to November 22, 2019. NM seconded. Unanimous vote.

V. FOREMANS UPDATES AND REPORTS:

- 5.1 Inspection/Cleaning of the Highland Street and Fitchburg Road Tanks. Both tanks were clean and inspected.

5.2 Report on stations/systems updates. Ryan reported that Unitil is coming next Wednesday, October 30, 2019 to install the gas line.

5.3 Review quote for SCADA radio repeater system. Ryan has not had responses for quotes other than the one for TCS in the amount of \$10,583.50. Tabled vote for new quote for spring 2020.

~~5.4 Update on 23 Proctor Road.~~

5.5 Dump Truck re-appropriation for town fall meeting. See 2.4 above.

VI. OFFICE ADMINISTRATOR'S UPDATES AND REPORTS:

6.1 The Board scheduled next BOWC meeting for Tuesday November 12, 2019 @ 6:00 p.m.

6.2 The Board reviewed and signed Bills Payable Warrants

6.3 The Board reviewed and signed Schedule of Bills Receivable report.

6.4 The Board reviewed Accounts Receivable Report.

6.5 The Board reviewed year to date expenditures.

ADJOURNMENT:

NM moved to review a sign reports and bill payable warrants out of session. TM seconded. Unanimous vote.

MM adjourned the BOWC meeting at 7:10 PM.

Respectfully submitted,

Brenda Boudreau

Office Administrator

Townsend Water Department

WATER DEPARTMENT MEETING

DATE October 21, 2019

NAME	ADDRESS	PH/EMAIL
Rebecca McEnne	- interview Super	
Ryan Labiere	Water Foreman	
Don Klein	Homesolve Dr.	

212

5902-18 Main St Cleaning, 50,000

0615000 Emergency Fund 20,00

to

5805-18 West End water Main

total \$70

PREPARED BY
DATE

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TOWN OF TOWNSEND
PROCUREMENT FORM – VERBAL QUOTES
Supplies or Services valued between \$5,000 and \$35,000

DATE: 09/09/19

DEPT. WATER DEPARTMENT

Budget Line Item # 061-04-000-5245-0007 R&M Distribution System

Purchase Description: Provide Emergency repairs to 406 Main St/Water Main Break

VENDOR #1 Date: 09/09/19 Time: _____ Unit Price: _____ Total \$26,800.00

Company Name & Contract: Hydra Tech

Address: PO Box 256
180 Pratts Junction Rd
Sterling MA 01564
978-422-9001

VENDOR #2 Date: _____ Time: _____ Unit Price: _____ Total: _____

Company Name & Contract: _____

Address: _____

Phone #: _____

VENDOR #3 Date: _____ Time: _____ Unit Price: _____ Total: _____

Company Name & Contract: _____

Address: _____

Phone #: _____

Purchase awarded to vendor #: _____

Comments: _____



Signature Department Head/Authorized
Personnel Soliciting Quotes

Signature Chief Procurement Officer

Note: All invoices for purchases of supplies and services over \$5,000 and up to \$25,000 must be accompanied with this completed form to the Town Accountant. Verbal quotes are required per Chapter 30B of the Massachusetts General Laws.

Terry Walsh

From: Lauri Plourde <lplourde@townsend.ma.us>
Sent: Monday, October 21, 2019 10:26 AM
To: 'Terry Walsh'
Subject: RE: Also
Attachments: water.pdf

Hi Terry,

I have attached the requested reports.

Please have the attached procurement form signed by the Interim Superintendent and Jim. Also, has this emergency procurement been submitted to the Goods and Services Bulletin?

Lauri Plourde CGA

Town Accountant
Town of Townsend
272 Main St
Townsend, MA 01469

978-597-1700 ex:1705

From: Terry Walsh [mailto:twalsh@townsend.ma.us]
Sent: Monday, October 21, 2019 7:41 AM
To: 'Lauri Plourde' <lplourde@townsend.ma.us>
Subject: Also

Can you send the statement for all funds? I realize you probably have not rolled your balances forward from last year. At least we can see what's been spent to date.

Theresa Walsh
Office Assistant
Townsend Water Department
540 Main St
West Townsend MA 01474
978-597-2212
twalsh@townsend.ma.us



PO Box 5192, 85 Lafayette Road
Salisbury, MA 01952
Phone (978) 465-7932 Fax (978) 462-8980 www.tcscommunications.com

5.3
QUOTE

DATE: July 29, 2019
QUOTE # Townsend Water / Repeater Station

Bill To: Townsend Water Department
540 Main Street
Townsend MA 01476

Ship To: Same
Attn: Kevin Keefe
water@townsend.ma.us
978-877-3174

Comments or Special Instructions: SCADA RADIO REPEATER SYSTEM BUDGETARY PRICING

SALESPERSON	SITE NAME	P.O. NUMBER	SHIP DATE	SHIP VIA	F.O.B. POINT	TERMS
Dean Marengi						NET 30

QTY	PART NUMBER	DESCRIPTION	UNIT PRICE	AMOUNT
		Repeater Radio for SCADA, Bayberry Hill Tower		
1	140-5028-504	CalAmp Viper SC+200 IP router, 215-240 MHz	\$1,615.00	\$1,615.00
1	Z3441	PC TEL 5db gain fiberglass omnidirectional antenna, 215-225 MHz	\$935.00	\$935.00
1	VHF50HN	Polyphaser surge arrestor	\$105.00	\$105.00
150	LMR-600	Times Microwave 1/2" low loss coaxial cable (length estimated)	\$3.05	\$457.50
2	EZ-600-NMH-X	Type N male connectors for LMR-600 cable	\$28.00	\$56.00
2	GK-S600TT	Grounding kits for LMR-600 cable	\$35.00	\$70.00
1	LMR-400 jumper	Jumper cable from Polyphaser to Viper radio	\$100.00	\$100.00
1	Tower bracket	Mounting bracket to attach antenna to existing tower	\$400.00	\$400.00
1	Rack mount panel	19" rack mount panel for mounting Viper radio and power supply	\$100.00	\$100.00
1	DR-4524	Moxa power supply, 110VAC to 24VDC	\$145.00	\$145.00
1	Installation	Projected installation cost: Install radio, antenna, cable, etc.	\$4,500.00	\$4,500.00
1	FCC license mod	Modify FCC license to include Bayberry Hill repeater site	\$600.00	\$600.00
1	Programming	Modify existing radio network to add Bayberry Hill repeater site	\$1,200.00	\$1,200.00
		* ALL PRICING PROVIDED IS FOR BUDGETARY PURPOSES AND IS SUBJECT TO CONFIRMATION BASED ON SITE INSPECTION.		

Authorized Signature:	Dean A. Marengi Vice President
Date:	July 29, 2019

SUBTOTAL	\$10,283.50
TAX RATE	0.00%
SALES TAX	-
SHIPPING & HANDLING	300.00
TOTAL	\$ 10,583.50

Make all checks payable to TCS Communications Corp.

If you have any questions concerning this invoice, contact Dean Marengi, (978) 465-7932, dean.marengi@tcscommunications.com

THANK YOU FOR YOUR BUSINESS!

PCTEL Carrier Grade VHF/UHF Omnidirectional Base Station Antennas

The BOA VHF/UHF omnidirectional base station antenna series consist of a linear array, encapsulated in a heavy duty fiberglass radome with a thick walled 6061-T6 aluminum mounting base for reliable long term use. The rugged design allows the BOA series to withstand harsh environments and is ideal for Industrial Wireless applications. The series is DC grounded and is UPS shippable.

Features

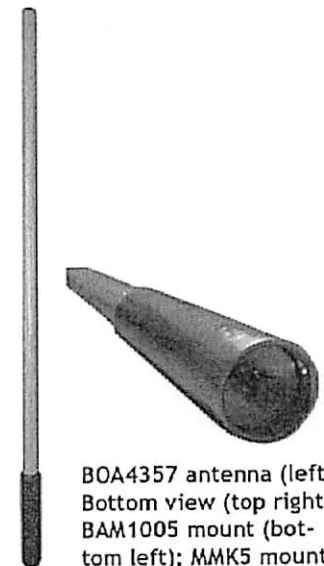
- UV Stable Light Gray Fiberglass Radome
- Hard-Coat Anodized Mounting Base
- Galvanized Mounting Hardware
- Removable Drain Plug for Upright or Inverted Mounting

RF/Electrical Specifications

Model	Frequency Range	Nominal Gain	Return Loss	SWR	E-Plane Beamwidth
BOA2175	215-225 MHz	5 dBi/3 dBd	>10 dB	<2.0	18°
BOA2177	217-222 MHz	7.1 dBi/5 dBd	>10 dB	<2.0	18°
BOA4409	440-460 MHz	9.1 dBi/7 dBd	>12 dB	<1.7	11°
BOA4357	430-470MHz	7.1 dBi/5 dBd	>12 dB	<1.7	18°

Mechanical Specifications

Model	Weight (Mass)	Height	Bending Moment at Rated Wind	Lateral Thrust at Rated Wind	Equivalent Flat Plate Area
BOA2175	10 lbs	122"	685 ft-lbs	74 lbs	1.7 ft ²
BOA2177	12 lbs	151"	965 ft-lbs	88 lbs	2.10 ft ²
BOA4409	12 lbs	151"	965 ft-lbs	88 lbs	2.10 ft ²
BOA4357	7.0 lbs	83"	250 ft-lbs	45 lbs	1.125 ft ²



BOA4357 antenna (left);
Bottom view (top right);
BAM1005 mount (bottom left);
MMK5 mount (bottom right)



Technical Data

Maximum Power: 250 watts
Nominal Impedance: 50 ohms
Radome Material: Pultruded Fiberglass (2" Outside Diameter)
ESD Protection: DC grounded
Rated Wind: 125 mph
Termination: N female bulkhead
Mounting Hardware: BAM1005 or MMK5 (Included)



Viper SC+™

Intelligent IP Router for Licensed Spectrum



EXPERIENCE THE ADVANTAGE

- Up to 4X the speed of devices in its class
- Optimum control for managing data flow
- Get the most out of your RF channel
- User selected channel size: 6.25, 12.5, 25, 50 and 100 KHz
- 4kbps to 256 kbps speeds based on application requirements; Configurable to adapt to your applications
- QoS for simultaneous use of multiple applications and data transfer prioritization
- Easily deployed and managed via web browser

MORE SPEED. MORE INTELLIGENCE.

Designed for the energy and utility segment as well as the water or wastewater industries, the CalAmp Viper SC+ is an intelligent, point-to-multipoint bridge or router for licensed narrowband spectrum holders. The ruggedized Viper SC+ reliably delivers faster data speeds to support telemetry and SCADA applications in bandwidths ranging from 6.25 kHz to 100 kHz. Flexible for long-distance applications, this software-programmable router is fast, secure and intelligent.

FAST & RELIABLE

Four times as fast as devices in its category, the Viper SC+ offers 256 kbps in 100 kHz channels, providing increased throughput for reliable, remote business-critical communications. The Viper SC+ boasts multispeed operation, which allows each Viper SC+ to communicate to a Viper SC+ Base Station at the fastest speed supported by a given signal strength. The result is a network where each RF link is optimized for performance and reliability.

INTELLIGENT & SECURE

Featuring advanced QoS, the Viper SC+ allocates guaranteed RF bandwidth to critical, high-priority user-defined applications. Able to support multiple applications simultaneously, the Viper SC+ also boasts data prioritization for the ultimate in router intelligence. The Virtual Local Area Network (VLAN) routing capability of the Viper SC+ improves scalability, security and traffic-flow management of the data transmitted and permits a greater number of remote device connections. Versatile and scalable for the future, the Viper SC+ can be used as an IP router, terminal server, Ethernet bridge, access point or remote site.

CENTRALIZED MANAGEMENT

Viper SC+ can be managed via an intuitive webpage, SNMP, or telnet enabling remote management for every application. Viper's device management capabilities allow administrators to set-up and view device information, configure network parameters and deploy unit upgrades from any location. These remote management tools reduce the time and cost of maintaining network infrastructure while improving workforce efficiency for managing and monitoring industrial equipment in the field.

VIPER SC+ TECHNICAL SPECIFICATIONS

PRODUCT HIGHLIGHTS

- Highly secure, intelligent and versatile narrowband spectrum router
- Up to 256 kbps speeds for reliable delivery of business critical data*
- Highly secure VLAN, designed to meet FIPS 140-2

CONNECTORS/INTERFACE

Ethernet	VHF/UHF: 10 Base-T Auto-MDIX RJ-45 200/900: 10/100 Base-T Auto-MDIX RJ45*
Serial COM 1, COM 2	RS-232 DB-9
Antenna	TNC Female (Tx/Rx) SMA Female (Rx) - Dual port models only

MECHANICAL

Dimensions	5.50 W x 2.125 H x 4.25" D, (13.97 x 5.40 x 10.8 cm)
Weight	2.4 lbs, 1.1 kg

ENVIRONMENTAL

Operating Temperature	-40° to +70° C
Specified Temperature	-30° to +60° C
Operating Humidity	5% to 95% Non-condensing

LED

Power, Status, Ethernet Activity, Ethernet Link, Receive/Transmit

POWER

Tx Current	1W: 1.6A@10V; 0.8A@20V; 0.6A@30V 8/10W: 4.3A@10V; 2.1A@20V; 1.4A@30V
Rx Current	600mA@10V; 300mA@20V; 225mA@30V
Primary Power	10-30 VDC

STANDARDS & CERTIFICATIONS

- FCC
- IC
- UL (Pending)
- ROHS2 Compliant

TRANSMITTER

Frequency Stability	1.0 ppm
Carrier Output Power	1 - 10 Watts (VHF, 200, UHF), 1-8 Watts (900)
Duty Cycle	100% (Power Foldback for High Temps)
Output Impedance	50Ω

*Viper SC+ 200, 900 with 100 KHz channel capability

FREQUENCY BANDS

	Frequency	Channel Bandwidth
VHF:	136-174 MHz	6.25/12.5/25/50kHz
200:	215-240 MHz	6.25/12.5/25/50/100kHz
UHF:	406.1-512 MHz	6.25/12.5/25/50kHz
900 (NPCS):	880-902 MHz	12.5/25/50/100kHz
900 (NPCS, MAS):	928-960 MHz	12.5/25/50/100kHz

Modes of Operation	Simplex, Half-Duplex
Modulation	2FSK, 4FSK, 8FSK, 16FSK

RECEIVER

VHF, 200, UHF, BER @ 1 x 10 ⁻⁶	
6.25 kHz	-115dBm@4kbps; -106dBm@8kbps; -100dBm@12kbps
12.5 kHz	-116dBm@8kbps; -109dBm@16kbps; -102dBm@24kbps; -95dBm@32kbps
25 kHz	-114dBm@16kbps; -106dBm@32kbps; -100dBm@48kbps; -92dBm@64 kbps
50 kHz	-111dBm@32kbps; -104dBm@64 kbps; -97dBm@96kbps; -88dBm@128kbps
100 kHz(200 only)	-103dBm@64kbps; -96dBm@128 kbps; -89dBm@192kbps; -80dBm@256kbps
900 BER @ 1 x 10 ⁻⁶	
12.5 kHz	-112dBm@8kbps; -106dBm@16kbps; -99dBm@24kbps; -90dBm@32kbps
25 kHz	-111dBm@16kbps; -104dBm@32kbps; -97dBm@48kbps; -89dBm@64 kbps
50 kHz	-108dBm@32kbps; -101dBm@64 kbps; -94dBm@96kbps; -85dBm@128kbps
100kHz	-100dBm@64kbps; -93dBm@128kbps; -86dBm@192kbps; -77dBm@256kbps
Adjacent Channel	
VHF, 200, UHF	60dB@12.5 kHz; 70 dB@25 kHz; 75 dB@50 kHz; 75dB@100kHz
900	55 dB@12.5 kHz; 65 dB@25 kHz; 70 dB@50kHz; 70dB@100kHz

SECURITY

VLAN, AES-128, VPN with AES-128/192/256, RADIUS, Designed to meet FIPS 140-2

APPLICATIONS

- Telemetry
- SCADA
- Real-time communications

TCS Communications Corp

85 Lafayette Road PO Box 5192
Salisbury, MA 01952
T: 978.465.7932 F: 978.462.8980

www.tcscommunications.com



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CalAmp Corp.

1401 N. Rice Avenue
Oxnard, CA 93030
T: 805.987.9000 F: 805.987.8359

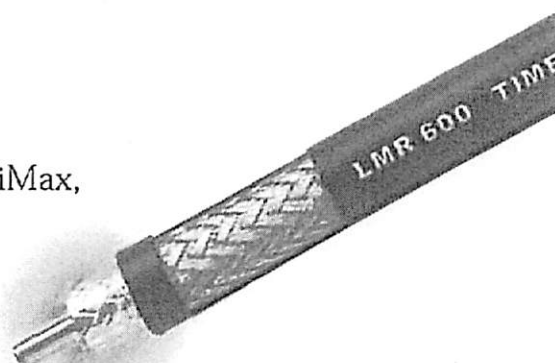
www.calamp.com

LMR®-600

Flexible Low Loss Communications Coax

Ideal for...

- Jumper Assemblies in Wireless Communications Systems
- Short Antenna Feeder runs
- Any application (e.g. WLL, GPS, LMR, WLAN, WISP, WiMax, SCADA, Mobile Antennas) requiring an easily routed, low loss RF cable



• LMR® standard is a UV Resistant Polyethylene jacketed cable designed for 20-year service outdoor use. The bending and handling characteristics are significantly better than air-dielectric and corrugated hard-line cables.

• LMR®-DB is identical to standard LMR plus has the advantage of being watertight. The addition of waterproofing compound in and around the foil/braid insures continuous reliable service should the jacket be inadvertently damaged during installation or in the future.

• LMR®-FR is a non-halogen (non-toxic), low smoke, fire retardant cable designed for in-building runs that can be routed anywhere except air handling plenums. LMR-FR is UL/NEC & CSA rated 'CMR' and 'FT4' respectively, meets FAA FAR25 requirements and is MSHA-P for mining applications.

• LMR®-FR-PVC is a general-purpose indoor cable and has a UL/NEC & CSA rating of 'CMR' and 'FT4' respectively. It is less expensive than LMR-FR, however it emits toxic fumes (HCL) and greater smoke density when burned.

• LMR®-PVC is designed for low loss general-purpose applications and is somewhat more flexible than the standard polyethylene jacketed LMR.

• LMR®-PVC-W is a white-jacketed version of LMR-PVC for marine and other applications where color compatibility is desired.

• Flexibility and bendability are hallmarks of the LMR-600 cable design. The flexible outer conductor enables the tightest bend radius available for any cable of similar size and performance.

• Low Loss is another hallmark feature of LMR-600.

Size for size LMR has the lowest loss of any flexible cable and comparable loss to semirigid hard-line cables.

• RF Shielding is 50 dB greater than typical single shielded coax (40 dB). The multi-ply bonded foil outer conductor is rated conservatively at > 90 dB (i.e. >180 dB between two adjacent cables).

• Weatherability: LMR-600 cables designed for outdoor exposure incorporate the best materials for UV resistance and have life expectancy in excess of 20 years.

• Connectors: A wide variety of connectors are available for LMR-600 cable, including all common interface types, reverse polarity, and a choice of solder or non-solder center pins. Most LMR connectors employ crimp outer attachment using standard hex crimp sizes.

• Cable Assemblies: All LMR-600 cable types are available as pre-terminated cable assemblies. Refer to the section on FlexTech for further details.

Part Description				Stock
Part Number	Application	Jacket Color	Code	
LMR-600	Outdoor	PE	Black	54003
LMR-600-DB	Outdoor/Watertight	PE	Black	54093
LMR-600-FR	Indoor/Outdoor Riser CMR	FRPE	Black	54032
LMR-600-FR-PVC	Indoor/Outdoor Riser CMR	FRPVC	Black	54074
LMR-600-PVC	General Purpose	PVC	Black	54219
LMR-600-PVC-W	General Purpose	PVC	White	54206

Construction Specifications			
Description	Material	In.	(mm)
Inner Conductor	Solid BCCAI	0.176	(4.47)
Dielectric	Foam PE	0.455	(11.56)
Outer Conductor	Aluminum Tape	0.461	(11.71)
Overall Braid	Tinned Copper	0.490	(12.45)
Jacket	(see table above)	0.590	(14.99)

Mechanical Specifications

Performance Property	Units	US	(metric)
Bend Radius: installation	in. (mm)	1.50	(38.1)
Bend Radius: repeated	in. (mm)	6.0	(152.4)
Bending Moment	ft-lb (N-m)	2.75	(3.73)
Weight	lb/ft (kg/m)	0.131	(0.20)
Tensile Strength	lb (kg)	350	(158.9)
Flat Plate Crush	lb/in. (kg/mm)	60	(1.07)

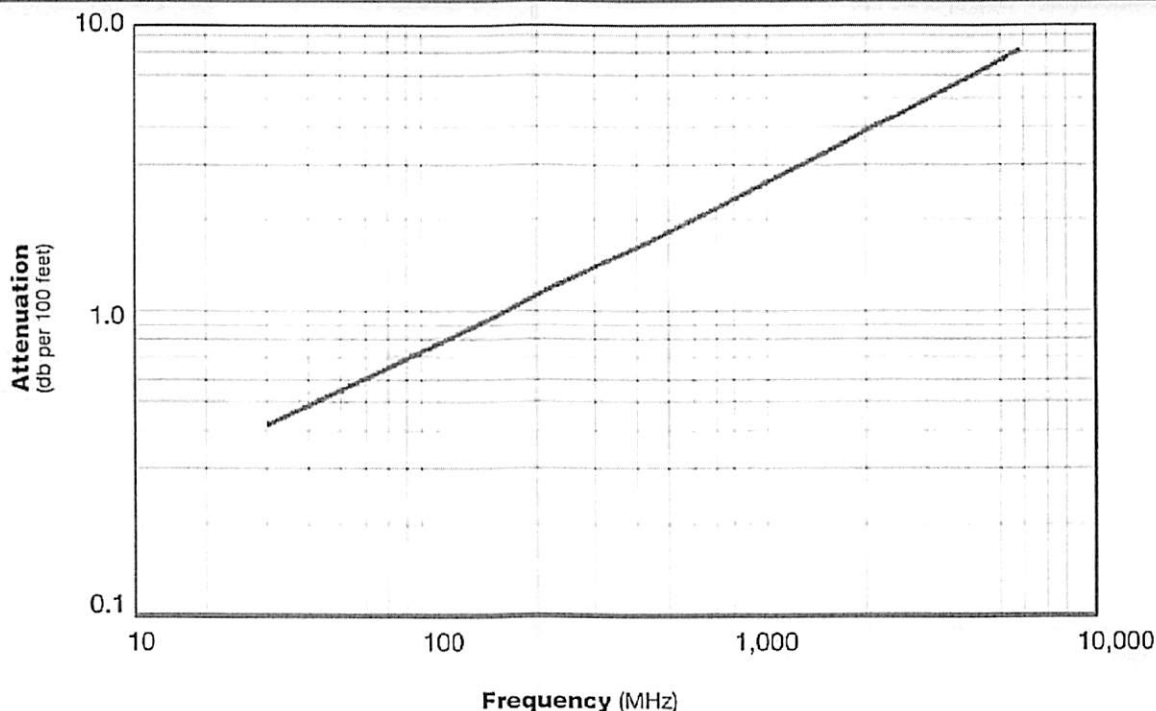
Environmental Specifications

Performance Property	°F	°C
Installation Temperature Range	-40/+185	-40/+85
Storage Temperature Range	-94/+185	-70/+85
Operating Temperature Range	-40/+185	-40/+85

Electrical Specifications

Performance Property	Units	US	(metric)
Velocity of Propagation	%	87	
Dielectric Constant	NA	1.32	
Time Delay	nS/ft (nS/m)	1.17	(3.83)
Impedance	ohms	50	
Capacitance	pF/ft (pF/m)	23.4	(76.6)
Inductance	uH/ft (uH/m)	0.058	(0.19)
Shielding Effectiveness	dB	>90	
DC Resistance			
Inner Conductor	ohms/1000ft (/km)	0.53	(1.7)
Outer Conductor	ohms/1000ft (/km)	1.2	(3.9)
Voltage Withstand	Volts DC	4000	
Jacket Spark	Volts RMS	8000	
Peak Power	kW	40	

Attenuation vs. Frequency (typical)



Frequency (MHz)	30	50	150	220	450	900	1500	1800	2000	2500	5800
Attenuation dB/100 ft	0.4	0.5	1.0	1.2	1.7	2.5	3.3	3.7	3.9	4.4	7.3
Attenuation dB/100 m	1.4	1.8	3.2	3.9	5.6	8.2	10.9	12.1	12.8	14.5	23.8
Avg. Power kW	5.51	4.24	2.41	1.97	1.35	0.93	0.70	0.63	0.59	0.52	0.32

Calculate Attenuation =

$(0.075550) \cdot \sqrt{\text{FMHz}} + (0.000260) \cdot \text{FMHz}$ (interactive calculator available at http://www.timesmicrowave.com/cable_calculators)

Attenuation:

VSWR=1.0; Ambient = +25°C (77°F)

Power:

VSWR=1.0; Ambient = +40°C; Inner Conductor = 100°C (212°F); Sea Level; dry air; atmospheric pressure; no solar loading

LMR®-600 Flexible Low Loss Communications Coax



Connectors

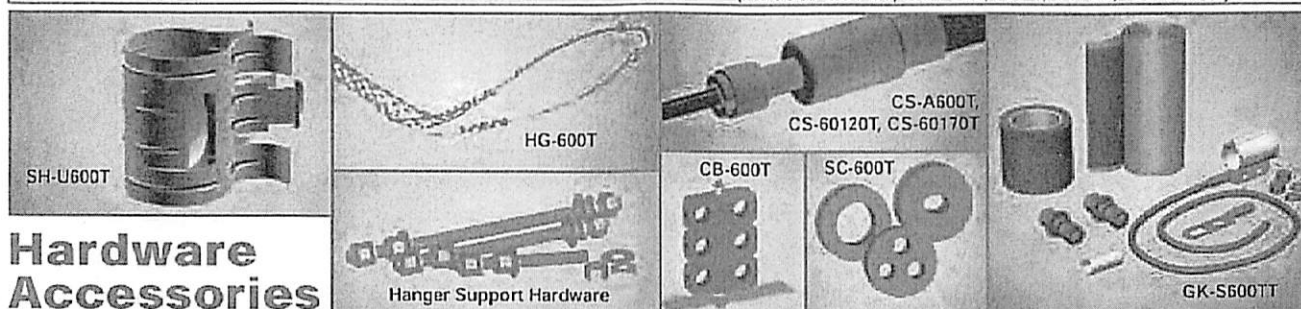
Interface	Description	Part Number	Stock Code	VSWR**	Coupling Freq. (GHz)	Inner Contact	Outer Contact	Finish*	Length in (mm)	Width in (mm)	Weight lb (g)
1. 7/8 EIA	Flange	EZ-600-78EIA	3190-1373	<1.25:1	(2.5)	NA	Spring Finger Clamp	S/S	2.3 (58)	2.60 (66.0)	0.873 (396.0)
2. 7-16 DIN Female	Straight Jack	TC-600-716FC	3190-375	<1.25:1	(2.5)	NA	Solder Clamp	S/S	1.1 (28)	1.00 (25.4)	0.249 (112.9)
3. 7-16 DIN	Straight Plug	EZ-600-716M-X	3190-2643	<1.30:1	(6)	Hex	Spring Finger Crimp	A/S	1.6 (42)	1.38 (35.0)	0.209 (94.80)
4. 7-16 DIN	Straight Plug	TC-600-716M-X	3190-2642	<1.30:1	(6)	Hex	Solder Crimp	A/S	1.6 (40)	1.38 (35.0)	0.191 (86.6)
5. 7-16 DIN	Straight Plug	TC-600-716MC	3190-502	<1.25:1	(2.5)	Hex	Solder Clamp	S/S	2.0 (51)	1.30 (33.0)	0.347 (157.4)
6. 7/16 Male	Right Angle	EZ-600-716M-RA-X	3190-2546	<1.35:1	(6)	Hex	Spring Finger Crimp	A/G	1.6 (40)	1.38 (35.0)	0.462 (210.0)
7. 7-16 DIN	Right Angle	TC-600-716M-RA-D	3190-2599	<1.35:1	(6)	Hex	Solder Crimp	A/S	1.7 (44)	2.00 (50.9)	0.352 (164.2)
8. 7-16 DIN	Straight Jack	EZ-600-716F	3190-2447	<1.25:1	(6)	Hex	Spring Finger Crimp	A/G	1.8 (45)	1.32 (33.6)	0.158 (71.7)
9. HN Male	Straight Plug	TC-600-HNMC	3190-1429	<1.25:1	(6)	Knurl	Solder Clamp	S/G	2.3 (59.2)	0.88 (22.4)	0.25 (113)
10. LC Male	Straight Plug	TC-600-LCM	3190-1406	<1.25:1	(6)	Hex	Solder Clamp	N/S	3.1 (78.0)	1.62 (41.1)	1.20 (544)
11. N Female	Straight Jack	TC-600-NF-X	3190-2816	<1.30:1	(6)	NA	Solder Crimp	A/G	1.7 (43)	0.69 (17.6)	0.076 (34.6)
12. N Female	Straight Jack	EZ-600-NF-X	3190-2817	<1.30:1	(6)	NA	Spring Finger Crimp	A/G	1.7 (43)	0.69 (17.6)	0.090 (40.6)
13. N Female	Bulkhead Jack	EZ-600-NF-BH	3190-616	<1.25:1	(2.5)	NA	Spring Finger Crimp	S/G	2.4 (61)	0.88 (22.4)	0.195 (88.5)
14. N Female	Bulkhead Jack	TC-600-NF-BH	3190-589	<1.25:1	(2.5)	NA	Solder Crimp	S/G	2.4 (61)	0.88 (22.4)	0.195 (88.5)
15. N Female	Bulkhead Jack	TC-600-NFC-BH	3190-466	<1.25:1	(2.5)	NA	Solder Clamp	S/G	2.2 (56)	0.94 (23.9)	0.214 (97.1)
16. N Male	Straight Plug	EZ-600-NMK	3190-669	<1.25:1	(2.5)	Knurl	Spring Finger Crimp	S/G	2.1 (53)	0.92 (23.4)	0.164 (74.4)
17. N Male	Straight Plug	EZ-600-NMC-2-D	3190-2641	<1.25:1	(6)	Hex/Knurl	Spring Finger Clamp	A/G	2.1 (53)	0.92 (23.4)	0.202 (91.6)
18. N Male	Straight Plug	TC-600-NMC	3190-357	<1.25:1	(2.5)	Hex	Solder Clamp	S/G	2.1 (53)	0.92 (23.4)	0.208 (93.4)
19. N Male	Straight Plug	EZ-600-NMH-X	3190-2627	<1.25:1	(6)	Hex/Knurl	Spring Finger Crimp	A/G	2.1 (53)	0.92 (23.4)	0.164 (74.4)
20. N Male	Straight Plug	TC-600-NMH-X	3190-2628	<1.25:1	(6)	Hex/Knurl	Spring Finger Crimp	A/G	2.1 (53)	0.92 (23.4)	0.166 (75.3)
21. N Male	Right Angle	EZ-600-NMH-RA-X	3190-2539	<1.35:1	(6)	Hex	Spring Finger Crimp	A/G	2.0 (50)	1.42 (36.0)	0.224 (101.7)
22. N Male	Right Angle	TC-600-NMH-RA-D	3190-2427	<1.35:1	(6)	Hex	Solder Crimp	A/G	1.8 (46.5)	1.62 (41.2)	0.185 (84.3)
23. N Male	Straight Plug	TC-600-NMH-75-50	3190-1610	<1.35:1	(6)	Hex	Solder Crimp	N/G	2.1 (52.8)	0.91 (23.1)	0.130 (59.0)
24. QDS Male	Straight Plug	TC-600-QDSM	3190-825	<1.25:1	(6)	Knurl	Solder Clamp	A/G	2.2 (55.6)	1.00 (25.4)	0.25 (113)
25. TNC Male	Straight Plug	TC-600-TM-X	3190-2530	<1.25:1	(6)	Hex/Knurl	Solder Crimp	A/G	2.3 (57.6)	0.75 (19.0)	0.100 (45.6)
26. TNC Male	Straight Plug	EZ-600-TM-X	3190-2531	<1.25:1	(6)	Hex/Knurl	Spring Finger Crimp	A/G	2.3 (57.6)	0.75 (19.0)	0.100 (45.6)
27. TNC Male	Reverse Polarity	EZ-600-TM-RP	3190-796	<1.25:1	(2.5)	Knurl	Spring Finger Crimp	A/G	2.2 (56)	0.87 (22.0)	0.112 (50.8)
28. TNC Male	Reverse Polarity	TC-600-TM-RP	3190-1064	<1.25:1	(6)	Knurl	Solder Crimp	N/G	2.1 (53.3)	0.68 (17.3)	0.112 (50.8)
29. TNC Male	Right Angle	TC-600-TM-RA-D	3190-2707	<1.35:1	(6)	Hex/Knurl	Solder Crimp	A/G	1.6 (41)	1.75 (44.5)	0.164 (74.3)
30. TNC Female	Reverse Polarity	EZ-600-TF-RP	3190-797	<1.25:1	(2.5)	NA	Spring Finger Crimp	A/G	2.3 (58)	0.87 (22.0)	0.100 (45.4)
31. TNC	Reverse Polarity	TC-600-TF-RP	3190-1065	<1.35:1	(6)	Knurl	Solder Crimp	N/G	2.2 (55.8)	0.68 (17.3)	0.100 (45.4)
32. UHF Male	Straight Plug	EZ-600-UM	3190-615	<1.25:1	(2.5)	Knurl	Spring Finger Crimp	S/G	1.7 (43)	0.88 (22.4)	0.164 (74.4)
33. UHF Male	Straight Plug	TC-600-UMC	3190-213	<1.25:1	(2.5)	Knurl	Solder Clamp	S/G	1.7 (43)	0.88 (22.4)	0.198 (89.8)

Finish metals: N=Nickel, S=Silver, G=Gold, SS=Stainless Steel, A=Alloy **VSWR spec based on 3 foot cable with a connector pair *Available in bulk pack



Install Tools

Type	Part Number	Stock Code	Description
Crimp Tool	HX-4	3190-200	Crimp Handle
Crimp Dies	Y1720	3190-203	.610" Hex Dies
Crimp Rings	CR-600	3190-831	Crimp Rings for TC/EZ-600 connectors (pkg of 10)
Strip Tool	CST-600	3192-052	Combination prep tool for LMR-600 crimp and clamp style connectors
Replacement Blades	RB-456	3190-421	Replacement Blades for Strip Tools
Debur Tool	DBT-U	3192-001	Removes center conductor rough edges
Midspan Strip Tool	GST-600A	3190-1051	For ground strap attachment
Wrench	WR-600	3190-1435	15/16" Box Wrench (2 required for EZ-600-NMC-2)
Cutting Tool	CCT-01	3190-1544	Cable end flush cut tool
Replacement Blade	RB-01	3190-1609	Replacement blade for cutting tool
Replacement Blade Kit	RB-CST	3192-086	Replacement blade kit for all CST strip tools
Tool Kit	TK-600EZ	3190-1602	Tool kit for LMR crimp/clamp connectors (includes CCT-01, CST-600, HX-4, Y1720, Tool Pouch)



Hardware Accessories

Type	Part Number	Stock Code	Description
Ground Kit	GK-S600TT	GK-S600TT	Standard Grounding Kit (each)
Hoisting Grip	HG-600T	HG-600T	Split/Laced Type (each)
Cold Shrink	CS-A600T	CS-A600T	Cable to Antenna Junction (each)
Cold Shrink	CS-60120T	CS-60120T	LMR-600 to -1200 Junction (each)
Cold Shrink	CS-60170T	CS-60170T	LMR-600 to -1700 Junction (each)
Hanger Blocks	CB-600T	CB-600T	Dual Cable Support Block (kit of 10)
Standard Entry			
Port Cushion	SC-600T-3	SC-600T-3	Three cables (each)
Snap-In Hangers	SH-U600T	SH-U600T	Snap-In Hangers (Kit of 10)
Hanger Block Supporting Hardware			Complete Range of Supporting Hardware & Adapters Available



5.5
QUOTE

CUSTOMER

Contact Name: Ryan Lapirre
 Company/Dept: Townsend H20
 Street Address: 540 Main St
 City, State, Zip: Townsend MA
 Phone: 978-877-3224
 E-Mail: watertech@townsend.ma.us

Date: October 17, 2019
 Valid for: 60 Days:
 Customer #:
 Contract: PCC
 Sales Rep: Jay Matisko

CONTRACT LINE REFERENCE	LINE DESCRIPTION	UNIT PRICE	QTY.	EXTENDED PRICE
F2B	F250 SRW Reg Cab Pickup Truck, 8' bed			\$ 27,995.00
	4X4			Incl.
	Color: Blue Jeans			Incl.
	6.2 V8 Gas engine			Incl.
	6 Speed automatic transmission			Incl.
	Air conditioning			Incl.
	AM/FM Stereo with clock			Incl.
	Receiver Hitch			Incl.
	Electronic Shift Four wheel drive			Incl.
473	Snow plow prep			245.00
66D	Pick up Bed Delete			(612.50)
512	Spare tire and jack			289.10
90L	Power equipment group			896.70
TBM	All Terrain tires			161.70
18B	Factory Cab Steps (Running Boards)			313.60
66S	Upfitter switches			161.70
	8' Steel Utility body (match)			6,995.00
	Base Clearcoat to match cab			1,995.00
	Trailer plug 7 Blade			195.00
	Inside compartment rope lighting			550.00
	Electronic back-up alarm			100.00
	Rhino spray on bedliner			895.00
	Whelen LED Hideaways (2) front Amber			295.00
	Whelen LED Mini Lightbar Amber			945.00
	Whelen LED M7AC's rear Amber			450.00
	Worklights rear hitch on a switch and on in reverse			425.00
	Fisher 8' HD plow with edge			6,150.00
	Rubber Sno Foil			465.00
	Back up camera aftermarket in mirror			495.00
	Ventvisors			70.00
	Weathertech mats			125.00
	Shop Supplies			295.00

TAX:	
TOTAL:	\$49,895.30

TERMS AND CONDITIONS

*This quote is valid for 60 days from the date of quote. Any purchase orders or approved quotes received outside of the 60 day quote period will be subject to price adjustments. By signing this quote, the customer is agreeing to pay, in full, for all items listed above. Any requests for changes, modifications, replacements, removals or additional items may be subject to additional fees and/or adjusted delivery dates.

M.G.L c. 30B applies to the procurement of all commodities quoted. Contract items have been collectively purchased pursuant to M.G.L c 30B sec 1c and M.G.L c.7 sec 22B. The government body is responsible to determine the applicability of M.G.L. c30B to off contract items, but not limited to, off contract items that have already been properly procured under M.G.L. c30B sec 1c and M.G.L. c7 sec 22A (purchases from a vendor on contract with the Commonwealth), other contracts procured under M.G.L. c30B sec 1c and M.G.L. c. 30B contract between the vendor and the jurisdiction. All off contract items must be procured under M.G.L. c. 30B.

The terms and conditions stated herein and the provisions of any agreement between MHQ and Buyer, if applicable, shall constitute the complete and only terms and conditions applicable to any and all purchases by Buyer from MHQ. Any additional and/or different terms and/or conditions printed anywhere including on, or with, Buyer's order shall be inapplicable in regard to any purchase by Buyer from MHQ.

ORDER ACKNOWLEDGEMENT

By signing this document you are agreeing to the above terms and conditions of this order from MHQ, Inc.

x

PRINT NAME

x

TITLE

x

SIGNATURE

Quote provided by Jay Matisko , Account Manager at MHQ
(508) 573-2622 or jmatisko@mhq.com

6.5

Filter by: Segment 1: 061, 063

Group as: ***_**_***_****_****_***

Parameters: Fiscal Year: 2020 Start Date: 7/1/2019 end: 6/30/2020 Active Accounts Only

Town of

Expense Control Report - Expenditure Ledger

Account Number		Curr. Month Total Expended	Original Budget	YTD Adjusted Budget	YTD Actual Expended	YTD Unexpended Balance	% Var.
Group 1: Segment 3: Department		Code: 000 - General					
Personnel							
061-04-000-5100-0000-000	WATER - SALARY - SUPERINTENDENT	-21,078.40	89,129.00	89,129.00	-21,078.40	68,050.60	23.65
061-04-000-5110-0000-000	WATER - WAGES-OPER STAFF	-41,056.84	175,227.00	175,227.00	-41,056.84	134,170.16	23.43
061-04-000-5112-0000-000	WATER - WAGES-SUPPORT STAFF	-15,655.62	63,821.00	63,821.00	-15,655.62	48,165.38	24.53
061-04-000-5130-0000-000	WATER - ADDITIONAL GROSS - OVERTI	-4,505.39	14,240.00	14,240.00	-4,505.39	9,734.61	31.64
061-04-000-5134-0000-000	WATER - ADDITIONAL GROSS - REG & S	-3,650.00	19,770.00	19,770.00	-3,650.00	16,120.00	18.46
061-04-000-5190-0000-000	WATER - OTHER - STIPEND - LONGEVIT	-1,600.00	2,700.00	2,700.00	-1,600.00	1,100.00	59.26
061-04-000-5191-0000-000	WATER - OTHER - STIPENDS - BOARD O	0.00	3.00	3.00	0.00	3.00	0.00
061-04-000-5192-0000-000	WATER - OTHER-STIPENDS - LICENSE &	0.00	1,500.00	1,500.00	0.00	1,500.00	0.00
061-04-000-5193-0000-000	WATER - OTHER - RETIREMENT BENEFI	0.00	2,000.00	2,000.00	0.00	2,000.00	0.00
061-04-000-5195-0000-000	WATER - OTHER - CLOTHING ALLOWAN	-600.00	600.00	600.00	-600.00	0.00	100.00
061-04-000-5197-0000-000	WATER- VEHICLE ALLOWANCE	0.00	6,000.00	6,000.00	0.00	6,000.00	0.00
061-04-000-5198-0000-000	WATER- OTHER STIPEND- SNOW STOR	0.00	4,000.00	4,000.00	0.00	4,000.00	0.00
Total Group 3: Personnel		-88,146.25	378,990.00	378,990.00	-88,146.25	290,843.75	23.26
Expenses							
061-04-000-5210-0000-000	WATER - ENERGY	-19,253.27	70,000.00	70,000.00	-19,253.27	50,746.73	27.50
061-04-000-5240-0000-000	WATER - REPAIR & MAINT BUILDING	-3,667.48	5,000.00	5,000.00	-3,667.48	1,332.52	73.35
061-04-000-5245-0000-000	WATER - REPAIR & MAINT EQUIPMENT	-3,651.28	20,000.00	20,000.00	-3,651.28	16,348.72	18.26
061-04-000-5245-0006-000	WATER - REPAIR & MAINTAIN - SCADA S	-5,707.50	10,000.00	10,000.00	-5,707.50	4,292.50	57.08
061-04-000-5270-0000-000	WATER - RENTALS	-315.00	1,000.00	1,000.00	-315.00	685.00	31.50
061-04-000-5300-0000-000	WATER - PROFESSIONAL SERVICES	-11,367.01	60,000.00	60,000.00	-11,367.01	48,632.99	18.95
061-04-000-5300-0001-000	WATER - PROF SVS - BACKFLOW SURV	-4,600.00	6,000.00	6,000.00	-4,600.00	1,400.00	76.67
061-04-000-5307-0000-000	WATER- PROF & TECH - LEGAL	0.00	12,000.00	12,000.00	0.00	12,000.00	0.00
061-04-000-5340-0000-000	WATER - COMMUNICATION	-2,292.08	17,600.00	17,600.00	-2,292.08	15,307.92	13.02
061-04-000-5380-0000-000	WATER - OTHER SERVICES	0.00	2,600.00	2,600.00	0.00	2,600.00	0.00
061-04-000-5420-0000-000	WATER - OFFICE SUPPLIES	-468.04	5,000.00	5,000.00	-468.04	4,531.96	9.36
061-04-000-5430-0000-000	WATER - BUILDING SUPPLIES	0.00	1,500.00	1,500.00	0.00	1,500.00	0.00
061-04-000-5435-0000-000	WATER - EQUIPMENT MAINT SUPPLIES	0.00	1,500.00	1,500.00	0.00	1,500.00	0.00
061-04-000-5460-0000-000	WATER - GROUNDSKEEPING SUPPLIES	-125.94	500.00	500.00	-125.94	374.06	25.19
061-04-000-5480-0000-000	WATER - VEHICULAR SUPPLIES	-1,526.70	8,000.00	8,000.00	-1,526.70	6,473.30	19.08
061-04-000-5530-0000-000	WATER - PUBLIC WORKS SUPPLIES	-13,910.94	35,000.00	35,000.00	-13,910.94	21,089.06	39.75

Group as: ***-**-****-****

Parameters: Fiscal Year: 2020 Start Date: 7/1/2019 end: 6/30/2020 Active Accounts Only

Town of

Expense Control Report - Expenditure Ledger

Account Number		Curr. Month Total Expended	Original Budget	YTD Adjusted Budget	YTD Actual Expended	YTD Unexpended Balance	% Var.
061-04-000-5530-0001-000	WATER - PUBLIC WORKS SUPPLIES - C	-5,360.39	23,000.00	23,000.00	-5,360.39	17,639.61	23.31
061-04-000-5580-0000-000	WATER - OTHER SUPPLIES	0.00	1,000.00	1,000.00	0.00	1,000.00	0.00
061-04-000-5585-0000-000	WATER- UNIFORM ALLOWANCE	0.00	5,000.00	5,000.00	0.00	5,000.00	0.00
061-04-000-5710-0000-000	WATER - TRAVEL/MILEAGE-IN STATE	0.00	1,100.00	1,100.00	0.00	1,100.00	0.00
061-04-000-5720-0000-000	WATER - OUT OF STATE TRAVEL	0.00	100.00	100.00	0.00	100.00	0.00
061-04-000-5730-0000-000	WATER - DUES & MEMBERSHIPS	-5,143.00	2,000.00	2,000.00	-5,143.00	-3,143.00	257.15
061-04-000-5780-0000-000	WATER - OTHER CHARGES	0.00	500.00	500.00	0.00	500.00	0.00
061-04-000-5785-0000-000	WATER - ASSESSMENT D.E.P.	0.00	2,000.00	2,000.00	0.00	2,000.00	0.00
061-04-000-5850-0000-000	WATER - NEW EQUIPMENT	-6,429.80	10,000.00	10,000.00	-6,429.80	3,570.20	64.30
061-04-000-5910-0000-000	WATER - LT DEBT SERVICE - MWPAT - E	-37,210.00	37,210.00	37,210.00	-37,210.00	0.00	100.00
061-04-000-5910-0001-000	WATER - LT DEBT SERVICE - MWPAT EA	-53,007.31	53,008.00	53,008.00	-53,007.31	0.69	100.00
061-04-000-5920-0000-000	WATER - LT INTEREST - MWPAT - EAST	-2,767.98	5,163.86	5,163.86	-2,767.98	2,395.88	53.60
061-04-000-5920-0001-000	WATER - LT INTEREST - MWPAT - EAST	-4,552.87	8,575.67	8,575.67	-4,552.87	4,022.80	53.09
061-04-000-5925-0000-000	WATER-INT ON ST LOANS/ISSUANCE CO	0.00	23,300.27	23,300.27	0.00	23,300.27	0.00
Total Group 3: Expenses		-181,356.59	427,657.80	427,657.80	-181,356.59	246,301.21	42.41
		-269,502.84	806,647.80	806,647.80	-269,502.84	537,144.96	33.41
Total Group 1: Segment 3: Department Code: 000 - General		-269,502.84	806,647.80	806,647.80	-269,502.84	537,144.96	33.41

- 26,000
for Hydratech -

Group as: ***_**_***_****_*****_***

Parameters: Fiscal Year: 2020 Start Date: 7/1/2019 end: 6/30/2020 Active Accounts Only

Town of

Expense Control Report - Expenditure Ledger

Account Number		Curr. Month Total Expended	Original Budget	YTD Adjusted Budget	YTD Actual Expended	YTD Unexpended Balance	% Var.
Group 1: Segment 3: Department		Code: 400 - Water Construction Projects					
Special							
061-04-400-5012-0000-000	SYSTEM ENHANCEMENTS	-19,195.80	144,328.64	144,328.64	-19,195.80	125,132.84	13.30
Total Group 3: Special		-19,195.80	144,328.64	144,328.64	-19,195.80	125,132.84	13.30
Expenses							
061-04-400-5805-2018-000	WATER ENT- A14 ATM05/07/17 MEADOW	-8,453.32	198,400.00	198,400.00	-8,453.32	189,946.68	4.26
061-04-400-5895-2018-000	WATER ENT- A14 ATM05/07/17 MAIN LIN	0.00	60,000.00	60,000.00	0.00	60,000.00	0.00
061-04-400-5902-2018-000	WATER ENT- MAIN ST CLEANING	0.00	50,000.00	50,000.00	0.00	50,000.00	0.00
063-04-400-5895-0000-000	WATER ENT-INFRASTRUCTURE IMPROV	-330,156.47	0.00	0.00	-330,156.47	-330,156.47	0.00
Total Group 3: Expenses		-338,609.79	308,400.00	308,400.00	-338,609.79	-30,209.79	109.80
		-357,805.59	452,728.64	452,728.64	-357,805.59	94,923.05	79.03
Total Group 1: Segment 3: Department		-357,805.59	452,728.64	452,728.64	-357,805.59	94,923.05	79.03
Code: 400 - Water Construction							

Group as: ***_**_***_****_****_***

Parameters: Fiscal Year: 2020 Start Date: 7/1/2019 end: 6/30/2020 Active Accounts Only

Town of

Expense Control Report - Expenditure Ledger

Account Number		Curr. Month Total Expended	Original Budget	YTD Adjusted Budget	YTD Actual Expended	YTD Unexpended Balance	% Var.
Group 1: Segment 3: Department							
Special							
061-04-500-5000-0000-000	WATER OPER 000 EMERGENCY RESERV	0.00	20,000.00	20,000.00	0.00	20,000.00	0.00
061-04-500-5005-2018-000	WATER ENT- A14ATM05/07/17 UPDATE M	0.00	50,000.00	50,000.00	0.00	50,000.00	0.00
Total Group 3: Special		0.00	70,000.00	70,000.00	0.00	70,000.00	0.00
Expenses							
061-04-500-5245-2006-000	STORAGE TANK MAINT FUND ATM 5/06 A	-8,685.00	13,883.40	13,883.40	-8,685.00	5,198.40	62.56
061-04-500-5640-0000-100	WATER OPER 000 PRIOR YEAR ENCUMB	-5,815.48	0.00	11,611.30	-5,815.48	5,795.82	50.08
061-04-500-5803-2019-000	WATER-ATM 05/01/18 ART8 GENERATOR	0.00	30,000.00	30,000.00	0.00	30,000.00	0.00
061-04-500-5804-2016-251	WATER-A28ATM5/15 - WITCHS BROOK R	0.00	40,000.00	40,000.00	0.00	40,000.00	0.00
061-04-500-5806-2020-320	ATM 05/07/19 ART 9 1TON DUMP TRUCK	0.00	50,000.00	50,000.00	0.00	50,000.00	0.00
061-04-500-5809-2017-002	WATER-A18ATM5/3/16-HIGHLAND ST ST	0.00	75,000.00	75,000.00	0.00	75,000.00	0.00
061-04-500-5902-2018-000	WATER-STM 05/01/18 ART 3 UTILITY BILL	0.00	18,000.00	18,000.00	0.00	18,000.00	0.00
Total Group 3: Expenses		-14,500.48	226,883.40	238,494.70	-14,500.48	223,994.22	6.08
		-14,500.48	296,883.40	308,494.70	-14,500.48	293,994.22	4.70
Total Group 1: Segment 3: Department		-14,500.48	296,883.40	308,494.70	-14,500.48	293,994.22	4.70
Code: 500 - Water Special Articles							

Group as: ***.***.***.***.***

Parameters: Fiscal Year: 2020 Start Date: 7/1/2019 end: 6/30/2020 Active Accounts Only

Town of

Expense Control Report - Expenditure Ledger

Account Number	Curr. Month Total Expended	Original Budget	YTD Adjusted Budget	YTD Actual Expended	YTD Unexpended Balance	% Var.
56 Account(s) totaling:	-641,808.91	1,556,259.84	1,567,871.14	-641,808.91	926,062.23	40.94

Filter by: Segment 1: 061, 063

Group as: 111-**-***-****-***

Parameters: Fiscal Year: 2020

Start Date: 7/1/2019

end: 6/30/2020

Active Accounts Only

Town of

Expense Control Report - Expenditure Ledger

Account Number		Curr. Month Total Expended	Original Budget	YTD Adjusted Budget	YTD Actual Expended	YTD Unexpended Balance	% Var.
Group 1: Segment 1: Fund		Code: 061 - Water Enterprise					
Special							
061-04-400-5012-0000-000	SYSTEM ENHANCEMENTS	-19,195.80	144,328.64	144,328.64	-19,195.80	125,132.84	13.30
061-04-500-5000-0000-000	WATER OPER 000 EMERGENCY RESERV	0.00	20,000.00	20,000.00	0.00	20,000.00	0.00
061-04-500-5005-2018-000	WATER ENT- A14ATM05/07/17 UPDATE M	0.00	50,000.00	50,000.00	0.00	50,000.00	0.00
Total Group 3: Special		-19,195.80	214,328.64	214,328.64	-19,195.80	195,132.84	8.96
Personnel							
061-04-000-5100-0000-000	WATER - SALARY - SUPERINTENDENT	-21,078.40	89,129.00	89,129.00	-21,078.40	68,050.60	23.65
061-04-000-5110-0000-000	WATER - WAGES-OPER STAFF	-41,056.84	175,227.00	175,227.00	-41,056.84	134,170.16	23.43
061-04-000-5112-0000-000	WATER - WAGES-SUPPORT STAFF	-15,655.62	63,821.00	63,821.00	-15,655.62	48,165.38	24.53
061-04-000-5130-0000-000	WATER - ADDITIONAL GROSS - OVERTI	-4,505.39	14,240.00	14,240.00	-4,505.39	9,734.61	31.64
061-04-000-5134-0000-000	WATER - ADDITIONAL GROSS - REG & S	-3,650.00	19,770.00	19,770.00	-3,650.00	16,120.00	18.46
061-04-000-5190-0000-000	WATER - OTHER - STIPEND - LONGEVIT	-1,600.00	2,700.00	2,700.00	-1,600.00	1,100.00	59.26
061-04-000-5191-0000-000	WATER - OTHER - STIPENDS - BOARD O	0.00	3.00	3.00	0.00	3.00	0.00
061-04-000-5192-0000-000	WATER - OTHER-STIPENDS - LICENSE &	0.00	1,500.00	1,500.00	0.00	1,500.00	0.00
061-04-000-5193-0000-000	WATER - OTHER - RETIREMENT BENEFI	0.00	2,000.00	2,000.00	0.00	2,000.00	0.00
061-04-000-5195-0000-000	WATER - OTHER - CLOTHING ALLOWAN	-600.00	600.00	600.00	-600.00	0.00	100.00
061-04-000-5197-0000-000	WATER- VEHICLE ALLOWANCE	0.00	6,000.00	6,000.00	0.00	6,000.00	0.00
061-04-000-5198-0000-000	WATER- OTHER STIPEND- SNOW STOR	0.00	4,000.00	4,000.00	0.00	4,000.00	0.00
Total Group 3: Personnel		-88,146.25	378,990.00	378,990.00	-88,146.25	290,843.75	23.26
Expenses							
061-04-000-5210-0000-000	WATER - ENERGY	-19,253.27	70,000.00	70,000.00	-19,253.27	50,746.73	27.50
061-04-000-5240-0000-000	WATER - REPAIR & MAINT BUILDING	-3,667.48	5,000.00	5,000.00	-3,667.48	1,332.52	73.35
061-04-000-5245-0000-000	WATER - REPAIR & MAINT EQUIPMENT	-3,651.28	20,000.00	20,000.00	-3,651.28	16,348.72	18.26
061-04-000-5245-0006-000	WATER - REPAIR & MAINTAIN - SCADA S	-5,707.50	10,000.00	10,000.00	-5,707.50	4,292.50	57.08
061-04-000-5270-0000-000	WATER - RENTALS	-315.00	1,000.00	1,000.00	-315.00	685.00	31.50
061-04-000-5300-0000-000	WATER - PROFESSIONAL SERVICES	-11,367.01	60,000.00	60,000.00	-11,367.01	48,632.99	18.95
061-04-000-5300-0001-000	WATER - PROF SVS - BACKFLOW SURV	-4,600.00	6,000.00	6,000.00	-4,600.00	1,400.00	76.67
061-04-000-5307-0000-000	WATER- PROF & TECH - LEGAL	0.00	12,000.00	12,000.00	0.00	12,000.00	0.00
061-04-000-5340-0000-000	WATER - COMMUNICATION	-2,292.08	17,600.00	17,600.00	-2,292.08	15,307.92	13.02
061-04-000-5380-0000-000	WATER - OTHER SERVICES	0.00	2,600.00	2,600.00	0.00	2,600.00	0.00
061-04-000-5420-0000-000	WATER - OFFICE SUPPLIES	-468.04	5,000.00	5,000.00	-468.04	4,531.96	9.36

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Group as: 111-**-***-****-****-***

Parameters: Fiscal Year: 2020 Start Date: 7/1/2019 end: 6/30/2020 Active Accounts Only

Town of

Expense Control Report - Expenditure Ledger

Account Number		Curr. Month Total Expended	Original Budget	YTD Adjusted Budget	YTD Actual Expended	YTD Unexpended Balance	% Var.
061-04-000-5430-0000-000	WATER - BUILDING SUPPLIES	0.00	1,500.00	1,500.00	0.00	1,500.00	0.00
061-04-000-5435-0000-000	WATER - EQUIPMENT MAINT SUPPLIES	0.00	1,500.00	1,500.00	0.00	1,500.00	0.00
061-04-000-5460-0000-000	WATER - GROUNDSKEEPING SUPPLIES	-125.94	500.00	500.00	-125.94	374.06	25.19
061-04-000-5480-0000-000	WATER - VEHICULAR SUPPLIES	-1,526.70	8,000.00	8,000.00	-1,526.70	6,473.30	19.08
061-04-000-5530-0000-000	WATER - PUBLIC WORKS SUPPLIES	-13,910.94	35,000.00	35,000.00	-13,910.94	21,089.06	39.75
061-04-000-5530-0001-000	WATER - PUBLIC WORKS SUPPLIES - C	-5,360.39	23,000.00	23,000.00	-5,360.39	17,639.61	23.31
061-04-000-5580-0000-000	WATER - OTHER SUPPLIES	0.00	1,000.00	1,000.00	0.00	1,000.00	0.00
061-04-000-5585-0000-000	WATER- UNIFORM ALLOWANCE	0.00	5,000.00	5,000.00	0.00	5,000.00	0.00
061-04-000-5710-0000-000	WATER - TRAVEL/MILEAGE-IN STATE	0.00	1,100.00	1,100.00	0.00	1,100.00	0.00
061-04-000-5720-0000-000	WATER - OUT OF STATE TRAVEL	0.00	100.00	100.00	0.00	100.00	0.00
061-04-000-5730-0000-000	WATER - DUES & MEMBERSHIPS	-5,143.00	2,000.00	2,000.00	-5,143.00	-3,143.00	257.15
061-04-000-5780-0000-000	WATER - OTHER CHARGES	0.00	500.00	500.00	0.00	500.00	0.00
061-04-000-5785-0000-000	WATER - ASSESSMENT D.E.P.	0.00	2,000.00	2,000.00	0.00	2,000.00	0.00
061-04-000-5850-0000-000	WATER - NEW EQUIPMENT	-6,429.80	10,000.00	10,000.00	-6,429.80	3,570.20	64.30
061-04-000-5910-0000-000	WATER - LT DEBT SERVICE - MWPAT - E	-37,210.00	37,210.00	37,210.00	-37,210.00	0.00	100.00
061-04-000-5910-0001-000	WATER - LT DEBT SERVICE - MWPAT EA	-53,007.31	53,008.00	53,008.00	-53,007.31	0.69	100.00
061-04-000-5920-0000-000	WATER - LT INTEREST - MWPAT - EAST	-2,767.98	5,163.86	5,163.86	-2,767.98	2,395.88	53.60
061-04-000-5920-0001-000	WATER - LT INTEREST - MWPAT - EAST	-4,552.87	8,575.67	8,575.67	-4,552.87	4,022.80	53.09
061-04-000-5925-0000-000	WATER-INT ON ST LOANS/ISSUANCE CO	0.00	23,300.27	23,300.27	0.00	23,300.27	0.00
061-04-400-5805-2018-000	WATER ENT- A14 ATM05/07/17 MEADOW	-8,453.32	198,400.00	198,400.00	-8,453.32	189,946.68	4.26
061-04-400-5895-2018-000	WATER ENT- A14 ATM05/07/17 MAIN LIN	0.00	60,000.00	60,000.00	0.00	60,000.00	0.00
061-04-400-5902-2018-000	WATER ENT- MAIN ST CLEANING	0.00	50,000.00	50,000.00	0.00	50,000.00	0.00
061-04-500-5245-2006-000	STORAGE TANK MAINT FUND ATM 5/06 A	-8,685.00	13,883.40	13,883.40	-8,685.00	5,198.40	62.56
061-04-500-5640-0000-100	WATER OPER 000 PRIOR YEAR ENCUMB	-5,815.48	0.00	11,611.30	-5,815.48	5,795.82	50.08
061-04-500-5803-2019-000	WATER-ATM 05/01/18 ART8 GENERATOR	0.00	30,000.00	30,000.00	0.00	30,000.00	0.00
061-04-500-5804-2016-251	WATER-A28ATM5/15 - WITCHS BROOK R	0.00	40,000.00	40,000.00	0.00	40,000.00	0.00
061-04-500-5806-2020-320	ATM 05/07/19 ART 9 1TON DUMP TRUCK	0.00	50,000.00	50,000.00	0.00	50,000.00	0.00
061-04-500-5809-2017-002	WATER-A18ATM5/3/16-HIGHLAND ST ST	0.00	75,000.00	75,000.00	0.00	75,000.00	0.00
061-04-500-5902-2018-000	WATER-STM 05/01/18 ART 3 UTILITY BILL	0.00	18,000.00	18,000.00	0.00	18,000.00	0.00
Total Group 3: Expenses		-204,310.39	982,941.20	974,552.50	-204,310.39	770,242.11	20.96
		-311,652.44	1,556,259.84	1,567,871.14	-311,652.44	1,256,218.70	19.88
Total Group 1: Segment 1: Fund	Code: 061 - Water Enterprise	-311,652.44	1,556,259.84	1,567,871.14	-311,652.44	1,256,218.70	19.88

Group as: 111-**-***-****-****-***

Parameters: Fiscal Year: 2020 Start Date: 7/1/2019 end: 6/30/2020 Active Accounts Only

Town of

Expense Control Report - Expenditure Ledger

Account Number		Curr. Month Total Expended	Original Budget	YTD Adjusted Budget	YTD Actual Expended	YTD Unexpended Balance	% Var.
Group 1: Segment 1: Fund		Code: 063 - Water Enterprise-Main St. Water Main Project					
Expenses							
063-04-400-5895-0000-000	WATER ENT-INFRASTRUCTURE IMPROV	-330,156.47	0.00	0.00	-330,156.47	-330,156.47	0.00
Total Group 3: Expenses		-330,156.47	0.00	0.00	-330,156.47	-330,156.47	n/a
		-330,156.47	0.00	0.00	-330,156.47	-330,156.47	n/a
Total Group 1: Segment 1: Fund		-330,156.47	0.00	0.00	-330,156.47	-330,156.47	n/a
56 Account(s) totaling:		-641,808.91	1,556,259.84	1,567,871.14	-641,808.91	926,062.23	40.94