

**BUCKSPORT INFRASTRUCTURE & PROPERTY COMMITTEE
MEETING
5:30 P.M., THURSDAY, NOVEMBER 14, 2019
BUCKSPORT TOWN OFFICE**

- 1. Call meeting to order**
- 2. Roll Call**
- 3. Solar Committee Discussion**
- 4. Waterfront Trailer Bids**
- 5. Wastewater Alarm System – Safety Committee Recommendation**
- 6. Ice Rink Proposal**
- 7. Radio System Replacement – Police**
- 8. Programmable Thermostat Proposal – Town Office – Code Officer**
- 9. Restroom fixture replacement – Town Office – water saving measure – Code Officer**
- 10. Miles Lane (undeveloped portion)**
- 11. Adjournment**

Committee Members:

Robert Carmichael, Jr., Chair
Paul Bissonnette
Paul Gauvin

3

Susan Lessard, Town Manager
Members of the Town Council

Please consider this my letter of interest to participate on the Subcommittee being formed to consider solar energy options for the former Town landfill. I encourage Bucksport to move in this direction and would be glad to participate.

Don White
88 Town Farm Rd
Bucksport. 04416

469-2066

John M. Eggebrecht
11 Federal Street
Bucksport, Maine 04416
718-614-1048 (cell)
johnneggebrecht@gmail.com (email)

Research and Teaching Experience

2017 - 2018	AP Physics Item Writer, MacMillan
2016 - 2017	AP Biology Item Writer, OpenStax
2011 - 2016	Physics Teacher, Brooklyn Technical High School
2010 - 2011	Mathematics Teacher, Columbia Secondary School
2006 - 2010	Director, Advanced Placement Science, The College Board
2003 - 2006	Visiting Research Fellow, Fermi National Accelerator Laboratory
2000 - 2006	Physics Teacher and Curriculum Developer, Illinois Virtual High School
1992 - 2006	Science Teacher, Illinois Mathematics and Science Academy
1990 - 2000	Visiting Research Scientist, Argonne National Laboratory
1985 - 1992	Assistant Professor of Chemical Engineering, Iowa State University

Particular Teaching Experiences

Developed and taught integrated science program at the Illinois Mathematics and Science Academy
Physics and chemistry instruction at the Illinois Mathematics and Science Academy and Illinois Virtual High School
AP-C Physics program ranked first in the world by the College Board in 2006 and 2007
AP 1, AP 2, and New York State Regents Physics
Project Lead the Way Principles of Engineering

Particular Research and Technology Experiences

Professional development for physics teachers in NSF-funded Math-Science Partnership
Physics and material science research focusing on atomic-scale behavior of disordered condensed phases
Computer programming and visualization tools applied in research and in the development of learning environments including web sites and CDs.

Particular Instructional Leadership Experiences

High School Science Committee, American Association of Physics Teachers
Directed the redesign of the Advanced Placement Science program
Established the Smithsonian Secondary Science Network for collaborative work with teachers in Illinois for the development of inquiry-based science programs.

Recent Publications and Presentations:

Conquering AP Biology with OpenStax: Beyond the Textbook, Paper presented at the Advanced Placement Annual Conference, Washington, DC, 2017
Preparing for the Transition to AP 1 and AP 2. Paper presented at the Annual Meeting of the American Association of Physics Teachers, College Park, MD, 2015
Disposed and Indisposed to Inquiry: Student and Teacher Beliefs About Learning. Paper presented at the Annual Meeting of the American Association of Physics Teachers, Philadelphia, PA, 2012
Defining Secondary Science Through Advanced Placement Redesign. Paper presented at the Annual Meeting of the American Association for the Advancement of Science, Boston, MA, 2008
Redesigned Advanced Placement Science Courses. Paper presented at the Annual Meeting of the National Science Teachers Association, Boston, MA, 2007
Integrating Secondary School Math and Science. Paper presented at the Annual Meeting of the National Science Teachers Association, Orlando, FL and Annual Meeting of the National Council of Teachers of Mathematics, Chicago, IL, 2005
Kablinksi, P., Eggebrecht, J., Wolf, D., and Phillpot, S., *Molecular Dynamics Studies of Screening in Ionic Systems*, Journal of Chemical Physics, 113, 282-291, 2000
Wolf, D., Kablinksi, P., Phillpot, S., and Eggebrecht, J., *An Exact Method for the Simulation of Coulombic Systems by Direct Pairwise 1/r Summation*, Journal of Chemical Physics, 110, 8254-8282., 1999
Eggebrecht, J., Dagenais, R., Dosch, D., Merczak, N., Park, M., Styer, S., and Workman, D., *Reconnecting the sciences*. Educational Leadership, 53, 4-8, 1996

Educational Background:

Ph.D.	1987	Engineering	Cornell University
M.S.	1980	Chemistry	University of Maine
B.S.	1978	Biology	University of Maine

References Available on Request

4

TO: Susan Lessard
FR: Richard Rotella
DA: November 12, 2019
RE: Trailer for waterfront storage

Good afternoon. Included in this packet please find 3 quotes for trailers to replace the shed that is located on the waterfront. Currently, the shed that we have is set in place and doesn't have enough space to hold all of our equipment. We have equipment in this shed, at the CSO building, and in a trailer at the Town Garage which typically holds the hay. The trailer that gets chosen will be able to hold all of our equipment in one space and will be able to easily be transported to the waterfront during the working season and to the Town Garage during the off season. **My recommendation is to go with the 2019 Covered Wagon 8.5'x22' offered by Scott's Recreation of Manchester, Maine.** Here are the corresponding bids:

Trailside Performance (Newport): 2019 High Country 8.5'x22': Sale Price \$13,499

Scott's Recreation (Manchester): 2019 Black Covered Wagon 8.5'x22': Sale Price \$7,299

Harvey Trailer (Bangor): 2019 White Enclosed Trailer 8.5'x24': Sale Price \$9,795 which has recently been sold. They have no other 8.5'x22' or 8.5'x24' in stock.

TBA (Bangor): Had no 8.5'x22' or 8.5'x24' in stock.

Maine Trailer (Hampden): Had no 8.5'x22' or 8.5'x24' in stock.

The plan with the existing building is to move it to the Town Garage for storage of some of their lawn equipment

Thank you for your consideration.

①

TRAILSIDE *Performance*

Winslow: (207) 873-2366 Newport: (207) 368-2220

HCH 8.5X22 All Sport

2019 HIGH COUNTRY 8.5'X22' ALL SPORT CAR HAULER WITH UPGRADES!

This trailer can haul all your toys! Snowmobiles, ATV'S, sidexsides, cars and more!! This trailer is a MUST SEE!

- All Aluminum Integrated Frame
- Tandem 3500LB Dexter torsion axles
- 15" Aluminum wheels
- 89"x81" Rear Door opening
- Front and rear ramp with spring assist
- (2) Side access door W/Fold Down aluminum steps
- White Luan Walls and Ceiling
- 62"x18"x12" Overhead Cabinet
- Fully outfitted with track mats and ski guides
- Crank Roof vent
- Drive over fenders
- Fuel door

Many more features included!!

SALE PRICE \$13,499
FINANCING AVAILABLE
TRADES WELCOME!

Trailside Newport
276 Mooshead Trail
Newport ME
207-368-2220

2

746 Western Ave - Rte 202
Manchester, ME 04350
<http://www.scottsrecreation.com/>

Scott's
RECREATION

2019 COVERED WAGON TRAILERS 8.5X22 W/EXTRA HEIGHT SELLING PRICE - \$7,299.00

12" Extra Height. Perfect for Two UTV's. 3.99% APR Financing Available. Stock pics shown.



INFORMATION

2019 Covered Wagon 8.5x22

Black

Options added include:

12" Additional Height

(6) 5,000 D-Rings

Screwless Exterior

List Price-\$7,999

Sale Price-\$7,299

3.99% APR for 24 months.

5.99% APR for 60 or 72 months.

No money down financing available to qualified applicants.

Scott's Recreation

746 Western Avenue RT 202

Manchester, Maine 04351

2

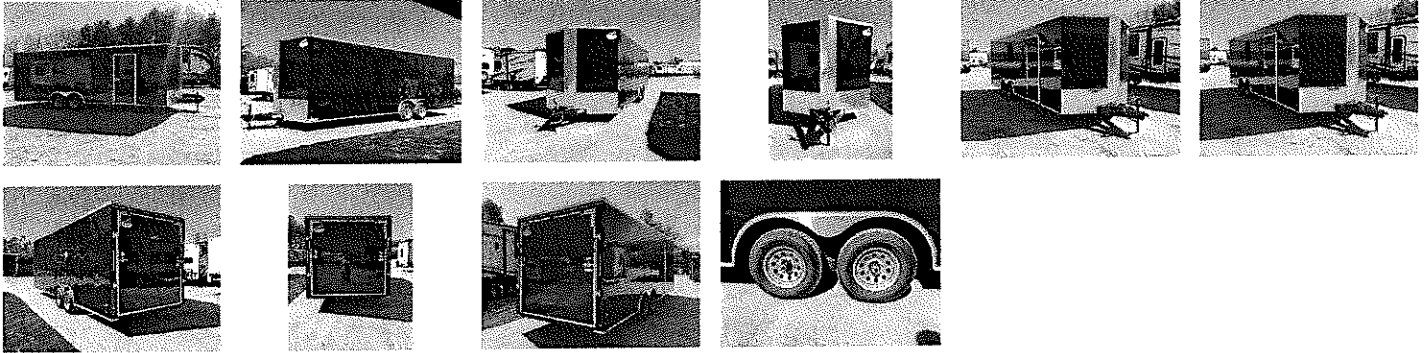
(207)622-0672

M-F 8-5

Sat 8-3

Stock#

PHOTOS



HIGHLIGHTS

- Retail Price \$7,999.00
- Sale Price \$7,299.00
- Location Manchester
- Condition New
- Stock Number SM2191
- Year 2019
- Make Covered Wagon Trailers
- Model 8.5x22 w/Extra Height
- Color Black
- Fuel Type None
- Status Available

SPECIFICATIONS

③

Harvey Trailers
\$9795

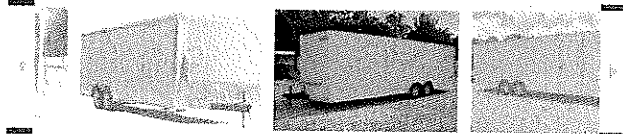
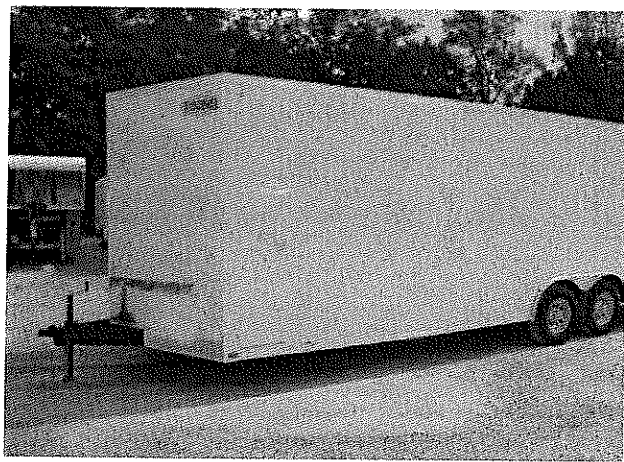
9 2230 Broadway, Bangor, ME 04401

(207) 942-5081

[HOME](#) / [INVENTORY](#) / [ITEM](#)

Sold! No other 8.5x24 or 8.5x22 in stock.

Call (800) 532-5081 For More Information



Cargo Express XLW 8.5 X 24 W/Ramp

TM-533CTER2747009514

Call for Quote

(800) 532-5081

Harvey Trailers

**REQUEST/CONFIRM
LOWEST PRICE**

GET FINANCING



GET DIRECTIONS

www.harveytrailers.com

[OVERVIEW](#)

[FINANCING](#)

Cargo Express XLW 8.5 X 24 W/Ramp

Standard Features

- "One Main Frame Construction"
- 16" O.C. Frame
- 16" O.C. Sidewalls
- 16" O.C. Roof Bows
- Spring Axles
- EZ-Lube Hubs
- 1.5" Radial Tires
- 3-5/16" Coupler
- Safety Chains
- 2000# Tongue Jack
- Sand Pad
- 3/4" High Performance Floor
- High Performance Wall Liner

Availability:	In Stock
Axle Config:	Tandem
Max Payload:	3840 lbs.
External Height:	7'0"
External Width:	8.5'
External Length:	24'
Weight:	3100
Hitch Type:	Bumper Pull
Category:	Cargo/Enclosed Trailers
Year:	2019
Condition:	New
Material:	Steel/Aluminum
Open/Enclosed:	Enclosed
Rear Type:	Ramp
Warranty:	Factory Warranty Included
GVWR:	7000
Capacity:	18/40

- Radius Front (Round Top Only)
- TPO Cap (Round Top Only)
- 350 Top Wrap (Round Top Only)
- Aluminum Exterior
- 1 Piece Aluminum Roof
- ATP Fender Flares
- 24" Stoneguard
- Ramp Door w/ Ramp Extension
- 36" Entry Door w/ Flushlock
- (2) Sidewall Vents
- 7-Way Plug
- LED Clearance & Tail Lights
- (2) Dome Lights w/ Switch
- Perforated Step
- Reverted
- 14) 5000# Recessed Bolted D-Rings
- Moisture Barrier (IN & OUT)
- Automotive Undercoating
- Limited 3 Year Warranty

Additional options may be available, contact store for details.

Photo used for illustrative purposes and may not be an exact representation of actual trailer on lot.

REQUEST/CONFIRM LOWEST PRICE

LET US HELP

You count on your trailers to get work done, and you can count on us too. Give us a call or send us a note and we will do everything we can to help.

First Name

Last Name

Phone Number

Email Address

CONTACT DEALER

Call today: (207) 942-5081

Harvey Trailers

2250 Broadway
Bangor, ME 04401

(207) 942-5081

sales@harveytrailers.com

[Facebook](#)

- Mo: 8:00 AM - 5:00 PM
- Tu: 8:00 AM - 5:00 PM
- We: 8:00 AM - 5:00 PM
- Th: 8:00 AM - 5:00 PM
- Fr: 8:00 AM - 5:00 PM
- Sa: 8:00 AM - 5:00 PM
- Su: Closed

Big Tex Trailers

Aluma

R-Vette Trailers

Belmont Trailers

Int'l Mar

Corpo Express

K-Ford Trailers

Kendon

W Trailers

Tru-Tr

SEMI TRAILERS

FINANCING

CUSTOM TRAILERS

RESOURCES

Buying Guide

Privacy Policy

DRAFT Safety Committee Minutes

May 29, 2019

10 AM

Town Office

- I. Call meeting to order
 - a. Sean called the meeting to order at 10:02 am
- II. Roll Call
 - a. Present: Jay L, Jamie B, Sean G, Rich R, Jeff H, Chris C, Chris G and Dave M
- III. Review Previous Minutes
 - a. Jeff made a request a change to an error in the meetings listed as Jeff Jay to be listed as Jay. Chris Connor accepted the minutes with the change, Jay second. Motion passed 7 yay 0 nay 1 abstain. Rich abstains as Secretary.
- IV. SHAPE Update (Chris Connor)
 - a. Department of Labor (DOL) was here for 2 days to review safety policies of the Town and they were less than impressed at where things were for this year.
 - b. Concerns:
 - i. Top Concern was Hazard Communications and the lack of SDS sheets. Chris suggested if we don't use a chemical any longer to throw it away.
 - ii. They questioned "why don't we discuss employee injuries at our meetings so the injuries can be prevented in the future?"
 - c. Committee Comments:
 - i. Jay said we should pursue having a Town Safety Officer who can oversee every department's safety procedures and hazard communication.
 - ii. Chris Grindle says that Maine Maritime Academy has a compliance Officer and we should reach out to Mayor Stewart to how that works for them.
 - iii. Sean asked if training was needed for someone to check fire extinguishers monthly. Chris replied no only yearly and that Guay Fire does that for us.
- V. Gas Detection System Update (Jamie Bowden)
 - a. Jamie handed out quotes from 3 parties for the addition of a gas detection alarm system. He noted last weekend the system alarmed on Saturday morning and there was an issue but it went nowhere because the alarm isn't installed and they had no prior warning. The quote is \$17,000 to have the work done for the internal equipment, paging and outside alarm system which needs to be wired into the PLC. Jaime made a motion and Chris C. seconded a recommendation to bring this to Sue to forward to the Town Council. Motion passed 8-0.
- VI. Playground Inspection Update (Rich Rotella)

- a. Rich met with Dan Whittier from MMA and had 1 recommendation and 3 lower priority items and he shared the email with the group. The recommendation was the play surface material. The 3 other items were signage showing the age appropriateness of the playground, fall heights for a 2'x2' area needed to be less than 10' which will be accomplished when adding new play surface material, and entanglement hazard of one of the apparatus which is the metal net that gets climbed. Dave made a motion to purchase the same play surface material that was previously used by the rec director that came from the mill in Costigan, Jay seconded the motion. Motion passed 8-0.

VII. US Route 1 Fence Update (Rich Rotella)

- a. The new fence will be installed by Superior Fence on June 4th.

VIII. Any new safety concerns of note to be reported to the town

- a. Jeff noted the door at the CSO building closest to the Veterans Memorial was left ajar and that there was a lawn mower in the building. Jaime said the hinges are falling off that door and need to be fixed. Rich advised that the waterfront crew would fix the door hinge and remind the staff to keep the door closed.
- b. Rich suggested the committee visit the fishing pier and waterfront walkway for their next tour.
- c. Jaime suggested the town look at adding dockage at Silver Lake dock due to too many people fishing off the dock with potential for an accident to happen.
- d. Sean said that the new cross walk signs are in and need to be installed at the crosswalk by Port O' Call as that is the only legal crosswalk in downtown.

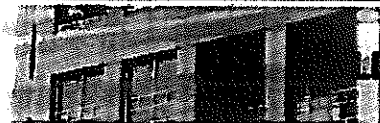
IX. Schedule Next Meeting

- a. June 26, 2019 at 10am

X. Adjournment

- a. Rich made a motion to adjourn at 11:16am with a second from Jay. Motion passed 8-0.

5



LET'S GO BEYOND™

\$17,065

Trane U.S. Inc. dba Trane
860 Spring Street, Unit 1
Westbrook, ME 04092
Phone: (207) 828-1777
Fax: (207) 828-1511

May 7, 2019

Dave Michaud
Bucksport Town of
50 Main Street
BUCKSPORT, ME 04416

Site Address:
Bucksport Wastewater Treatment Plant
205 US Rt 1
BUCKSPORT, ME 04416
United States

ATTENTION: Dave Michaud

PROJECT NAME: Bucksport WWTP Alarm Coordination

We are pleased to offer you this proposal for performance of the following services for the Equipment listed. Services will be performed using Trane's Exclusive Service Procedure to ensure you get full benefit of our extensive service experience, coupled with the distinct technical expertise of an HVAC Equipment manufacturing leader. Our innovative procedure is environmentally and safety conscious, and aligns expectation of work scope while providing efficient and productive delivery of services.

EQUIPMENT LIST

Equipment	Qty	Manufacturer	Model Number	Serial Number	Asset Tag
Tracer SC	1	Trane	BMSC000AAA	E16D84666	

SCOPE OF SERVICE

Trane will provide labor to provide the following scope of work:

- Provide Guidance for Wiring and Termination
- Provide Guidance for Install of (3) Strobes
- Wire Each Strobe to Accompanying UC600
- Program Strobe to Fail Close
- Wire Points from SCADA Panel to Tracer SC Panel
- Integrate New Points to Front End
- Point to Point Verification
- Create (3) Points/Alarms
 - General BAS
 - Gas Meter Alarm for Headworks Alarms
 - Gas Meter Alarm from Blower/Pump Room Building
- Program Alarms
- Check Operation on UC600 Displays
- Check Operation at BAS Front End
- Testing in Conjunction with the SCADA Programmers

SERVICE FLOWS

Trane will provide (3) strobes and (3) relays.

Trane is not responsible for any electrical work or the install of the (3) strobes.

PRICING AND ACCEPTANCE

TOTAL PRICE:.....7,600.00 USD

CLARIFICATIONS

1. Applicable taxes are not included and will be added to the invoice.
2. Any service not listed is not included.
3. Work will be performed during normal Trane business hours.
4. This proposal is valid for 30 days from May 7, 2019.

I appreciate the opportunity to earn your business, and look forward to helping you with all of your service needs. Please contact me if you have any questions or concerns.

Sincerely,
Gordon Webb
Account Manager
Cell: (207) 730-9845

In addition to any other amounts then due hereunder, if this Agreement is terminated or cancelled prior to its scheduled expiration, Customer shall pay to Company the balance of any amounts billed to but unpaid by Customer and, if a "Service Project" is included in the Agreement, the Cancellation Fee set forth in "Exhibit A" Cancellation Schedule attached hereto and incorporated herein, which Cancellation Fee represents unbilled labor, non-labor expenses and parts materials and components. Subject only to a prior written agreement signed by Trane, payment is due upon receipt of invoice in accordance with Section 6 of the attached Terms and Conditions – Quoted Service.

This agreement is subject to Customer's acceptance of the attached Trane Terms and Conditions – Quoted Service.

CUSTOMER ACCEPTANCE

Authorized Representative

Printed Name

Title

Purchase Order

Acceptance Date



Rick Roy
449 Levenseller Road
Holden, ME 04429
Phone (207) 843-5019
Cell (207) 852-0307

Quote

Olver Associates
P.O. Box 679
290 Main Street
Winterport, ME 04496
ATTN: Eric Hardy
RE: Bucksport WWT

Quote # WQ19010
Date: 05/15/19

Description of work:

BWWT Control Room

- (1) Install 5' of 1/2 EMT conduit from Trane Panel to SCADA panel
- (2) Install and connect advised wiring between panels
- (3) Test communication points with Trane Programmer

Blower Building

- (1) Install 80' of 1/2 EMT conduit from power panel to the Trane control panel
- (2) Install Trane's supplied RIB relay to control panel and strobe light above exterior door

- (3) Install 120VAC circuit from power panel and connect advised output channel from Trane panel to Rib relay
- (4) Test alarm points and strobe functions with Trane programmer

Headworks Building

Chlorine Room

- (1) Install 20' of 1/2 EMT conduit from power panel to the Trane control panel
- (2) Install Trane's supplied RIB relay to control panel and strobe light above exterior door
- (3) Install 120VAC circuit from power panel and connect advised output channel from Trane panel to Rib relay
- (4) Test alarm points and strobe functions with Trane programmer

MCC Room

- (1) Install 50' of 1/2 EMT conduit from power panel to the Trane control panel
- (2) Install Trane's supplied RIB relay to control panel and strobe light above exterior door
- (3) Install 120VAC circuit from power panel and connect advised output channel from Trane panel to Rib relay
- (4) Test alarm points and strobe functions with Trane programmer

Quote includes:

All work to be performed within the 2017 National Electrical Code and in a neat and workmanship manner
Any work requested in addition to the above descriptions will be done on a time and material basis.

Total Price of Labor and Materials	\$8,965.00
---	-------------------

Sincerely,

Rick Roy - President
Wired Electrical Services, Inc.

6



Lessard, Susan <slessard@bucksportmaine.gov>

Ice rink request

3 messages

Nick Tymoczko <ntymoczko@defymca.org>

Thu, Nov 7, 2019 at 11:03 AM

To: "Lessard, Susan" <slessard@bucksportmaine.gov>, Peter Farragher <pfarragher@defymca.org>

Hello Susan!

Advisory has approved a proposal which we would like to bring to town council on the 14th.

The Recreation Advisory Board is recommending that the ice skating rink footprint is reduced in size to 85'x100' which is 100' shorter than the current structure. This will allow for better ice conditions more consistently. The break-down in cost is:

- \$120 for plywood
- \$275 Support Bracketts
- \$2300 Liner (2 year lifespan)
- \$284 rink resurfacers
- Labor provided by YMCA staff

Total Request: \$2,979

Please let me know if I can make a presentation on the 14th or if you need any additional information. Thank you for all you do Susan! ❄️

Nick Tymoczko**Operations Director**

Bucksport Branch, Down East Family YMCA

66 Bridge Street

Bucksport, ME 04416

O: (207) 469-3518 **C:** (207) 299-8747<http://www.defymca.org/bucksport/>**The Y: We're for youth development, healthy living and social responsibility.**

Lessard, Susan <slessard@bucksportmaine.gov>

Tue, Nov 12, 2019 at 8:38 AM

To: Nick Tymoczko <ntymoczko@defymca.org>

Cc: Peter Farragher <pfarragher@defymca.org>

You can make a presentation on the 14th to the Infrastructure Committee - meeting at 530 and then will have a resolve for it on the council agenda at 7.

Sue

Susan Lessard | Town Manager

Town of Bucksport, Maine | Incorporated June 25, 1792

50 Main Street | P.O. Drawer X | Bucksport, Maine 04416

207.469.7368, ext. 226 (office) | 207.469.7369 (fax)

slessard@bucksportmaine.gov | www.bucksportmaine.gov

Under Maine's Freedom of Access law, all email and email attachments received or prepared for matters concerning Town business are likely to be regarded as public records which may be inspected by any person upon request, unless otherwise made confidential by law. If you have received this message in error, please notify this office immediately by return email. Thank you in advance for your cooperation.

[Quoted text hidden]

Quote Valid For 60 Days

**Brown's Communications
162 Bangor Rd. Suite B
Ellsworth Maine
04605**

Bucksport Police Dept.
Attn: Sean Geagan

November 12, 2019

VHF Repeater

Motorola XPR8000 VHF Repeater, 100 Watt	\$6,754.80*
---	-------------

*Includes programming, configuration, and testing prior to delivery.

Adapter, BNC-Male / N-Female	\$12.00
------------------------------	---------

Installation / Test 1 man x 1.5 hour	\$108.00
--------------------------------------	----------

Shipping	\$21.00
----------	---------

Travel	\$70.50
--------	---------

Total for job	\$6,966.30
---------------	------------

Quote Valid For 60 Days

Quote Valid For 60 Days

CC: BCI / Jim Cormier

Quote Valid For 60 Days

Robertson's Plumbing & Heating
354 Upper Dedham Rd.
Dedham, ME 04429
(207)2996913
robertsonsplh@gmail.com

QUOTE

TO: Town of Bucksport 50 Main st. Bucksport ME. 04416	Date: 10-28-2019
Scope of Work: Replace thermostats in town office to programmable type	

Materials:

13- 7-day programmable thermostats	\$	1,050.00
	tax	57.75
8 hours labor	labor	480.00
	total	1,587.75

All work to be performed is in accordance with State Of Maine codes governing plumbing and heating installation, operations, and regulations. All materials are guaranteed to be specified and the above work to be performed in accordance with any drawings and specifications as submitted and completed in a timely manner. Any alterations or changes from the above specifications involving extra costs will become an extra charge over the initial quote proposal.

Robertson's Plumbing & Heating is an insured, liability company. All quotes, prices of materials etc., are good for 30 days.

Robertson's Plumbing & Heating

Date

Signature approves quoted above price for materials, labor and specifications. You are authorizing work to be completed with payments due with 1/3 down on acceptance of contract \$, 1/3 on start of work \$, and final 1/3 on completion\$.

Occupancy Type	Employees (FTE)	Guests
Total	9	20
Male	3	10
Female	6	10

TOTAL WATER USED ANNUALLY		Current	Proposed	Savings
		28,080	11,296	16,784

Percent of males expected to use restrooms with urinals	100%
---	------

Annual days of operation	208
--------------------------	-----

Fixture Information			Flush Rate		Percent of Occupants (%)	Uses per Day		Total Daily Uses	Total Daily Water Use	
Fixture ID	Fixture Family	Fixture Type	Baseline Flush Rate (lpi)	Design Flush Rate (lpi)		Employees (FTE)	Guests			
TLT 1	Toilet (male)	Conventional Water Closet	3.00	1.28	100	1,000	0.100	4,000	Baseline (gallons)	Design (gallons)
TLT 2	Toilet (female)	Conventional Water Closet	2.50	1.28	100	3,000	0.500	23,000	12,000	57,500
UR-1	Urinal	Conventional Urinal	1.00	0.125	100	2,000	0.400	10,000	57,500	29,440
								10,000	10,000	1,250
Baseline case annual flush volume (gallons/year)					16,536.00					
Design case annual flush volume (gallons/year)					7,448.48					

Fixture Information		Duration (sec)	Flow Rate		Percent of Occupants (%)	Uses per Day		Total Daily Uses	Total Daily Water Use	
Fixture ID	Fixture Type		Baseline Flow Rate (gpm)	Design Flow Rate (gpm/gpc)		Employees (FTE)	Guests			
LAV-1	Public lavatory (restroom) faucet	15	1.50	0.5	100	3,000	0.500	37,000	55,500	18,500
Baseline case annual flow volume (gallons/year)										
Design case annual flow volume (gallons/year)										