

Region: 2

Location: NY067

CSS #: 34110

Maximo Work Order No.: 15899

Asset #: NA

Date Issued: 1/13/22

Original Description: Repair hydronic heating loop leaks in OMS. They are small drip leaks from several nut unions. Also there are some air bleeder valves that have rusted over and are not venting air.

Repairs Needed:

TWI proposes labor and materials to replace all leaking nut unions, expansion tank, and air vents. Cut out all nut unions and replace piping to the unions and install new. Remove old expansion tank and piping and install new, and repair piping where air is getting into hydronic loop.

RS Means Line Buildup and Labor Summary (Data Version 2017, Q4):

Quantity	Line Item Number	Description	Labor Hours	Labor Rate/Hr	Materials	Equipment	Total
--	NA	Materials (see attached detail)	--	--	\$3,827.59	--	\$3,827.59
--	NA	TW Labor (includes diagnostic)	20	\$80.00	--	--	\$1,600.00

Estimate Summary:

Labor Hours	Labor Cost	Material Cost	Equipment	Total Cost	CE Factor	Total Estimate
20	\$1,600.00	\$3,827.59		\$5,427.59	90%	\$4,884.83



WORK ESTIMATE

CSS #: 34110

Work Order #: 15899

Emergency ☒

Urgent ☐

Routine ☐

Company Name:	Tidewater, Inc.	Facility ID:	NY067
Contractor POC:	Adam Colopy		
Telephone No:	740-819-6207	Building/Location; (e.g., Classroom/Room #)	
E-Mail Address:	adam.colopy@tideh2o.net		
Assigned Technician(s):	Patrick Brown		





DESCRIPTION of WORK and EXPLANATION for REPAIRS or REPLACEMENT

Labor and materials to replace all leaking nut unions, expansion tank, and air vents. Cut out all nut unions and replace piping to the unions and install new. Remove old expansion tank and piping and install new, and repair piping where air is getting into hydronic loop.

LABOR/MATERIAL		MATERIAL/ SUB UNIT DOLLAR AMOUNT	LBR/HR \$80	LINE ITEM TOTAL DOLLAR AMOUNT	
ITEM	QUANTITY				
Diagostic			4	\$320.00	
Materials (see attached detail)	1	\$3,827.59		\$3,827.59	
Labor			16	\$1,280.00	
SUB-TOTAL COSTS:		Materials Total	\$3,827.59	Labor	\$1,600.00
TOTAL			\$5,427.59		



Cart

Item	Quantity	Total Price	Item Availability
 VIEGA PROPRESS Low Lead Bronze Di-electric Union, Press x FPT Connection Type, 1 in x 1 in Tube Size Item #5ULZ8 Your Price: \$72.34	2	\$144.68	Expected to arrive Fri. Jan 14 using standard ground shipping (additional shipping options available at Checkout.)
 VIEGA PROPRESS Low Lead Bronze Di-electric Union, Press x FPT Connection Type, 1-1/4 in x 1-1/4 in Tube Size Item #5ULZ9 Your Price: \$89.19	2	\$178.38	Expected to arrive Fri. Jan 14 using standard ground shipping (additional shipping options available at Checkout.)
 VIEGA PROPRESS Low Lead Bronze Di-electric Union, Press x FPT Connection Type, 1-1/2 in x 1-1/2 in Tube Size Item #5UMA0 Your Price: \$89.67	2	\$179.34	Expected to arrive Fri. Jan 14 using standard ground shipping (additional shipping options available at Checkout.)
 VIEGA PROPRESS Low Lead Bronze Di-electric Union, Press x FPT Connection Type, 2 in x 2 in Tube Size Item #5UMA1 Your Price: \$148.30	2	\$296.60	Expected to arrive Fri. Jan 14 using standard ground shipping (additional shipping options available at Checkout.)



WATTS 1 1/4 in Vent Dia. Brass Automatic Vent Valve, 1/8 in Inlet Size

Item #4A820

Your Price: **\$11.64**

4

\$46.56

Expected to arrive **Fri. Jan 14** using standard ground shipping (additional shipping options available at Checkout.)



WATTS 1 1/4 in Vent Dia. Brass Automatic Vent Valve, 1/4 in Inlet Size

Item #4A821

Your Price: **\$11.21**

4

\$44.84

Expected to arrive **Fri. Jan 14** using standard ground shipping (additional shipping options available at Checkout.)



GRAINGER APPROVED 3/4" Brass Boiler Drain Valve, MNPT x MGHT

Item #46A973

Your Price: **\$17.81**

4

\$71.24

Expected to arrive **Fri. Jan 14** using standard ground shipping (additional shipping options available at Checkout.)



GRAINGER APPROVED Garden Hose Cap, Material Brass, For Hose I.D. 3/4 in

Item #20XP93

Your Price: **\$3.32**

8

\$26.56

Expected to arrive **Fri. Jan 14** using standard ground shipping (additional shipping options available at Checkout.)



VIEGA PROPRESS Copper Tee,
Press x Press x Press Connection
Type, 1 in x 1 in x 3/4 in Tube Size
Item #1RRB1

2

\$37.56Your Price: **\$18.78**

Expected to arrive **Fri.**
Jan 14 using standard
ground shipping
(additional shipping
options available at
Checkout.)



VIEGA PROPRESS Copper Tee,
Press x Press x Press Connection
Type, 1-1/4 in x 1-1/4 in x 3/4 in Tube
Size

2

\$47.40

Item #1RRB7

Your Price: **\$23.70**

Expected to arrive **Fri.**
Jan 14 using standard
ground shipping
(additional shipping
options available at
Checkout.)



VIEGA PROPRESS Copper Tee,
Press x Press x Press Connection
Type, 1-1/2 in x 1-1/2 in x 3/4 in Tube
Size

2

\$95.04

Item #1RRC9

Your Price: **\$47.52**

Expected to arrive **Fri.**
Jan 14 using standard
ground shipping
(additional shipping
options available at
Checkout.)



VIEGA PROPRESS Copper 90 Degree
Elbow, Press x Press Connection
Type, 1 in x 1 in Tube Size

4

\$40.60

Item #48RH54

Your Price: **\$10.15**

Expected to arrive **Fri.**
Jan 14 using standard
ground shipping
(additional shipping
options available at
Checkout.)



VIEGA PROPRESS Copper 90 Degree
Elbow, Press x Press Connection
Type, 1-1/4 in x 1-1/4 in Tube Size

4

\$79.76

Item #48RH55

Your Price: **\$19.94**

Expected to arrive **Fri.**
Jan 14 using standard
ground shipping
(additional shipping
options available at
Checkout.)



VIEGA PROPRESS Copper 90 Degree
Elbow, Press x Press Connection
Type, 1-1/2 in x 1-1/2 in Tube Size
Item #48RH56
Your Price: **\$37.20**

4

\$148.80

Expected to arrive **Fri.**
Jan 14 using standard
ground shipping
(additional shipping
options available at
Checkout.)



VIEGA PROPRESS Low Lead Bronze
Adapter, Press x FPT Connection
Type, 3/4 in x 3/4 in Tube Size
Item #5UMD7
Your Price: **\$7.41**

4

\$29.64

Expected to arrive **Fri.**
Jan 14 using standard
ground shipping
(additional shipping
options available at
Checkout.)



VIEGA PROPRESS Copper Reducer,
Press Connection Type, 1-1/2 in x 1
in Tube Size
Item #1RPV7
Your Price: **\$39.43**

4

\$157.72

Expected to arrive **Mon.**
Jan 17 using standard
ground shipping
(additional shipping
options available at
Checkout.)



VIEGA PROPRESS Copper Reducer,
Press x Press Connection Type, 1-
1/2 in x 1-1/4 in Tube Size
Item #1RPV8
Your Price: **\$32.12**

4

\$128.48

Expected to arrive **Fri.**
Jan 14 using standard
ground shipping
(additional shipping
options available at
Checkout.)



VIEGA PROPRESS Copper Reducer,
Press x Press Connection Type, 1
1/2 in x 2 in Tube Size
Item #1RPW3
Your Price: **\$38.03**

4

\$152.12

Expected to arrive **Fri.
Jan 14** using standard
ground shipping
(additional shipping
options available at
Checkout.)



FLEXCON Expansion Tank, Tank
Type Pressurized
Item #2P670
Your Price: **\$202.98**

1

\$202.98

Expected to arrive **Fri.
Jan 14** using standard
ground shipping
(additional shipping
options available at
Checkout.)

This item can only be sent via ground shipping.



VIEGA PROPRESS Low Lead Bronze
Union, Press x Press Connection
Type, 1/2 in x 1/2 in Tube Size
Item #5ULZ0
Your Price: **\$25.28**

2

\$50.56

Expected to arrive **Fri.
Jan 14** using standard
ground shipping
(additional shipping
options available at
Checkout.)



VIEGA PROPRESS Copper 90 Degree
Elbow, Press x Press Connection
Type, 1/2 in x 1/2 in Tube Size
Item #1RPJ4
Your Price: **\$3.34**

2

\$6.68

Expected to arrive **Fri.
Jan 14** using standard
ground shipping
(additional shipping
options available at
Checkout.)



VIEGA PROPRESS Low Lead Bronze
Adapter, Press x MPT Connection
Type, 1/2 in x 1/2 in Tube Size
Item #5UMA7
Your Price: **\$3.84**

2

\$7.68

Expected to arrive **Fri.
Jan 14** using standard
ground shipping
(additional shipping
options available at
Checkout.)



GRAINGER APPROVED Nipple: Red
Brass, 1/8 in Nominal Pipe Size, 2
1/2 in Overall Lg, Threaded on Both
Ends, Schedule 40
Item #1VGG9
Your Price: **\$3.01**

1

\$3.01

Expected to arrive **Fri.
Jan 14** using standard
ground shipping
(additional shipping
options available at
Checkout.)



GRAINGER APPROVED Nipple: Red
Brass, 1/8 in Nominal Pipe Size, 3 in
Overall Lg, Threaded on Both Ends,
Schedule 40
Item #1VGH2
Your Price: **\$3.08**

1

\$3.08

Expected to arrive **Fri.
Jan 14** using standard
ground shipping
(additional shipping
options available at
Checkout.)



GRAINGER APPROVED Nipple: Red
Brass, 1/2 in Nominal Pipe Size, 2
1/2 in Overall Lg, Threaded on Both
Ends, Schedule 40
Item #1VGP9
Your Price: **\$5.83**

1

\$5.83

Expected to arrive **Fri.
Jan 14** using standard
ground shipping
(additional shipping
options available at
Checkout.)



GRAINGER APPROVED Nipple: Red Brass, 1/2 in Nominal Pipe Size, 3 in Overall Lg, Threaded on Both Ends, Schedule 40
Item #1VGR2
Your Price: **\$6.84**

1

\$6.84

Expected to arrive **Fri. Jan 14** using standard ground shipping (additional shipping options available at Checkout.)



GRAINGER APPROVED Nipple: Red Brass, 1/2 in Nominal Pipe Size, 3 1/2 in Overall Lg, Threaded on Both Ends, Schedule 40
Item #1VGR4
Your Price: **\$8.67**

1

\$8.67

Expected to arrive **Fri. Jan 14** using standard ground shipping (additional shipping options available at Checkout.)



GRAINGER APPROVED Nipple: Red Brass, 1/2 in Nominal Pipe Size, 4 in Overall Lg, Threaded on Both Ends, Schedule 40
Item #1VGR6
Your Price: **\$8.88**

1

\$8.88

Expected to arrive **Fri. Jan 14** using standard ground shipping (additional shipping options available at Checkout.)



GRAINGER APPROVED Nipple: Red Brass, 1/2 in Nominal Pipe Size, 5 in Overall Lg, Threaded on Both Ends, Schedule 40
Item #1VGR8
Your Price: **\$12.11**

1

\$12.11

Expected to arrive **Fri. Jan 14** using standard ground shipping (additional shipping options available at Checkout.)



GRAINGER APPROVED Nipple: Red Brass, 1/2 in Nominal Pipe Size, 6 in Overall Lg, Threaded on Both Ends, Schedule 40

Item #1VGT1

Your Price: **\$13.09**

1

\$13.09

Expected to arrive **Fri. Jan 14** using standard ground shipping (additional shipping options available at Checkout.)



GRAINGER APPROVED Tee: Red Brass, 1/2 in x 1/2 in x 1/2 in Pipe Size, Female NPT x Female NPT x Female NPT, Class 125

Item #1VEZ3

Your Price: **\$9.07**

1

\$9.07

Expected to arrive **Fri. Jan 14** using standard ground shipping (additional shipping options available at Checkout.)



VIEGA PROPRESS Copper Coupling No Stop, Press x Press Connection Type, 1/2 in x 1/2 in Tube Size

Item #1RPG9

Your Price: **\$6.90**

4

\$27.60

Expected to arrive **Fri. Jan 14** using standard ground shipping (additional shipping options available at Checkout.)



VIEGA PROPRESS Copper Reducer, FTG x Press Connection Type, 2 in x 1-1/2 in Tube Size

Item #1RPX9

Your Price: **\$25.15**

4

\$100.60

Expected to arrive **Fri. Jan 14** using standard ground shipping (additional shipping options available at Checkout.)



MUELLER INDUSTRIES 10 ft. Hard
Straight Copper Tubing, 5/8 in
Outside Dia., 0.5 in Inside Dia.
Item #4WTP2
Your Price: **\$44.88**

1

\$44.88

Expected to arrive **Fri.**
Jan 14 using standard
ground shipping
(additional shipping
options available at
Checkout.)



MUELLER INDUSTRIES 10 ft. Hard
Straight Copper Tubing, 1 1/8 in
Outside Dia., 1 in Inside Dia.
Item #4WTR2
Your Price: **\$109.39**

1

\$109.39

Expected to arrive **Fri.**
Jan 14 using standard
ground shipping
(additional shipping
options available at
Checkout.)



MUELLER INDUSTRIES 10 ft. Hard
Straight Copper Tubing, 1 3/8 in
Outside Dia., 1.25 in Inside Dia.
Item #4WTR5
Your Price: **\$135.62**

1

\$135.62

Expected to arrive **Mon.**
Jan 17 using standard
ground shipping
(additional shipping
options available at
Checkout.)



MUELLER INDUSTRIES 10 ft. Hard
Straight Copper Tubing, 1 5/8 in
Outside Dia., 1.5 in Inside Dia.
Item #4WTR8
Your Price: **\$183.04**

1

\$183.04

Expected to arrive **Fri.**
Jan 14 using standard
ground shipping
(additional shipping
options available at
Checkout.)













