Unitil - Northern Gas Meter Testing Cost Analysis

Cost Analysis

The 2014 cost for Northern to outsource the testing of the 1492 meters associated with its NH customers was \$31,598.36, or an average of \$21.18 per meter.

The total cost for the 3314 meters associated with Unitil's three gas companies was \$61,096.40, or \$18.44 per meter.

It is estimated that in order to bring the meter testing and servicing operation back inhouse, Unitil would need to hire two full-time employees and the annual cost with benefits would be:

2 Full Time Employees w/ Benefits	\$161,436
Utility Expenses	\$3,500
Tool Replacements	\$1,000
Total	\$165,936

The estimated annual cost of \$165,936 for two employees, utilities, and tools would result in the cost per meter test for the 3314 meters tested in 2014 to be \$50.07 per meter.

Additional consideration should be taken for the start-up costs that would be incurred and depreciated over time to facilitate a meter testing laboratory are as follows:

	Lo	ocation
Start-up Costs	Fitchburg	Portsmouth
Facility Estimate	\$399,367	\$974,436
Equipment Estimate	\$250,156	\$250,156
Total	\$649,523	\$1,224,592

Conclusion

Due to the estimated annual operating costs of \$161,436 exceeding the current annual expenditures of \$\$61,096.40 paid to vendors for performing testing, it is not economical at this time for Unitil to pursue establishing a gas meter testing facility.

Uı	nitil 2014 Meter Tes	st Cos	t Summary		
Description of Test/Repair	Size of Meter	Cost	per Test	Quantity	Test Cost
Class A Repair	Domestic	\$	22.25	315	\$ 7,008.75
Class A Repair	Class 400	\$	22.12	17	\$ 376.04
Class A Repair	Class 700	\$	58.79	0	\$ -
Class A Repair	Class 800/1000	\$	62.25	0	\$ -
Class A Repair	Rotary (all sizes)	\$	72.00	0	\$ -
Intest/Condemn; or Class B & C Test o	nly Domestic	\$	9.81	2413	\$ 23,671.53
Intest/Condemn; or Class B & C Test o	nly Class 400	\$	9.81	178	\$ 1,746.18
Intest/Condemn; or Class B & C Test o	nly Class 700 - 1000	\$	57.46	147	\$ 8,446.62
Intest/Condemn; or Class B & C Test o	nly Class 1400	\$	64.99	0	\$ -
Intest/Condemn; or Class B & C Test o	nly Class 2300	\$	70.32	0	\$ -
Intest/Condemn; or Class B & C Test o	nly Class 5000	\$	76.99	0	\$ -
Intest/Condemn; or Class B & C Test o	nly Rotary 1.5M - 7M	\$	69.86	231	\$ 16,137.66
Intest/Condemn; or Class B & C Test o	nly Rotary 11M	\$	72.53	11	\$ 797.83
Intest/Condemn; or Class B & C Test o	nly Rotary 16M	\$	75.19	2	\$ 150.38
Intest/Condemn; or Class B & C Test o	nly Rotary 23M	\$	80.53	0	\$ -
				3314	\$ 58,334.99
			Shipping	Expenses	\$ 2,761.41
				Total	\$ 61,096.40
	Shipping	_			
Diaphragm 0 - 500 CFH	88.2%	\$	2,435.61		
Diaphragm > 500 CFH	4.4%	\$	122.49		
Rotary	7.4%	\$	203.31		
	100.0%	\$	2,761.41		_
PUC Meter Group Classification	# of Meters	Tot	al Expense	Cost per Meter	4
Diaphragm 0 - 500 CFH	2923	\$	35,238.11	\$ 12.06	1
Diaphragm > 500 CFH	147	\$	8,569.11	\$ 58.29	1
- · ·	244	+		<u> </u>	-

\$

\$

244

3314

Rotary

Average Cost Per Meter

17,289.18 \$

\$

61,096.40

70.86

18.44

NU-NH 2014 Meter Test Cost Summary									
Description of Test/Repair	Size of Meter	Cos	t per Test	Quantity	T	est Cost			
Class A Repair	Domestic	\$	22.25	61	\$	1,357.25			
Class A Repair	Class 400	\$	22.12	5	\$	110.60			
Class A Repair	Class 700	\$	58.79	0	\$	-			
Class A Repair	Class 800/1000	\$	62.25	0	\$	-			
Class A Repair	Rotary (all sizes)	\$	72.00	0	\$				
Intest/Condemn; or Class B & C Test only	Domestic	\$	9.81	1058	\$ 1	10,378.98			
Intest/Condemn; or Class B & C Test only		\$	9.81	92	\$	902.52			
Intest/Condemn; or Class B & C Test only		\$	57.46	104	\$	5,975.84			
Intest/Condemn; or Class B & C Test only		\$	64.99	0	\$	-			
Intest/Condemn; or Class B & C Test only		\$	70.32	0	\$	-			
Intest/Condemn; or Class B & C Test only		\$	76.99	0	\$	-			
Intest/Condemn; or Class B & C Test only	Rotary 1.5M - 7M	\$	69.86	162	\$ ^	11,317.32			
Intest/Condemn; or Class B & C Test only	Rotary 11M	\$	72.53	8	\$	580.24			
Intest/Condemn; or Class B & C Test only	Rotary 16M	\$	75.19	2	\$	150.38			
Intest/Condemn; or Class B & C Test only	Rotary 23M	\$	80.53	0	\$	-			
				1492	\$ 1	30,773.13			
			Shipping I		\$	825.23			
			Ompping i	Total	<u> </u>	31,598.36			
	Shipping	Break	down	. • • • • • • • • • • • • • • • • • • •		1,000.00			
Diaphragm 0 - 500 CFH	81.5%	\$	672.57						
Diaphragm > 500 CFH	7.0%	\$	57.52						
Rotary	11.5%	\$	95.13						
•	100.0%	\$	825.23						
PUC Meter Group Classification	# of Meters	To	otal Expense	Cost per Meter					
Diaphragm 0 - 500 CFH	1216	\$	13,421.92	\$ 11.04					
Diaphragm > 500 CFH	104	\$	6,033.36	\$ 58.01					
Rotary	172	\$	12,143.07	\$ 70.60	1				

1492

Average Cost Per Meter

\$

31,598.36 \$

21.18

ACKNOWLEDGEMENT

Sales Order No: 14

Order Date: 03/09/12

Page: 1

Customer Phone: (603) 294-5154

Customer Fax: (603) 431-6476

Reynoldsville, PA 15851

NORTHERN UTILITIES NH 325 WEST ROAD

PORTSMOUTH, NH 03801

. L I

ATTN: STEVEN HAMBLEN

NORTHERN UTILITIES NH

325 WEST ROAD

H PORTSMOUTH, NH 03801

I P

ATTN: STEVEN HAMBLEN

Taxable:NPurchase Order:NNH65152Pmt Terms:NET 30Ship Via:UI TRUCKAccount Cd:UNITIL PLFOB:PLANT

Salesperson: 0 Job Number:

Line	Order Qty	Part# / Description	DISC	Price	UM	Extended Price	Est Ship
	0	INTEST/CON DOM	0.00	\$11.8100	EA	\$0.00	09/12/12
	0	INTEST/CONDEMN DOMESTIC MET INTEST/CON 400 INTEST/CONDEMN 400'S METERS	0.00	\$11.8100	EA	\$0.00	09/12/12
	0	INTEST/CONDEMIN 4003 METERS INTEST/CON LC 700-1000 CONDEMN FEE	0.00	\$62.4600	EA	\$0.00	09/12/12
	0	INTEST/CON LC AL1400 CONDEMN FEE	0.00	\$69.9900	EA	\$0.00	09/12/12
	0	INTEST/CON LC AL2300 CONDEMN FEE	0.00	\$75.3200	EA	\$0.00	09/12/12
	0	INTEST/CON LC AL5000 CONDEMN FEE	0.00	\$81.9900	EA	\$0.00	09/12/12
	0	INTEST/CON ROT 1.5M-7M CONDEMN FEE	0.00	\$74.8600	EA	\$0.00	09/12/12
	0	INTEST/CON ROT 11M CONDEMN FEE	0.00	\$77.5300	EA	\$0.00	09/12/12
	0	INTEST/CON ROT 16M CONDEMN FEE	0.00	\$80.1900	EA	\$0.00	09/12/12
	0	INTEST/CON ROT 23M CONDEMN FEE	0.00	\$85.5300	EA	\$0.00	09/12/12
	0	INTEST DOM SPECIAL TEST DOMESTIC METER	0.00	\$28.0000	EA	\$0.00	09/12/12
	0	LC INTEST SPECIAL TEST LARGE CAPACITY	0.00	\$52.6700	EA	\$0.00	09/12/12
	0	ROTARY INTEST SPECIAL TEST ROTARY METER	0.00	\$47.0000	EA	\$0.00	09/12/12
	0	DDM SCRAP CREDIT FOR DOM/400 MET	0.00 Erk	<\$2.0000>	EA	\$0.00	09/12/12

Reynoldsville, PA 15851

ACKNOWLEDGEMENT

Sales Order No: 14

Order Date: 03/09/12

Page: 2

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Salesperson: 0 Job Number:

Line	Order Qty	Part# / Description	DISC	Price	UM	Extended Price	Est Ship
	0	LDM SCRAP CREDIT FOR LC METER	0.00	<\$5.0000>	EA	\$0.00	09/12/12
	0	ROT SCRAP CREDIT FOR EC METER ROT SCRAP CREDIT FOR ROTARY MET	0.00 Ek	<\$5.0000>	EA	\$0.00	09/12/12
	0	REPAIR CLASS A AMERICAN DOMESTIC METERS	0.00	\$22.2500	EA	\$0.00	09/12/12
	0	REPAIR CLASS B AMERICAN DOMESTIC METERS	0.00	\$34.9000	EA	\$0.00	09/12/12
	0	REPAIR CLASS C AMERICAN DOMESTIC METERS	0.00	\$40.1100	EA	\$0.00	09/12/12
	0	REPAIR CLASS D AMERICAN DOMESTIC METERS	0.00	\$75.7700	EA	\$0.00	09/12/12
	0	EXTRA PARTS DOM AMERICAN DOMESTIC EXTRA PAR	0.00 STS	\$0.0000	EA	\$0.00	09/12/12
	0	REPAIR CLASS A ROCKWELL DOMESTIC METERS	0.00	\$22.2500	EA	\$0.00	09/12/12
	0	REPAIR CLASS B ROCKWELL DOMESTIC METERS	0.00	\$34.9000	EA	\$0.00	09/12/12
	0	REPAIR CLASS C ROCKWELL DOMESTIC METERS	0.00	\$40.1100	EA	\$0.00	09/12/12
	0	REPAIR CLASS D ROCKWELL DOMESTIC METERS	0.00	\$75.7700	EA	\$0.00	09/12/12
	0	EXTRA PARTS DOM ROCKWELL DOMESTIC EXTRA PA	0.00 Ris	\$0.0000	EA	\$0.00	09/12/12
	0	REPAIR CLASS A 400 CLASS METER	0.00	\$22.1200	EA	\$0.00	09/12/12
	0	REPAIR CLASS B	0.00	\$35.8300	EA	\$0.00	09/12/12

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Taxable:NPurchase Order:NNH65152Pmt Terms:NET 30Ship Via:UI TRUCKAccount Cd:UNITIL PLFOB:PLANT

Salesperson: 0 Job Number:

Line	Order Qty	Part# / Description	DISC	Price	UM	Extended Price	Est Ship
		400 CLASS METER					
	0	REPAIR CLASS C	0.00	\$41.6700	EA	\$0.00	09/12/12
		400 CLASS METER					
	0	REPAIR CLASS D	0.00	\$99.4400	EA	\$0.00	09/12/12
		400 CLASS METER					
	0	2711101171110 DOM	0.00	\$0.0000	EA	\$0.00	09/12/12
		400 CLASS EXTRA PARTS					
	0	CLASS A REPAIR	0.00	\$58.7900	EA	\$0.00	09/12/12
	_	700 CLASS LARGE CAPACITY		400		******	
	0	CLASS B REPAIR	0.00	\$114.8600	EA	\$0.00	09/12/12
		700 CLASS LARGE CAPACITY	METEK				
	0	CLASS C REPAIR	0.00	\$135.9300	EA	\$0.00	09/12/12
		700 CLASS LARGE CAPACITY	METEK				
	0	0	0.00	\$205.1100	EA	\$0.00	09/12/12
		700 CLASS LARGE CAPACITY					
	0	EXTRA PARTS LC	0.00	\$0.0000	EA	\$0.00	09/12/12
		700 CLASS LC METER EXTRA	PART5				
	0	CLASS A REPAIR	0.00	\$62.2500	EA	\$0.00	09/12/12
		AL800/1000 LC METER	0.00	•		•	
	0	CLASS B REPAIR	0.00	\$114.3400	EA	\$0.00	09/12/12
		AL800/1000 LC METER					
	0	CLASS C REPAIR	0.00	\$147.5000	EA	\$0.00	09/12/12
		AL800/1000 LC METER					
	0	OL (OO D I (LI / III (0.00	\$372.7300	EA	\$0.00	09/12/12
		AL800/1000 LC METER					
	0	EXTRA PARTS LC	0.00	\$0.0000	EA	\$0.00	09/12/12
		AL800/1000 LC EXTRA PARTS	•				

Reynoldsville, PA 15851

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Page: 4

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325 WEST ROAD

H PORTSMOUTH, NH 03801

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ATTN: STEVEN HAMBLEN

Taxable: N
Pmt Terms: NET 30
Account Cd: UNITIL PL

Salesperson: 0

Purchase Order: NNH65152 Ship Via: UI TRUCK FOB: PLANT

Job Number:

Line	Order Qty	Part# / Description	DISC	Price	UM	Extended Price	Est Ship
	0	CLASS A REPAIR AL1400 LARGE CAPACITY METER	0.00	\$67.0800	EA	\$0.00	09/12/12
	0	CLASS B REPAIR	0.00	\$136.9300	EA	\$0.00	09/12/12
	0	AL1400 LARGE CAPACITY METER CLASS C REPAIR AL1400 LARGE CAPACITY METER	0.00	\$164.7800	EA	\$0.00	09/12/12
	0	CLASS D REPAIR AL1400 LARGE CAPACITY METER	0.00	\$945.8800	EA	\$0.00	09/12/12
	0	EXTRA PARTS LC AL1400 LC EXTRA PARTS	0.00	\$0.0000	EA	\$0.00	09/12/12
	0	CLASS A REPAIR	0.00	\$75.4200	EA	\$0.00	09/12/12
	0	AL2300 LARGE CAPACITY METER CLASS B REPAIR AL2300 LARGE CAPACITY METER	0.00	\$165.2000	EA	\$0.00	09/12/12
	0	CLASS C REPAIR AL2300 LARGE CAPACITY METER	0.00	\$202.5400	EA	\$0.00	09/12/12
	0	CLASS D REPAIR AL2300 LARGE CAPACITY METER	0.00	\$1,487.0700	EA	\$0.00	09/12/12
	0	EXTRA PARTS LC AL2300 LC EXTRA PARTS	0.00	\$0.0000	EA	\$0.00	09/12/12
	0	CLASS A REPAIR AL5000 LARGE CAPACITY METER	0.00	\$79.1200	EA	\$0.00	09/12/12
	0	CLASS B REPAIR	0.00	\$176.9400	EA	\$0.00	09/12/12
	0	AL5000 LARGE CAPACITY METER CLASS C REPAIR AL5000 LARGE CAPACITY METER	0.00	\$205.3400	EA	\$0.00	09/12/12
	0	CLASS D REPAIR AL5000 LARGE CAPACITY METER AL5000 LARGE CAPACITY METER	0.00	\$1,703.2000	EA	\$0.00	09/12/12

Reynoldsville, PA 15851

ACKNOWLEDGEMENT

Sales Order No: 14

Order Date: 03/09/12

Page: 5

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ATTN: STEVEN HAMBLEN

NORTHERN UTILITIES NH

325 WEST ROAD

H PORTSMOUTH, NH 03801

I P

ATTN: STEVEN HAMBLEN

Taxable: N
Pmt Terms: NET 30
Account Cd: UNITIL PL

Salesperson: 0

Purchase Order: NNH65152 Ship Via: UI TRUCK FOB: PLANT

Job Number:

Line	Order Qty	Part# / Description	DISC	Price	UM	Extended Price	Est Ship
	0	EXTRA PARTS LC AL5000 LC EXTRA PARTS	0.00	\$0.0000	EA	\$0.00	09/12/12
	0	ROTARY REPAIR B 1.5M ROTARY METER	0.00	\$238.7900	EA	\$0.00	09/12/12
	0	ROTARY REPAIR B 3M-5M ROTARY METER	0.00	\$251.6500	EA	\$0.00	09/12/12
	0	ROTARY REPAIR B 7M ROTARY METER	0.00	\$264.8100	EA	\$0.00	09/12/12
	0	ROTARY REPAIR B 11M ROTARY METER	0.00	\$280.2500	EA	\$0.00	09/12/12
	0	ROTARY REPAIR B 16M ROTARY METER	0.00	\$305.7700	EA	\$0.00	09/12/12
	0	ROTARY REPAIR B 23M ROTARY METER	0.00	\$362.0100	EA	\$0.00	09/12/12
	0	EXTRA PARTS ROT ROTARY METER EXTRA PARTS	0.00	\$0.0000	EA	\$0.00	09/12/12
	0	DDM INSTALL BADGES	0.00	\$2.8900	EA	\$0.00	09/12/12
	0	DDM INSTALL BADGER UNITS	0.00	\$5.1000	EA	\$0.00	09/12/12
	0	DDMERT INSTALL ERTS	0.00	\$5.1000	EA	\$0.00	09/12/12
	0	DELVCHG DELV CHARGE TO PICK UP ME	0.00 TERS	\$0.0000	EA	\$0.00	09/12/12

Utilities and Industries

1995 Industrial Blvd

Reynoldsville, PA 15851

ACKNOWLEDGEMENT

Sales Order No: 14

> Order Date: 03/09/12

> > 6 Page:

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325 WEST ROAD

PORTSMOUTH, NH 03801

ATTN: STEVEN HAMBLEN

NORTHERN UTILITIES NH

325 WEST ROAD

PORTSMOUTH, NH 03801

P

ATTN: STEVEN HAMBLEN

Taxable:

Pmt Terms: NET 30 Account Cd: UNITIL PL

Salesperson:

Purchase Order: NNH65152 Ship Via: **UI TRUCK** FOB: **PLANT**

Job Number:

Line Order Qty Part# / Description DISC Price UM Extended Price Est Ship

> 0 DELVCHG 0.00 \$0.0000 EΑ \$0.00 09/12/12

DELV CHARGE TO DELIVER METERS

Return Policy: 30 days: No charge for manufacturers defect, otherwise 30% restock fee. Special Orders: NO Returns unless defective.

Subtotal: \$0.00 Sales Tax: \$0.00 Freight: \$0.00

Total: \$0.00