

Cost Estimate 504.03 (e): Service I.D. Tags				
Item	Units	Cost per Unit	Est Units	Total
Records Research & Program Development	hours	\$ 30.00	10	\$ 300.00
Tag Development & Procurement	hours	\$ 0.75	1700	\$ 1,275.00
Labor to Install (including travel)	hours	\$ 32.02	1700	\$ 54,434.00
Transportation Expense	miles	\$ 0.86	1700	\$ 1,462.00
Programming Asset Management	programming units	\$ 500.00	1	\$ 500.00
Data Entry Asset Management	hours	\$ 18.00	85	\$ 1,530.00
Programming Service Line Inspection	programming units	\$ 2,000.00	1	\$ 2,000.00
O&M Manual Changes	hours	\$ 80.00	2	\$ 160.00
Total				\$ 61,661.00

Notes: The Company does not expect that the on-going inspection costs will be material if they are done in conjunction with existing service line inspection programs. Programming costs are estimated for all necessary programming changes and are not determined on a cost/unit basis.

Cost Estimate 506.01 (I)(i): STAGE 1 for Multi Building				
Item	Units	Cost per Unit	Est Units	Total
Records Research & Program Development	hours	\$ 30.00	160	\$ 4,800.00
Labor to audit (including travel)	hours	\$ 256.16	106.27	\$ 27,222.12
Transportation Expense	miles	\$ 0.86	10000	\$ 8,600.00
Programming Asset Management	programming units	\$ 500.00	2	\$ 1,000.00
				\$ -
Sub-Total				\$ 41,622.12

Locations	21,253
Eliminated via records research	0.25
Required field visits	15,940
Field visits per day	150
Audit Days	106.27

Cost Estimate 506.01 (I)(i): STAGE 2 Multi Building				
Item	Units	Cost per Unit	Est Units	Total
Program Development	hours	\$ 30.00	10	\$ 300.00
Tag Development & Procurement	tags	\$ 1.00	8000	\$ 8,000.00
Labor to Install (including travel)	hours	\$ 32.02	1500	\$ 48,030.00
Transportation Expense	miles	\$ 0.86	4000	\$ 3,440.00
Programming Asset Management	programming units	\$ 500.00	1	\$ 500.00
Data Entry Asset Management	hours	\$ 18.00	85	\$ 1,530.00
Programming Service Line Inspection	programming units	\$ 2,000.00	1	\$ 2,000.00
Sub-Total				\$ 63,800.00

Estimated number of locations

Total \$ 105,422.12

Cost Estimate 506.01 (I)(2): Meter Tags				
Item	Units	Cost per Unit	Est Units	Total
Records Research & Program Development	hours	\$ 30.00	10	\$ 300.00
Tag Development & Procurement	tags	\$ 0.75	28000	\$ 21,000.00
Labor to Install (including travel)	hours	\$ 32.02	2000	\$ 64,040.00
Transportation Expense	miles	\$ 0.86	13000	\$ 11,180.00
Programming Asset Management	n/a	\$ 500.00	1	\$ 500.00
Data Entry Asset Management	hours	\$ 18.00	85	\$ 1,530.00
Programming Service Line Inspection	n/a	\$ 2,000.00	1	\$ 2,000.00
O&M Manual Changes	hours	\$ 80.00	2	\$ 160.00
Total				\$ 100,710.00

Note: The Company does not expect that the on-going inspection costs will be material if they are done in conjunction with existing service line inspection programs.

Average Welder Multiple Qualification Test Direct Costs

	Units	Cost/Hr	Cost	Total Cost
Welder & Equipment	24	\$89	\$2,136	\$2,136
Welding Consumables	1	\$58	\$58	\$58
10 feet of 12" Pipe Sch 40	1	\$962	\$962	\$962
Inspectional Services Quality Assurance Labs				
Test Visual overview	16	\$78	\$1,248	\$1,248
Test Mileage	60	\$1	\$60	\$60
Destructive Testing				
Girth Weld 8 coupons @ \$150/coupon	8	\$150	\$1,200	\$1,200
Branch Connections 4 coupons @ \$150/coupon	4	\$150	\$600	\$600
			Total	\$6,264

PUC 506.01 (m) Telemetry	
Item	Cost
RTU Package Cost	\$ 7,776.00
PLC Mixed I/O	\$ 662.00
Pressure Transmitters	\$ 4,875.00
Manifold w/ test port	\$ 850.00
Temp Wells	\$ 222.00
Temp RTD's	\$ 2,004.00
PDS	\$ 735.00
Traffic Box	\$ 849.00
Fiber Bases	\$ 256.00
Tec 8	\$ 3,915.00
Mercury Board	\$ 506.00
Labor & Trans	\$ 10,530.00
Supervision	\$ 1,975.00
Programming	\$ 1,000.00
Misc Materials	\$ 1,000.00
Total	\$ 37,155.00