

COST ESTIMATE FOR FLOW METER INSTALLATION ON ALL GCID SYSTEM DELIVERIES

CAPITAL COSTS

2,650 electronic flow meters @ avg. cost \$2,250	\$	5,962,500.00
Spare meter inventory (10% of 2,620 @ \$2,250)	\$	596,250.00
Twelve additional vehicles @ \$15,000 ea.	\$	180,000.00
Meter maintenance workshop	\$	100,000.00
Install 1,000 meter boxes @ \$1,600 ea.	\$	1,600,000.00
Install 1,200 meter boxes w/extension @ \$1,800 ea.	\$	2,160,000.00
Install 450 new turnouts (headwall, and meter box) @ \$8,000 ea.	\$	3,600,000.00
24 data loggers to track water usage @ \$2,500 ea.	\$	60,000.00
Change to new accounting and billing software	\$	80,000.00
Conduct engineering study & Proposition 218 mail ballot election to modify assessments	\$	500,000.00
Subtotal	\$	14,838,750.00
Add 25% Contingency	\$	3,709,687.50
Total Capital Cost	\$	18,548,437.50

ANNUAL COSTS

Twelve additional meter readers and/or water operators @ \$72,000 (salary + benefits)	\$	864,000.00
One additional mechanic @ \$72,000 (salary + benefits)	\$	72,000.00
One additional office position for billing @ \$72,000 (salary + benefits)	\$	72,000.00
Meter maintenance	\$	25,000.00
Vehicle O&M 12 vehicles X 25,000 miles ea. X .51/mile	\$	153,000.00
Annual maintenance on meter system (assume 5% of total capital cost)	\$	891,171.00
Annual maintenance on accounting & billing software (20% of cost)	\$	16,000.00
Annual cost of biennial 218 mail ballot elections to increase assessments	\$	100,000.00
Total Annual Cost	\$	2,193,171.00

Capital Cost	\$	18,548,437.50
Net Present Value of 25 Year Annual Cost (assuming 3% discount rate)		\$38,190,010.54
Net Present Value of Flow Meter Installation on all Deliveries in GCID	\$	56,738,448.04

Cost per Acre (NVP/153,502 acres) **\$ 370**

Footnotes:

- (1) Meter and meter facility installation costs are based upon using district force account labor. If the installation schedule is compressed, then outside contractors would be necessary at prevailing wage, and a commensurate increase in cost.
- (2) Capital costs are in 2011 dollars and are not indexed for inflation.