

## Rick Mucciaccio

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**From:** Brian Hopper  
**Sent:** Monday, December 08, 2008 4:14 PM  
**To:** Rick Mucciaccio  
**Subject:** FW: Emailing: WATER\_SIP

Your notes from planning the grant request. Hope this helps in us putting together a location list for work to be done through the grant. (lets put our plan on paper)

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**From:** Gina Rivera  
**Sent:** Monday, December 08, 2008 4:05 PM  
**To:** Brian Hopper  
**Subject:** FW: Emailing: WATER\_SIP

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**From:** Rick Mucciaccio  
**Sent:** Monday, April 28, 2008 2:51 PM  
**To:** Gina Rivera  
**Subject:** RE: Emailing: WATER\_SIP

Here is what I came up with... as I have mentioned, I'll make the trip to WPM to deliver

### Proposal #1

SE District mist head replacement with Valvette Systems "Little Valve"

SE District Total City water consumption 60,474,000 gallons/year

Replace 3500 existing mist heads in our City rightof ways and parks, with proposed "Little valve" heads are projected to save 20%, or 12,094,800 gallons per year based on the manufactureres independent tests attached.

In addition to that data, we conducted a trial on a sample median on NW 13th ave. 50 existing heads were replaced with the "little valve" system. The monthly water bills for this account indicated a 47% reduction in consumption by reducing the overspray and misting onto the roadway. Given the varying degree of median sizes through out the district, not every application will be the identical. We will not assume that the amount of water saved will be as much as 47% everywhere, so we are projecting as much as 20%

Staffing proposed as a match:

3500 heads replaced @ a rate of 15 heads per man hour = 233 man hours  
233 man hours @ \$22/hr = \$5126.00

Amount of Grant proposal #1

Cost per head apprx \$1.50 x 3500=\$5250.00

### Proposal #2

Installation of rain sensors on City Right of ways/medians in the NE and Beach Districts

Total of 400 sensors to be installed @ \$20.00 per sensor-\$8,000

City Match labor costs 400 @ 1 hr ea x\$22/hr = \$8800.00

Industry Standard estimate a savings of 15% of the total gallons per year

Estimated gallons per year approx 123,432,000 gal/year