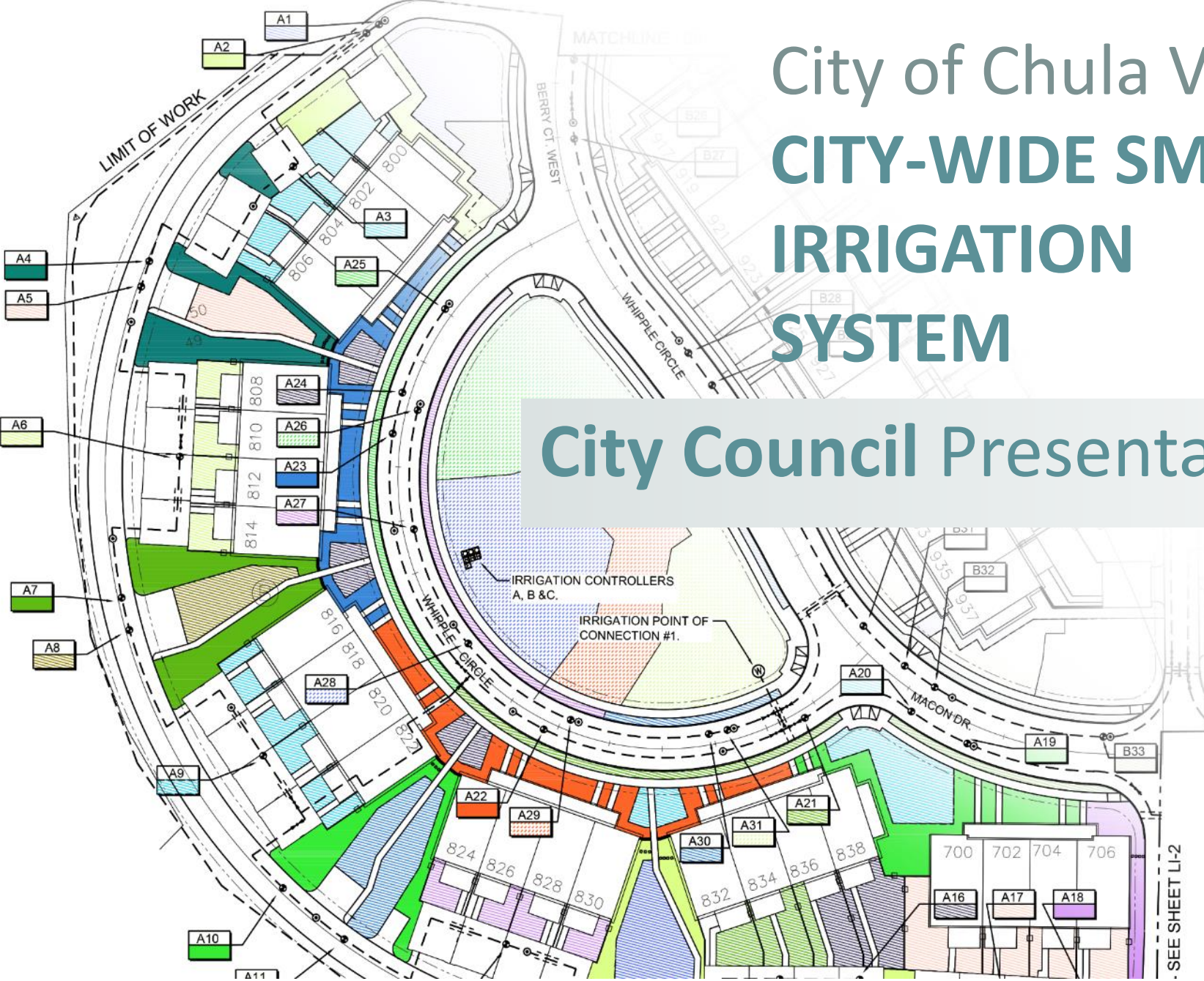
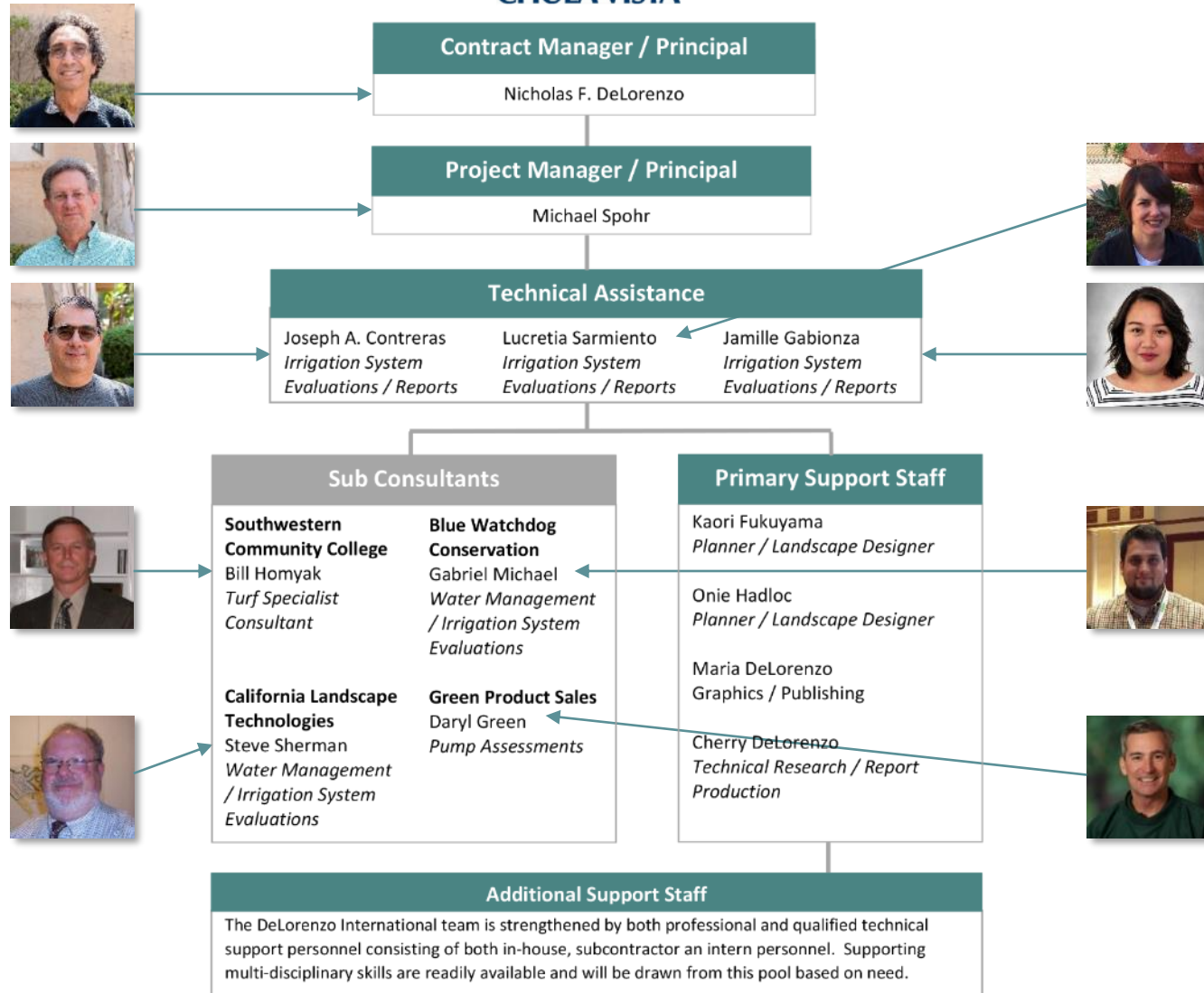


# City of Chula Vista CITY-WIDE SMART IRRIGATION SYSTEM

## City Council Presentation



# PROJECT TEAM





# PROJECT EXAMPLES



## DeLorenzo International - Water Management Map California

### San Diego County

- MCAS Miramar
- Replacement Naval Hospital Camp Pendleton
- Barona Resort and Casino
- San Diego Gas & Electric
- San Diego County Water Authority – WaterSmart Landscape Makeover Series (County-wide)

### Orange County

- Municipal Water District of Orange County – California Friendly Landscape Program

### Monterey County

- Monterey Bay Military Housing

### Santa Clara County

- Moffett Field
- Camp Parks
- El Rancho Verde

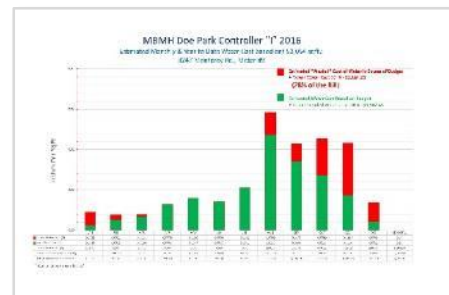
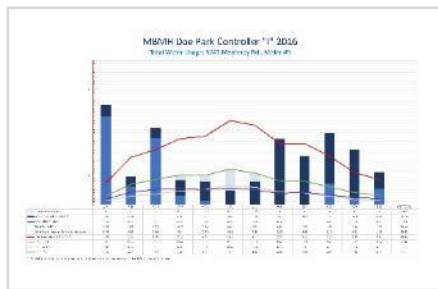




# PROJECT EXAMPLES – Monterey Bay Military Housing

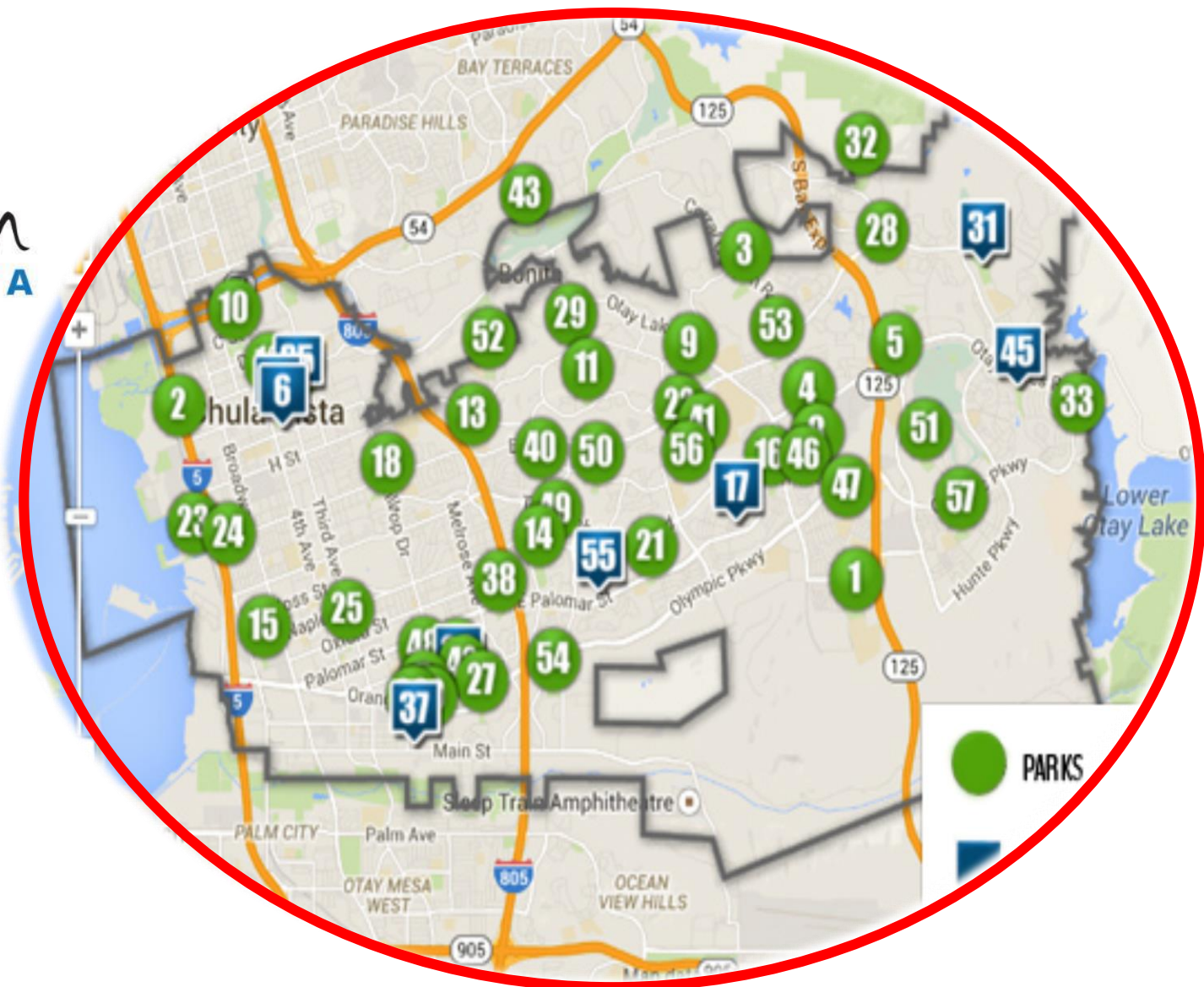


Monterey Bay Military Housing (MBMH) Water Tracking  
– Monterey, CA





Valuation and Recommendation for controllers on City Parks, Fire Stations, Libraries and Median Strips



City of Chula Vista Parks and Recreation Map





**Expedite  
schedule  
to complete In  
6 months  
to take  
advantage of  
rebates**

		MONTH 1				MONTH 2				MONTH 3				MONTH 4				MONTH 5				MONTH 6			
		WEEK 1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
PHASE 1		Contract Award	★																						
	1	Kick-off Meeting		★																					
	2	Data Gathering																							
	3	Schedule Site Visits																							
	4 a	Site Assessments Team 1																							
	4 b	Site Assessments Team 2																							
PHASE 2	1	Prepare Condition Assessment Report																							
	2	Assess Control System Options																							
	3	Update Mstr Irr Controls Inventory																							
	4	Attend Stakeholder Meeting # 1																					★		
PHASE 3	1	Prepare Recommendations																							
	2	Prepare Cost Estimate and Master Summary																							
	3	Estimate Baseline Water Costs																							
	4	Identify Rebates																							
	5	Prioritize Projects																							
	6	Attend Stakeholder Meeting # 2																					★		
	7	Revise Priority List from Meeting # 2																							
	8	Attend Oversight Committee Meeting																					★		



# APPROACH AND METHODOLOGY

## Phase I

### 1. Site Assessments:

- 1 or 2 teams of 1 irrigation assessment specialist, 1 assessment recorder and a knowledgeable city maintenance staff member (certified recycled water site supervisor).

## Phase 2

1. Prepare condition assessment report.
2. Assess control system options and recommendations.
3. Update Master Irrigation Controls Inventory.
4. Attend Stakeholder Meeting # 1.





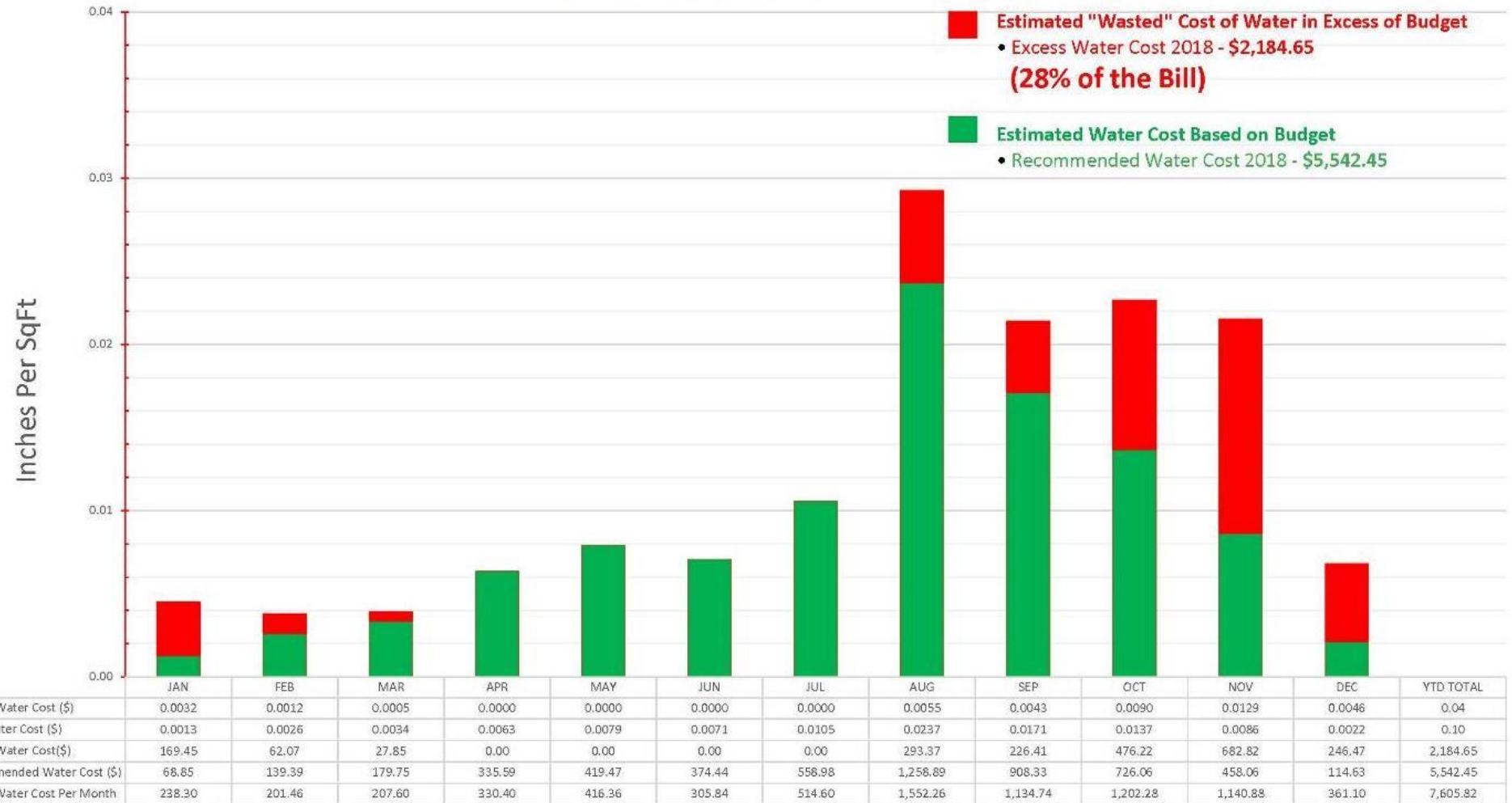
# APPROACH AND METHODOLOGY

## Phase 3

1. **Prepare biddable specifications** for repair, renovation, retrofit and/or installation of controllers, master-valves, flow meters & pumps.
2. Prepare cost estimates and master summary.
3. **Estimate baseline water costs**, future water use and potential water savings, if any. (How is this affected by water budgeting?)
4. Identify rebates.
5. **Prioritize projects.**
6. Attend Stakeholder Meeting # 2.
7. Revise priority list per direction from Stakeholder Meeting # 2.
8. Attend Oversight Committee Meeting.



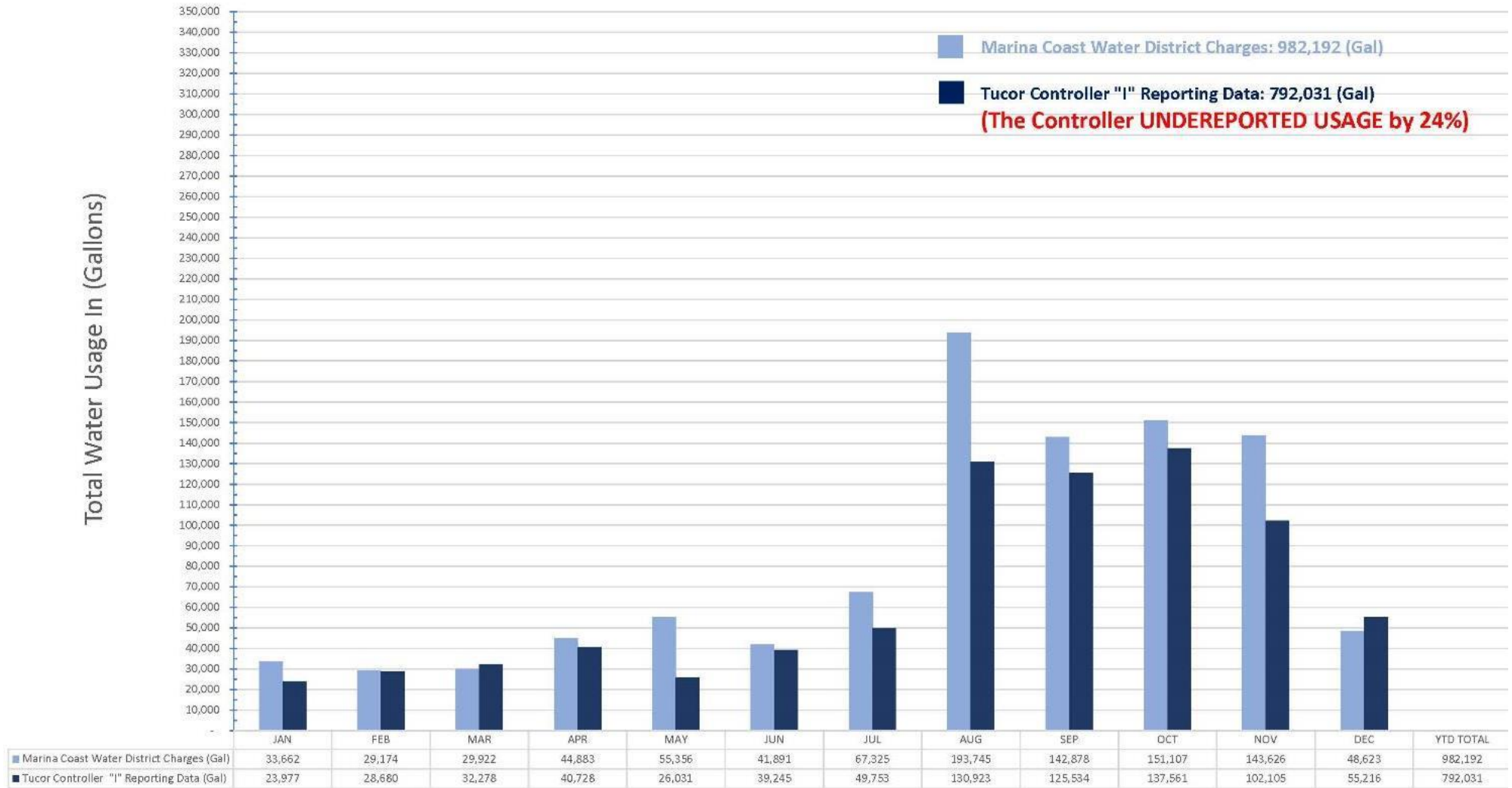
# ESTIMATED BASELINE WATER COSTS



\* Total Landscape area is 190,757



# Water Meter vs. Smart Controller Comparison



# PRIORITIZE PROJECTS

1. Identify locations where maximum water savings can be achieved.
  - Facilities where no smart controller currently installed.
  - Facilities where smart controller require upgrading.  
(May not all be the same manufacture)
2. Identify locations where smart controller currently working and connected.
  - No need to expend \$\$ on these.
3. Identify remaining locations where upgrading and/or repair will result in additional savings.