



Water Conservation Program FY16 4th Qtr Update

Resource Management Commission

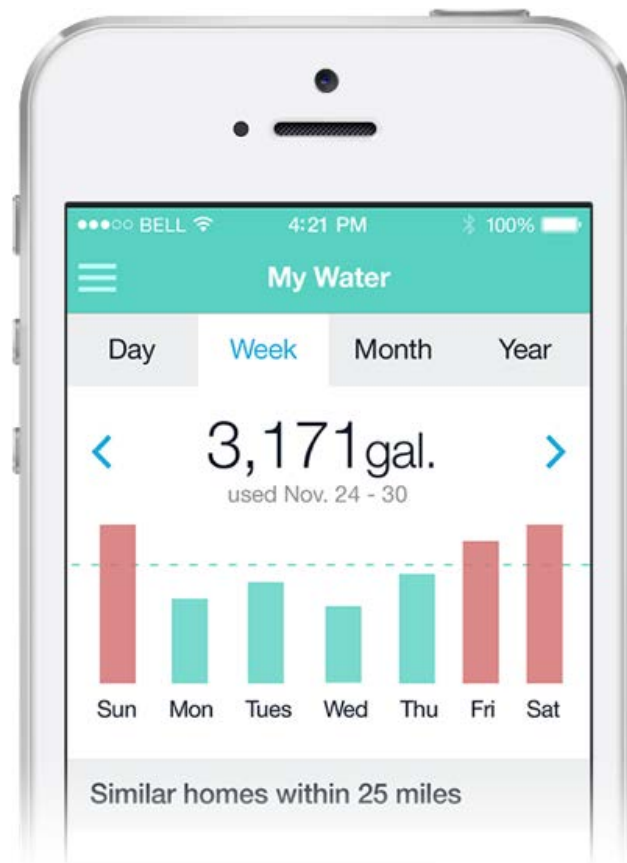
October 18, 2016

Mark Jordan

Conservation Program Coordinator

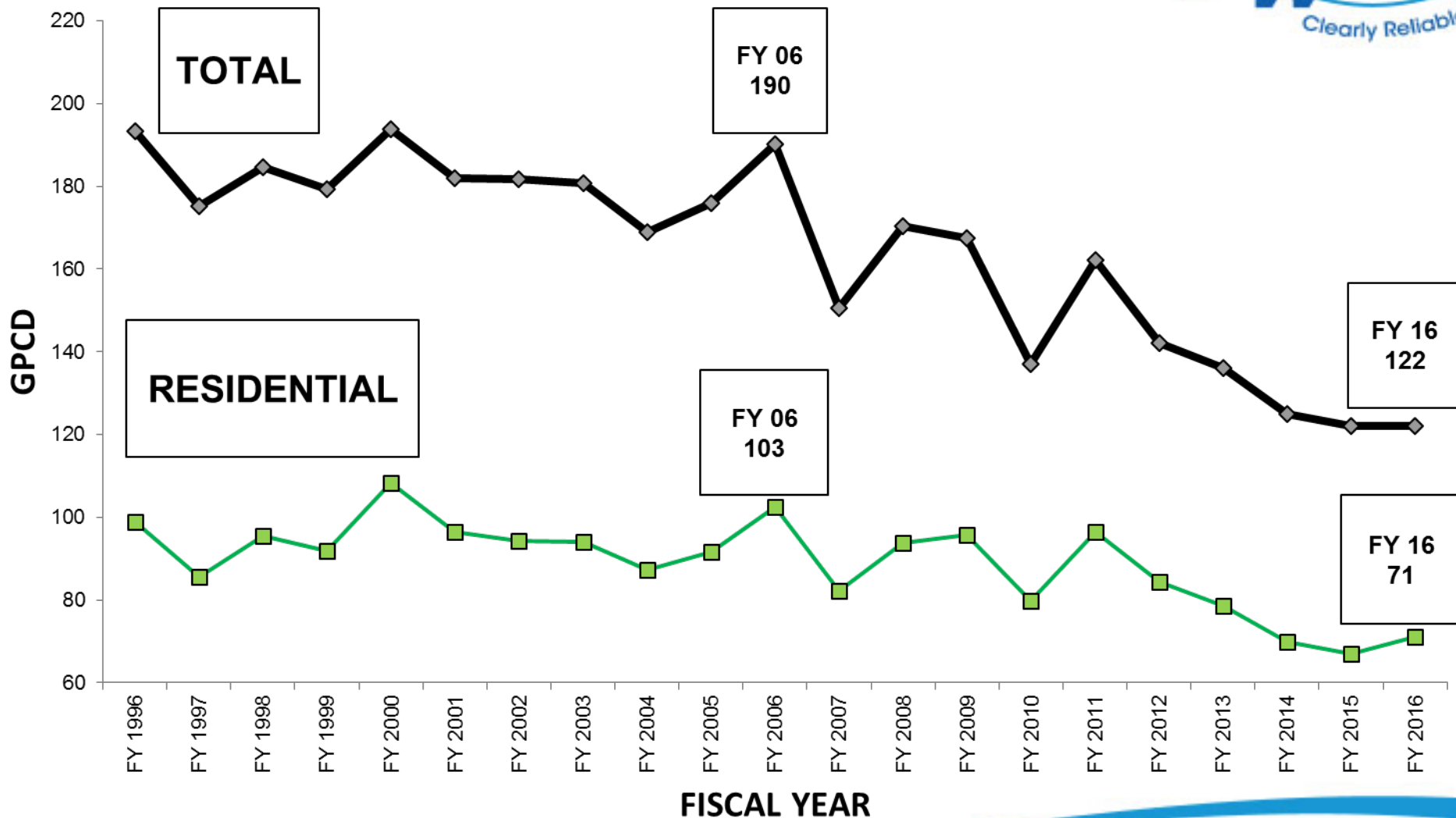
4th Qtr Highlights

- Continued low per capita water use
- Almost 600 irrigation system audits done in response to customer requests
- 15,000 receiving Dropcountr reports
- Water Forward Task Force Conservation Program Assessment underway

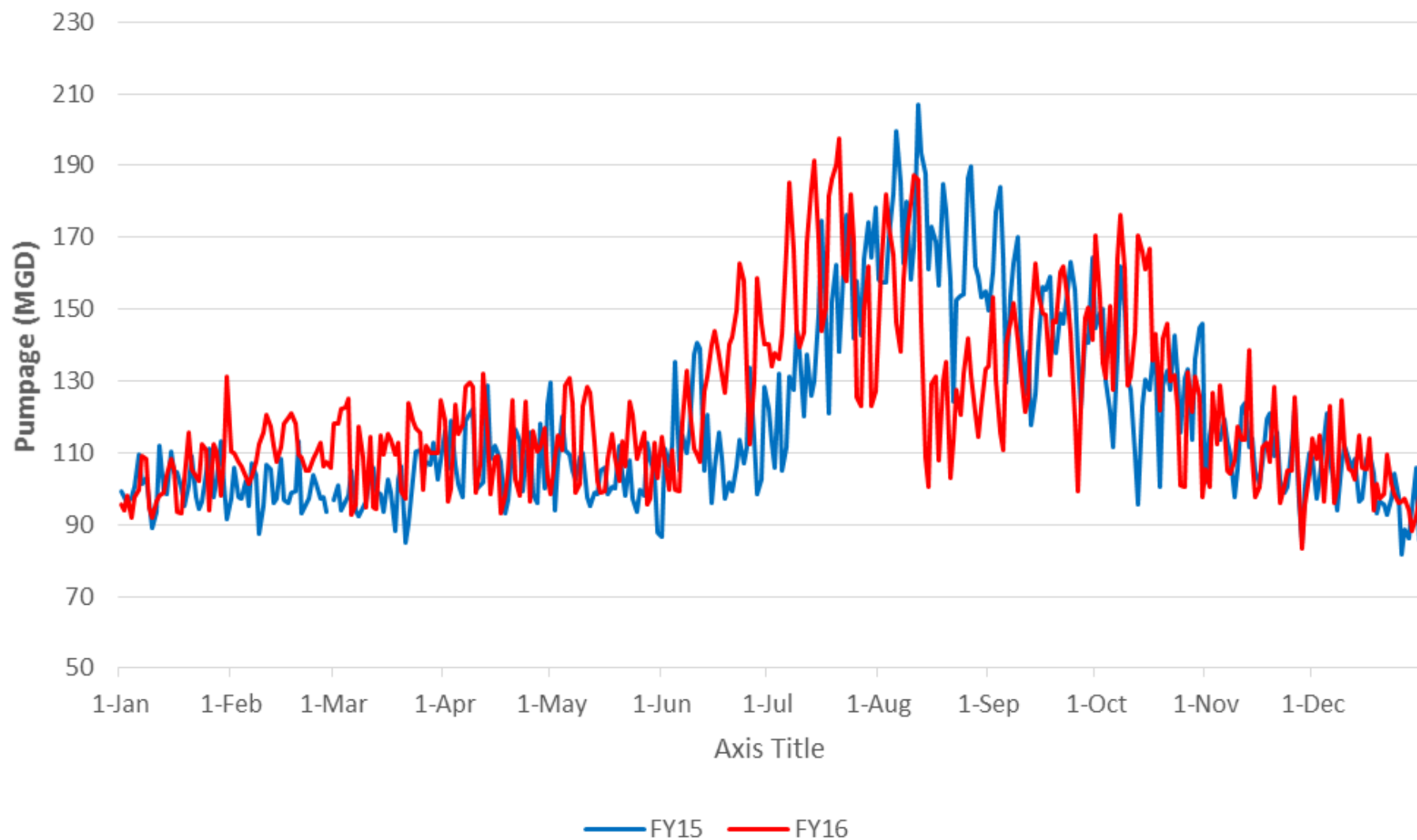


Five- & ten-year goals for water savings from conservation

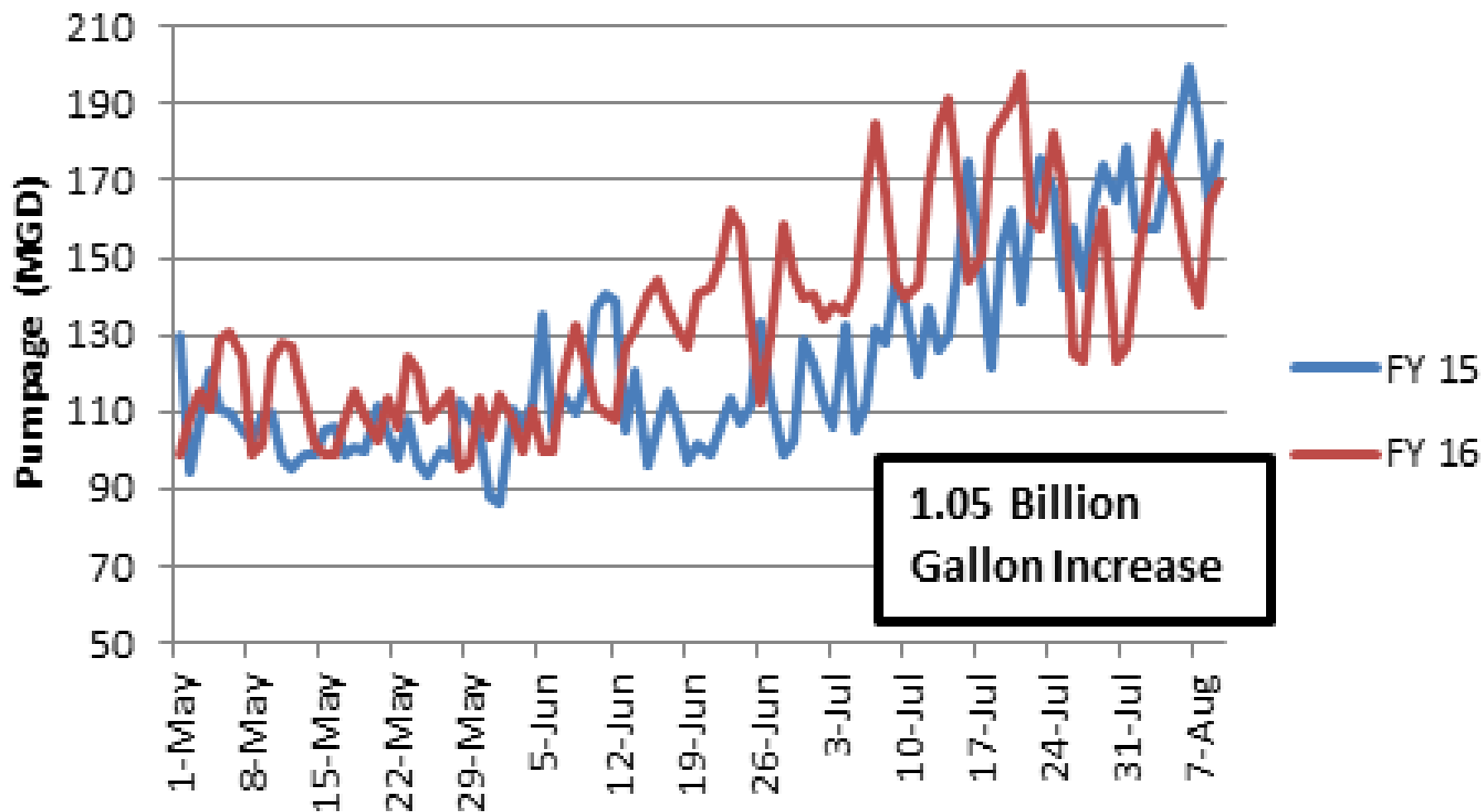
| | FY2019 Goal | FY 2024 Goal |
|------------------|-------------------------------|--------------|
| Total GPCD | Non-drought conditions: 141 | 138 |
| | Drought response Stage 2: 124 | |
| Residential GPCD | 85 | 83 |



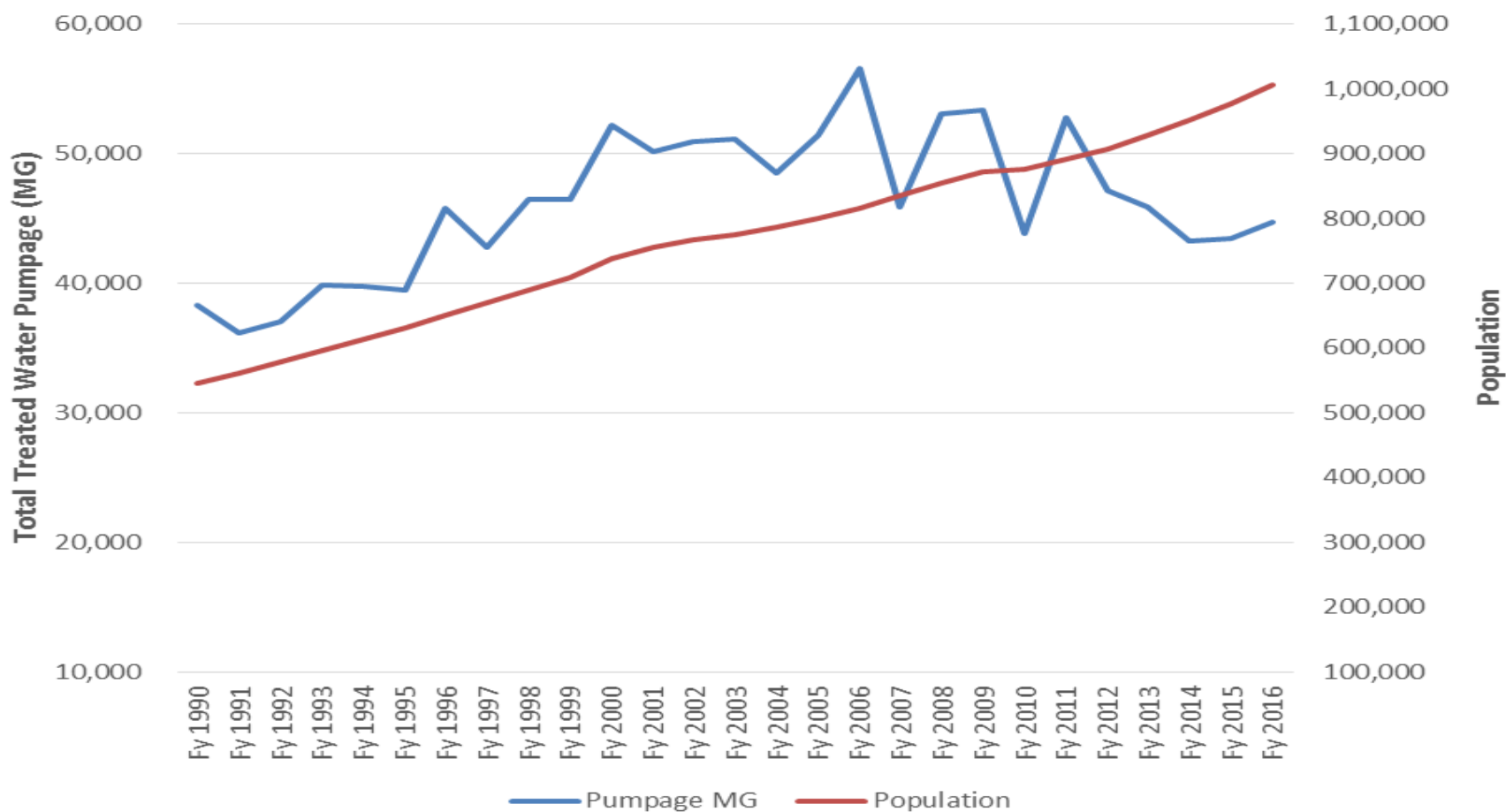
Pumpage: 2015 and 2016



Pumpage: May 1 - August 9 FY15 and FY16



Austin's Water Demand and Population



FY16 Incentive Program Activity

| Program | Activity Level |
|------------------------|----------------------|
| Aerators/showerheads | Lower than budgeted |
| Rainwater harvesting | Lower than budgeted |
| PRV | Lower than budgeted |
| Commercial process | Lower than budgeted |
| Irrigation rebates | Higher than budgeted |
| Irrigation Audits | Higher than budgeted |
| Drought survival tools | Lower than budgeted |
| WaterWise Landscape | Lower than budgeted |
| Commercial audit | Lower than budgeted |

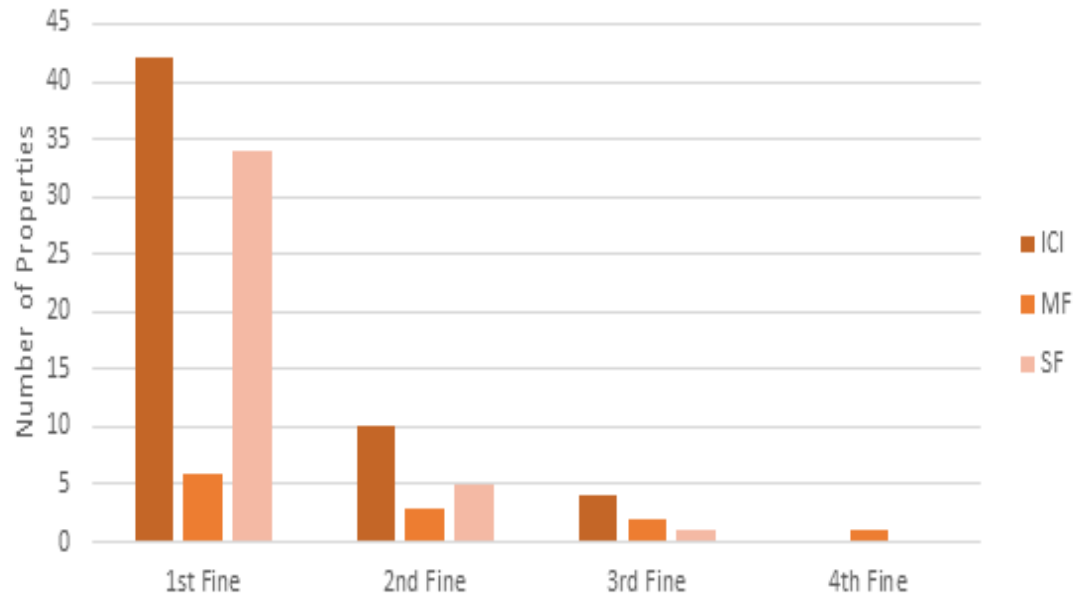


Reclaimed Water Use



- **FY16: 1.33 BG (3.3%)(79 customers)**
- **FY15: 1.23 BG (2.86%)(76 customers)**
- **FY14: 1.09 BG (2.92%)(63 customers)**
- **FY13: 1.47 BG (4.17%)(59 customers)**
- **FY12: 1.52 BG (3.96%)(43 customers)**
- **FY11: 1.45 BG (4.33%)(40 customers)**
- **FY10: 1.09 BG (2.8%)(36 customers)**

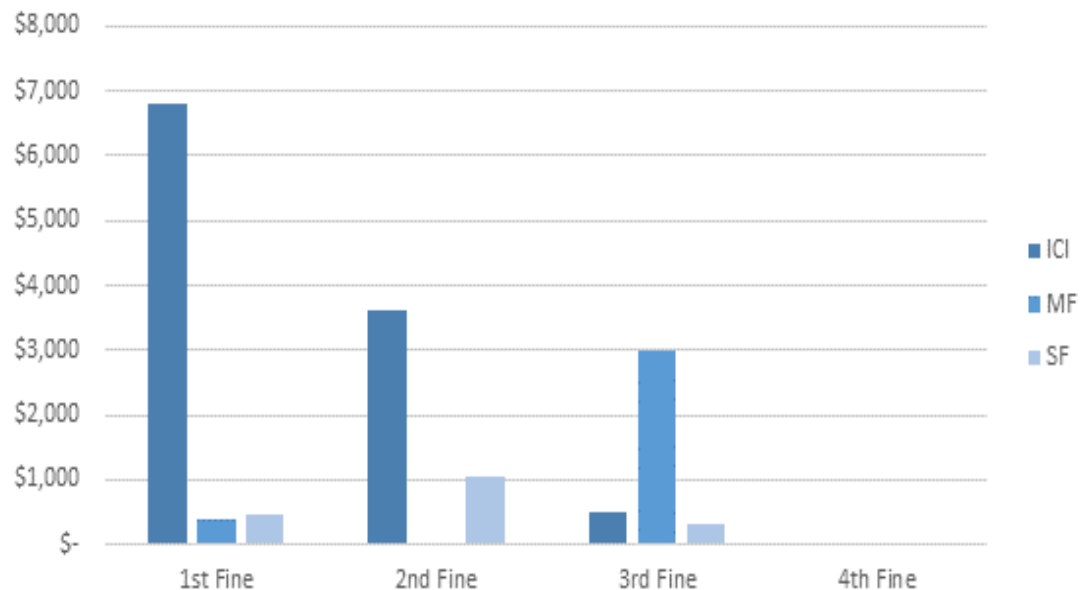
FY Assessed Violations 10/1/15-9/30/16



- Violations assessed only after a warning is issued
- Citizen reports generate a postcard alert
- Fines on water bills

- 974 warnings
- 111 properties fined
- 21 appeals filed
- 2 appeals overturned

Fines Collected



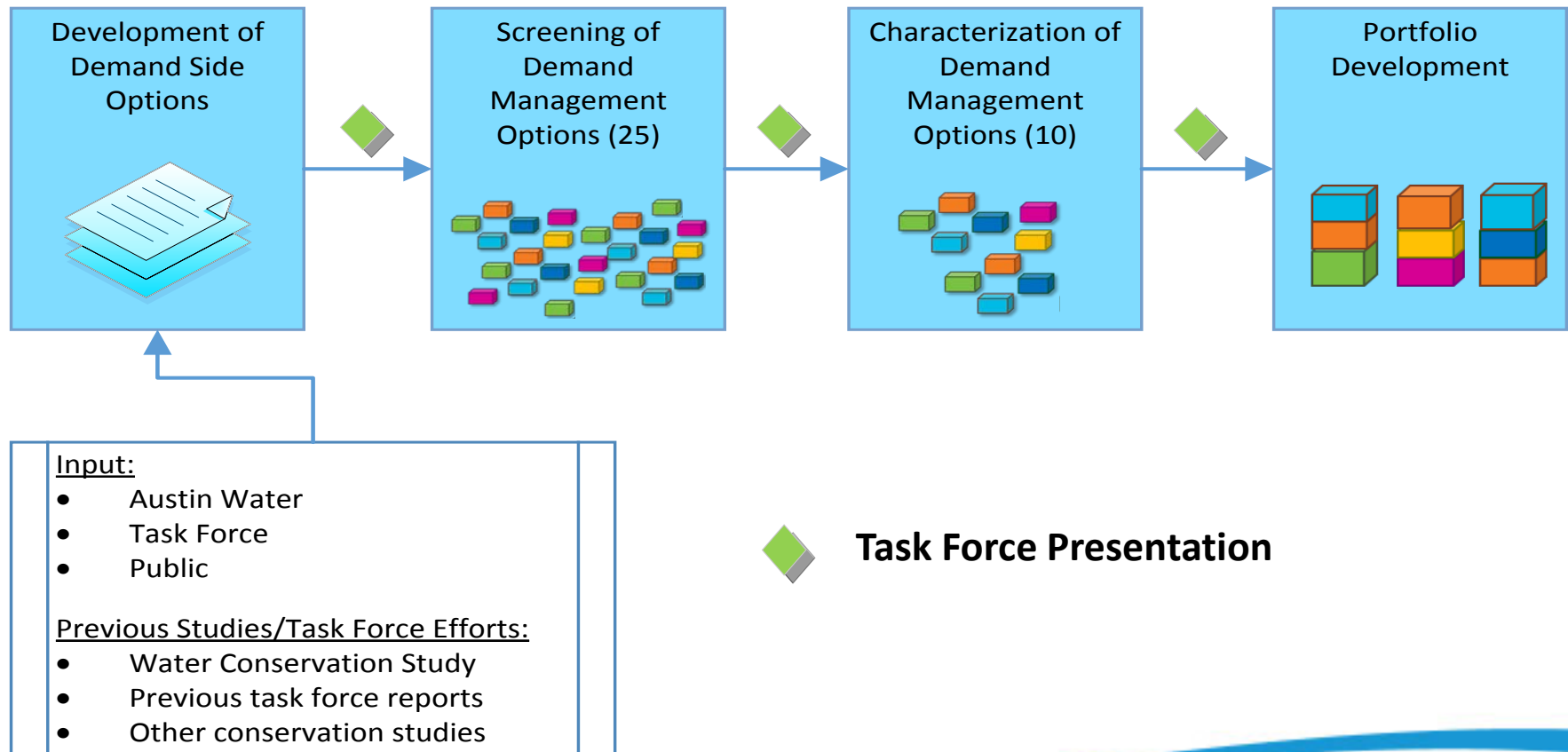
FY16 Conservation Outreach



- Events/Booths: 55
- Persons reached: 9,281
- Public input meetings and workshops: 7
- Regional Networking
 - CTWEN, TAWWA, Region K, LCRA Firm Customers, LCRA Partnership Agreement, WCAC



Demand Management Options Process



Draft Screening Criteria - *Utility Perspective*

- **Savings** = Water Savings
(1 = low potential; 5 = significant potential)
Note: Water Savings given double weight in overall scoring
- **Cost** = Relative Expected Cost to Implement Program/Policy
(1 = significant expense; 5 = minimal)
- **Ability** = Relative Ease to Implement Program/Policy
(1 = extremely difficult, many hurdles; 5 = easy, no additional staff or resources required)

Draft Screening Criteria - *Customer Perspective*

Unit Cost = Customer Cost of Measure / Program / Policy
(1 = significant expense; 5 = minimal)



25 Options; 11 Categories

- Water loss control – utility side
- Automated Metering Infrastructure (AMI), analytics and alerts
- Landscape transformation ordinances and incentives
- Alternative water ordinances and incentives
- Irrigation efficiency ordinances and incentives
- Rates and fees incentives
- Development-focused water use estimates and benchmarking
- Commercial, Industrial, and Institutional ordinances and incentives
- Plumbing codes and ordinances and fixture incentives
- Reclaimed water ordinances & incentives
- Customer education and outreach programs

Looking Forward: Top Measures



- Water loss control
- AMI, rates, information, and education including AMI enabled alerts
- Landscape transformation measures such as WaterWise rebates – landscapes that can thrive on 1-day per week irrigation
- Pre-development water evaluation
- Cooling tower efficiency standards
- Alternative water supply and reuse
 - Customer Scale (on-site systems)
- Water rates and fees

Looking Forward – Alternative Water Supply

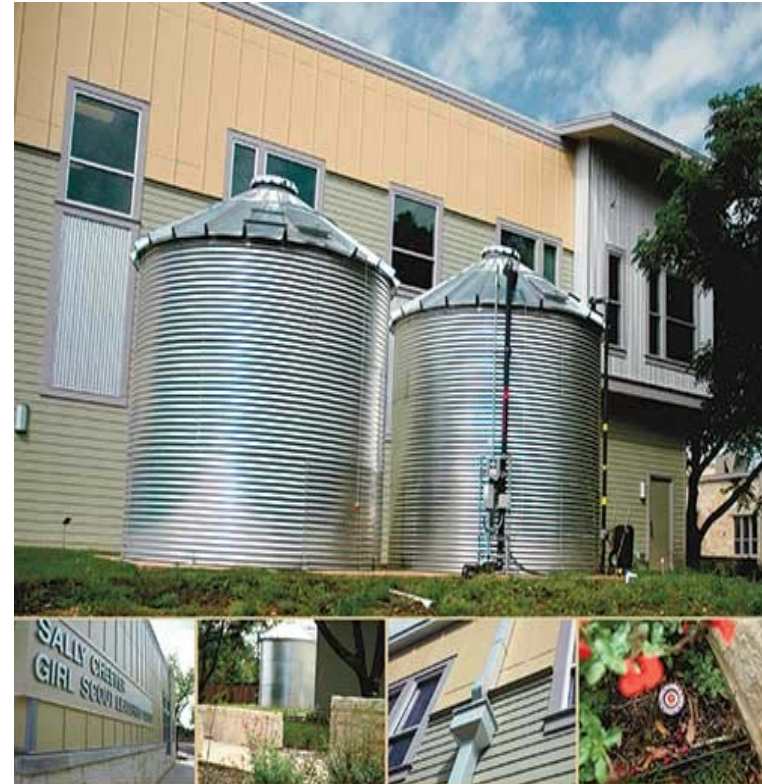
- Utility Scale (regional systems) alternative water supply and reuse to be categorized as supply-side options
- Centralized reclaimed water-related strategies to be considered as supply-side options
- There may be opportunities to combine some measures
- Long-term water demand projections and areas with greatest opportunity for water savings will help guide selection

Looking Forward On the Bubble

- Specific irrigation efficiency ordinances and programs
- Specific commercial, industrial and institutional (CII) ordinances and non-residential programs
- Specific plumbing codes and fixture programs
- Swimming pool efficiency

MPSB recommendations

- A/C condensate recovery new development
- All cooling towers must meet efficiency standards, equipment and inspection and reporting requirements
- Steam boilers must have conductivity controllers





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