# This presentation premiered at WaterSmart Innovations

watersmartinnovations.com







# Once Bitten, Twice as High: Maintaining a Conservation Focus

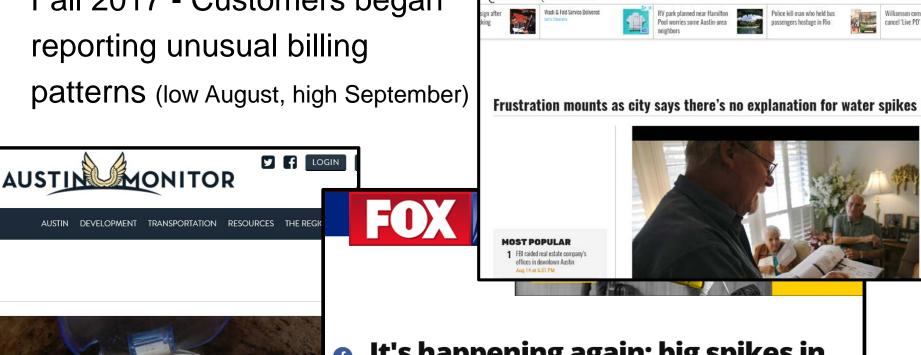
Drema Gross, Division Manager Water Smart Innovations 2019





### 2017 "High Bill Incident"

Fall 2017 - Customers began



\* WATER Monday, December 18, 2017 by Jessi Devenyns

Phantom water bill charges remain an unsolved

mystery at Austin Water

- It's happening again: big spikes in
- **Austin Water bills affecting** customers across the city

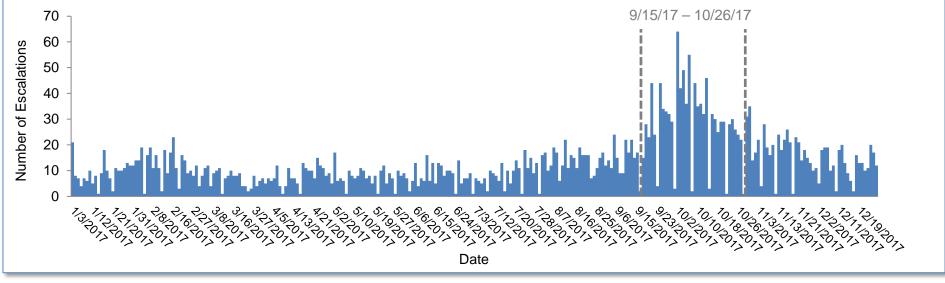
Statesman

Water bill issues



#### 2017 Escalation Increase & Response

An acute increase in high water escalations began in October 2017.



Austin Water & Austin Energy took a four part approach with an immediate focus on individual restorative efforts.

#### **Analytic:**

Perform
meter to bill data
analytics to
identify
specific issues

#### **Restorative:**

Solve any immediate issues and make the customer whole

#### **Preventative:**

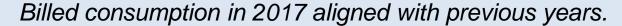
Improve existing business processes and quality assurance measures

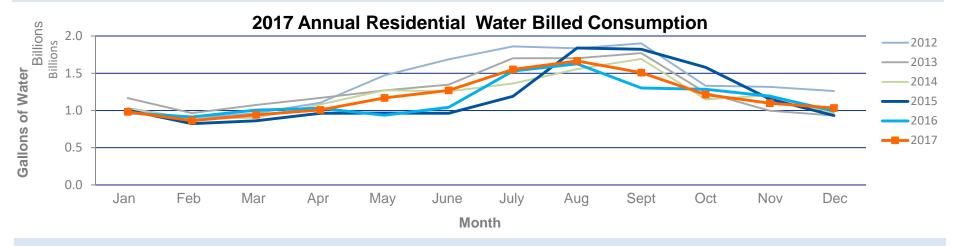
#### **Proactive:**

Identify future opportunities to improve customer experience

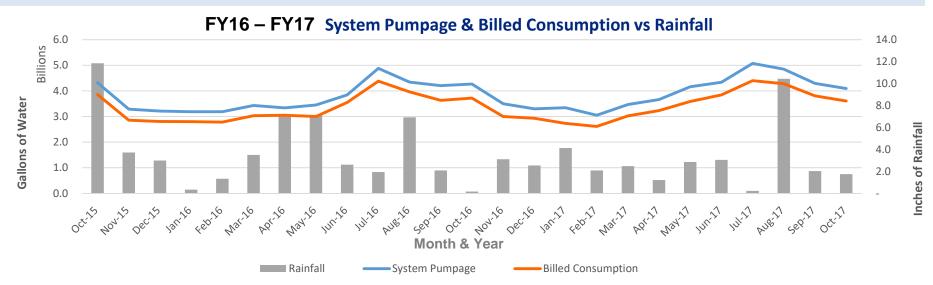


#### Initial Analysis Found No Irregularities





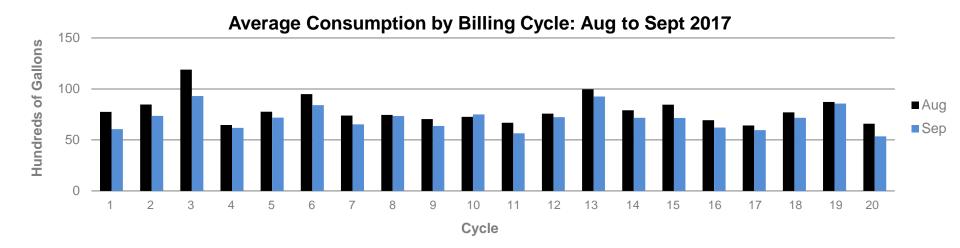
#### Austin Water pumpage and billed consumption aligned with rainfall patterns as expected.



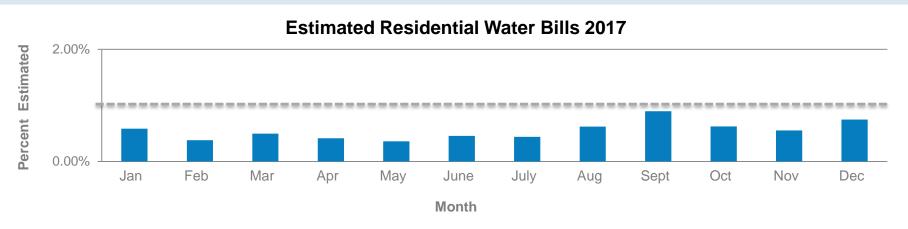


#### Deeper Analysis... Still a Mystery

August to September consumption at the cycle level aligned with seasonal trends as expected.



Billing system estimates were within expected range. Typically, **less than 1%** of Residential bills are estimated.





# About as Useful as a White Crayon?



#### Finally... A Root Cause!

#### **Unusual Usage Patterns**

- Analysis of escalation cases created between July and December
- Confirmed clustering of cases in particular neighborhoods
- Unusual usage patterns identified in 135 routes
- Characterized by an unusually low August read followed by higher September read
- Eventually, investigation discovered fraudulent reads linked to two meter readers with disproportionate number of routes assigned.

AE/AW began with a top down analysis of all routes: 1,080 Routes (~206K Customers)

Of the 1,080 routes, AE/AW identified which routes had an aggregate lower August consumption followed by a higher September:

135 Routes (~32K Customers)

Of the 135 routes, AE/AW identified which individual customers had a **lower August consumption followed by a higher September**:

~17,800 Customers

Of the 17,800 customers, identified which customers had a **higher total charge for August + September** than if the consumption had been spread equally over those months.

Higher Tier Effect
These customers will receive bill smoothing: ~7,400 Customers

Lower Tier or Debit
These customers will not
benefit from smoothing:
~10,400 Customers

Of the 17,800 customers, some may also qualify for a

High Bill Administrative

Adjustment:

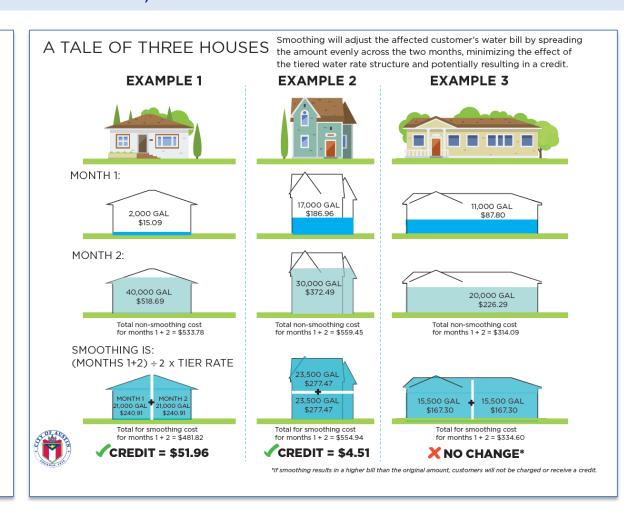
~700 customers



#### Step One: Reverse Financial Harm to Customer

AW & AE worked together to "smooth" the consumption between the two months, which will result in a credit for ~7,400 customers

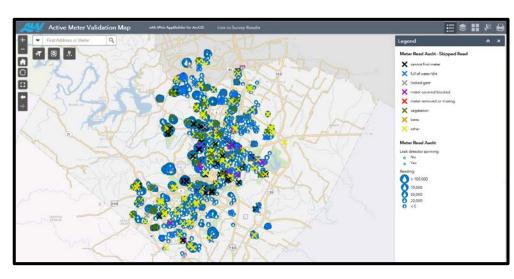
- Average credit of \$20
- Credit not exceeding \$80 in most cases
- Credits total approximately \$138K
- Affected Customers are already receiving notification letters
- Bill Smoothing completed by March 15, 2018, but...
- Many customers still unsatisfied

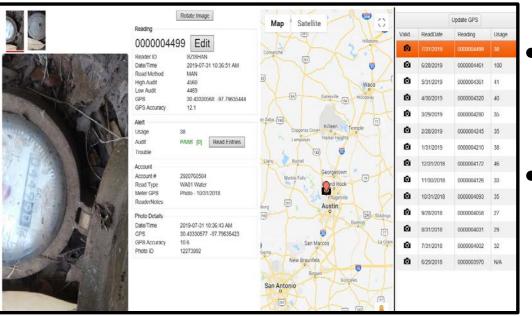




#### Step Two: Technical & Process Improvements

- January 2018 AW read verification
- January 2018 Photos of most meter reads





- May 2018 Policy changes related to adjustments and hearings
- June 2018 Temporary staff added to AW meter services to speed response



## Step Three: Customer Service Improvements

- March-August 2018 Customer Service training for all AW staff
- May 2018 AE increased number of customer experience Quality Assurance reviews of agent calls
- May 2018 AE launched "tone & empathy" training for leaders and customer service representatives
- October 2018 new permanent positions in AW consumer services and meter shop to facilitate review and response
- 2019 AW reorganization & new position: Assistant Director for Customer Experience



#### Step Four: Ongoing Stakeholder Communications

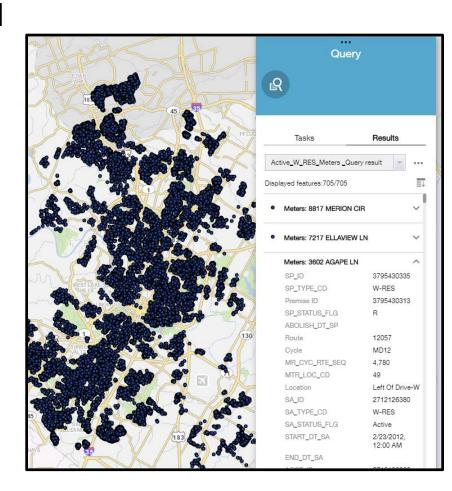
- December 2017-August 2018 Joint workgroup of Electric Utility and Water/Wastewater Commissions
- February 2018 Briefings & Memos to City Council and Public Utility Commission
- February-April 2018 Multiple community open houses
- October 2018-May 2019 Monthly customer service metric reports to Water/Wastewater Commission





# Step Five: Ongoing Preventative Screening

- GPS screening reports to guard against meter reading fraud
- Adjustments to prioritize very high reads for further review
- Efforts to reduce estimated bills and review accounts with consecutive estimates
- New flag and review for bill segments over specified \$
- GPS tool to review daily meter reads for unexpected high use

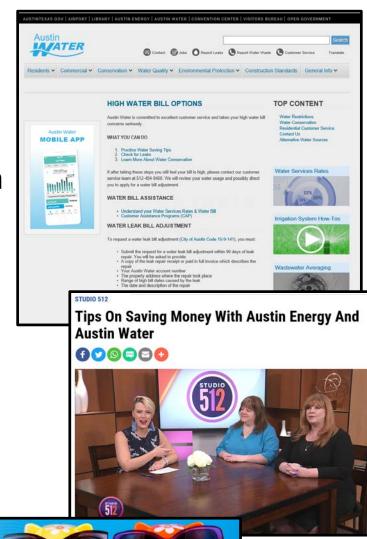




### Step Six: Customer-Facing Outreach

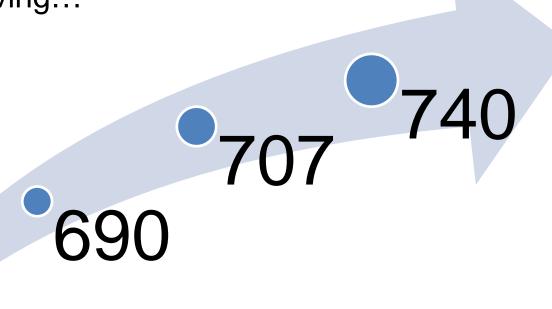
Enjoy Summer Savings

- (Note: this is the critical one...)
- New webpage dedicated to high bills
- Water enforcement staff retasked for additional irrigation audits during high demand periods
- Joint Austin Energy/Austin Water "Summer Savings" campaign
  - Print, radio, TV, morning news spots & community events
- Email to customers whose bill \$ doubled from April to July prior year
  - 49% open rate



# Is It All Working?

Overall JD Power satisfaction scores improving...

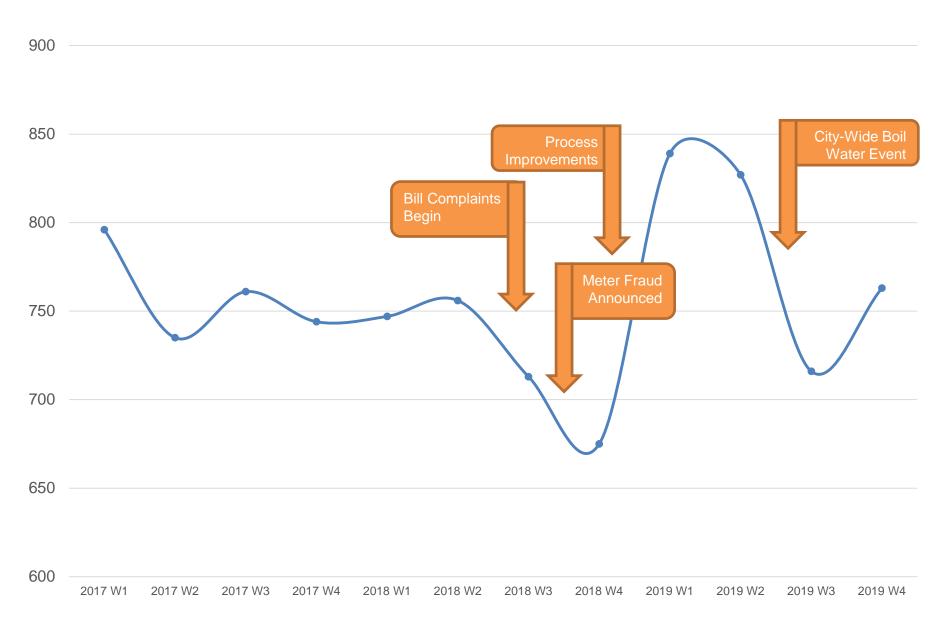


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... but regaining trust is a long process, with many influences.



# JD Power Customer Service Trends





#### Final Thoughts

- Processes are stronger and more customer-friendly after this experience, with additional dedicated resources
- Customers continue to underestimate typical summer use
- Overall utility trust is key to successful conservation education
- ... and AMI will need this level of trust to facilitate customer adoption.
- Good news: 2019 was our hottest September and our lowest GPCD!

