Developing Innovative, Data-Driven Watershed Solutions

Joone Lopez, General Manager
About Moulton Niguel Water District

• Water, recycled water & wastewater services
• Serve 6 cities in South OC
• Annual Budget: $134M
• Key Revenues: Property tax & rates
• 7 Board Members & 140 employees
• 160+ stormdrain outfalls in MNWD service area (400+ in OC)
• 55,000 meters (4,500 on AMI)
Evolution of Data Collection
Using Big Data to Achieve Water Reliability

Achieving Financial Resiliency

Maximizing Reliability

Establishing Partnerships

Supporting Strategic Policy Decisions
Between today and 2017-10-29 there is a 50 percent chance demand will exceed supply for at least 6 days, totalling 6 million gallons.
Our Watersheds

MNWD and the Orange County Watersheds

Moulton Niguel Water District
Identifying Watershed Opportunities

“Urban Drool”
- Unnatural, unpermitted, non-exempted dry weather flows
- Increases with imperviousness
- Carries urban increased pollutant loads
- Inefficient water practices exacerbate it

Affects
- Water supply
- Water balance
- Water quality

The water that flows off your yard and enters the storm drain carries pollution and debris to the ocean that can be harmful to marine life and humans.
Regional Stormwater Collaboration

• Stormwater MOU with County, Cities, NGOs

• Identify data gaps and watershed opportunities (how much runoff?)

• Overall goal to reduce runoff and improve quality of local creeks and beaches
Data at the Customer Level

• Advanced Metering Infrastructure (AMI)
• Hourly water usage
• Customer portal
How Can Data Help You?

• Develop cost-effective tools, programs and projects

• Leverage data science to ensure water reliability

• Establish innovative partnerships

• Enhance statewide and local policies by sharing data and applied technologies

• Engage with customers using a targeted, personalized approach
Contact Us

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