

# Utility Energy Audits

*Public Works & Utilities  
Utilities Optimization Program*



*January 14, 2020*



# Utilities Optimization Program

**MISSION:** *The Utilities Optimization Program will reduce costs and failure risks of the water and wastewater systems.*

## OUTCOMES

Firm Savings	Modeled Savings	Total Savings
\$3.0 million	\$3.5 million	\$6.5 million
<i>Annual Savings Expected at UOP Conclusion (2023)</i>		

STRATEGIES (Firm Savings)	Status
Revenue Identification	Complete
Chemical Use & Cost Reductions	In Progress
Energy Use & Cost Reductions	Pending contract approval

## Utilities Optimization Program 2019 Highlights

- Achieved \$1.77 M in firm savings
- Extending computerized maintenance management system (Lucity) across all 4 divisions (2 FTE)
- Distributed 114 tablet computers to field staff
- Expanding team to support asset management and capital project optimization

Firm Savings Projects Completed	
Chemical savings	\$5,000
Energy savings	\$95,000
Labor savings	\$25,000
Revenue identification	\$1,645,000
<b>Total</b>	<b>\$1.77 M</b>

## Energy Audit Project

- Goal: Energy savings of \$750,000 per year



- Desired qualifications:
  1. Expertise in energy analysis and engineering
  2. Expertise in water/wastewater treatment process engineering

## Energy Audit Project - Deliverables

### Investment-grade (Level 3) Audit

- Hess Pump Station
- Cheney Pump Station
- Water Resource Recovery Plant 2

### Basic (Level 1) Audit

- ASR
- Water Treatment Plant (current)
- 3 Booster Pump Stations
- 2 Sewer Lift Stations
- 4 Water Resource Recovery Plants

## Selection Process

- Three proposals received; all were interviewed
- Proposals considered by a Staff Screening & Selection Committee in accordance with the City's policy for professional services contracts
- Selected vendor: Burns & McDonnell with subconsultants Entegrity and PEC
  - Demonstrated experience with similar energy projects
  - Strong experience with water and wastewater treatment processes
  - Competitive pricing
- Not-to-exceed cost of \$309,575

# Utility Energy Audits (Professional Services Contract)

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