



Water Loss Control Program



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Background



- 2015 – California legislature adopted Senate Bill 555
 - Annual water audits due beginning October 2017
- 2016 – Water System Optimization (WSO) hired to conduct water audit and develop a Water Loss Control Program

2016 Water Audit



Calendar Year 2015 Water Data

Performance Indicator	Score	Units
Unavoidable Annual Real Losses	91.5	Million Gallons/Year
Current Annual Real Losses	354.9	Million Gallons/Year
Net Avoidable Annual Real Losses	263.4	Million Gallons/Year
	721,644	Gallons/Day (Average)

Water Loss Control Program



- Purpose:
 - To reduce water losses within the water distribution system in a cost-effective manner
 - Quantify water loss and categorize the losses into apparent losses versus real losses

Water Loss Control Program



- Recommendations included:
 - Modifications at the Water Treatment Plant to be able to better test and accurately account for water entering and exiting the facility
 - Analyze meters to ensure that they are sized appropriately and are accurately accounting for water usage
 - Perform pipeline leak detection

2017 Water Audit



Calendar Year 2016 Water Data

Performance Indicator	Score	Units
Unavoidable Annual Real Losses	91.5	Million Gallons/Year
Current Annual Real Losses	252.2	Million Gallons/Year
Net Avoidable Annual Real Losses	160.7	Million Gallons/Year
	440,274	Gallons/Day (Average)

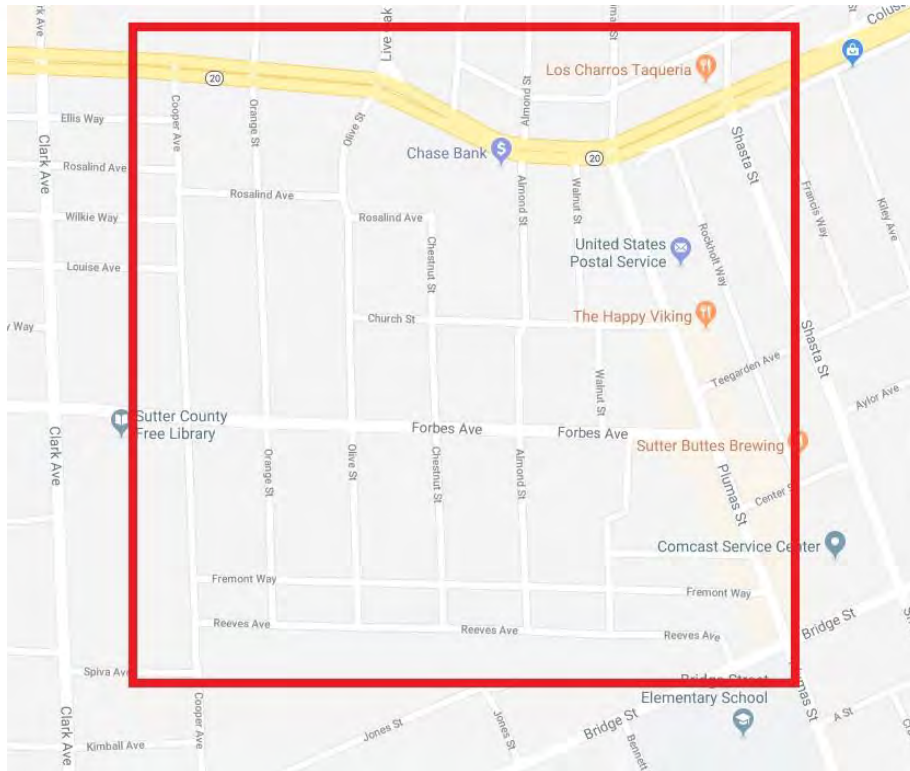
Reduction in losses as compared to the 2016 Water Audit is largely due to more accurate data as a result of calibration of meters at the Water Treatment Plant

Next Steps

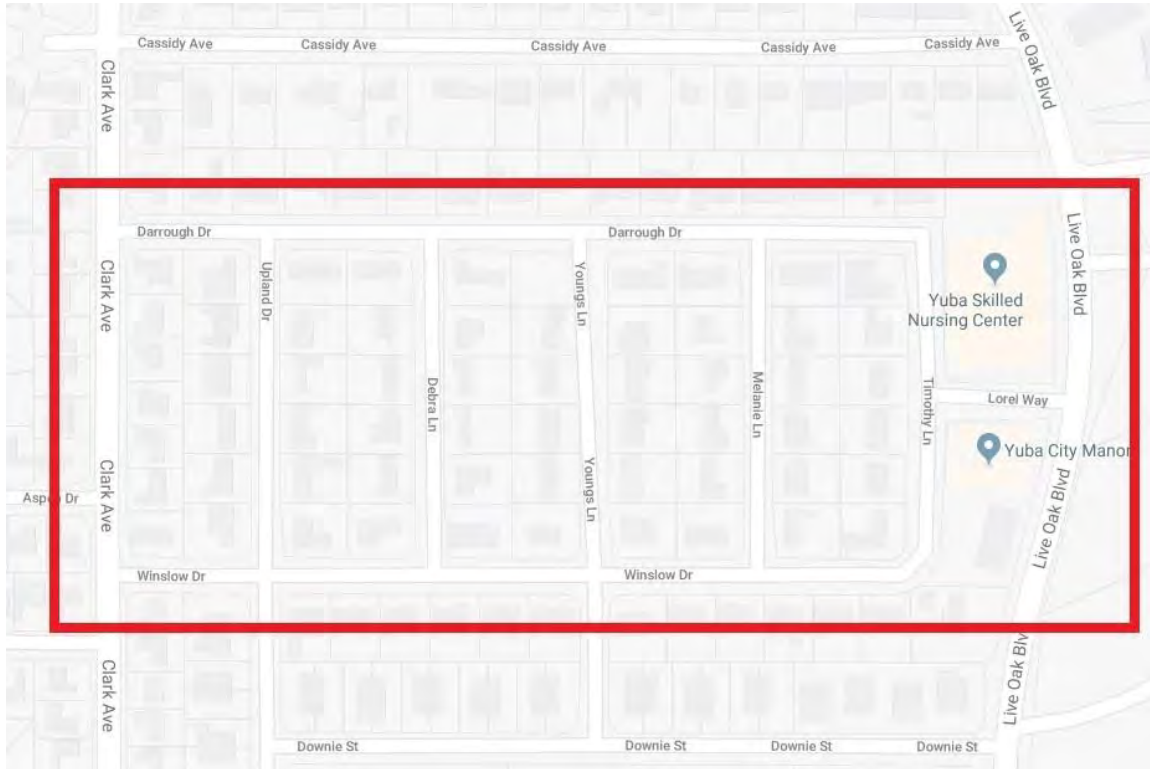


- Significant opportunities to reduce real water losses in a cost-effective manner
 - Pipeline leak detection
 - Downtown
 - Darrough Tract
 - Southwest Area

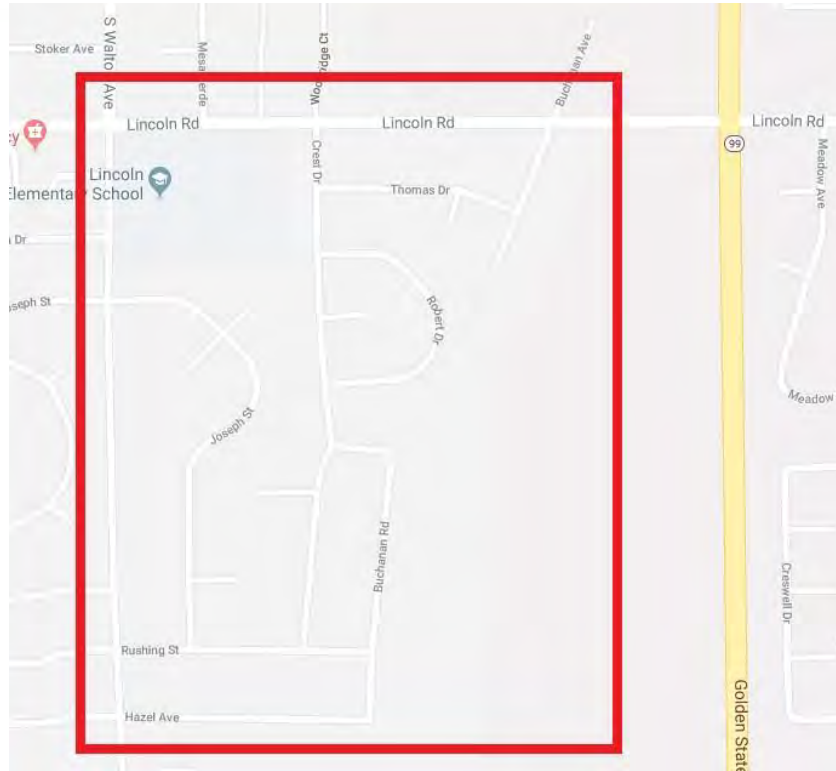
Downtown Area



Darrough Tract



Southwest Area



Fiscal Impact



- Not cost-effective to reduce all water losses
- Balance the cost of water with the cost of the improvements required to reduce water losses

Questions?

