






Prop 84 Round 1 Rural Disadvantaged Communities Partnership Project

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1

Overview

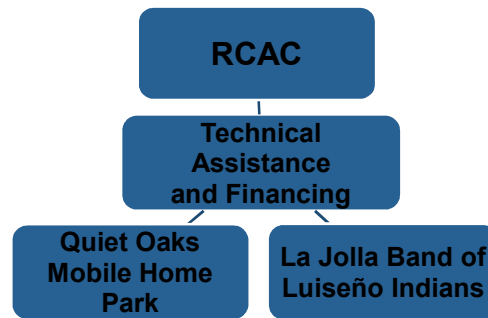
- Purpose, goals and objectives
- Challenges
- Amendments
- Work completed



2

Purpose: reduce potential for high public health risks in water and/or wastewater systems

Goal: provide funding to address water supply & water quality issues affecting rural DACs & tribal communities



3

Objectives

- Recognize and support rural DACs and tribal communities in implementing critical water projects
- Provide outreach and Prop 84 funding to DACs and tribal communities
- Outreach to DACs to promote capacity development



4

Original Grant Proposal

- DAC project selection
- Lead DAC stakeholder group
- Provide DAC outreach
- Disperse funding to selected DACs
- Provide project oversight and TA



5

Project Budget Vs. Final Costs

Budget Category	Original Budget	Amended Budget	Final Project Costs
A: Direct Project Administration Costs	\$10,000	\$32,232	\$32,232
C: Planning/Design/Engineering /Environmental Documentation	\$155,000	\$268,268	\$276,221
D: Construction/Implementation	\$324,000	\$200,018	\$199,915
F: Construction Administration	\$26,000	\$14,482	\$14,482
TOTAL	\$515,000	\$515,000	\$522,851



6

Project Challenges

- State requirements not tribal-friendly
- Revisions to Scopes of Work
- Lengthy approval processes and reimbursement turn-around time



7

Project Amendments

- Amendment No. 1 identified DAC local project partners and scopes of work
- Amendment No. 2 revised La Jolla Tribe's project and extended project period
- Amendment No. 3 realigned schedule and budget to latest scope of work



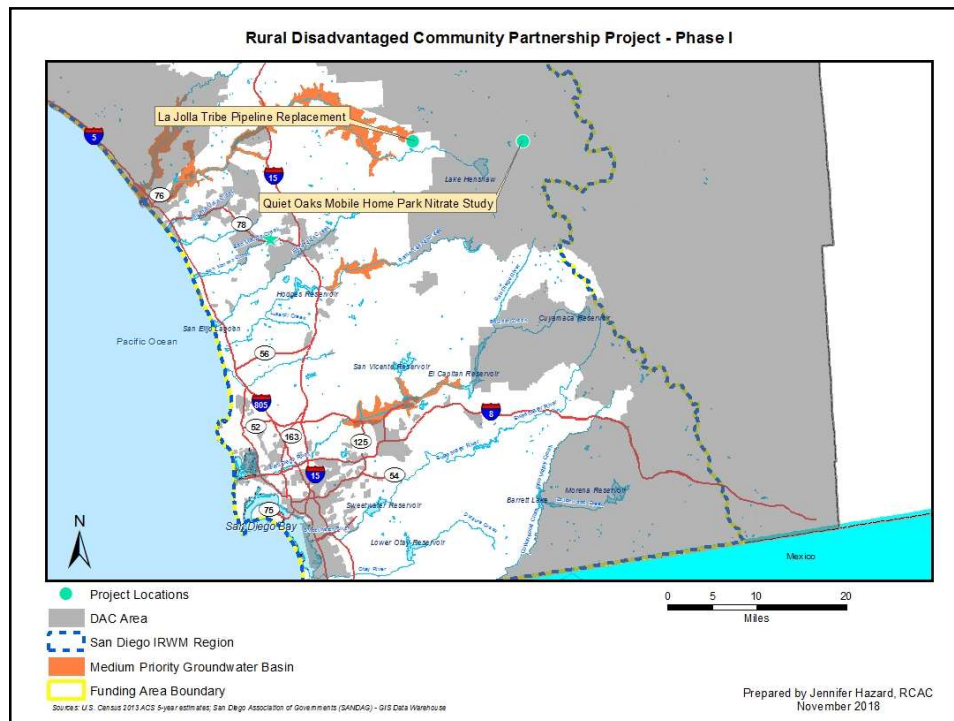
8

Projects Completed

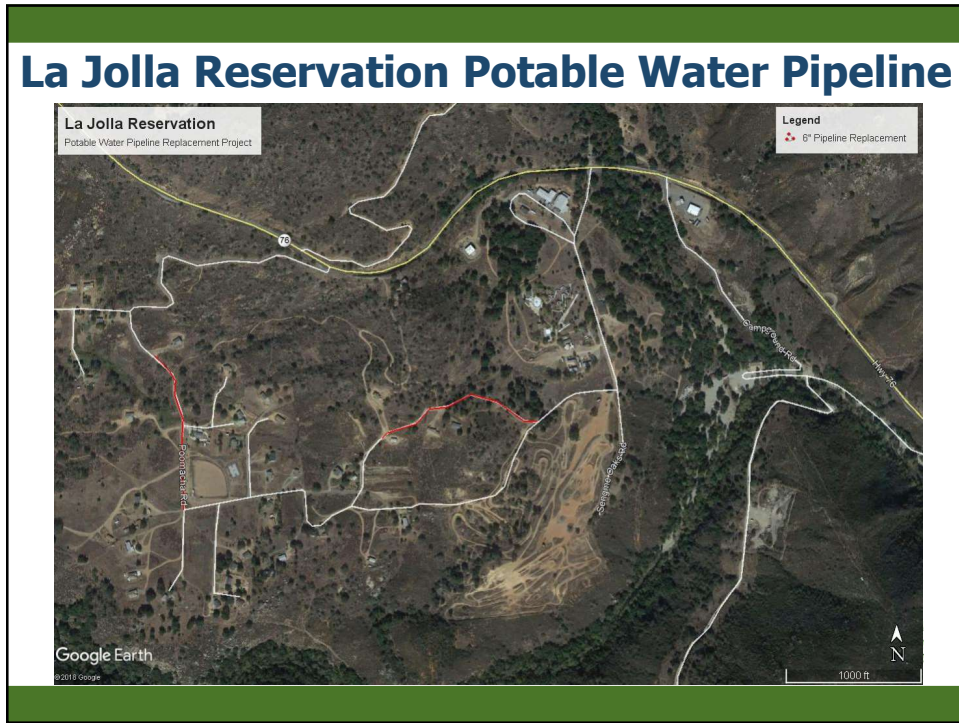
- 1) Quiet Oaks Mobile Home Park Nitrate Study Project
- 2) La Jolla Reservation (Poomacha) Potable Water Pipeline Replacement Project



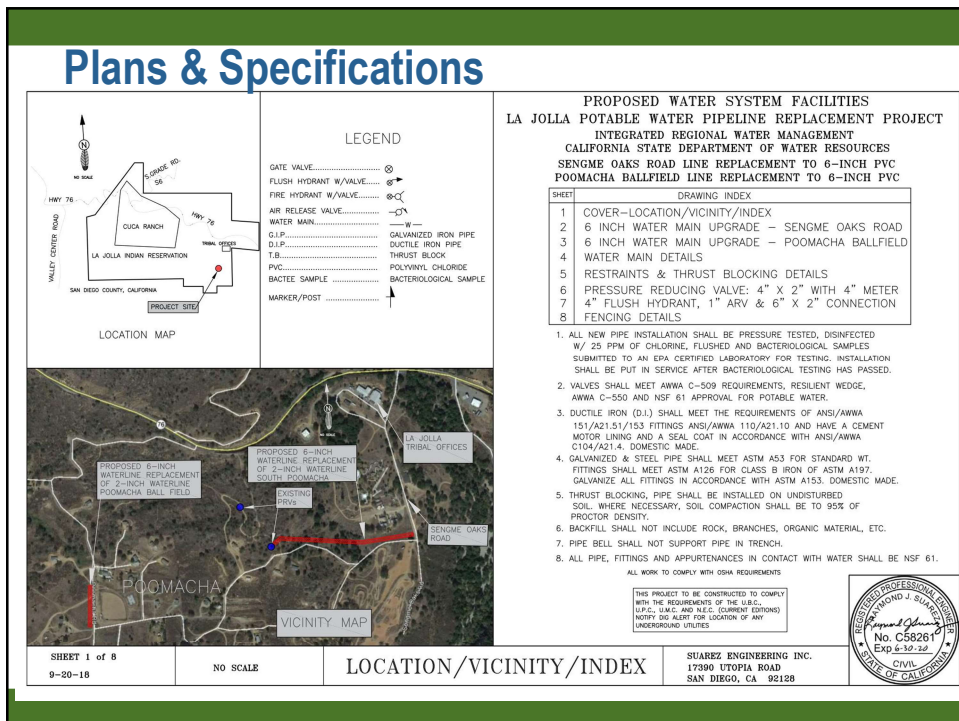
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10



11



12



13

Quiet Oaks Mobile Home Park Nitrate Study

Quiet Oaks Mobile Home Park

- Public water system (CA3701341)
- Provides potable water to ~35 service connections
- Documented, recurring nitrate exceedances since 2011
- Nitrate concentrations ~13ppm

Existing Facilities

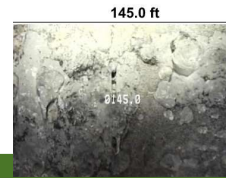
- One active potable water well (Well No. 3); one inactive/non-potable well (Well No. 1); one abandoned well
- 42,000-gallon bolted steel tank
- Booster pumps deliver water to distribution system from tank



14

Well Investigations – December 2016

- Well No. 1 – Well Depth 196 feet
 - Scaling on casing evident from depth of 10 feet
 - Slots in well casing start at 60 feet
 - Static water level ~122 feet
 - Well casing slots largely plugged by encrustations starting at 165 feet
 - Indication that well is only drawing from the upper portion of the aquifer, more susceptible to higher nitrate levels.



15

Quiet Oaks Mobile Home Park – Nitrate Solutions

Shallow bedrock = Deeper wells not an option

Well Redevelopment – Spring 2019

- Open perforations at lower depths of the wells
- Resampling post-redevelopment for nitrate
- Evaluate effectiveness of redevelopment / how far did nitrate concentrations fall

Treatment

- Not ideal – Additional operations costs, retaining a qualified operator in remote area, disposal of waste, etc.
- 30% design of treatment system
- Booster pumps deliver water to distribution system from tank
- Finishing environmental documentation – Application to State Waterboards for funding treatment plant construction



16



17

Thank you!

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18