

Waterworks District 40 – Shaver Springs

Water Supply Improvement Project

Final Conclusion of Alternatives Report

7.7 Evaluation and Recommendation

Based on this Phase I evaluation of technical feasibility, no single alternative described above can meet the County's goal. Of the existing wells potentially available, only the Storey well approaches an adequate capacity. The Myles (P-2) well has a cost similar to the Storey well due to the major cost of pipeline construction, yet the capacity is approximately one-third the capacity of the Storey well. Therefore, the Myles (P-2) well is not considered further. Other than the Storey well, only a new well would potentially provide enough water, but the capacity of a new well would be determined based on a minimum 10-day well capacity test. The following two scenarios were compared:

Obtain Storey Well

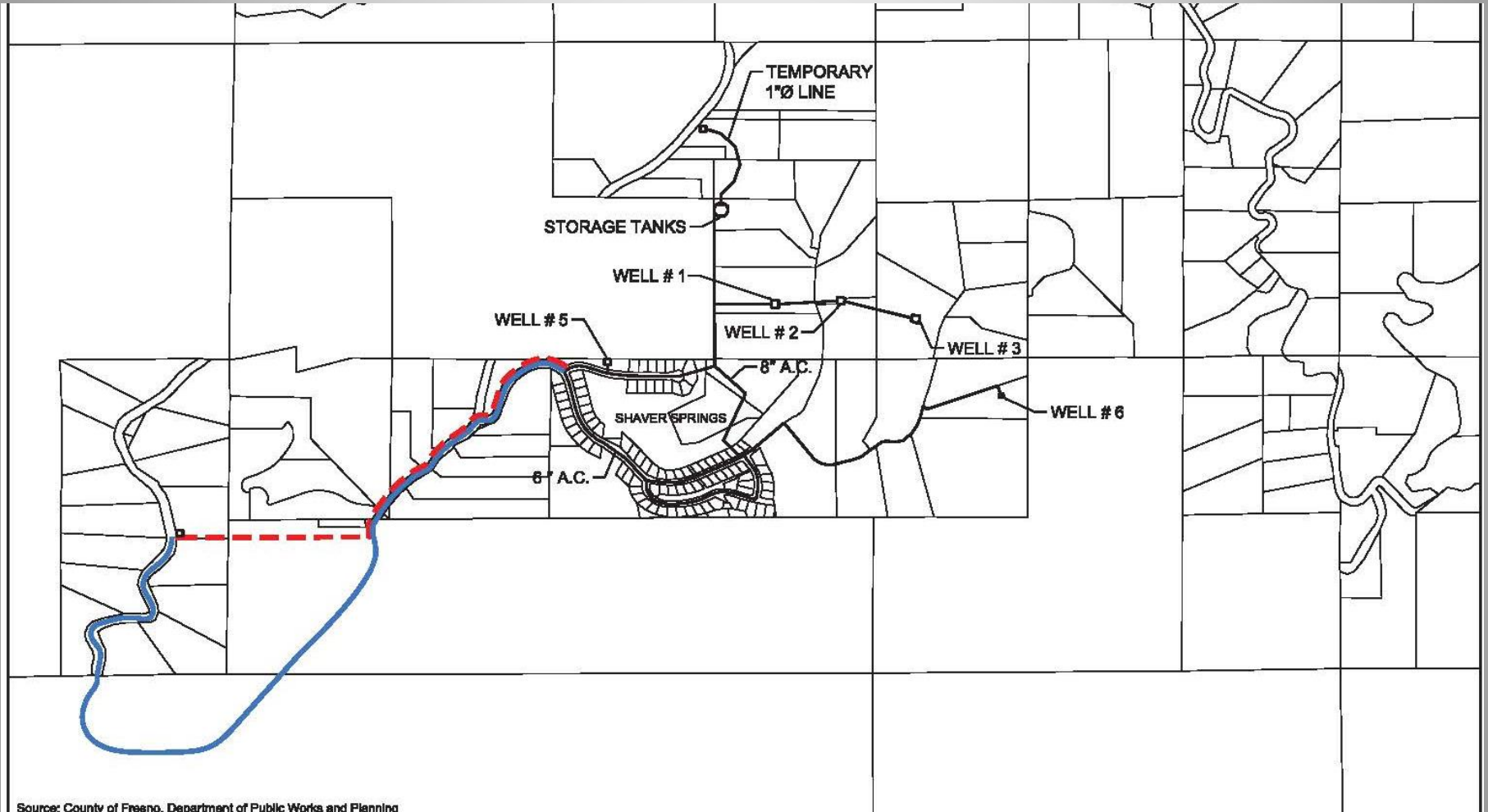
OR

Construct New Well

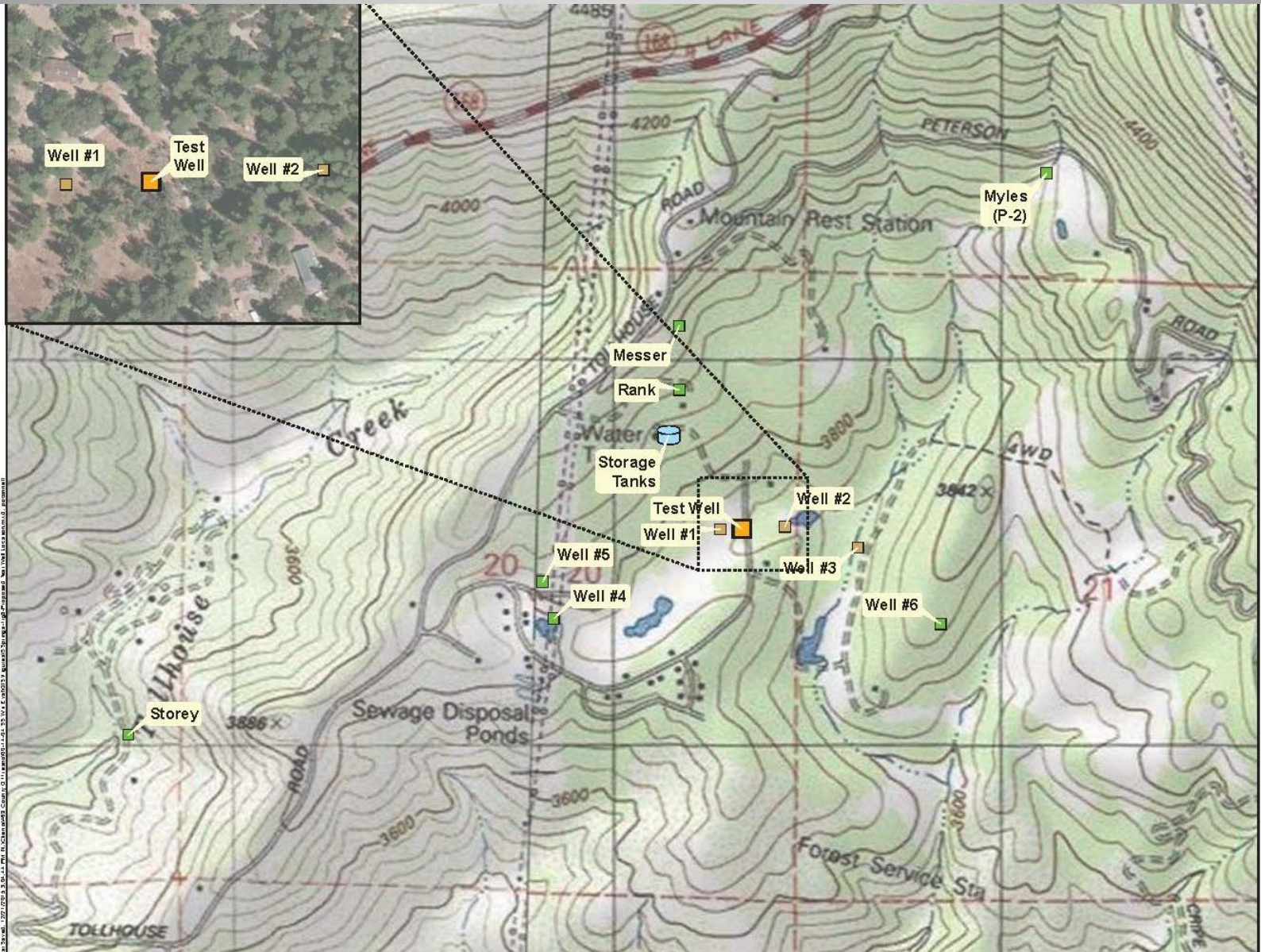
- Test the well
- Complete Environmental Design Plans and Specifications
- Purchase of existing Storey Well and Obtain Pipeline Easement
- Improvements to Storey Well
- Connection to existing facilities and construction of treatment facilities if necessary

- Drill New Well and determine quality and quantity of Water
- Complete Environmental Design Plans and Specifications
- Purchase Parcel of Private Land and Pipeline Easement to Water System
- Connection to existing facilities and construction of treatment facilities if necessary

Storey Well Location & Pipeline Route



New Well Location



New Well – Geophysical survey

Last Revised: 04-21-16; NC0469100-14-04 WPEvaluation of Water Supply Alternatives/Figures

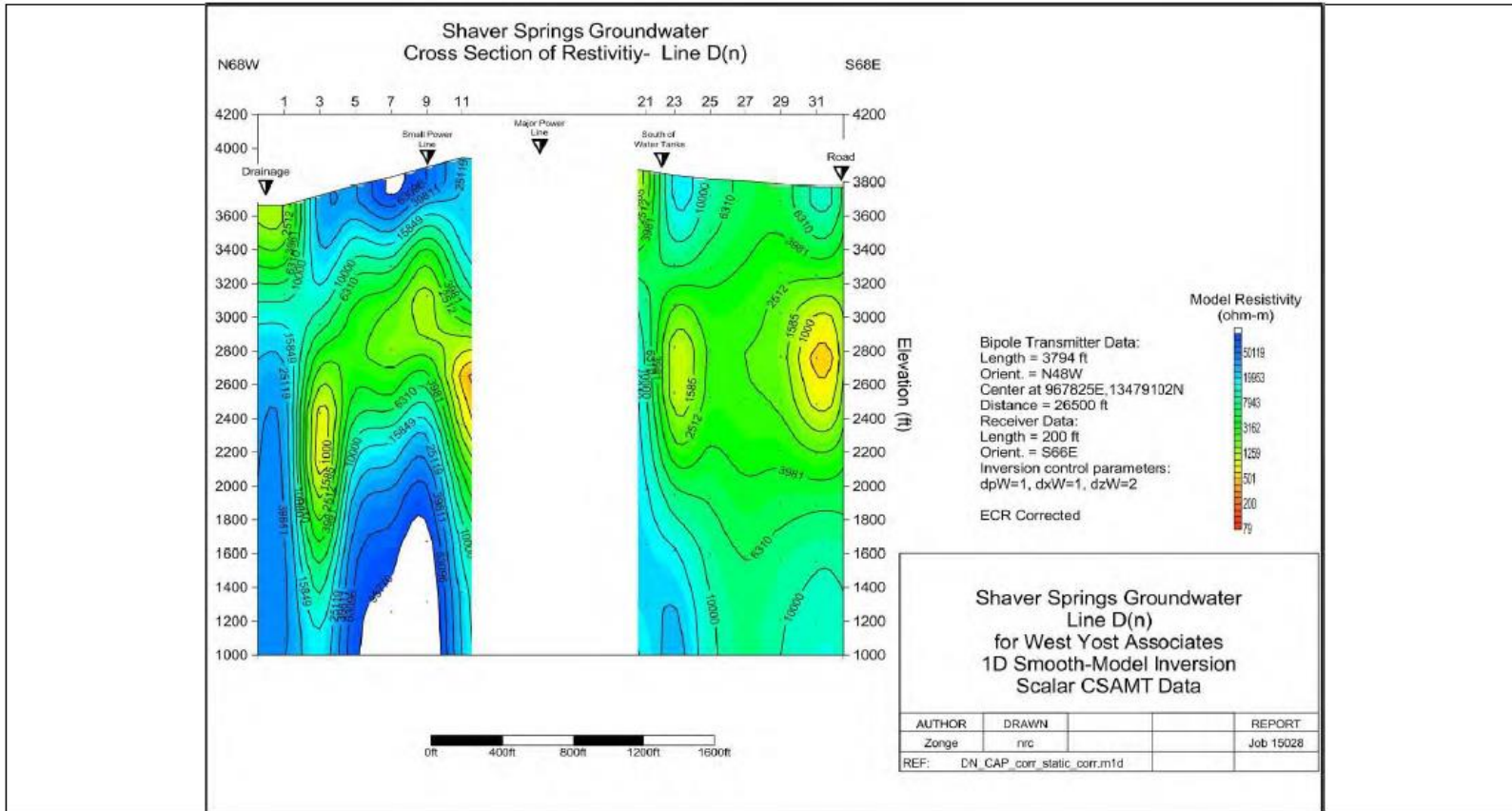


Figure 8

Survey Cross-Section, Line D North

County of Fresno
Shaver Springs/WWD 40
Phase I Water Supply Alternatives
Evaluation and Phase II Work Plan

Source: Zonge International, Inc., 2015. Controlled-Source Audio-Frequency Magnetotelluric Survey Shaver Springs Groundwater Project Fresno County, California. September.



Planning Costs utilizing State loan to Date

- Administrative Costs (Invoicing, claim to State, RFPs, Public Meeting, Project Management)
 - \$30,000
- Prop 218, Assessment report, Planning funding application (completed)
 - \$65,000
- Eng Report/Environmental/Survey/RoW
 - \$36,000
- Hydrogeological Investigation (completed)
 - \$162,000 (Engineer's fee)
 - \$ 65,000 (Consultant oversight & coord., c/ w/ State & DWR, right of Entry, permit w/ Forest Service)
- Total Expenditures = **\$357,803**

Available Budget

- Total Planning Agreement
 - \$425,000
- Planning Funds Spent
 - \$357,803
- Remaining Planning Budget
 - **\$67,197**
- Maximum Construction Loan
 - **\$1,259,000** (Based on 1.8% Interest Rate & current assessment)

Estimated budget costs of Storey Well vs New well (Finalize Design & Construction)

STOREY WELL

• Remaining planning cost	\$182,000
• Engineering Services During Construction/ Construction Admin.	\$75,000
• Construction & RoW Acquisition Cost	\$940,000
Total Construction Cost	<u>\$1,197,000</u>

Note: Assuming no treatment is necessary

NEW WELL

• Remaining planning cost	\$72,000
• Engineering Services During Construction/ Construction Admin	\$55,000
• Construction & RoW Acquisition Cost	\$315,000
Total Construction Cost	<u>\$442,000</u>

Note: - assumes no treatment necessary
- Test hole destruction +/- \$10,000 (necessary if test proves well not being suitable)

Project update:

- **October 2016:** County issued “survey” requesting feedback from 92 assessed parcels to utilize \$70,000 of District funds to prepare necessary paper work and drill new test well on private property
- **November 2016:** County opened surveys. Majority of received survey were in favor of utilizing these funds
- **December 2016 to February 2017:** County prepared a draft agreement in collaboration with Citizen Advisory Committee (CAC) to present to property Owner and draft specifications to bid the project
- **March 10, 2017:** County met with Property Owner. Handed draft agreement. County surveyors staked potential well location
- **April 2017:** County received terms from property owner

For compensation for the test well and 20 year lease on our property we'd like the following,

Test well: \$500.00 per month for the test well.

Well Site: \$125,000.00 for the 20 year lease on the well site.

Our water bill fixed at \$30 per month.

Grading and graveling our driveway from the road to the main house and the garage with a culvert pipe for drainage where the driveway meets the road.

Project update:

- **April 2017:** the County forwarded terms to CAC
- **June 2017:** County met with property owner to discuss terms
- **July 2017:** Property owner emailed revised terms to County.

Our updated list of compensation is as follows,

\$500.00 per month rental for the test well.

\$30.00 per month flat rate for water

\$60,000.00 for the well site easement

- **July 2017:** County received an email from CAC requesting to stop further negotiations with property owner. CAC proposed other ideas.
- County decided to have a community meeting
- Expenditure today \$ 5,500 out of \$70,000.

Questions