



ATTACHMENT 9 - PAST PERFORMANCE

Tranquillity Irrigation District (TID or District) has experience with similar projects involving the construction of capital improvement projects, wells, and data gathering. TID also has experience successfully completing projects with grant funds from the State of California. These projects illustrate the District’s ability to perform high-quality work, manage funds and meet deadlines for similar projects. A summary of the experience with three grant-funded projects follows:

NEW WELL FEASIBILITY STUDY & DRINKING WATER IMPROVEMENT (“ARSENIC REMEDIATION”) PROJECT



**New Well Feasibility
Study Test Well**

In January 2012, TID completed an investigation funded from a \$497,000 feasibility study grant to determine a cost effective and reasonable solution to high arsenic levels in the District’s drinking water wells. Subsequently in March 2012, the District applied for \$4,508,000 in construction funds for the selected project, with expected award in the summer of 2012. Both grants are through the Safe Drinking Water, Water Quality and Supply, Flood Control, River and Coastal Protection Bond Act of 2006, Section 75022 (Proposition 84), funded by the California Department of Public Health (CDPH), Project P84-1010030-002.

The feasibility study was completed on time and on budget (\$490,628 used of the available \$497,000). **Exhibit 9.1** is a letter from CDPH indicating that the feasibility study is complete and inviting the District to apply for construction funding. The feasibility study was complete on November 9, 2011, prior to the

December 1, 2011 deadline.

The study included a hydro-geologic investigation to determine the best area for new groundwater wells, and the construction of casing hammer test wells to gather geologic information and zonal water quality sampling in a selected area. Based on the information obtained, it was determined that the best solution was to convert two existing agricultural wells (see **Exhibit 4.1** for location of Wells #20 and #21) to drinking water wells. With the well location determined, the remaining portion of the study focused on obtaining right-of-way for pipelines and a treatment plant site, preparing CEQA documents for the project, and preparing plans and specification for pumps, motors and pipeline portion of the project.

DOMESTIC WATER SYSTEM TANK & BOOSTER PUMP REPLACEMENT PROJECT

In February 2005, TID began operation of a new domestic water storage tank and booster pumps, funded primarily through a \$689,379 Proposition 13 Infrastructure Rehabilitation Construction Grant from the Department of Water Resources (Contract E68006). The District



oversaw the preparation of contract plans and specifications, construction management, and grant administration. Project components included 500,000 gallon welded steel on-ground storage tank, booster pump system, emergency diesel generator, disinfection equipment, instrumentation, and controls. The District was also responsible for the management of the consultant performed geotechnical investigation, site survey, civil design, electrical sub-consultant, and DWR required grant reporting.

Exhibit 9.2 contains the final project report, with the attachments for the CDPH/DHS compliance and construction Notice of Completion, indicating that construction was complete prior to the February 28, 2005 grant project deadline. Overall project costs (\$896,087) were greater than the application estimate (\$689,379), primarily due to factors beyond the District’s control. These factors included 1) the delay in obtaining a funding agreement (a Nov 2001 grant application and Jul 2003 agreement execution) during which general construction costs escalated significantly, and 2) the worldwide volatility in steel prices at the time of construction. The TID Board of Directors concluded that these cost overruns were unavoidable and agreed to pay them with District funds.



500,000 gallon Tank for the Domestic Water System

MENDOTA POOL TELEMETRY PROJECT



Surface Water Level Telemetry System Computer Screen Shot

In October 2007, TID began operating the \$112,000 Mendota Pool Telemetry Project, after obtaining \$50,000 in grant funds from the US Bureau of Reclamation, Water Conservation Field Services Program Grant #07FG200028. With the installation of this telemetry system on an upper reach of the Mendota Pool, six irrigation and water districts (including TID) are better able to manage surface water irrigation supplies delivered from Mendota Pool as water surface levels will be known in real time.

The District was responsible for project oversight, coordination with other agencies, directing consultants and the main contractor, as well as providing District forces and equipment for a portion of project construction. **Exhibit 9.3** is the final report for the project submitted to Reclamation. The project was completed on time, with construction completed in mid September 2007, prior to the September 30, 2007 deadline. The project was completed within an acceptable budget contingency (less than 10%), with final project costs of \$111,627, compared to the preliminary application estimate of \$104,000, which was prepared 6 months earlier. The TID Board of Directors determined that the cost overrun was within an acceptable contingency considering the preliminary nature of the original estimate, and agreed to pay the small difference.



RON CHAPMAN, MD, MPH
Director & State Health Officer

State of California—Health and Human Services Agency
California Department of Public Health



EDMUND G. BROWN JR.
Governor

JAN 10 2012

Danny Wade, Manager
Tranquillity Irrigation District
25390 W. Silveira
Tranquillity, CA 93668

Dear Mr. Wade:

**INVITATION TO APPLY FOR A CONSTRUCTION GRANT FROM PROPOSITION 84,
SECTION 75022, SMALL COMMUNITY INFRASTRUCTURE IMPROVEMENTS FOR
CHEMICAL AND NITRATE CONTAMINANTS**

The California Department of Public Health (CDPH), Division of Drinking Water and Environmental Management acknowledges that the below mentioned feasibility study is complete:

Proposition 84 Funding Source:	Section 75022
Public Water System Name:	Tranquillity Irrigation District
Project Number:	P84-1010030-002
Project Title:	Arsenic Treatment

This letter serves as an invitation to apply for a construction grant from the Safe Drinking Water, Water Quality and Supply, Flood Control, River and Coastal Protection Bond Act of 2006 (Proposition 84). A new project number, **P84C-1010030-002C**, has been assigned to the construction portion of this project. Please note that a "C" suffix has been appended to the end of the newly assigned project number to identify it as a construction project. Please use the new project number, including the assigned suffix, on all correspondence relating to the construction project.

If you intend to apply for a construction grant under Proposition 84, please complete and submit the Application no later than sixty (60) calendar days from the date of this letter. If for any unforeseen reason you are unable to comply with any of the above requirements, you should contact the CDPH Fresno District Office as soon as possible.

Mr. Wade
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Please submit three (3) complete application packages to the following locations:

Two (2) application packages, excluding plans and specifications, to:

Proposition 84 Program
Division of Drinking Water and Environmental Management
California Department of Public Health
P.O. Box 997377, MS 7408
Sacramento, CA 95899-7377

One (1) application package, excluding plans and specifications, to:

California Department of Public Health
Drinking Water Field Operations Branch
265 W. Bullard Avenue, Suite 101
Fresno, CA 93704

Electronic copies of the application materials are available at the following website:
<http://www.cdph.ca.gov/services/funding/Pages/Prop84.aspx>. If you wish to receive a
hardcopy of the application materials, please contact the Proposition 84 funding
program and a copy will be sent to you.

If you do not intend to apply for a construction grant under Proposition 84, please
contact the Proposition 84 funding program and your project will be removed from the
Project Priority List.

This invitation letter is not an authorization to begin construction, nor is it a guarantee
that a construction grant will be available. Unless prior written approval from CDPH is
received, initiation of construction of this project prior to the execution of a
Proposition 84 construction funding agreement may result in your project being
ineligible for a Proposition 84 construction grant.

Thank you for your interest in Proposition 84 funding. If you have any questions, please
contact the Proposition 84 funding program at (916) 449-5640.

Sincerely,



Kim Wilhelm, P.E., Chief
Technical Programs Branch
Division of Drinking Water and Environmental Management

Mr. Wade
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cc: Carl Carlucci
Southern California Regional Engineer
Division of Drinking Water and Environmental Management
California Department of Public Health
265 W. Bullard Avenue, Suite 101
Fresno, CA 93704

Betsy Lichti
Fresno District Engineer
Division of Drinking Water and Environmental Management
California Department of Public Health
265 W. Bullard Avenue, Suite 101
Fresno, CA 93704

TRANQUILLITY IRRIGATION DISTRICT'S

Water Tank Replacement Project

Final Report

to the

Department of Water Resources

Proposition 13

Including the period September 1, 2004 to February 28, 2005.

I. EXECUTIVE SUMMARY

The goal of the Tranquillity Irrigation District's "Water Tank Replacement Project" was to construct facilities for the purpose of replacing the District's failing 50,000 gallon elevated domestic water storage tank. The majority of the funding for construction was provided from a \$689,379 Proposition 13 Infrastructure Rehabilitation Construction Grant from the Department of Water Resources. The project benefits the community by replacing an old and failing storage tank, providing additional storage and higher flows for high demand periods like peak days and possible fires, and increased system reliability during power outages.

Project construction consisted of one 500,000 gallon welded steel on ground storage tank, a triplex booster pump system capable of pumping approximately 1,500 gpm (25 horsepower each, two equipped with variable frequency drives), 100 KW emergency diesel powered generation equipment, hypochlorite disinfection equipment, instrumentation, controls and appurtenances.

The grant application was submitted to the Department in November 2001. The letter of commitment from DWR is dated July 5, 2002. The Contract was executed by the District in July 2003. The Department of Water Resources conducted a site inspection on October 4, 2004.

The District awarded a contract for construction to Vulcan Construction & Maintenance for \$693,200 on May 11, 2004. The Notice to Proceed was issued May 25, 2004. The construction was completed February 18, 2005 with a Notice of Completion filed for record February 24, 2005. The final Vulcan Construction & Maintenance construction cost was \$704,642.

II. REPORTS AND/OR PRODUCTS

Record Drawings

The project has been substantially completed in accordance with the intent of the design, and in general compliance with the plans and specifications. “Record Drawings” for the construction are included as **Attachment A** in both paper and digital formats.

III. COST & DISPOSITION OF FUNDS INFORMATION

Pay Estimate Summary

Documentation on the pay estimates submitted to the Department is shown in **Table 1 – Summary of Pay Estimates Amounts & Dates.**

SUMMARY OF PAY ESTIMATE AMOUNTS & DATES
 TRANQUILLITY IRRIGATION DISTRICT
 DWR Proposition 13 Contract No.: E68006

Pay Estimate	Amount Requested (Less Retention)	Retention Amount	Date Submitted to DWR	Date Received by District
1	\$ 63,285.66	\$ 7,031.74	03/13/04	06/21/04
2	109,134.16	12,126.02	08/24/04	11/04/04
3	188,119.69	20,902.19	09/17/04	11/24/04
4	110,062.85	12,229.21	10/25/04	02/04/05
5	149,838.73	16,648.75	01/19/05	Pending
Final	68,937.91	–	03/11/05	Pending
Total	\$ 689,379.00	\$ 68,937.91		

Table 1 – Summary of Pay Estimate Amounts & Dates

Project Cost Summary

Table 2 – Approximate Project Cost Summary shows a comparison between the costs estimated when the grant application was submitted in November 2001 and at the conclusion of construction in February 2005. The primary difference is in the tank construction costs which is largely attributed to the increased costs due to increases in oil prices, increases in steel prices, and increases in liability insurance and workers compensation insurance. All costs greater than \$689,379 were covered by District funds. No costs were submitted under the Line Item 3 – Environmental, as these costs were paid by the District separate from the grant amount as part of the application.

APPROXIMATE PROJECT COST SUMMARY
 TRANQUILLITY IRRIGATION DISTRICT
 DWR Proposition 13 Contract No.: E68006

Line Item	Amount Requested (Less Retention)	Initial B&E Allotment	Approximate Project Amount	Difference
1	Engineering & Planning	\$ 58,000	\$77,389	\$ (19,389)
2	Construction Materials/Installation/Tank	586,910	706,593	(119,683)
3	Environmental	6,000	0	6,000
4	Construction/Administration/Other	22,300	71,227	(48,927)
5	Legal/License/Permit	16,169	11,065	5,104
Other	Application, CEQA, other	\$ 689,379	\$866,275	\$ (176,896)
		0	29,812	(29,812)
	Total	\$ 689,379	\$ 896,087	\$ (206,708)

Table 2 – Project Cost Summary

IV. ADDITIONAL INFORMATION

Regulatory Compliance

A permit was required from the San Joaquin Valley Air Pollution Control District for a “Permit to Operate” the emergency generator. A copy of the permit, showing compliance with Air Board requirements is included as **Attachment B**. Approval for the project was also required from the Department of Health Services (DHS). A letter from DHS indicating that the new tank is installed and operating in conformance with DHS requirements is **Attachment C**.

Notice of Completion

A Notice of Completion (**Attachment D**) was filed for record February 24, 2005 indicating that the construction contract requirements have been completed.

Certification of Project Completion

The Department of Water Resources “Certification of Project Completion” has been prepared and the original is included as **Attachment E**.

ATTACHMENT C

DHS COMPLIANCE



State of California—Health and Human Services Agency
Department of Health Services



ARNOLD SCHWARZENEGGER
Governor

March 11, 2005

System No. 1010030

Mr. Eric Abrahamsen
Provost & Pritchard Engineering, Inc.
286 W. Cromwell Ave.
Fresno, CA 93711-6162

**RE: Project Completion of Ground Level Storage Tank and Booster Station for
Tranquillity Irrigation District**

Dear Mr. Abrahamsen:

On January 13, 2005, the Department of Health Services visited the above subject site and verified that the project met the approved design specifications. The project was completed when the existing above ground storage tank was severed from the distribution system. Pictures have verified the separation of the existing above ground storage tank therefore completing the project.

If you have questions regarding this letter, please contact Ken Johnson or me at (559) 447-3300.

Sincerely,

James N. Stites, P.E.
Senior Sanitary Engineer
SOUTHERN CALIFORNIA BRANCH
DRINKING WATER FIELD OPERATIONS

JNS/KLJ



Do your part to help California save energy. To learn more about saving energy, visit the following web site:
www.consumerenergycenter.org/flex/index.html

Southern California Drinking Water Field Operations Branch
1040 E. Herndon Avenue, Suite 205, Fresno, CA 93720
(559) 447-3300; Fax (559) 447-3304
Internet Address: <http://www.dhs.ca.gov/ps/ddwem/>

REC'D MAR 14 2005

ATTACHMENT D

NOTICE OF COMPLETION

RECORDING REQUESTER BY
FOR THE BENEFIT OF
AND WHEN RECORDED MAIL TO

Name Tranquillity Irrigation District
Sargeant Green, General Manager
Street Address 25390 W. Silveira St
City & State Tranquillity, CA 93668

02/24/2005, 20050043276

SPACE ABOVE THIS LINE FOR RECORDER'S USE

NOTICE OF COMPLETION

Notice pursuant to Civil Code Section 3093, must be filed within 10 days after completion. (See reverse side for Complete requirements.)

Notice is hereby given that:

1. The undersigned is owner or corporate officer of the owner of the interest or estate stated below in the property hereinafter described:

2. The full name of the owner is Tranquillity Irrigation District

3. The full address of the owner is 25390 W. Silveira St. Tranquillity, CA 93668

4. The nature of the interest or estate of the owner is; In fee.

No recording or filing fee: Government Code Section 6103 and 27383

(if other than fee, strike "In fee" and insert, for example, "purchaser under contract of purchase," or "lessee")

5. The full names and full addresses of all persons, if any, who hold title with the undersigned as joint tenants or as tenants in common are:
NAMES ADDRESSES

None

6. A work of improvement on the property hereinafter described was completed on February 18, 2005. The work done was:

Water Tank Replacement and Booster Pump Construction

7. The name of the contractor, if any for such work of improvement was Vulcan Construction and Maintenance

May 11, 2004

(If no contractor for work of improvement as a whole, insert "none")

(Date of Contract)

8. The property on which said work of improvement was completed is in the City of Tranquillity, CA,

County of Fresno, State of California, and is described as follows: Fresno County Assessor's Parcel Number 030-031-024

9. The street address of said property is 25390 W. Silveira St

(If no street address has been officially assigned, insert "none".)

Dated: 2.24.05

Verification for Individual Owner



Signature of owner or corporate officer of owner
named in paragraph 2 or his agent

Sargeant Green, General Manager

VERIFICATION

I, the undersigned, say: I am the General Manager, Tranquillity Irrigation District,

("President of", "Manager of", "A partner of", "Owner of", etc.)

declarant for the foregoing notice of completion; I have read said notice of completion and how the contents thereof; the same is true of my own knowledge. I declare under penalty of perjury that the foregoing is true and correct.

Executed on 2.24.05, 2005, at Tranquillity, California.
(Date of signature.) (City where signed.)



(Personal signature of the individual who is swearing that
the contents of the notice of completion are true.)

Sargeant Green, General Manager

Maria E. Castaneda
Grant and Cooperative Agreement Officer
U. S. Bureau of Reclamation, Mid Pacific Region
Acquisition Services, MP 3813
2800 Cottage Way, Room E-1815
Sacramento, CA 95825-1898

Water Conservation – Field Services Program

Final Grant Report Summary

Grant #: 07FG200028

Tranquillity Irrigation District
2007 Mendota Pool Telemetry Project

Project Description:

The purchase, installation, and programming of telemetry/SCADA equipment at four locations to improve efficiency of surface water deliveries.

Meeting Project Goals:

As part of the reported expenses the District has purchased and installed the proposed telemetry/SCADA system at the four locations - base station (server) at district's office, monitoring equipment on the upper reach of Mendota Pool (Fresno Slough at San Joaquin Valley Railroad by Fresno Slough Water District Lift#2), and two points of surface water delivery off of the Mendota Pool to Tranquillity Irrigation District (Tranquillity ID Lift #1 and Lift #2). The telemetry/SCADA system allows for the remote monitoring of surface water levels, pump status (on/off), and pump discharge rate (based on hours run). If a water level is out of normal operating ranges, an alarm is generated, and District staff are notified by phone. Information on water levels and pumpage is also available for viewing by San Luis Delta Mendota Water Authority staff, the District's consulting engineer and James Irrigation District staff, for comparison to the level of Mendota Pool at Mendota Dam. Pictures of purchased materials and images of installations at the four sites are attached as Attachment "A". Attachment "B" contains computer screen shots of the "human machine interface" for the SCADA/telemetry system.

Project Costs:

The District has spent \$111,627.53 on the design, purchase, and installation since project approval. Additional costs have been incurred by the District for the project but these costs were not documented, nor are they reported.