Santa Cruz County Sanitation District

701 OCEAN STREET, SUITE 410, SANTA CRUZ, CA 95060-4073
(831) 454-2160 FAX (831) 454-2089 TDD/TTY- CALL 711

JOHN J. PRESLEIGH, DISTRICT ENGINEER

AGENDA

Santa Cruz County Sanitation District
Seven Hundred Forty-first Regular Meeting

Thursday, June 8, 2017
4:45 P.M.

D. A. Porath Sanitation Facility
2750 Lode Street

Page #

1. **ROLL CALL**

2. **APPROVAL OF MINUTES OF MAY 18, 2017** ..... 2-1 thru 2-3

3. **ORAL COMMUNICATIONS**

4. **CONTINUING AGREEMENTS LIST FOR 2017-18**: Consider authorizing the District Engineer to negotiate and execute agreements and authorize the Auditor-Controller to adjust the agreements list for changes in appropriations

   a. Letter of the District Engineer ..... 4-1 thru 4-2
   b. Continuing Agreements List 4-3

5. **2017/2018 SEWER SERVICE CHARGE REPORT - PUBLIC HEARING**: Hold a public hearing and consider adoption of a resolution overruling protests and confirming the report on sewer service charges for fiscal year 2017/2018.

   a. Letter of the District Engineer 5-1
   b. Resolution No. 17-02, A Resolution of the Santa Cruz County Sanitation District Overruling Protests and Confirming Report on Sewer Service Charges for the fiscal year 2017/2018 ..... 5-2 thru 5-3
   c. 2017/2018 Adopted Sewer Service Charges 5-4
   d. **PUBLIC HEARING**

6. **PROPOSED 2017/2018 SANTA CRUZ COUNTY SANITATION DISTRICT BUDGET**: Consider adoption of the proposed Santa Cruz County Sanitation District budget.

   a. Letter of the District Engineer 6-1
   b. Letter of the District Engineer from the May 18, 2017, meeting ..... 6-2 thru 6-5
   c. 2017/2018 Santa Cruz County Sanitation District Budget ..... 6-6 thru 6-16
   d. **PUBLIC HEARING**

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PROCEDURE FOR ADOPTING ORDINANCE NO. 136
1. Chairperson asks secretary to read title; 2. Secretary reads title; 3. Director moves detailed reading be waived; 4. Director moves adoption of ordinance in concept and placement on next available agenda for final adoption.

7. **PROPOSED ORDINANCE NO. 136, AMENDING TITLE 2, SECTION 2.04.140 OF THE DISTRICT CODE REGARDING CONTRACTING FOR CONSTRUCTION, MAINTENANCE, REPAIR, OR INDEPENDENT CONTRACTOR WORK**: Consider adopting, in concept, Ordinance No. 136, Amending Title 2, Section 2.04.140 of the District Code regarding Contracting for Construction, Maintenance, Repair, or Independent Contractor work.

   a. Letter of the District Engineer 7-1
   b. California Legislative Information, Public Contract Code, Division 2, Part 3, Chapter 1, Article 50 7-2
   c. Proposed Ordinance No. 136, Amending Title 2, Section 2.04.140 of the District Code Regarding Contracting for Construction, Maintenance, Repair, or Independent Contractor work.
      i. Showing Revisions ..... 7-3 thru 7-4
      ii. Final Form ..... 7-5 thru 7-6

8. **SOQUEL PUMP STATION FORCE MAIN REPLACEMENT PROJECT UPDATE:** Review updated on subject project.

   a. Letter of the District Engineer 8-1

9. **SEACLIFF STATE PARK SINKHOLE EMERGENCY REPAIR PROJECT UPDATE:** Ratify emergency contracts and authorize payment for the subject project.

   a. Letter of the District Engineer ..... 9-1 thru 9-2

10. **HIDDEN BEACH PUMP STATION CONCRETE REPAIRS RE-BID RECOMMENDATION**: Consider approving the plans, specifications, and engineer's estimate for the subject project and authorize calling for bids.

   a. Letter of the District Engineer 10-1
   b. Notice to Contractors 10-2
   c. Plans and Specifications ..... DISPLAY

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11. **HIDDEN BEACH WAY SEWER EXTENSION PROJECT, PROPERTY ACQUISITIONS, DAMIAN & TRISTA HANDISIDES, 674 BAYVIEW DRIVE, APTOS, APN 043-131-43**: Consider adopting a resolution approving and accepting the terms and conditions of the property acquisition agreement.

a. Letter of the District Engineer ..... 11-1 thru 11-2
b. Resolution No. 17-03, Hidden Beach Way Sewer Extension Project Acquisition of Land Rights, Damian & Trista Handisides, 674 Bayview Drive, Aptos, APN 043-131-43 ..... 11-3 thru 11-4
c. Agreement ..... 11-5 thru 11-7

12. **COLLECTION SYSTEMS ODOR CONTROL, CONTRACT WITH EVOQUA WATER TECHNOLOGIES, LLC**: Consider approving an independent contractor agreement with Evoqua Water Technologies, LLC, for providing various chemicals, equipment, and technical services to assist the District in controlling odor-producing sulfides.

a. Letter of the District Engineer ..... 12-1 thru 12-2
b. Independent Contractor Agreement ..... 12-3 thru 12-8
c. Proposal/Scope of Work ..... 12-9 thru 12-20

13. **SELECTION OF QUINCY ENGINEERING FOR THE SECONDARY FORCE MAIN FEASIBILITY STUDY**: Consider approving an independent contractor agreement with Quincy Engineering for preparation of a feasibility study to evaluate the best option for a secondary force main.

a. Letter of the District Engineer ..... 13-1 thru 13-2
b. Independent Contractor Agreement ..... 13-3 thru 13-9
c. Proposal/Scope of Work ..... 13-10 thru 13-73

14. **GREEN SCHOOLS – O'NEILL SEA ODYSSEY DISTRICT CONTRIBUTION FOR FISCAL YEAR 2017 THROUGH 2021**: Consider approving a $9,500 annual contribution to O'Neill Sea Odyssey for their education program for youth.

a. Letter of the District Engineer ..... 14-1 thru 14-2
b. Cost Breakdown 14-3
c. Letter of O'Neill Sea Odyssey, dated March 1, 2017 ..... 14-4 thru 14-5

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15. **GREEN BUSINESS CONTRACT WITH ENVIRONMENTAL INNOVATIONS**: Consider approving a contribution to Environmental Innovations for Green Business consulting services.

a. Letter of the District Engineer ..... 15-1 thru 15-2
b. Scope of Work 15-3

16. **WRITTEN CORRESPONDENCE:**

a. Email from Lyn Hood, regarding Proposed Rate Increase 16-1
b. Email from Beau Kayser, regarding Low Water Use Program ..... 16-2 thru 16-3
c. Email from Randall Venn, regarding Rates and Proposed Increase 16-4

17. **ADJOURNMENT TO AUGUST 3, 2017**

As a courtesy to those persons affected, please attend the meeting smoke and scent free. The Santa Cruz County Sanitation District complies with the Americans with Disabilities Act (ADA). The Board of Directors Chambers is located in an accessible facility. Persons with disabilities may request a copy of the agenda in an alternative format. If you need special assistance or accommodations to attend this meeting, please contact the District at 454-2160 (TDD/TTY- CALL 711) at least 72 hours in advance of the meeting, to make arrangements. If you have a question about an agenda item, please call District staff at 454-2160. Agenda documents, including those received after the publication of these agenda materials may be reviewed at the office of the District Secretary, Room 410 of the County Government Center Building at 701 Ocean Street, Santa Cruz, California.

PROCEEDINGS OF THE BOARD OF DIRECTORS
SANTA CRUZ COUNTY SANITATION DISTRICT

MAY 18, 2017
4:45 P.M.

D. A. Porath Sanitation Facility
2750 Lode Street
Santa Cruz, California

* *

The seven hundred fortieth regular meeting of the Board of Directors of the Santa Cruz County Sanitation District is now in session pursuant to adjournment, by declaration of Chairperson Harlan.

PRESENT: Director Leopold, Director Friend, Chairperson Harlan, District Counsel, and the Secretary

APPROVAL OF MINUTES OF APRIL 20, 2017 -approved

Director Leopold states that in past conversations with District Council, Board members are allowed to vote on minutes even if they are absent. District Council, T. Brooke Miller, states for the record that as long as Directors have reviewed the minutes and are familiar with what occurred at the meeting to confirm they are accurate, they are allowed to vote on minutes of meetings they may have been absent from.

Upon motion of Director Leopold, duly seconded by Director Friend, it is ordered by the Board, by unanimous voice vote, that the minutes of April 20, 2017, be and are hereby approved.

APPROVAL OF MINUTES OF MAY 4, 2017 -approved

Upon motion of Director Leopold, duly seconded by Director Friend, it is ordered by the Board, by unanimous voice vote, that the minutes of May 4, 2017, be and are hereby approved.

ORAL COMMUNICATIONS

Mr. Lewis speaks to the Board regarding what the Assessor's office is billing the District, sewage reservoirs, and garbage disposals.

SANITATION FISCAL REPORT -ratified

The Board considers a list of claims recommended for ratification by the District Engineer.

Upon motion of Director Leopold, duly seconded by Director Friend, it is ordered by the Board, by unanimous voice vote, that the list of paid invoices for the month of March, FY 2016-2017, in the amount of $1,007,409.78, be and is hereby ratified.

PROPOSED ORDINANCE NO. 134 AMENDING DISTRICT CODE, TITLE 5, ARTICLE III, SECTION 5.04.180, ELIMINATION OF LOW RATE DISCHARGER SEWER SERVICE CHARGE - Ord. #134 adopted

The Sanitation Engineer, Kent Edler, explains the subject item and recommends the Board approve final adoption of Ordinance No. 134, Amending District Code, Title 5, Article III, Section 5.04.180, Elimination of Low Rate Discharger Sewer Service Charge.

Upon motion of Director Friend, duly seconded by Director Leopold, it is ordered by the Board, by unanimous voice vote, that Ordinance No. 134, Amending District Code, Title 5, Article III, Section 5.04.180, Elimination of Low Rate Discharger Sewer Service Charge, be and is hereby adopted with the District Secretary directed to publish said ordinance, or a summary of said ordinance, once within fifteen days and take related actions as required.

PROPOSED ORDINANCE NO. 135 AMENDING DISTRICT CODE, TITLE 5, ARTICLE III, SECTIONS 5.04.180 THROUGH 5.04.220, SEWER SERVICE CHARGES (2017/2018) -Ord. #135 adopted

The District Engineer, John Presleigh, explains the subject item and recommends the Board adopt Ordinance No. 135, Amending District Code, Title 5, Article III, Sections 5.04.180 through 5.04.220, Sewer Service Charges, and approve final adoption. Director Leopold states that these are modest increases.

Upon motion of Director Friend, duly seconded by Director Leopold, it is ordered by the Board, by unanimous voice vote, that Ordinance No. 135, Amending District Code, Title 5, Article III, Sections 5.04.180 through 5.04.220, Sewer Service Charges (2017/2018), be and is hereby adopted, with the District Secretary directed to publish said ordinance, or a summary of said ordinance, once within fifteen days and take related actions as required.

Director Harlan adds that staff will be looking at tiered rate structures in the future.

CONTRACT AGREEMENT WITH CAL ENGINEERING & GEOLOGY, INC., FOR GEOTECHNICAL ENGINEERING CONSULTING SERVICES FOR THE EAST CLIFF, PORTOLA, & RICHMOND DRIVES SEWER REPLACEMENT PROJECT -approved

Mr. Edler explains the subject item and recommends the Board approve an independent contractor agreement with Cal Engineering & Geology, Inc., for geotechnical engineering consulting services for the East Cliff, Portola, & Richmond Drives Sewer Replacement project.

Upon motion of Director Leopold, duly seconded by Director Friend, it is ordered by the Board, by unanimous voice vote, that the transfer of funds in the amount of $41,843, including overhead from Appropriations for Contingencies to the East Cliff, Portola, & Richmond Drives Sewer Replacement project, and an independent contractor agreement with Cal Engineering & Geology, Inc., in the amount of $37,696, for preparation of a geotechnical report, be and are hereby approved with the District Engineer authorized to sign the contract on behalf of the District.

PROPOSED 2017/2018 SANTA CRUZ COUNTY SANITATION DISTRICT BUDGET
- approved

Mr. Presleigh, explains the subject item and recommends that the Board accept the proposed budget and return to the Board on June 8, 2017, for a final budget hearing. Director Leopold states he likes the way the information is presented. Board and staff discussion ensues.

Upon motion of Director Leopold, duly seconded by Director Friend, it is ordered by the Board, by unanimous voice vote, that the proposed 2017/2018 Santa Cruz County Sanitation District Budget be and is hereby accepted and the District Secretary directed to publish the Notice of Public Hearing.

ADJOURNMENT

There being no further business to come before the Board, Chairperson Harlan hereby adjourns this meeting of the Board to the next scheduled meeting, to be held Thursday, June 8, 2017, at 4:45 p.m., at the D. A. Porath Sanitation Facility meeting room, 2750 Lode Street, Santa Cruz, California.

Secretary

Santa Cruz County Sanitation District

701 OCEAN STREET, SUITE 410, SANTA CRUZ, CA 95060-4073
(831) 454-2160 FAX (831) 454-2089 TDD: (831) 454-2123

JOHN J. PRESLEIGH, DISTRICT ENGINEER

AGENDA DATE: JUNE 8, 2016

BOARD OF DIRECTORS
SANTA CRUZ COUNTY SANITATION DISTRICT
701 Ocean Street, Room 410
Santa Cruz, California 95060

SUBJECT: CONTINUING AGREEMENTS LIST FOR 2017-18

Members of the Board:

The attached Continuing Agreements List identifies consultant and vendor agreements which will extend into fiscal year 2017-18, and when approved by your Board, it becomes the authority for continuing contractual services and payments. Continuing agreements for service continuation are defined by type and identified in sections as noted on the attachment.

Of the different vendors, some provide direct support for maintenance and operations such as root control, pump repair, and electrical installations. Others are needed to supplement the engineering section with design expertise, construction inspection, grant services, and permit compliance.

There are no Section II or III continuing agreements for fiscal year 2017-18. All of the vendors on the attached list are Section I vendors and are those agreements that, by their original terms, are multi-year or continuous and require no changes from the original terms. These agreements will not return to your Board for any future action. Agreements with built-in escalators or modifications do not need to return to your Board to implement the agreed upon changes. Section I contracts do require that your Board ratify these contracts for fiscal year 2017-18.

It is, therefore, recommended that your Board:

1. Authorize the District Engineer to negotiate and execute the agreements;

2. Authorize the Auditor-Controller to adjust the continuing agreements list for changes in appropriations made by the Board during budget hearings and to correct any errors other than amounts.

Yours truly,

JOHN J. PRESLEIGH
District Engineer

KM:dls/b1889

Attachment

copy to: Auditor-Controller
DPW Fiscal

SANTA CRUZ COUNTY SANITATION DISTRICT
CONTINUING AGREEMENTS LIST FORM 2017-2018

Department: PUBLIC WORKS

Enter only contracts that will be continuing for the Fiscal Year 2017-18
Do not include purchase order contracts and list contracts with increased or new amounts for 2016-17, otherwise list no new $$$.
Renewal Contract numbers with new money should begin with 18Dxxx.

Section I: Agreements which are multi-year or continuous and require no change from the original terms and contract number is the same and the balance automatically rolls.
Section I: Agreements which are multi-year or continuous and require no change from the original terms and need an increase in the contract amount.
Section II: Agreements which have no program changes but include changes in dates, term amounts, or method of payment and total contract payment increases not exceeding 10% of the old year amount.
Section III: Current Agreements which are not eligible to be included in Section I or II which are required to go to the Board for approval, ex. Contract increases over 10%, and program changes,etc.
Section IV: Revenue Agreements

Index	Sub-Obj	Section	Contract	Vendor #	VENDOR	Renewal Amount	Living-P/NP	Description
625175	62330	I	17D3804	V122570	ADOLFO GARCIA	90,000.00		SECT 1 CC LIST 17-18 - DPW-M&O COLLECTION
625195	86110	I	17D0159	V118448	ANDERSON PACIFIC ENGINEERING CONSTRUCTION INC	No new $$		SECT 1 CC LIST 17-18 - 38TH AVE PIPE REPAIRS
625175	62330	I	17D3543	V117254	COMMUNITY ACTION BOARD OF SANTA CRUZ COUNTY INC	15,000.00		SECT 1 CC LIST 17-18 - DPW-M&O PUMP STATIONS
625175	62330	I	18D3845	V122860	CONTROL SYSTEMS WEST INC	80,000.00		SECT 1 CC LIST 17-18 - DPW-M&O PUMP STATIONS
625175	62330	I	18D3602	V123584	DARREL VARNI ELECTRIC INC	50,000.00		SECT 1 CC LIST 17-18 - DPW-M&O ELECTRICAL
625125	86110	I	17D3854	V128369	GHD INC	No new $$		SECT 1 CC LIST 17-18 -DAVENPORT RECYCLED WATER SYS
136409	86110	I	17D0158	V124822	GUTIERREZ CONSULTANTS INC.	No new $$		SECT 1 CC LIST 17-18 - DPW-CONSULTING ENGINEERING SER
625175	62330	I	17D0161	V15210	INNOVYZE INC	No new $$		SECT 1 CC LIST 17-18 -DPW-COMPUTERS SOFTWARE
625175	62330	I	18D3816	V15252	J AND B CORROSION ENGINEERING ASSOCIATES INC	20,000.00		SECT 1 CC LIST 17-18 - DPW-ANNUAL CATHODIC PROTECTION
625175	62330	I	18D3620	V118994	LEWIS TREE SERVICE INC	90,000.00		SECT 1 CC LIST 17-18 - DPW-M&O PUMP STATIONS
625175	62330	I	18D3773	V117127	ONEILL SEA ODYSSEY	9,500.00		SECT 1 CC LIST 17-18 - DPW-PUBLIC OUTREACH
625125	86110	I	17D0160	V33869	PEREZ, OFELIA CHAPA	No new $$		SECT 1 CC LIST 17-18 -DAVENPORT RECYCLED WATER SYS
625125	62330	I	18D3160	V121880	SHAPE INC	150,000.00		SECT 1 CC LIST 17-18 - REPAIR AND SERVICE FOR PUMPS/MOTORS
625125	62330	I	18D3603	V119976	SOIL CONTROL LAB INC	10,000.00		SECT 1 CC LIST 17-18 - DPW-SEWER LAB WORK

4-3

Prepared by : G Holle

F:\FISCAL\Gen-Sccsd\Contracts\SCCSD CAL 1718 NEW FORMAT.xlsx

Santa Cruz County Sanitation District

701 OCEAN STREET, SUITE 410, SANTA CRUZ, CA 95060-4073
(831) 454-2160 FAX (831) 454-2089 TDD: (831) 454-2123

JOHN J. PRESLEIGH, DISTRICT ENGINEER

AGENDA DATE: JUNE 8, 2017

BOARD OF DIRECTORS
SANTA CRUZ COUNTY SANITATION DISTRICT
701 Ocean Street, Room 410
Santa Cruz, California 95060

SUBJECT: 2017/2018 SEWER SERVICE CHARGE REPORT - PUBLIC HEARING

Members of the Board:

Ordinance No. 135, adopted May 4, 2017, provides for collection of the District's sewer service charges on each year's tax roll, until June 30, 2029, pursuant to Section 5473 through 5473.11 of the Health & Safety Code of the State of California. Accordingly, on May 4, 2017, your Board set today, June 8, 2017, as the time of the annual hearing on the service charge report for sewer service charges on property within the Santa Cruz County Sanitation District.

The purpose of today's hearing is for the Board to hear and consider all objections or protests, if any, to the written report of service charges. The written report containing the assessor's parcel number, owner's name and the amount of the sewer service charges was filed for public review on, or before, May 25, 2017, with the District Secretary. Attached is a copy of the adopted sewer service charges.

It is recommended that the Board of Directors hold the public hearing and then consider the adoption of the attached resolution overruling protests and confirming the report on sewer service charges for the fiscal year 2017/2018.

Yours truly,

JOHN J. PRESLEIGH
District Engineer

AM:tlp/b1890

cc: Auditor - Controller

5-1

BEFORE THE BOARD OF DIRECTORS
OF THE SANTA CRUZ COUNTY SANITATION DISTRICT
SANTA CRUZ COUNTY, CALIFORNIA

RESOLUTION NO. 17-02

On the motion of Director
duly seconded by Director
the following resolution is adopted:

A RESOLUTION OF THE SANTA CRUZ COUNTY SANITATION DISTRICT OVERRULING PROTESTS AND CONFIRMING REPORT ON SEWER SERVICE CHARGES FOR THE FISCAL YEAR 2017/2018

RESOLVED, by the Board of Directors of the Santa Cruz County Sanitation District, Santa Cruz County, California, that

WHEREAS, on May 4, 2017, this Board appointed the time and place of public hearing on said report and directed notice, which notice was duly given in the manner provided by law as appears by the affidavits of publication on file in the office of the Secretary of said District; and

WHEREAS, a written service charge report was filed with the District Secretary on, or before, May 25, 2017, containing a description of each parcel of real property receiving services and facilities from the District and the amount of the service charges to be collected on the County Tax Roll for each parcel for the 2017/2018 fiscal year; and

WHEREAS, said matter came on regularly for hearing at the time and place fixed and all written protests and other communications were publicly read at said meeting and all persons desiring to be heard were fully heard.

NOW, THEREFORE, IT IS DETERMINED AND ORDERED, as follows:

1. That objections to, and protests against, said report were not made by the owners of a majority of the separate parcels of property described in the report;

2. That all objections to and protests against said report have been heard by this Board and that said objections and protests be, and each of them is hereby, overruled;

3. That said report is hereby adopted in full without revision and modification pursuant to Health and Safety Code Section 5473.3, and that the charges as specified in said report shall be collected on the tax roll of the County of Santa Cruz, in the manner provided by law;

4. That the Secretary of this District is hereby directed to file with the County Auditor-Controller-Treasurer-Tax Collector of Santa Cruz County, on or before the 10th day of August 2017, a copy of said report, upon which shall be embossed over her signature a statement that the report has been finally adopted by the Board of Directors of the Santa Cruz County Sanitation District.

5. The County Auditor of Santa Cruz County shall, upon receipt of said report, enter the amounts of the charges against the respective lots or parcels as they appear on the assessment roll for the fiscal year 2017/2018.

PASSED AND ADOPTED by the Board of Directors of the Santa Cruz County Sanitation District this 8th day of June 2017, by the following vote:

AYES: DIRECTORS
NOES: DIRECTORS
ABSENT: DIRECTORS

_____
Chairperson of said Board

ATTEST: _____
Secretary of said Board

Approved as to Form:

_____
District Counsel

Distribution: -Auditor-Controller
-Sanitation Engineering

tlp/17-c.wpd

Rates 2017/2018

USER GROUP	CHARGES 2017/18
Single Family Residence	$758.40/year
Multiple Family Residence	$654.12/year
Condo/Townhome	$654.12/year
Mobile Home	$560.16/year
Bakeries/Donut Shops	$305.16/year plus $11.58/HCF[1]
Restaurants/Catering	$305.16/year plus $11.58/HCF[1]
Food Processing	$305.16/year plus $13.27/HCF[1]
Funeral Parlor/Mortuary	$305.16/year plus $13.27/HCF[1]
Other Business (General)	$305.16/year plus $8.06/HCF[1]
All Schools (by water use)	$305.16/year plus $7.76/HCF[1]
Elementary Schools (by ADA)	$305.16/year plus $20.72/ADA[2]
Middle Schools (by ADA)	$305.16/year plus $20.72/ADA[2]
High Schools (by ADA)	$305.16/year plus $31.12/ADA[2]
Community Colleges	$305.16/year plus $27.40/FTES[3]
State Parks	$305.16/year plus $7.76/HCF[1]
Dominican Hospital	$305.16/year plus $8.46/HCF[1]
Chaminade	$305.16/year plus $11.37/HCF[1]
Septic tanks/Vacant land	$0.00

[1]HCF = Hundred Cubic Feet
[2]ADA = Average Daily Attendance
[3]FTES = Full Time Equivalent Students

Santa Cruz County Sanitation District

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(831) 454-2160 FAX (831) 454-2089 TDD: (831) 454-2123

JOHN J. PRESLEIGH, DISTRICT ENGINEER

AGENDA DATE: JUNE 8, 2017

BOARD OF DIRECTORS
SANTA CRUZ COUNTY SANITATION DISTRICT
701 Ocean Street, Room 410
Santa Cruz, California 95060

SUBJECT: PROPOSED 2017/2018 SANTA CRUZ COUNTY SANITATION DISTRICT BUDGET

Members of the Board:

On May 16, 2017, your Board set today as the date and time for a public hearing on the proposed 2017/2018 District budget. Following the public hearing your Board will need to consider and take action on the proposed 2017/2018 budget.

The attached budget has been adjusted to reflect the current estimated actual expenditures for 2016/2017 and project costs for 2017/2018 have been updated.

The final budget will be brought back to your Board on or before the scheduled September 7, 2017, regular meeting. Any changes made by your Board today, and adjustments necessary due to actual 2016/2017 year-end figures, will be included at that time.

The May 18, 2017, budget letter has been included for your information.

It is, therefore, recommended that your Board take the following actions:

1. Hold the public hearing on the 2017/2018 District budget; and

2. Adopt the 2017/2018 proposed budget, as presented.

Yours truly,

JOHN J. PRESLEIGH
District Engineer

KE:tlp/b1887
Attachment

Santa Cruz County Sanitation District

701 OCEAN STREET, SUITE 410, SANTA CRUZ, CA 95060-4073
(831) 454-2160 FAX (831) 454-2089 TDD: (831) 454-2123

JOHN J. PRESLEIGH, DISTRICT ENGINEER

AGENDA DATE: MAY 18, 2017

BOARD OF DIRECTORS
SANTA CRUZ COUNTY SANITATION DISTRICT
701 Ocean Street, Room 410
Santa Cruz, California 95060

SUBJECT: PROPOSED 2017/2018
SANTA CRUZ COUNTY SANITATION DISTRICT BUDGET

Members of the Board:

Attached for your review is the proposed District budget for the 2017/2018 fiscal year. This budget is based on the new sewer service charge rates which were adopted in concept by your Board on May 4, 2017. The proposed budget has expected expenditures and contingencies of $42.4 million and reserves of $3.7 million for a total of $46.1 million. This includes expenditures of $19.3 million in operating expenses (including $6.3 million for the District's share of operating the City of Santa Cruz wastewater treatment plant and ocean outfall), $2.4 million in loan payments, $11.7 million in wastewater capital improvement projects, $8.5 million in construction improvement projects, and $582 thousand in bond debt service payments.

The following projects are among those proposed to be constructed in 2017/2018 or are currently under construction in 2016/2017:

1) Neary Lagoon Force Main Rehabilitation
2) Hidden Beach Pump Station Concrete Repairs
3) Hidden Beach Way Sewer Extension
4) Valencia Creek Sewer Relocation
5) Soquel Pump Station Force Main Replacement
6) Capitola / Jewel Box Sewer Improvements
7) East Cliff Drive, Portola & Richmond Drives Sewer Replacements
8) Borregas Gulch Trunkline Replacement – Phase II

Approved by the Board of Directors, SCCSD on May 18, 2017
ATTEST: _____ Secretary

6-2

FIXED ASSETS

This year's proposed fixed assets budget includes funding for new service vehicles, motorized valves, gas detectors, and radios. The fixed assets are further detailed on page 2 of the budget.

OVERHEAD

The District's overhead of 11.5 percent includes administrative service salaries within the Public Works Department (personnel, fiscal, safety, MIS, and clerical) and executive salaries for staff providing oversight of the District as well as County Overhead (A-87 Cost Plan). The County overhead charges allocates the cost related to central support departments such as County Counsel, Personnel Department, Auditor-Controller, Purchasing, and other miscellaneous departments that provide a direct service to the District, as well as general costs for such items as facilities management, building use allowance, communications, and warehouse storage. There is also a 31.36 percent Division overhead that pays for insurance, training, salaries not billable to specific projects, and other indirect costs.

The following budgetary items reflect significant differences between the current and proposed budget amounts (see explanation below):

625175 OPERATING FUND (50/175)

BUDGET NO.	ITEM	15/16 ACTUAL	16/17 ADOPTED	17/18 RECOMMENDED	EXPLANATION
53128	Pump Stations	$1,650,262	$1,648,023	$1,800,000	This is due to the increased costs of repairing pumps.
53140	Tree Trimming	$7,040	$30,000	$75,000	This increase is due to required maintenance of the eucalyptus grove at the D.A Porath facility.

625175 SCCSD OPERATING FUND - SCHEDULE OF FIXED ASSETS

BUDGET NO.	ITEM	15/16 ACTUAL	16/17 ADOPTED	17/18 RECOMMENDED	EXPLANATION
New	Vacuum Truck	$0	$0	$350,000	Replacement vehicle.
New	F550 Trucks with Boom	$0	$0	$250,000	Replacement vehicles.

625195 SCCSD WASTEWATER CAPITAL IMPROVEMENT FUND (50/195)

BUDGET NO.	ITEM	15/16 ACTUAL	16/17 ADOPTED	17/18 RECOMMENDED	EXPLANATION
New #	East Cliff Transmission Secondary Force Main Feasibility Study	$0	$0	$425,000	This is to pay for a consultant to study alignments for a new force main.

136409 SCCSD CONSTRUCTION IMPROVEMENT FUND (50/185)

BUDGET NO.	ITEM	15/16 ACTUAL	16/17 ADOPTED	17/18 RECOMMENDED	EXPLANATION
53803	Capitola / Jewel Box Sewer Replacements	$0	$0	$150,000	This is to pay for surveying as well as consultants to perform an environmental analysis, a geotechnical study and other associated costs necessary for the design of the project.
53804	Cathodic Protection Construction	$8,135	$2,166	$250,000	This is to pay for cathodic protection throughout the District
53817	Consulting Engineering Services	$40,127	$239,015	$317,000	This increase is due to the contract with the District's loan and grant consultant.
53881	East Cliff, Portola, & Richmond Drives Sewer Replacement	$0	$0	$3,500,000	This amount consists of $3,300,000 for a new loan for the project as well as $200,000 to pay for surveying as well as for consultants to perform an environmental analysis, a geotechnical study and other associated costs necessary for the design of the project.
53886	Borregas Gulch Trunkline Replacement – Phase II	$0	$0	$1,000,000	This is to pay for the construction of the project, as well as some costs associated with design.

The final budget hearing is set for 4:45 p.m., Thursday, June 8, 2017, at the District's D. A. Porath Sanitation Facility. The attached Notice of Public Hearing will be published in the Santa Cruz Sentinel 15 days and 7 days prior to the budget hearing.

It is therefore recommended that your Board accept this proposed budget and direct the District Secretary to publish the Notice of Public Hearing.

Yours truly,

JOHN J. PRESLEIGH
District Engineer

KE:tlp/b1883

Attachment

Copy to: Mark Dettle, Director, City of Santa Cruz, Public Works

PROPOSED 2017/2018 BUDGET

SANTA CRUZ COUNTY SANITATION DISTRICT

Public Hearing
4:45 p.m., June 8, 2017
D. A. Porath Sanitation Facility
2750 Lode Street, Santa Cruz, California

Final Adoption: By September 7, 2017

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SANTA CRUZ COUNTY SANITATION DISTRICT
PROPOSED BUDGET 2017/2018

625175 SCCSD OPERATING FUND (50/175)

The Operating Fund is responsible for funding the expenses for the general operations of the District. No sewer connection fee revenue can be used to fund these operations pursuant to State guidelines.

EXPENDITURES:			15/16 Actual	16/17 Adopted	16/17 Est Act	17/18 Recommended
P53166 62330 SCCSD-Sewage Treatment - City Of Santa Cruz	Engr		4,431,906	6,278,000	5,978,000	6,278,000
Maintenance and Operations:						
P53107 62330 Public Outreach	Opns		36,408	50,000	50,000	50,000
P53110 62330 Permit Reviews	Opns		1,469	6,000	2,000	6,000
P53113 62330 Spill Response-Private Prop	Opns		1,610	10,000	6,000	10,000
P53115 62330 Spill Response-Main Sewer Spill	Opns		3,935	15,000	6,000	15,000
P53128 62330 Pump Stations	Opns		1,650,262	1,648,023	1,933,777	1,800,000
P53130 62330 Collection System	Opns		2,128,823	1,850,000	1,928,384	1,900,000
P53132 62330 East Cliff Facility	Opns		1,403,850	1,300,000	1,419,253	1,300,000
P53133 62330 Electrical	Opns		1,683,371	1,814,740	1,805,347	1,900,000
P53136 62330 Sulfide Control	Opns		945,354	900,000	1,167,462	950,000
P53138 62330 Utilities	Opns		787,872	750,000	670,508	750,000
P53140 62330 Tree Trimming	Opns		7,040	30,000	27,000	75,000
P53142 62330 Source Control Lab Work	Opns		19,152	22,000	25,863	22,000
P53143 62330 Emergency - Sewer Repair Wharf Rd	Opns		17,083	0	0	0
P53144 62330 Emergency - Sewer Repair Portola	Opns		0	0	80,955	0
P53174 62330 Source Control Program	Opns		378,082	422,000	453,600	422,000
P53190 62330 Infiltration/Inflow Reduction	Both		0	0	0	75,000
P53193 62330 Green Business Program	Opns		104,096	120,000	72,000	120,000
P53194 62330 Operations Lab Work	Opns		12,651	15,000	28,215	20,000
P53195 62330 Annual Cathodic Protection Testing & Repairs	Opns		17,006	50,000	21,519	35,000
P53198 62330 Permit Fees	Opns		23,822	40,000	38,113	40,000
Engineering:						
Various 62330 Permit Reviews	Engr		12,253	10,000	10,000	10,000
P53164 62330 General Engineering	Engr		1,494,871	1,506,559	1,500,000	1,600,000
P53168 62330 Service Charge Administration	Engr		139,685	44,970	25,000	90,000
Salaries and Wages:						
P53102 62330 Salaries-Secretaries	Engr		121,406	150,000	130,000	165,000
P53104 62330 Salaries-Directors	Engr		4,400	5,500	3,500	5,500
Miscellaneous:						
P53105 62330 Printing & Mailing	Engr		15,328	20,000	20,000	20,000
P53106 62330 Office Expenses	Engr		24,717	16,000	30,000	40,000
P53108 62330 Telephone & Communications	Engr		40,921	30,000	36,000	30,000
P53170 62330 Accounting & Audit Fees	Engr		9,570	15,000	16,000	16,000
P53178 62330 Legal Costs & Fees	Engr		111,278	70,000	55,000	70,000
P53182 62330 Travel & Transportation	Both		-	2,500	2,500	15,000
P53171 62330 IRWM Coordination	Engr		-	15,000	11,100	15,000
P53188 62330 Codification Of Ordinances	Engr		-	5,000	-	5,000
P63165 62330 SSMP	Opns		-	-	15,096	15,000
P53196 62330 Revenue Study	Engr		8,085	25,000	25,600	35,000
Computers:						
P53180 62330 Systems & Programming	MIS		25,135	20,000	17,000	20,000
P53186 62330 Computers-Software	**MIS**		**139,410**	**182,609**	150,000	200,000
P53192 62330 Computers-Facility Computer Mapping	MIS		26,091	30,000	48,000	48,000
Routine Equipment Repair & Replacement:						
P53152 62330 East Cliff Pump Station and Line Equip	Opns		135,713	150,000	138,000	160,000
Fixed Assets:						
See Pg2 86204 Equipment			89,254	342,486	123,078	290,000
See Pg2 86209 Mobile Equipment			164,406	200,000	56,621	600,000
Contingencies:						
53499 98700 Contingencies			-	50,000	50,000	75,000
TOTAL EXPENDITURES			16,216,313	18,211,387	18,176,491	19,292,500
SOURCE OF FUNDS:						
344 Fund Balance			2,191,992	1,572,915	1,572,915	30,690
40894 State-Other Grants			27,000	-		
41322 Plan Checking Fees			7,313	10,000	10,000	10,000
42047 Other Charges Current Services			2,408	5,000	5,000	5,000
42384 Other Revenues, Transfers and Adjustments			6,270	12,000	12,000	10,000
42450 Sales of Fixed Assets-Non Taxable			600	5,000	5,000	1,000
42473 Inception of Lease Purch Agreement			-	4,206	-	-
42462 Transfer from Revenue Trust			15,553,645	16,602,266	16,602,266	19,235,810
AVAILABLE FUNDS			17,789,228	18,211,387	18,207,181	19,292,500

Engr = Engineering
Opns = Operations
Both = Engineering & Operations
MIS = Management Information Services

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SANTA CRUZ COUNTY SANITATION DISTRICT
PROPOSED BUDGET 2017/2018

625175 SCCSD OPERATING FUND - SCHEDULE OF FIXED ASSETS

						15/16 Actual	16/17 Adopted	16/17 Est Act	17/18 Recommended
Equipment									
P53226	86204	Emergency Diesel Generators (4)	R	Opns		21,225	90,000	5,000	90,000
P53240	86204	Network Equipment	R	MIS		-	50,000	26,856	40,000
P53246	86204	Motorized Valves	N	Opns		-	40,000	-	25,000
P53248	86204	Gas Detectors	N	Opns		-	45,000	10,000	45,000
P53250	86204	Innovyze WMM Software	N	Opns		-	53,280	55,223	-
P53251	86204	Photocopier	N	Opns			4,206	-	-
P53258	86204	Security Cameras & Screen	R	Opns		-	15,000	26,000	30,000
P53266	86204	Gasboy Fuel Management System	R	Opns		27,612	25,000	-	-
P53227	86204	Hoisting Equipment HJHGK	R	Opns		40,417	20,000	-	40,000
New	86204	Radios	R	Opns		-	-	-	20,000
Subtotal						89,254	342,486	123,078	290,000
Mobile Equipment									
P53282	86209	10 Wheel Dump Truck	R	Opns		-	103,000	-	-
P53293	86209	3/4 Ton Truck (2)	R	Opns		60,619	50,000	1,000	-
P53296	86209	SVC Body for F-250	R	Opns		10,000	10,000	19,271	-
P53283	86209	SM Industrial Tractor w/ attach	R	Opns		-	37,000	36,350	-
P53288	86209	F250 4WD Super Duty Truck w/service body	R	Opns		70,622		-	-
New #	86209	Vac Truck	R	Opns		-	-	-	350,000
New #	86209	F550 Trucks w/ boom	R	Opns		-	-	-	250,000
P53297	86209	Nissan Leaf Electric Vehicles	N	Opns		33,165	-	-	-
Subtotal						174,406	200,000	56,621	600,000
TOTAL						263,660	542,486	179,699	890,000

N = New
R = Replacement
E = Existing

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SANTA CRUZ COUNTY SANITATION DISTRICT
PROPOSED BUDGET 2017/2018

625195 SCCSD WASTEWATER CAPITAL IMPROVEMENT FUND (50/195)

The Wastewater Capital Improvement fund is required by the provisions of the Clean Water Grants we accepted to build the East Cliff and Aptos Transmission Projects. The fund receives cash, which represents the depreciation on the facilities constructed with Clean Water grant funds. These funds are

EXPENDITURES:				15/16 Actual	16/17 Adopted	16/17 Est Actual	17/18 Recommended
P54050	90000	Transfer To Construction Fund (136409)	Tfr	-	400,000	394,011	475,000
P54002	86110	Lode St - Facility Improvements	Opns	-	15,000	-	15,000
P54004	86110	Lode St - Butterfly Habitat Plan	Engr	4,258	10,000	5,000	10,000
P54005	86110	Transmission Line Inspection	Both	16,427	70,857	8,000	52,385
P54006	86110	Basin Flow Monitoring Program	Engr	71,942	244,560	29,000	211,122
P54009	86110	Lode St - HVAC, Electrical, Plumbing & Structural	Comp	6,490	50,000	-	50,000
P54018	86110	Flow Meter Replacement & Repairs	Opns	19,112	256,535	6,600	256,535
P54023	86110	SCADA System Improvements	Opns	165,207	150,000	50,000	100,000
P54025	86110	Aptos (New Brighton) Transmission Line Relocatio	Engr	8,639	101,876	9,000	150,000
P54038	86110	Pump Station Sewage Level Monitoring Imprvmnt	Opns	6,776	25,000	-	25,000
P54041	86110	Concrete Repairs at Various Pump Stations	Engr	261	486,827	5,000	600,000
P54046	86110	Hidden Beach Pump Station Manhole Rehabilitatio	Engr	-	150,000	400	400,000
P54048	86110	Santa Cruz Harbor Transmission Main Rehabilitatic	Engr	255,668	403,017	6,000	500,000
P54049	86110	Summit Transmission Main Replacement	Engr	-	-	1,200	-
P54051	86110	Soquel Pump Station Force Main Replacement	Engr	183,998	6,335,415	30,000	7,250,000
P54052	86110	Neary Lagoon Force Main Rehabilitation	Engr	841,608	1,243,588	800,000	700,000
P54053	86110	Esplanade Pump Station Sulfide Control	Opns	-	-	-	-
P54054	86110	DA Porath Facillity Wet Weather Retention Basin	Engr	718,968	697,564	947,419	-
P54055	86110	East Cliff Transmission Repairs/Replacement	Engr	2,852	260,366	6,500	-
P54057	86110	Lode Street Transformer Replacement	Opns	-	40,000	-	-
P54058	86110	Capitola / Jewel Box Sewer Improvements	Engr	-	100,000	-	-
P54059	86110	Hidden Beach Way Sewer Extension	Engr	-	300,000	30,000	450,000
P54060	86110	38th Avenue Pipe Repairs	Engr	-	-	100,455	25,000
P54061	86110	Seacliff State Park Sinkhole Repair	Engr	-	-	1,000,000	-
New #	86110	East Cliff Transmission Secondary Forcemain Fea	Engr	-	-	-	425,000
P54099	86110	Wastewater Capital Reserves		-	178,138	65,624	100,000
TOTAL EXPENDITURES				2,302,213	11,518,742	3,494,209	11,795,042
SOURCE OF FUNDS:							
	0344	Fund Balance		4,106,166	4,762,986	4,762,986	5,818,311
	40894	SWRCB Prop 40		307,000	1,976,731	276,300	1,976,731
	42384	Other Revenue		-	-	-	-
	42506	Loan Proceeds - Soquel P.S. (P54051)		-	4,000,000	-	4,000,000
	42462	Transfer from Revenue Trust Fund		2,652,033	779,025	779,025	-
AVAILABLE FUNDS				7,065,199	11,518,742	5,818,311	11,795,042

Comp = Complete
Del = Deleted
U/C = Under Construction
HVAC = Heating, Ventilation & Air Conditioning
SCADA = Supervisory Control & Data Acquisition

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136409 SCCSD CONSTRUCTION IMPROVEMENT FUND (50/185)

The Construction Improvement Fund was established to construct needed improvements in the District.

EXPENDITURES:				15/16 Actual	16/17 Adopted	16/17 Est. Act.	16/17 Recommended
P53861	75235	Contributions to the Road Fund	Engr	500,000	400,000	250,000	200,000
P53802	86110	Pump Station Repair/Modifications	Opns	-	76,329	54,063	100,000
P53803	86110	Jewel Box Sewer Replacement	Engr	-	-	45,000	150,000
P53804	86110	Cathodic Protection Construction	Opns	8,135	2,166	-	250,000
P53807	86110	Aptos Village Sewer Rehab	Engr	-	6,960	-	-
P53812	86110	Minor Projects	Engr	-	350,000	29,753	350,000
P53813	86110	Electrical Panel Upgrades At Various Pump Stations	Opns	206,726	150,820	148,529	150,371
P53817	86110	Consulting Engineering Services	Engr	40,127	239,015	50,000	317,000
P53822	86110	Pump Station Tank Removal	Opns	-	600	-	-
P53834	86110	Submersible Pump Station Hatch Installation	Opns	-	50,000	-	-
P53840	86110	Road/Trench Repairs	Engr	4,149	200,000	3,548	50,000
P53856	86110	Manhole Construction/Replacement Project-Twin Lakes	Opns	7,366	50,000	-	-
P53858	86110	Capitola Area Improvements	Engr	50,728	-	-	50,000
P53866	86110	14Th & 16Th Avenues Pump Station Abandoments	Engr	3,145,703	315,429	320,000	37,670
P53870	86110	Valencia Creek Sewer Relocation	Engr	50,000	2,225,202	-	2,175,000
P53876	86110	Upper Rodeo Gulch Trunkline & Soquel Sewer Brdige Repl	Engr	1,307	161,030	-	25,000
P53878	86110	Moran Pump Station Upgrade	Engr	19,730	-	-	-
P53879	86110	Paul Sweet Road Sewer Relocation	Engr	1,171	9,261	-	-
P53880	86110	East Cliff & Schwann Lake Drives Sewer Repl (Design)	Engr	-	14,378	-	-
P53881	86110	East Cliff, Portola & Richmond Drives Sewer Replacement	Engr	-	-	50,000	3,500,000
P53884	86110	Trunkline Right Of Way	Opns	38,341	-	21,000	25,000
P53886	86110	Borregas Gulch Trunkline Replacement - Phase I	Engr	75,269	2,081,813	30,000	-
P53886	86110	Borregas Gulch Trunkline Replacement - Phase II	Engr	-	-	40,000	1,000,000
P53892	86110	Arana Trunkline Design	Engr	-	50,000	-	-
P53894	86110	Felt St & 17th Sewer Replacement	Engr	333,484	252,659	20,106	-
P53897	86110	Noble Gulch Trunkline Relocation	Engr	5,408,736	342,616	94,106	-
P53898	86110	Park Avenue & Wesley Street Sewer	Engr	39,895	3,299	-	-
P53999	98700	Contingencies		-	100,000	-	100,000
TOTAL EXPENDITURES				9,934,983	7,081,576	1,156,105	8,480,041
SOURCE OF FUNDS:							
	0344	Fund Balance		5,183,891	(412,731)	(412,731)	1,525,471
	40894	ST-Other		1,559,016	-	-	-
	42505	Loan Proceeds - SRF for Valencia (53870)		-	2,000,000	-	-
	42506	Loan Proceeds - SRF for Borregas (53886)		-	2,000,000	-	-
	42506	Loan Proceeds - SRF for E. Cliff, Portola & Richomnd (53881)		-	-	-	-
	42506	Transfer from WasteWater Cap Improvement Fund		1,500,000	400,000	-	3,300,000
	42462	Transfer from Revenue Trust		3,452,523	3,094,307	3,094,307	3,179,570
AVAILABLE FUNDS				11,695,430	7,081,576	2,681,576	8,480,041

SANTA CRUZ COUNTY SANITATION DISTRICT
PROPOSED BUDGET 2017/2018

625210 SCCSD TREATMENT PLANT FUND (50/210)

The Treatment Plant Fund was originaly established to receive proceeds from the sale of certificates of participation to finance the District's share of the secondary treatment plant construction project by the City of Santa Cruz which was completed in fiscal year 2001-02. The fund is now used for payment of the debt service relating to this project.

In December of 2013 the city of Santa Cruz refinanced this debt. Accrued interest and debt restructuring costs of $144,178 were added to the new principle balance and the interest rate was redued from 2.8% to 1.6% for a net savings of approximately $207,000 over the life of the debt.

The SRF Loan principle balance was $4,603,952 at June 30, 2016 and the debt will be retired in 2019.

EXPENDITURES:	15/16 Actual	16/17 Adopted	16/17 Est Act	17/18 Recommended
54603 74110 SRF Loan Principle Payment - Secondary Plant	1,484,348	1,508,192	1,508,192	1,532,420
54604 74425 SRF Loan Interest Payment - Secondary Plant	91,499	67,655	67,655	43,427
TOTAL EXPENDITURES	1,575,847	1,575,847	1,575,847	1,575,847

SOURCE OF FUNDS:

0344 Fund Balance	-	(311)	(311)	(310)
42462 Transfer from Revenue Trust	1,575,536	1,575,847	1,575,847	1,576,157
40430 Interest	-	311	-	-
AVAILABLE FUNDS	1,575,536	1,575,847	1,575,536	1,575,847

SRF = State Revolving Fund

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SANTA CRUZ COUNTY SANITATION DISTRICT
PROPOSED BUDGET 2017/2018

136418 SCCSD 2005 WASTEWATER REVENUE REFUNDING BOND DEBT SERVICE FUND (33/141)

This fund was established to receive the transfers from the Revenue Trust for the payment of principal and interest to repay the money borrowed to refinance the 1977 Revenue Bonds and the 1994 Certs Bonds. The Wastewater Revenue Refunding Bond had a principle balance of $2,180,000 at June 30, 2016 and the debt will be retired in 2019.

EXPENDITURES:			15/16 Actual	16/17 Adopted	16/17 Est Act	17/18 Recommended
30250	74105	Principal	890,000	940,000	940,000	535,000
30251	74310	Interest	125,400	105,962	84,100	47,225
30200	62345	Paying Agent Fees	9,215	4,965	3,465	3,465
TOTAL EXPENDITURES			1,024,615	1,050,927	1,027,565	582,225

SOURCE OF FUNDS:

	0344	Fund Balance (Restricted)	24	964	964	44,449
	40430	Interest	(2,086)	500	450	500
		Interest accrued on US Bank Rev Ref Bond Reserve	46,460	44,460	46,500	46,500
	42462	Transfer from Revenue Trust	981,181	1,005,003	1,024,100	490,776
AVAILABLE FUNDS			1,025,579	1,050,927	1,072,014	582,225

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SANTA CRUZ COUNTY SANITATION DISTRICT
PROPOSED BUDGET 2017/2018

625177 SCCSD CLEAN WATER STATE REVOLVING FUND DEBT SERVICE FUND (50/177)

This fund was established during the 2011/12 fiscal year to receive the transfers from the Revenue Trust for the payment of principal and interest to repay the money borrowed through the Clean Water State Revolving Fund, Finance Agreement No. 09-848-550-0. The final principal balance will be determined once the final distribution has been made. The principal balance as of June 30, 2017 is $9,785,160.65 and the debt will be retired in 2032.

EXPENDITURES:			15/16 Actual	16/17 Adopted	16/17 Est Act	17/18 Recommended
54610	74110	Principal	519,390	532,374	532,374	545,684
54611	74310	Interest	270,923	257,938	257,938	244,629
TOTAL EXPENDITURES			790,313	790,313	790,313	790,313

SOURCE OF FUNDS:

0344		Fund Balance (Restricted)	821	2,057	2,057	33
40430		Interest	1,388	1,000	650	600
42462		Transfer from Revenue Trust	790,160	787,256	787,639	789,680
AVAILABLE FUNDS			792,369	790,313	790,346	790,313

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SANTA CRUZ COUNTY SANITATION DISTRICT
PROPOSED BUDGET 2017/2018

136419 SCCSD 2005 WASTEWATER REVENUE REFUNDING BOND DEBT RESERVE FUND (33/142)

This fund was established as a condition of the sale of the 2005 Wastewater Revenue Refunding Bonds in March 2005. It is required to insure that funds will always be available to make timely payments on the 2005 bonds.

EXPENDITURES:

Reserves	969,937

SOURCE OF FUNDS:

Fund Balance	969,937

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SANTA CRUZ COUNTY SANITATION DISTRICT
PROPOSED BUDGET 2017/2018

625205 SCCSD REVENUE TRUST (50/205)

The Revenue Trust was created to receive the general revenue for Santa Cruz County Sanitation District. It makes payments to the Debt Service, Operating, Wastewater Capital Improvement and Construction Improvement Funds twice a year.

		EXPENDITURES:	15/16 Actual	16/17 Adopted	16/17 Est Act	17/18 Recommended
		Transfers to:				
54500	90000	Operating Fund (625175)	15,553,645	16,602,266	16,602,266	19,235,810
54500	90000	Wastewater Capital Improvement Fund (625195)	2,652,033	779,025	779,025	-
54500	90000	Construction Improvement Fund (136409)	3,452,523	3,094,307	3,094,307	3,179,570
54500	90000	Treatment Plant Fund (625210)	1,575,536	1,575,847	1,575,847	1,576,157
54500	90000	2005 Debt Service Fund (136418)	975,181	1,005,003	1,024,100	490,776
54500	90000	Clean Water State Revolving Fund loan (625177)	790,160	787,257	787,639	789,680
		TOTAL EXPENDITURES	24,999,078	23,843,705	23,863,184	25,271,994

SOURCE OF FUNDS (FOR TRANSFERS):

0344		Beginning Fund Balance (Unrestricted)	4,866,765	3,434,705	3,500,000	3,620,274
		Revenues				
40430		Interest	97,942	100,000	56,037	100,000
41841		Disctrict Buy-In Connection Fees	3,000	-	-	-
41842		Connection Fees	194,900	250,000	365,000	275,000
41866		Sewer Service Charges	23,277,176	23,559,000	23,559,000	24,876,720
42384		Other Revenues	-	-	3,420	
		Revenues Subtotal	23,573,018	23,909,000	23,983,457	25,251,720
		SOURCE OF FUNDS SUBTOTAL	28,439,783	27,343,705	27,483,457	28,871,994
		Reserves	-	(3,500,000)	(3,500,000)	(3,600,000)
		AVAILABLE FUNDS	28,439,783	23,843,705	23,983,457	25,271,994

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SANTA CRUZ COUNTY SANITATION DISTRICT
PROPOSED BUDGET 2017/2018

		17/18 Recommended
USES OF FUNDS		
Expenditures		
625175	Operating Fund	19,292,500
625195	Wastewater Capital Impr Projects	11,695,042
136409	Construction Improvement Fund	8,480,041
625210	Secondary Treatment Plant Fund	1,575,847
136418	2005 Bond Debt Service	582,225
625177	Clean Water State Revovling Fund DS	790,313
	Total Expenditures	42,415,969
Reserves		
625195	Wastewater Capital Improvement	100,000
625205	Revenue Trust	3,600,000
	Total Reserves	3,700,000
TOTAL EXPENDITURES AND RESERVES		46,115,969
SOURCES OF FUNDS		
Fund Balances		
625175	Operating Fund	30,690
625195	Wastewater Capital Improvement	5,818,311
136409	Construction Improvement Fund	1,525,471
625210	Secondary Treatment Plant Fund	(310)
136418	2005 Wastewater Revenue Refunding DS	44,449
625177	Clean Water State Revolving Fund DS	33
625205	Revenue Trust	3,620,274
	Total Fund Balance	11,038,917
Revenues		
625175	Plan Checking Fees	10,000
625175	Other Charges Current Services	5,000
625175	Other Revenues, Transfers and Adjustments	10,000
625175	Sale of Fixed Assets	1,000
625195	SRF Prop 40 & Prop 50 Grants	1,976,731
625195	Loan Proceeds	4,000,000
136409	Loan Proceeds	3,300,000
136409	Transfer from WasteWater Cap Improvement Fund	475,000
136418	Interest	500
136418	Accrued Interest on US Bank Bond Reserve	46,500
625177	Interest	600
625205	Interest	100,000
625205	Connection Fees	275,000
625205	Sewer Service Charges	24,876,720
	Total Revenues	35,077,051
TOTAL FUND BALANCES AND REVENUES		46,115,969
DIFF THIS SCHEDULE		(0)

6-16

Santa Cruz County Sanitation District

701 OCEAN STREET, SUITE 410, SANTA CRUZ, CA 95060-4073
(831) 454-2160 FAX (831) 454-2089 TDD: (831) 454-2123

JOHN J. PRESLEIGH, DISTRICT ENGINEER

AGENDA DATE: JUNE 8, 2017

BOARD OF DIRECTORS
SANTA CRUZ COUNTY SANITATION DISTRICT
701 Ocean Street, Room 410
Santa Cruz, California 95060

SUBJECT: PROPOSED ORDINANCE NO. 136, AMENDING TITLE 2, SECTION 2.04.140 OF THE DISTRICT CODE REGARDING CONTRACTING FOR CONSTRUCTION, MAINTENANCE, REPAIR, OR INDEPENDENT CONTRACTOR WORK

Members of the Board:

Section II of Ordinance No. 66, adopted on September 14, 1989, outlines the requirement for going to bid for any construction, maintenance, or repair work which will exceed $25,000.00. Santa Cruz County has a similar ordinance, and on December 9, 2014, the County Board of Supervisors raised the amount for County Purchasing to $35,000.00. This amount also matches the amount in California Public Contract Code Article 50, Section 20783, for sanitation districts.

Therefore, in order to help streamline the process and eliminate confusion for County personnel who process both District and County paperwork, it is being requested that your Board raise the District requirement for going to bid to $35,000 to match the County's requirement.

In addition, since there currently is no reference in District Code (as the County has) to a limit in regards to independent contractors, it is proposed that limits for this type of work be added to the ordinance.

It is therefore recommended that your Board take the following action:

1. Set a public hearing on August 3, 2017, to consider the adoption, in concept, of Ordinance No. 136, Amending Title 2, Section 2.04.140 of the District Code Regarding Contracting for Construction, Maintenance, or Repair Work;

2. Adopt Ordinance No. 136, in concept; and

3. Place Ordinance No. 136 on the next available agenda for final adoption.

Yours truly,

JOHN J. PRESLEIGH
District Engineer

DLS/b1802

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PUBLIC CONTRACT CODE - PCC

DIVISION 2. GENERAL PROVISIONS [1100 - 22355] *(Division 2 enacted by Stats. 1981, Ch. 306.)*

PART 3. CONTRACTING BY LOCAL AGENCIES [20100 - 22178] *(Part 3 added by Stats. 1982, Ch. 465, Sec. 11.)*

CHAPTER 1. Local Agency Public Construction Act [20100 - 20929] *(Chapter 1 added by Stats. 1982, Ch. 465, Sec. 11.)*

ARTICLE 50. Sanitation Districts [20780 - 20784] *(Heading of Article 50 amended by Stats. 1984, Ch. 1128, Sec. 58.)*

20780. The provisions of this article shall apply to contracts by sanitation districts as provided for in the County Sanitation District Act pursuant to Division 5 (commencing with Section 4700) of the Health and Safety Code.

(Added by Stats. 1983, Ch. 256, Sec. 93.)

20782. A district may make and perform any agreement with any public or private corporation of any kind or any person for the joint construction, acquisition, disposition, or operation of any property or works of a kind which might be constructed, acquired, disposed of, or operated by the district.

(Added by Stats. 1983, Ch. 256, Sec. 93.)

20783. When work is done by the district itself by force account, the amount shall not exceed five thousand dollars ($5,000). When the expenditure required for the work exceeds thirty-five thousand dollars ($35,000), it shall be contracted for and let to the lowest responsible bidder after notice. The notice inviting bids shall set a date for the opening of bids. The first publication or posting of the notice shall be at least 10 days before the date of opening the bids. Notice shall be published at least twice, not less than five days apart, in a newspaper of general circulation, printed and published in the district, or if there is none, it shall be posted in at least three public places in the district that have been designated by the district board as the places for posting this notice. The notice shall distinctly state the work to be done.

In its discretion, the district board may reject any bids presented and readvertise. If two or more bids are the same and the lowest, the district board may accept the one it chooses. If no bids are received, the district board may have the work done without further bid.

If all bids are rejected, the district board, on a resolution adopted by a four-fifths vote, may declare that the work can be performed more economically by day labor, or the materials or supplies furnished at a lower price in the open market and may have the work done in a manner stated in the resolution in order to take advantage of this lower cost.

If there is a present or anticipated great public calamity, including an extraordinary fire, flood, storm, or other disaster the district board may, by resolution adopted by a four-fifths vote declaring that the public interest and necessity demand immediate expenditure of public money to safeguard life, health, or property, expend any sum required in the emergency without submitting the expenditure to bid.

Cost records of the work shall be kept in the manner provided in Sections 4000 to 4007, inclusive, of the Government Code.

This section shall not apply to sewerage maintenance, repair work, or to any uncompleted works under construction by district forces prior to the enactment of this section, and shall not be construed to exempt any work from Part 7 (commencing with Section 1720) of Division 2 of the Labor Code.

(Amended by Stats. 1998, Ch. 142, Sec. 7. Effective January 1, 1999.)

20784. All bids for construction work shall be presented under sealed cover and shall be accompanied by one of the following forms of bidder's security:

(a) Cash.

7-2

BEFORE THE BOARD OF DIRECTORS
OF THE SANTA CRUZ COUNTY SANITATION DISTRICT
SANTA CRUZ COUNTY, CALIFORNIA

ORDINANCE NO. 136

On the motion of Director
duly seconded by Director
the following ordinance is adopted:

ORDINANCE AMENDING TITLE 2, SECTION 2.04.140
OF THE DISTRICT CODE REGARDING CONTRACTING FOR CONSTRUCTION,
MAINTENANCE, OR REPAIR WORK

The Board of Directors of the Santa Cruz County Sanitation District ordains as follows:

SECTION I

Section 2.04.140 of the District Code is hereby amended to read as follows:

Section 2.04.140. Contracting for Construction, Maintenance, ~~or~~ Repair Work, or Independent Contractor Work. When the expenditure required for the work exceeds ~~twenty~~-thirty-five thousand dollars ($~~2~~35,000.00), it shall be contracted for and let to the lowest responsible bidder after notice. The notice inviting bids shall set a date for the opening of bids. The first posting of the notice shall be at least 10 days before the date of opening the bids. Notice shall be posted in a least three (3) public places in the District that have been designated by the District Board as the places for posting such notice. The notice shall distinctly state the work to be done.

In its discretion, the District Board may reject any bids presented and readvertise. If two or more bids are the same and the lowest, the District Board may accept the one it chooses. If no bids are received, the District Board may have the work done without further bid.

If all bids are rejected, the District Board, on a resolution adopted by a four-fifths vote, may declare that the work can be performed more economically by day labor, or the materials or supplies furnished at a lower price in the open market and may have the work done in a manner stated in the resolution in order to take advantage of this lower cost.

If there is a present or anticipated great public calamity, as an extraordinary fire, flood, storm or other disaster the District Board may, by resolution adopted by a four-fifths vote declaring that the public interest and necessity demand immediate expenditure of public money to safeguard life, health, or property, expend any sum required in the emergency without submitting such expenditure to bid.

Any Construction, Maintenance, Repair, or Independent Contractor Work under the above amount may be accomplished by purchase order.

SECTION II

This ordinance shall take effect and be operative on the 31st day after the date of final passage.

This ordinance shall be published once within fifteen days following its adoption in a newspaper of general circulation within the District.

PASSED AND ADOPTED by the Board of Directors of the Santa Cruz County Sanitation District this _____ day of _____, 20_____, by the following vote:

AYES: DIRECTORS

NOES: DIRECTORS

ABSENT: DIRECTORS

_____
Chairperson of said Board

ATTEST: _____
Secretary of said Board

Approved as to Form:

_____
District Counsel

Doc: ORD #136L

BEFORE THE BOARD OF DIRECTORS
OF THE SANTA CRUZ COUNTY SANITATION DISTRICT
SANTA CRUZ COUNTY, CALIFORNIA

ORDINANCE NO. 136

On the motion of Director
duly seconded by Director
the following ordinance is adopted:

ORDINANCE AMENDING TITLE 2, SECTION 2.04.140
OF THE DISTRICT CODE REGARDING CONTRACTING FOR CONSTRUCTION,
MAINTENANCE, OR REPAIR WORK

The Board of Directors of the Santa Cruz County Sanitation District ordains as follows:

SECTION I

Section 2.04.140 of the District Code is hereby amended to read as follows:

Section 2.04.140. Contracting for Construction, Maintenance, Repair Work, or Independent Contractor Work. When the expenditure required for the work exceeds thirty-five thousand dollars ($35,000.00), it shall be contracted for and let to the lowest responsible bidder after notice. The notice inviting bids shall set a date for the opening of bids. The first posting of the notice shall be at least 10 days before the date of opening the bids. Notice shall be posted in a least three (3) public places in the District that have been designated by the District Board as the places for posting such notice. The notice shall distinctly state the work to be done.

In its discretion, the District Board may reject any bids presented and readvertise. If two or more bids are the same and the lowest, the District Board may accept the one it chooses. If no bids are received, the District Board may have the work done without further bid.

If all bids are rejected, the District Board, on a resolution adopted by a four-fifths vote, may declare that the work can be performed more economically by day labor, or the materials or supplies furnished at a lower price in the open market and may have the work done in a manner stated in the resolution in order to take advantage of this lower cost.

If there is a present or anticipated great public calamity, as an extraordinary fire, flood, storm or other disaster the District Board may, by resolution adopted by a four-fifths vote declaring that the public interest and necessity demand immediate expenditure of public money to safeguard life, health, or property, expend any sum required in the emergency without submitting such expenditure to bid.

Any Construction, Maintenance, Repair, or Independent Contractor Work under the above amount may be accomplished by purchase order.

SECTION II

This ordinance shall take effect and be operative on the 31st day after the date of final passage.

This ordinance shall be published once within fifteen days following its adoption in a newspaper of general circulation within the District.

PASSED AND ADOPTED by the Board of Directors of the Santa Cruz County Sanitation District this _____ day of _____, 20_____, by the following vote:

AYES: DIRECTORS

NOES: DIRECTORS

ABSENT: DIRECTORS

_____
Chairperson of said Board

ATTEST: _____
Secretary of said Board

Approved as to Form:

_____
District Counsel

Doc: ORD #136

Santa Cruz County Sanitation District

701 OCEAN STREET, SUITE 410, SANTA CRUZ, CA 95060-4073
(831) 454-2160 FAX (831) 454-2089 TDD/TTY- CALL 711

JOHN J. PRESLEIGH, DISTRICT ENGINEER

AGENDA DATA: JUNE 8, 2017

BOARD OF DIRECTORS
SANTA CRUZ COUNTY SANITATION DISTRICT
701 Ocean Street, Room 410
Santa Cruz, CA 95060

SUBJECT: SOQUEL PUMP STATION FORCE MAIN REPLACEMENT PROJECT UPDATE

Members of the Board:

On March 16, 2017, your Board directed District staff to return on or before June 8, 2017, with a subject project update.

As previously reported to your Board, District staff was communicating with State Water Board staff who are reviewing the State Revolving Fund loan application. Water Board staff indicated that the loan would likely not be approved until the end of 2017.

Water Board staff also asked if the project involved energy savings which could qualify it as a Green project and therefore receive priority review. The District's consultant, GHD, performed an energy analysis, and the project doesn't qualify as a Green project.

It is therefore recommended that the Board of Directors direct staff to return on December 8, 2017, or before, with a project update.

Yours truly,

JOHN J. PRESLEIGH
District Engineer

KE:dls/b1894

Santa Cruz County Sanitation District

701 OCEAN STREET, SUITE 410, SANTA CRUZ, CA 95060-4073
(831) 454-2160 FAX (831) 454-2089 TDD: (831) 454-2123

JOHN J. PRESLEIGH, DISTRICT ENGINEER

AGENDA DATE: JUNE 8, 2017

BOARD OF DIRECTORS
SANTA CRUZ COUNTY SANITATION DISTRICT
701 Ocean Street, Room 410
Santa Cruz, California 95060

SUBJECT: SEACLIFF STATE PARK SINKHOLE EMERGENCY REPAIR PROJECT UPDATE

Members of the Board:

As previously reported to your Board, the District was working to repair a sinkhole and failed 30" culvert at Seacliff State Park, which is in close proximity to two sewer force mains and one gravity line. Durden Construction of San Juan Batista, California, was hired to perform the work on a time and materials basis. CMAG Engineering of Aptos, California, is providing geotechnical engineering services.

The work was completed on April 3, 2017, and final invoices have been submitted. Due to unforeseen conditions, additional sections of pipe were replaced. Additionally, much of the soil coming out of the sinkhole area was too wet to be placed as backfill which required the contractor to off haul the soil and import engineered fill soil.

The original estimate of working days was 17 days, however construction was delayed due to the weather. In order to complete the work and get to critical points between storms, the contractor worked overtime and weekends. Wet soil conditions also necessitated placement of concrete slurry beneath the pipe as well as over the top of the pipe.

Durden Construction has submitted a final cost for the work in the amount of $949,030.05. CMAG Engineering has submitted a final cost for their work in the amount of $16,330.00. Staff has reviewed the total costs from Durden Construction and CMAG Engineering and found them to be accurate.

District staff also worked with Santa Cruz County Solid Waste staff to direct bill the District for material brought to Buena Vista Landfill by Durden Construction. The Buena Vista landfill has billed the District in the amount of $32,113.40.

Since the sinkhole occurred during the local, state, and federal emergency declaration of January 3-12, 2017, District staff has been working with FEMA and CAL OES staff regarding reimbursement of project costs.

In order to pay for the work, staff has recommended transferring funds from the projects as shown in the following table:

Project Name	GL Key / Job #	Amount
Hidden Beach Way Sewer Extension	625195 / P54059	$261,803.59
Cap / Jewel Box Sewer Improvements	625195 / P54058	$100,000.00
Flow Meter Replacement & Repairs	625195 / P54018	$50,000.00
Basin Flow Monitoring	625195 / P54006	$150,000.00
East Cliff Force Main Replacement	625195 / P54055	$252,769.84
Santa Cruz Harbor Transmission Main Replacement	625195 / P54048	$53,005.86
Aptos (New Brighton) Transmission Line	625195 / P54025	$45,798.56
Transmission Line Inspection	625195 / P54005	$18,471.60
Wastewater Capital Reserves	625195 / P54099	$65,624.00
	Total	**$997,473.45**

It is therefore recommended that the Board of Directors take the following actions:

1. Ratify emergency contract E-0004 with Durden Construction and authorize payment in the amount of $949,030.05;

2. Ratify the emergency contract E-0005 with CMAG Engineering and authorize payment in the amount of $16,330.00; and

3. Authorize payment to the Buena Vista Landfill in the amount $32,113.40.

Yours truly,

JOHN J. PRESLEIGH
District Engineer

KE:dls/b1891

Santa Cruz County Sanitation District

701 OCEAN STREET, SUITE 410, SANTA CRUZ, CA 95060-4073
(831) 454-2160 FAX (831) 454-2089 TDD: (831) 454-2123

JOHN J. PRESLEIGH, DISTRICT ENGINEER

AGENDA DATE: JUNE 8, 2017

BOARD OF DIRECTORS
SANTA CRUZ COUNTY SANITATION DISTRICT
701 Ocean Street, Room 410
Santa Cruz, California 95060

SUBJECT: HIDDEN BEACH PUMP STATION CONCRETE REPAIRS
RE-BID RECOMMENDATION

Members of the Board:

The bid opening date for the subject project was May 25, 2017; however, the District did not receive any bids. The engineer's estimate was $373,000. District staff contacted contractors who had expressed interest in bidding the project and learned that the project wasn't bid on primarily due to the contract working days being too short. Upon review, the consultant concludes that the working days need to be increased. The consultant has modified the contract working days and staff recommends rebidding the project.

It is therefore, recommended that the Board of Directors take the following actions:

1. Approve the plans, specifications, and engineer's estimate and authorize calling for bids;

2. Set the bid opening for July 20, 2017, at 2:15 p.m. in the Department of Public Works conference room; and

3. Direct the District Secretary to advertise a "Notice to Contractors" pursuant to Public Contracts Code, Section 20783.

Yours truly,

JOHN J. PRESLEIGH
District Engineer

MB:tlp/b1892

Copy to: Construction Manager

10-1

SANTA CRUZ COUNTY SANITATION DISTRICT
NOTICE TO CONTRACTORS

Sealed proposals shall be delivered to the District Engineer, Room 410, Governmental Center, 701 Ocean Street, Santa Cruz, California no later than **2:00 p.m., July 20, 2017** and at **2:15 p.m.** or soon after, they will be publicly opened and read in the Santa Cruz County Public Works Conference Room, for repair of concrete of the interior floors and walls of the Hidden Beach Pump Station and replacement of the roof membrane, all in accordance with the plans and specifications therefore, to which special reference is made, as follows:

HIDDEN BEACH PUMP STATION CONCRETE REPAIRS

Plans, specifications, and proposal forms for bidding this project can only be obtained at the office of the District Engineer, Room 410, 701 Ocean Street, Santa Cruz, California. No deposit is required. The successful bidder shall furnish a payment bond and a performance bond. The Contractor shall possess an appropriate Contractor's license at the time that this contract is awarded. The Santa Cruz County Sanitation District hereby notifies all bidders that it will affirmatively insure that in any contract entered into pursuant to this advertisement, minority business enterprises will be afforded full opportunity to submit bids and will not be discriminated against on the grounds of race, color or national origin in consideration for an award.

Pursuant to Section 1773 of the California Labor Code, the general prevailing rate of wages in the District has been determined by the Director of the Department of Industrial Relations, and such prevailing rate of wages is listed in the State of California, Business and Transportation Agency, Department of Transportation publication entitled General Prevailing Wage Rates, current edition, and may be accessed online at:

http://www.dir.ca.gov

SANTA CRUZ COUNTY SANITATION DISTRICT

Date: 6/1/2017

John J. Presleigh
District Engineer

10-2

Santa Cruz County Sanitation District

701 OCEAN STREET, SUITE 410, SANTA CRUZ, CA 95060-4073
(831) 454-2160 FAX (831) 454-2089 TDD/TTY- CALL 711

JOHN J. PRESLEIGH, DISTRICT ENGINEER

AGENDA: JUNE 8, 2017

BOARD OF DIRECTORS
SANTA CRUZ COUNTY SANITATION DISTRICT
701 Ocean Street, Room 410
Santa Cruz, California 95060

SUBJECT: HIDDEN BEACH WAY SEWER EXTENSION PROJECT
PROPERTY ACQUISITIONS
DAMIAN & TRISTA HANDISIDES
674 BAYVIEW DRIVE, APTOS
APN 043-131-43

Members of the Board:

Included in the 2016/2017 Santa Cruz County Sanitation District (SCCSD) Capital Improvement Program is a project to construct a new sewer line along Hidden Beach Way in Aptos, which will reduce maintenance of an existing line with difficult access, and will improve sewer flows for existing residents along Hidden Beach Way. In order to construct the project and connect to an existing manhole, a portion of the work will cross a private parcel which requires a property acquisition.

The attached agreement provides for the acquisition of necessary rights to construct the above mentioned sewer improvements (as shown on the attached plans). The settlement amount for the property interests acquired in the attached resolution is considered fair and reasonable for the real property interests to be acquired and represents the fair market value for such property interests. Acquisition costs for this agreement is $7,600, which was determined as fair market value by staff appraisal.

Adequate funding is available in project P54059 in the 2016/2017 SCCSD Budget.

It is therefore recommended that the Board of Directors take the following actions:

1. Adopt the attached resolution approving and accepting the terms and conditions of the property acquisition agreement;

2. Authorize the District Engineer to sign the agreement on behalf of the District; and

3. Approve payment of the claim in the amount totaling $7,600 for the agreement.

Yours truly,

JOHN J. PRESLEIGH
District Engineer

DKD:dls/b1886

Attachments

copy: Real Property
District Counsel
Auditor-Controller

BEFORE THE BOARD OF DIRECTORS
OF THE SANTA CRUZ COUNTY SANITATION DISTRICT
RESOLUTION NO. 17-03

On the motion of Director
duly seconded by Director
the following resolution is adopted:

HIDDEN BEACH WAY SEWER EXTENSION PROJECT
ACQUISITION OF LAND RIGHTS
DAMIAN & TRISTA HANDISIDES
674 BAYVIEW DRIVE, APTOS
APN 043-131-43

RESOLVED by the Board of Directors of the Santa Cruz County Sanitation District, State of California:

WHEREAS, as part of the Hidden Beach Way Sewer Extension Project permanent easement rights as set forth in the attached agreement (Agreement) are needed to construct the proposed improvements over the named properties; and

WHEREAS, the owners of said property interests have executed and delivered said property interests to District upon condition that District acknowledge and approve Articles set forth in said Agreement binding District to the performance of said Articles; and

WHEREAS, the Board of Directors of said District hereby finds the Articles of said Agreement to be fair and reasonable consideration for the acquisition of real property interests.

NOW, THEREFORE, BE IT RESOLVED AND ORDERED that the Santa Cruz County Sanitation District does hereby accept the terms of the Agreement and authorizes the District Engineer to sign on behalf of the District. Payment shall be made as follows:

A.P.N.	GRANTORS	PAYMENT
043-131-43	Damian Handisides and Trista Handisides as Co-Trustees of the Handisides Living Trust	$7,600.00

BE IT FURTHER ORDERED that the Auditor-Controller is hereby authorized to approve payment of claim for the above listed agreement in the amount indicated above payable to the above listed Grantors out of the Santa Cruz County Sanitation District Construction Improvement Funds, charged against GL Key No. 625195, JL Key No. P54059, for the purchase of said property interests and to deliver the same to the Chief Real Property Agent of the County of Santa Cruz; and

BE IT FURTHER ORDERED that said Chief Real Property Agent deliver said warrants to the above listed Grantor.

PASSED AND ADOPTED by the Board of Directors of the Santa Cruz County Sanitation District this _____ day of _____, 2017, by the following vote:

AYES: DIRECTORS

NOES: DIRECTORS

ABSENT: DIRECTORS

_____
Chairperson of said Board

ATTEST: _____
Secretary of said Board

Approved as to Form:

_____
Office of District Counsel

Distribution: District Counsel
Auditor-Controller
Real Property

17-b

Property No.: 1
APN: 043-131-43
Project: HIDDEN BEACH SEWER EXTENSION PROJECT

DAMIAN HANDISIDES
AND TRISTA HANDISIDES
AS CO-TRUSTEES OF THE
HANDISIDES LIVING TRUST

(Sellers)

CONTRACT
SANTA CRUZ COUNTY SANITATION DISTRICT

This contract is entered into this _____ day of_____, 2017, by and between the SANTA CRUZ COUNTY SANITATION DISTRICT, hereinafter called **DISTRICT**, and DAMIAN HANDISIDES AND TRISTA HANDISIDES AS CO-TRUSTEES OF THE HANDISIDES LIVING TRUST, hereinafter called **SELLERS.** The parties mutually agree as follows:

1. The parties herein set forth the whole of their agreement. The performance of this agreement constitutes the entire consideration for this transaction.

2. SELLERS agree to execute and deliver documents in the form of an **Easement Deed(s) and a Form W-9 (Request for Taxpayer Identification Number and Certification)** covering the property located at APN 043-131-43, Santa Cruz, more particularly described in Exhibit A , attached hereto and made a part hereof. Said documents will be delivered to Travis Cary, Chief Real Property Agent of the DISTRICT, State of California.

3. The DISTRICT shall:

(A) Pay the undersigned grantor(s) the sum of SEVEN THOUSAND SIX HUNDRED DOLLARS (**$ 7,600.00)** for the property or interest therein (including all improvements existing thereon unless removal is specifically authorized hereinafter in this Contract) as conveyed by **Easement Deed(s)** within thirty (30) days after date title to said property or interest therein vests in the DISTRICT free and clear of all liens, encumbrances, assessments, easements and leases (recorded and/or unrecorded), taxes, penalties, and bonds except:

1. Covenants, conditions restrictions and reservations of record, if any,
2. Easements or rights of way over said land for utility or street purposes, if any.

(B) Pay all escrow and recording fees incurred in this transaction, and if Title Insurance is required by the DISTRICT, the premium charge therefor, except that the payment of any reconveyance fees, trustee's fee, or forwarding fees for any full reconveyance of deed of trust or full release of mortgage shall be the responsibility of the SELLERS. This transaction will be handled through an internal escrow by the DISTRICT, Department of Public Works, Real Property Division, 701 Ocean Street, Rm 410, Santa Cruz, CA 95060.

4. SELLERS agree to indemnify, defend, and hold harmless the DISTRICT from and against any claim, action, suit, proceeding, loss, cost, damage, deficiency, fine, penalty, liability, or expense (including without limitation, attorney's fees), arising out of any of the following matters in, on,

11-5

or about the Property occurring during SELLERS ownership of the Property:

(A) The release, use generation, discharge, storage, disposal, or transportation of any Hazardous Materials, or

(B) The violation of any statute, ordinance, order, rule, regulation, permit, judgement, or license relating to the release, use generation, discharge, storage, disposal, or transportation of any Hazardous Materials.

The term "Hazardous Materials" shall mean any substance, material, or waste which is regulated by any governmental authority, including, but not limited to, any material or substance which is defined as a "hazardous substance", "hazardous waste", "extremely hazardous waste", or "restricted hazardous waste" in the California Health and Safety Code.

The purchase of the Property shall not be construed as limiting SELLERS' responsibility and/or the DISTRICT's rights concerning hazardous materials discovered before or after purchase of the Property.

5. It is agreed and confirmed by the parties hereto that notwithstanding other provisions in this contract, the DISTRICT, its contractors and/or authorized agents have the right to enter upon the SELLERS' property in the vicinity of the land described in the attached Exhibit A, as necessary, to construct the improvements for which the purpose of the deed is being granted. It is understood and agreed that the premises will be left in a clean and orderly condition. As of the inspection date, any existing improvements located within this right-of-entry area, exclusive of any fee or permanent easement areas and not including those improvements already compensated for as specified in the appraisal, that may have been disturbed or removed during the course of the project construction work will be restored or replaced in kind. The right of entry will terminate on June 30, 2018.

6. It is agreed and confirmed by the parties hereto that notwithstanding other provisions in this contract, the right of possession and use of the Subject Property by the DISTRICT including the right to remove and dispose of improvements, shall commence on the date the that this contract is executed by the SELLERS, and that the amount shown in Clause 3(A) herein includes, but is not limited to, full payment for such possession, use, and interest from said date.

7. SELLERS warrant that there are no oral or written leases on any portion of the real property described in Exhibit A exceeding a period of one month, and SELLERS further agree to hold harmless and reimburse the DISTRICT for any and all losses or expenses resulting or arising from any lease on the property exceeding a period of one month.

8. On the day title of said property vests in the name of the COUNTY, the condition of the property, including the existence or nonexistence of improvements, will be the same as the condition of the property on the inspection date of December 29, 2016.

9. This CONTRACT is subject to the approval of the Santa Cruz County Sanitation District Board and does not bind DISTRICT until such time as Board approval and consent has been received in writing and as required by law.

10. The provisions of this agreement shall inure to the benefit of and bind the respective

11-6

10. The provisions of this agreement shall inure to the benefit of and bind the respective successors, heirs, and assigns of the parties hereto.

IN WITNESS WHEREOF, the District has caused this contract to be duly executed as of the _____ day of _____, 2017 and

SELLERS have executed this agreement as of the 01 day of MAY, 2017.

COUNTY OF SANTA CRUZ

By: _____
JOHN J. PRESLEIGH
District Engineer

Approved as to Form:

By: _____
Office of District Counsel

Recommended for Approval:

By: Travis Cary
Travis Cary
Chief Real Property Agent

SELLERS:

Damian Handisides,
Trustee

Trista Handisides,
Trustee

Santa Cruz County Sanitation District

701 OCEAN STREET, SUITE 410, SANTA CRUZ, CA 95060-4073
(831) 454-2160 FAX (831) 454-2089 TDD/TTY- CALL 711

JOHN J. PRESLEIGH, DISTRICT ENGINEER

AGENDA DATE: JUNE 8, 2017

BOARD OF DIRECTORS
SANTA CRUZ COUNTY SANITATION DISTRICT
701 Ocean Street, Room 410
Santa Cruz, California 95060

SUBJECT: COLLECTION SYSTEMS ODOR CONTROL
CONTRACT WITH EVOQUA WATER TECHNOLOGIES, LLC

Members of the Board:

The District has been using Evoqua Water Technologies LLC (Evoqua) for the past twenty-three years for the supply of chemicals and equipment used to control odor causing sulfides in the District's sewage transmission system.

Evoqua provides Bioxide, which the District has been successfully using as the primary treatment for the prevention of sulfides. Evoqua is the patent holder of the product and provide equipment repair, maintenance, and distribution of the product. They also provide the District with activated charcoal canisters and carbon used to control emissions at various pump stations, and will provide the District with Alkagen, a liquid phase odor control product which keeps hydrogen sulfide from releasing to the atmosphere. In addition, Evoqua will implement vapor phase continuous monitoring with hydrogen sulfide data available in real time which will be used to aid in product optimization.

The District has had issues with odors at Soquel Pump Station for many years. Evoqua proposes to use Alkagen at the Aptos Esplanade Pump Station and feed Bioxide at the Tannery Gulch Pump Station. The addition of the Alkagen will prevent hydrogen sulfides from being released into the atmosphere, and the addition of Bioxide at the Tannery Gulch Pump Station will biochemically oxidize the sulfides in the wastewater thereby reducing the amount of sulfides at the Soquel Pump Station.

Attached for your Board's consideration and approval is a four-year independent contractor agreement with Evoqua Water Technologies LLC in the amount of $750,000 per fiscal year. Sufficient funding for this contract is available in the proposed 2017/18 Maintenance and Operations Budget (GL key 625175) for sulfide control.

It is therefore recommended that your Board take the following actions:

1. Approve the attached agreement with Evoqua Water Technologies LLC for the chemicals and equipment used to control sulfides, in the not-to-exceed amount of $750,000 per fiscal year, effective July 1, 2017, to June 30, 2021, pending approval of the proposed 2017/18 budget.

2. Authorize the District Engineer to sign the agreement on behalf of the District.

3. Direct the District Secretary to process the agreement and take any related actions.

Yours truly,

JOHN J. PRESLEIGH
District Engineer

BB:dls/B1895

Attachment

Contract No._____

INDEPENDENT CONTRACTOR AGREEMENT (STANDARD)

This Contract, which is effective on the date it is fully executed, is between the SANTA CRUZ COUNTY SANITATION DISTRICT, hereinafter called DISTRICT, and EVOQUA WATER TECHNOLOGIES, LLC, hereinafter called CONTRACTOR. The parties agree as follows:

1. **DUTIES.** CONTRACTOR agrees to exercise special skill to accomplish the following results: provide various chemicals, equipment, and technical services to assist the District in controlling odor-producing sulfides.

2. **COMPENSATION.** In consideration for CONTRACTOR accomplishing said result, DISTRICT agrees to pay CONTRACTOR as follows: Payment not to exceed $750,000.00 per fiscal year, processed for payment in full after completion of the project, receipt of invoice, and approval of project manager or after receipt and project manager approval of monthly invoices based upon the amount of actual progress achieved during the preceding month, in a manner described in Exhibit "A" (Scope of Services).

3. **TERM.** The term of this Contract shall be: July 1, 2017, through June 30, 2021. If this Contract is placed on the DISTRICT's Continuing Agreement List before the Contract term expires, the parties agree to extend the terms and conditions of the Contract as set forth herein, and as reflected in any executed amendment hereto, until the Contract is thereafter terminated.

4. **EARLY TERMINATION.** Either party hereto may terminate this Contract at any time by giving thirty (30) days' written notice to the other party.

5. **INDEMNIFICATION FOR DAMAGES, TAXES AND CONTRIBUTIONS.** To the fullest extent permitted by applicable law, CONTRACTOR shall exonerate, indemnify, defend, and hold harmless DISTRICT (which for the purpose of paragraphs 5 and 6 shall include, without limitation, its officers, agents, employees and volunteers) from and against:

A. Any and all claims, demands, losses, damages, defense costs, or liability of any kind or nature which DISTRICT may sustain or incur or which may be imposed upon it as a result of, arising out of, or in any manner connected with the CONTRACTOR'S performance under the terms of this Contract, excepting any liability arising out of the sole negligence of the DISTRICT. Such indemnification includes any damage to the person(s), or property(ies) of CONTRACTOR and third persons.

B. Any and all Federal, State, and Local taxes, charges, fees, or contributions required to be paid with respect to CONTRACTOR and CONTRACTOR'S officers, employees and agents engaged in the performance of this Contract (including, without limitation, unemployment insurance, social security and payroll tax withholding).

6. **INSURANCE.** CONTRACTOR, at its sole cost and expense, for the full term of this Contract (and any extensions thereof), shall obtain and maintain, at minimum, compliance with all of the following insurance coverage(s) and requirements. Such insurance coverage shall be primary coverage as respects DISTRICT and any insurance or self-insurance maintained by DISTRICT shall be considered in excess of CONTRACTOR'S insurance coverage and shall not contribute to it. If CONTRACTOR

normally carries insurance in an amount greater than the minimum amount required by the DISTRICT for this Contract, that greater amount shall become the minimum required amount of insurance for purposes of this Contract. Therefore, CONTRACTOR hereby acknowledges and agrees that any and all insurances carried by it shall be deemed liability coverage for any and all actions it performs in connection with this Contract. Insurance is to be obtained from insurers reasonably acceptable to the DISTRICT.

If CONTRACTOR utilizes one or more subcontractors in the performance of this Contract, CONTRACTOR shall obtain and maintain Contractor's Protective Liability insurance as to each subcontractor or otherwise provide evidence of insurance coverage from each subcontractor equivalent to that required of CONTRACTOR in this Contract, unless CONTRACTOR and DISTRICT both initial here ____ ____ / ____.

A. Types of Insurance and Minimum Limits

(1) Workers' Compensation Insurance in the minimum statutorily required coverage amounts. This insurance coverage shall be required unless the CONTRACTOR has no employees and certifies to this fact by initialing here _____.

(2) Automobile Liability Insurance for each of CONTRACTOR'S vehicles used in the performance of this Contract, including owned, non-owned (e.g. owned by CONTRACTOR'S employees), leased or hired vehicles, in the minimum amount of $500,000 combined single limit per occurrence for bodily injury and property damage. This insurance coverage is required unless the CONTRACTOR does not drive a vehicle in conjunction with any part of the performance of this Contract and CONTRACTOR and DISTRICT both certify to this fact by initialing here ____ / ____.

(3) Comprehensive or Commercial General Liability Insurance coverage at least as broad as the most recent ISO Form CG 00 01 with a minimum limit of $1,000,000 per occurrence, and $2,000,000 in the aggregate, including coverage for: (a) products and completed operations, (b) bodily and personal injury, (c) broad form property damage, (d) contractual liability, and (e) cross-liability.

(4) Professional Liability Insurance in the minimum amount of $1,000,000.00 combined single limit, if, and only if, this Subparagraph is initialed by CONTRACTOR and DISTRICT ____ /____.

B. Other Insurance Provisions

(1) If any insurance coverage required in this Contract is provided on a "Claims Made" rather than "Occurrence" form, CONTRACTOR agrees that the retroactive date thereof shall be no later than the date first written above (in the first paragraph on page 1), and that it shall maintain the required coverage for a period of three (3) years after the expiration of this Contract (hereinafter "post Contract coverage") and any extensions thereof. CONTRACTOR may maintain the required post Contract coverage by renewal or purchase of prior acts or tail coverage. This provision is contingent upon post Contract coverage being both available and reasonably affordable in relation to the coverage provided during the term of this Contract. For purposes of interpreting this requirement, a cost not exceeding 100% of the last annual policy premium during the term of this Contract in order to purchase prior acts or tail coverage for post Contract coverage shall be deemed to be reasonable.

(2) All policies of Comprehensive or Commercial General Liability Insurance shall be endorsed to cover the SANTA CRUZ COUNTY SANITATION DISTRICT, its officials, employees, agents and volunteers as additional insureds with respect to liability arising out of the work or operations and activities performed by or on behalf of CONTRACTOR, including materials, parts or equipment

furnished in connection with such work or operations. Endorsements shall be at least as broad as ISO Form CG 20 10 11 85, or both CG 20 10 10 01 and CG 20 37 10 01, covering both ongoing operations and products and completed operations.

(3) All required policies shall be endorsed to contain the following clause: "This insurance shall not be canceled until after thirty (30) days' prior written notice (10 days for nonpayment of premium) has been given to:

SANTA CRUZ COUNTY SANITATION DISTRICT
Attn: JOHN PRESLEIGH, DISTRICT ENGINEER
701 Ocean Street, Room 410
Santa Cruz, CA 95060

Should CONTRACTOR fail to obtain such an endorsement to any policy required hereunder, CONTRACTOR shall be responsible to provide at least thirty (30) days' notice (10 days for nonpayment of premium) of cancellation of such policy to the DISTRICT as a material term of this Contract.

(4) CONTRACTOR agrees to provide its insurance broker(s) with a full copy of these insurance provisions and provide DISTRICT on or before the effective date of this Contract with Certificates of Insurance and endorsements for all required coverages. However, failure to obtain the required documents prior to the work beginning shall not waive the CONTRACTOR's obligation to provide them. All Certificates of Insurance and endorsements shall be delivered or sent to:

SANTA CRUZ COUNTY SANITATION DISTRICT
Attn: JOHN PRESLEIGH, DISTRICT ENGINEER
701 Ocean Street, Room 410
Santa Cruz, CA 95060

(5) CONTRACTOR hereby grants to DISTRICT a waiver of any right of subrogation which any insurer of said CONTRACTOR may acquire against the DISTRICT by virtue of the payment of any loss under such insurance. CONTRACTOR agrees to obtain any endorsement that may be necessary to affect this waiver of subrogation, but this provision applies regardless of whether or not the DISTRICT has received a waiver of subrogation endorsement from the insurer.

7. **EQUAL EMPLOYMENT OPPORTUNITY.** During and in relation to the performance of this Contract, CONTRACTOR agrees as follows:

A. The CONTRACTOR shall not discriminate against any employee or applicant for employment because of race, color, creed, religion, national origin, ancestry, physical or mental disability, medical condition (including cancer-related and genetic characteristics), marital status, sexual orientation, age (over 18), veteran status, gender, pregnancy, or any other non-merit factor unrelated to job duties. Such action shall include, but not be limited to, the following: recruitment, advertising, layoff or termination, rates of pay or other forms of compensation, selection for training (including apprenticeship), employment, upgrading, demotion, or transfer. The CONTRACTOR agrees to post in conspicuous places, available to employees and applicants for employment, notice setting forth the provisions of this non-discrimination clause.

B. If this Contract provides compensation in excess of $50,000 to CONTRACTOR and if CONTRACTOR employs fifteen (15) or more employees, the following requirements shall apply:

(1) The CONTRACTOR shall, in all solicitations or advertisements for employees placed by or on behalf of the CONTRACTOR, state that all qualified applicants will receive consideration for employment without regard to race, color, creed, religion, national origin, ancestry, physical or mental disability, medical condition (including cancer-related and genetic characteristics), marital status, sexual orientation, age (over 18), veteran status, gender, pregnancy, or any other non-merit factor unrelated to job duties. Such action shall include, but not be limited to, the following: recruitment; advertising, layoff or termination, rates of pay or other forms of compensation, selection for training (including apprenticeship), employment, upgrading, demotion, or transfer. In addition, the CONTRACTOR shall make a good faith effort to consider Minority/Women/Disabled Owned Business Enterprises in CONTRACTOR'S solicitation of goods and services. Definitions for Minority/Women/Disabled Owned Business Enterprises are available from the DISTRICT General Services Purchasing Division.

(2) In the event of the CONTRACTOR'S non-compliance with the non-discrimination clauses of this Contract or with any of the said rules, regulations, or orders said CONTRACTOR may be declared ineligible for further contracts with the DISTRICT.

(3) The CONTRACTOR shall cause the foregoing provisions of subparagraphs 7B(1) and 7B(2) to be inserted in all subcontracts for any work covered under this Contract by a subcontractor compensated more than $50,000 and employing more than fifteen (15) employees, provided that the foregoing provisions shall not apply to contracts or subcontracts for standard commercial supplies or raw materials.

8. **INDEPENDENT CONTRACTOR STATUS.** CONTRACTOR and DISTRICT have reviewed and considered the principal test and secondary factors below and agree that CONTRACTOR is an independent contractor and not an employee of DISTRICT. CONTRACTOR is responsible for all insurance (workers' compensation, unemployment, etc.) and all payroll related taxes. CONTRACTOR is not entitled to any employee benefits. DISTRICT agrees that CONTRACTOR shall have the right to control the manner and means of accomplishing the result contracted for herein.

PRINCIPAL TEST: The CONTRACTOR rather than DISTRICT has the right to control the manner and means of accomplishing the result contracted for.

SECONDARY FACTORS: (a) The extent of control which, by agreement, DISTRICT may exercise over the details of the work is slight rather than substantial; (b) CONTRACTOR is engaged in a distinct occupation or business; (c) In the locality, the work to be done by CONTRACTOR is usually done by a specialist without supervision, rather than under the direction of an employer; (d) The skill required in the particular occupation is substantial rather than slight; (e) The CONTRACTOR rather than the DISTRICT supplies the instrumentalities, tools and work place; (f) The length of time for which CONTRACTOR is engaged is of limited duration rather than indefinite; (g) The method of payment of CONTRACTOR is by the job rather than by the time; (h) The work is part of a special or permissive activity, program, or project, rather than part of the regular business of DISTRICT; (i) CONTRACTOR and DISTRICT believe they are creating an independent contractor relationship rather than an employer-employee relationship; and (j) The DISTRICT conducts public business.

It is recognized that it is not necessary that all secondary factors support creation of an independent contractor relationship, but rather that overall there are significant secondary factors that indicate that CONTRACTOR is an independent contractor.

By their signatures on this Contract, each of the undersigned certifies that it is his or her considered judgment that the CONTRACTOR engaged under this Contract is in fact an independent contractor.

9. **NONASSIGNMENT.** CONTRACTOR shall not assign the Contract without the prior written consent of the DISTRICT.

10. **ACKNOWLEDGMENT.** CONTRACTOR shall acknowledge in all reports and literature that the SANTA CRUZ COUNTY SANITATION DISTRICT Board of Directors has provided funding to the CONTRACTOR.

11. **RETENTION AND AUDIT OF RECORDS.** CONTRACTOR shall retain records pertinent to this Contract for a period of not less than five (5) years after final payment under this Contract or until a final audit report is accepted by DISTRICT, whichever occurs first. CONTRACTOR hereby agrees to be subject to the examination and audit by the Santa Cruz County Auditor-Controller-Treasurer-Tax Collector, the Auditor General of the State of California, or the designee of either for a period of five (5) years after final payment under this Contract.

12. **PRESENTATION OF CLAIMS.** Presentation and processing of any or all claims arising out of or related to this Contract shall be made in accordance with the provisions contained in Chapter 1.05 of the SANTA CRUZ COUNTY SANITATION DISTRICT Code, which by this reference is incorporated herein.

13. **ATTACHMENTS.** Should a conflict arise between the language in the body of this Contract and any attachment to this Contract, the language in the body of this Contract controls. This Contract includes the following attachments: Exhibit "A" (Scope of Services)

14. **NON-BINDING UNTIL APPROVED.** Regardless of whether this Contract has been signed by all parties, if the total compensation identified in Paragraph 2 of this Contract is greater than $25,000, this Contract is not binding on any party until the Contract has been approved by the Santa Cruz County Sanitation District Board of Directors.

15. **MISCELLANEOUS.** This written Contract, along with any attachments, is the full and complete integration of the parties' agreement forming the basis for this Contract. The parties agree that this written Contract supersedes any previous written or oral agreements between the parties, and any modifications to this Contract must be made in a written document signed by all parties. The unenforceability, invalidity or illegality of any provision(s) of this Contract shall not render the other provisions unenforceable, invalid or illegal. Waiver by any party of any portion of this Contract shall not constitute a waiver of any other portion thereof. Any arbitration, mediation, or litigation arising out of this Contract shall occur only in the County of Santa Cruz notwithstanding the fact that one of the contracting parties may reside outside of the County of Santa Cruz. This Contract shall be governed by, and interpreted in accordance with, California law.

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SIGNATURE PAGE

Contract No. _____

INDEPENDENT CONTRACTOR AGREEMENT
(STANDARD)

IN WITNESS WHEREOF, the parties hereto have set their hands the day and year first above written.

2. EVOQUA WATER TECHNOLOGIES, LLC

By: _____
SIGNED

_____
PRINTED

Company Name: EVOQUA WATER TECHNOLOGIES, LLS

Address: 2650 TALLEVAST ROAD
SARASOTA, FL 34243

Telephone: (800) 345-3982

Fax: (941) 359-7985

Email: Jennifer.miller@evoqua.com

4. SANTA CRUZ COUNTY SANITATION DISTRICT

By: _____
SIGNED

_____
PRINTED

3. APPROVED AS TO INSURANCE:

_____
Risk Management

1. APPROVED AS TO FORM:

_____
Office of the District Counsel

DISTRIBUTION:
- SCCSD Fiscal
- Risk Management
- *Contractor*

DOC. B1895.doc

12-8

Full Service Odor Control Program
Evoqua Quote No. 2017-203815

June 1, 2017

Evoqua Water Technologies LLC
2650 Tallevast Road
Sarasota, FL 34243
Tel: +1 (800) 345-3982
Fax: +1 (941) 359-7985

12-9

EVOQUA
WATER TECHNOLOGIES

Thank you for continuing to trust Evoqua Water Technologies LLC for your odor control needs. Evoqua Water Technologies is a recognized leader in the development of innovative products for the control of odors in wastewater collection and treatment systems. Evoqua is pleased to offer the following proposal for providing a full service odor control program for the County of Santa Cruz.

1. SCOPE OF SERVICES - CURRENT

1.1 Liquid Phase Technology

1.1.1 Odor Control Solution

Evoqua shall provide a supply of Bioxide® Solution in minimum 3,800 gallon loads.

1.1.2 Equipment

Table 1 outlines the current equipment supplied to the County for the purposes of odor control.

Feed Site	Feed Rate	Tank Capacity[1]	Control System	Pump Type	Remote Tank Level?[2]
Arana Gulch	8	300 gal	1-pump, 1-timer	Bellows	N
Brommer	30	900 gal	1-pump, 1-timer	Bellows	Y
Capitola	30	1400 gal	2-pump, 2-timer	Bellows	N
Dolphin	45	4400 gal	Versadose LT	Bellows	Y
Harbor	8	400 gal	1-pump, 1-timer	Bellows	N
Rodeo	144	8000 gal	Versadose[3]	Diaphragm	Y
Schwaan	30	900 gal	1-pump, 1-timer	Bellows	Y

Table 1 – Equipment Provided

Note (1): The tank capacity listed is the total tank capacity at the site. Some sites have several smaller tanks connected rather than a single, larger tank.
Note (2): Evoqua plans to include remote tank level capability for the Arana Gulch, Capitola, and Harbor feed locations during the upcoming contract period.
Note (3): Evoqua plans to upgrade the Versadose panel at the Rodeo Pump Station with an updated Versadose LT control panel. Current feed system will be replaced with a new stainless steel Nema 4X panel enclosure with two bellows pumps and calibration cabinet.

Additionally, Evoqua will supply a total of three (3) VaporLink Hydrogen Sulfide Monitors to be placed at sensitive control points within the collection system.

1.1.3 Preventative Maintenance and Monitoring Services

An Evoqua service technician will visit the site to perform routine maintenance on the dosing equipment, optimize chemical dosing, conduct compliance sampling (upon request) and provide a written report. On-site routine maintenance service will be scheduled in advance and include, but not be limited to the following:

Provide bi-monthly maintenance and optimization services. Routine Service shall include, but not be limited to:

1. Check the equipment for proper operation
2. Perform sulfide sampling at the control point (upon request)
3. Perform scheduled preventative maintenance on equipment.
4. Provide detailed report outlining services and observations during the routine service visit.

Provide emergency service to the dosing equipment. 24-hour technical phone response is included in the price of the program.

1.2 Vapor Phase Technology

Evoqua will continue to offer the following vapor phase materials and services to the County of Santa Cruz:

- ✓ VSC-1000 1200 Series Carbon Adsorption Vapor Unit, filled with 1,000 lbs. of VoCarb 48C activated carbon virgin coconut 4x8 with an 8' inlet and outlet option
- ✓ Evoqua will remove and replace 1,000 lbs. carbon (including labor and disposal) for the VSC-1000 1200 Series. If material is determined to be hazardous (typically due to low pH), an additional charge shall apply.
- ✓ Evoqua will remove and replace carbon (including labor and disposal) for the High Flow VENTSORB unit at the Brommer Pump Station (250 lbs of VoCarb 48C carbon). If the material is determined to be hazardous (typically due to low pH), an additional charge shall apply.
- ✓ Evoqua will replace carbon (including labor and disposal) for the custom carbon scrubbing unit at the Capitola Pump Station (200 lbs of VoCarb 48C carbon). If the material is determined to be hazardous (typically due to low pH), an additional charge shall apply.

2.0 NEW SITES

2.1 Technology Approach

As discussed, the County has historically had issues with high hydrogen sulfide levels along the force main from the Esplanade Pump Station. In addition, the County has issues with elevated levels of hydrogen sulfide further downstream at the Soquel PS. To mitigate these hydrogen sulfide issues, Evoqua suggests feeding Alkagen at the Esplanade PS and then feed Bioxide at the Tannery Gulch PS implementing the patented Bioxide AE process. The addition of Alkagen will increase the pH of the wastewater keeping the sulfides in solution and preventing the sulfides from being released into the air. The addition of Bioxide at Tannery Gulch will utilize Bioxide's removal mechanism and biochemically oxidize the sulfides in the wastewater, therefore reducing the amount of sulfides coming into the Soquel PS. A simple schematic of the proposed technology implementation is shown in Figure 1 below.

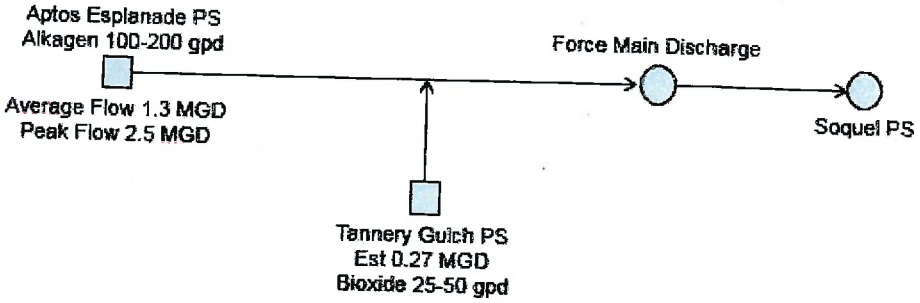

Figure 1 – System Schematic

Alkaline Addition/pH Shift

Hydrogen sulfide (H_2S) is a partially soluble gas which exists in wastewater in equilibrium with the hydrosulfide ion (HS^-) and sulfide ion ($S^=$). At neutral pH of 7.0, roughly 50% of the sulfide in solution will be in the H_2S form, which means it can be released to the atmosphere to cause odor and corrosion problems. At pH 9.0 less than 1% of sulfide is in the H_2S form. This relationship is shown on the following graph in Figure 2.

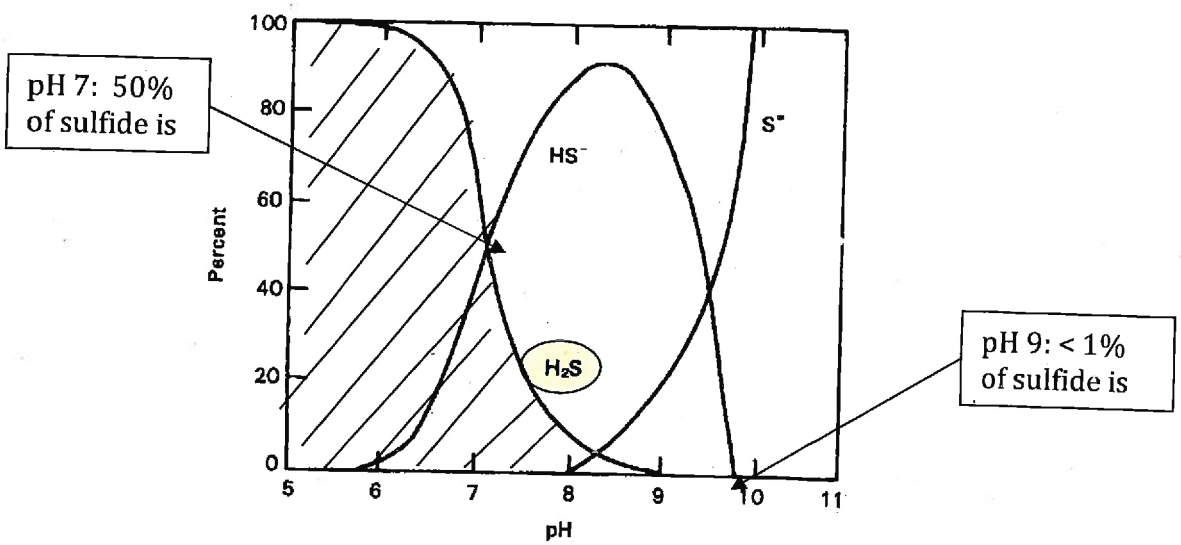

Figure 2 – Sulfide Equilibrium

Alkagen

Alkagen contains a non-hazardous alkalinity supplement which is used to increase the pH of wastewater necessary to control release of hydrogen sulfide. . .

In addition to the odor and corrosion control benefits of alkalinity supplementation, Alkagen will provide needed alkalinity for your treatment process and will help solubilize fats, oils, and grease in the stations where it is applied. Alkagen has the following benefits:

- **Rapid dissolution.** Alkagen rapidly dissolves in wastewater, providing an almost instantaneous effect. Pump stations can usually be treated by applying Alkagen to an influent manhole. .
- **pH Range.** Alkagen can elevate the pH of wastewater to 8.5 or greater, providing a shift of over 99.9% of dissolved sulfide to the non-volatile HS^- ion.
- **Control.** Alkagen can be adjusted to the pH needed for a given application and controlled to maintain that pH using Evoqua VersaDose technology, eliminating product overfeed and waste.
- **Alkalinity**. Alkagen also provides alkalinity to the water supply if needed to assist nitrification at the WWTP.
- **Low Viscosity**. Alkagen comes as a ready-to-use suspension of 45% solids that is delivered at a viscosity below 500 cPs.

The Alkagen® treatment system is proposed to be located at the Aptos Esplanade Pump Station. The product shall be fed directly into the wet well. The Alkagen will rapidly dissolve and elevate the pH to hold the sulfides in solution through to the designated control point. Based on the estimated average flow through the Esplanade PS (approx.1.3 MGD), Evoqua estimates 100 to 200 gallons of Alkagen per day is required to raise the pH above 8.5. Alkagen is suited for sites greater than 100 gpd.

2.2 Scope of Services

2.2.1 Odor Control Solution

In addition to the Bioxide® Solution being provided, Alkagen will be delivered in minimum 3,800 gallon loads.

2.2.2 Equipment Supply

Aptos Esplanade Pump Station

Evoqua will provide the following equipment (as shown in Figure 3); equipment will deliver chemical directly into the wetwell.

Quantity	Item
2-	2,500 gal (Minimum) Gallon Single Wall High Density Cross Linked Polyethylene Chemical Storage Tank with baffles (8'0"diameter x 8'2" height)
2-	Tank Mixing System
1-	Complete Control Unit with Single Feed Pump. The Control Unit shall consist of: (1) Operator Interface (1) Tank level readout (2) Auto/Off switches with indicator lights (1) Flow Dosing capability (1) Custom Dosing Profiles (2) Dry contacts to receive digital inputs (1) Disconnect switch
2-	Single Wall Piping Kits shall consist of: ½" Reinforced Tubing. 1- 2" Stainless Steel Male Camlock 1- 2" Plastic Female Camlock Cap

EVOQUA
WATER TECHNOLOGIES

2" Schedule 80 PVC Tank Fill Piping

1- Remote monitoring package. This includes hardware to allow tank level to be viewed from the internet.

Evoqua Water Technologies retains ownership of all provided equipment.

Evoqua shall be responsible for the following installation activities:
1. Provide a submittal of drawings for review
2. Deliver and set tank and feed system
3. Feed line installation
4. Installation of conduit and wire to a point adjacent to the pump station control panel

The County is needed to assist with the following activities:

1. Provide a concrete pad to accommodate the tank and feed system
2. Provide electrical service of 480 V, 3ph, 25 amp for the feed system within 10' of system
3. Any trenching, tapping of lines, drilling through concrete, etc., required to run chemical injection tubing to the application point
4. Provide a 4-20 mA flow signal or pump contacts (Not required)
5. Provide flush water to the skid – 5 gpm @ 20 psi (Flush water shall have a break tank provided by Evoqua)

Figure 3 shows a picture of an Alkagen® storage and feed system.

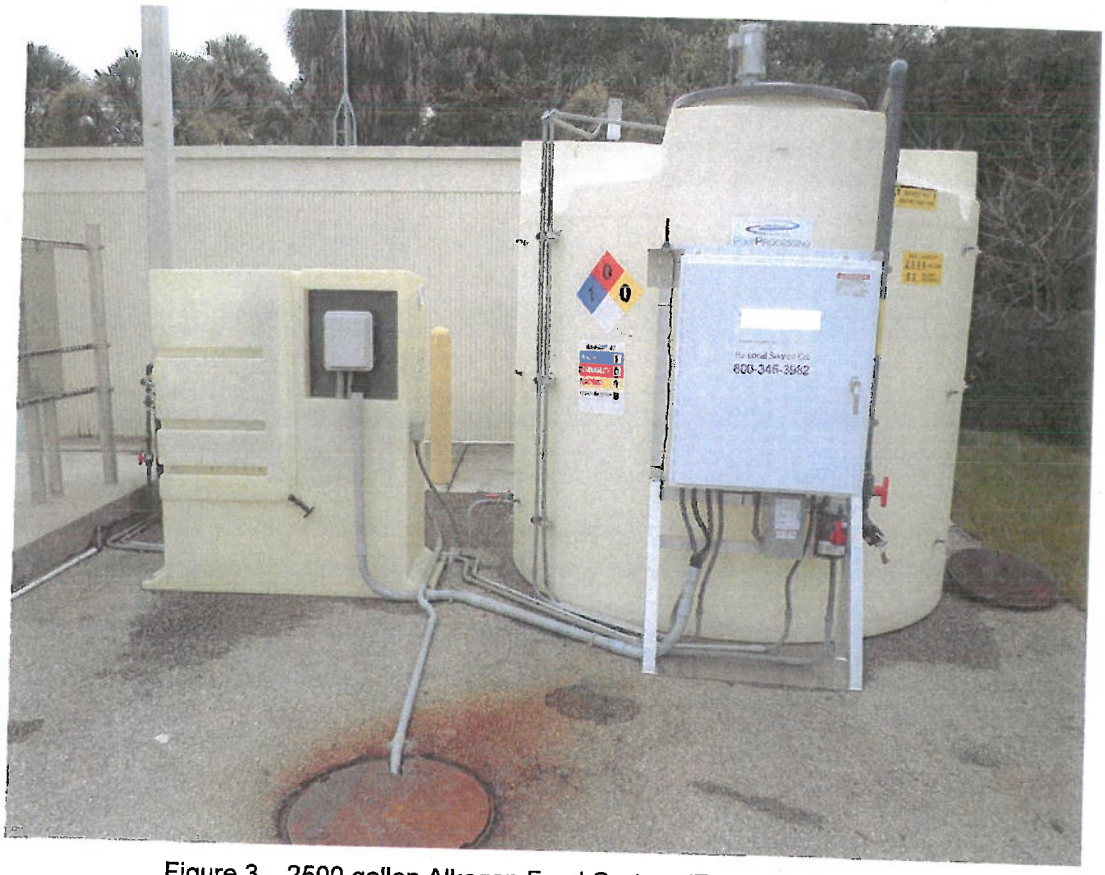

Figure 3 – 2500 gallon Alkagen Feed System (For Reference Only)

Tannery Gulch Pump Station

Evoqua will provide the following equipment (as shown in Figure 4); equipment will deliver chemical directly into the wetwell.

Quantity	Item
1-	1,000 Nominal Gallon, Double Wall, High Density Cross Linked Polyethylene Chemical Storage Tank (6'5"d x 6'7 h)
1-	Each 316 SS Control Enclosures contains the following features: 1- Operator Interface with tank level readout 2- 15908-001 Evoqua Water Technologies Bellows Pumps with an adjustable feed rate from 12 to 120 mL/min and a maximum discharge pressure of 40 psi. 1- Calibration Cylinder with Flow Control Valves 1- Pressure Transducing Level Probe for local display 1- 24 hour programmable dose curve

1- Step-functioning Dosing Packages – The package will be programmed at the factory. The programming logic shall remain registered in the CPU memory and cannot be changed.

1- Remote monitoring package. This includes hardware to allow tank level to be viewed from the internet.

Figure 4 – 1,000 gallon Bioxide Double Wall Tank and VDLT

Evoqua Water Technologies retains ownership of all provided equipment.

Evoqua shall be responsible for the following installation activities:
1. Provide a submittal of drawings for review
2. Deliver and set tank and feed system
3. Feed line installation
4. Installation of conduit and wire to a point adjacent to the pump station control panel

The County is needed to assist with the following activities:

1. Provide a concrete pad to accommodate the tank and feed system
2. Provide electrical service of 120 V, 1ph for the feed system within 10' of system
3. Any trenching, tapping of lines, drilling through concrete, etc., required to run chemical injection tubing to the application point
4. Provide a 4-20 mA flow signal or pump contacts (Not required)

2.2.3 Preventative Maintenance and Monitoring Services

These additional sites would be included in the service program described in Section 1.1.3.

3.0 PRICE

Evoqua Water Technologies is pleased to offer the following price for equipment, chemicals and services for a four (4) year period. Pricing is fixed for the duration of the contract.

Bioxide:	$2.39/gallon PPD delivered in minimum 3,800 gallon bulk loads. All deliveries require 5-7 business days' notice from receipt of purchase order.
Alkagen:	$2.89/gallon PPD delivered in minimum 3,800 gallon bulk loads for sites greater than 100 gpd. All deliveries require 5-7 business days' notice from receipt of purchase order.
Equipment/Service Fee:	Included in the price of chemical. (Two visits per month)

Carbon Supply and Services:

1. VSC-1000 Carbon Adsorption Vapor Unit, filled with 1,000 lbs. of VoCarb 48C activated carbon virgin coconut 4x8 with an 8' inlet and outlet option will be provided at a price of $7,260 each.
2. Evoqua will remove and replace 1,000 lbs. carbon (including labor and disposal) for the VSC-1000 1200 Series for $5,145 per unit. If material is determined to be hazardous (typically due to low pH), an additional charge shall apply.
3. Evoqua will remove and replace carbon (including labor and disposal) for the High Flow VENTSORB unit at the Brommer Pump Station (250 lbs of VoCarb® 48C carbon) for $3,663. If the material is determined to be hazardous (typically due to low pH), an additional charge shall apply.
4. Evoqua will replace carbon (including labor and disposal) for the custom carbon scrubbing unit at the Capitola Pump Station (200 lbs of VoCarb 48C carbon) for $3,577. If the material is determined to be hazardous (typically due to low pH), an additional charge shall apply.
5. VSC-200 (55-gallon drum) Carbon Adsorption Vapor Unit, filled with 200 lbs. of VoCarb 48C activated carbon virgin coconut 4x8 will be provided at a price of $856 each.
6. Carbon profiles, when needed, will be provided at a price of $ $692 each.

Terms of payment are NET 30 days from date of invoice. These prices do not include *any* applicable taxes. The attached Terms and Conditions are considered part of this proposal and shall prevail.

The price associated with this quote will remain in effect for a period of ninety (90) days. If we are not in receipt of an order by the end of this firm price period, we reserve the right to modify the prices quoted.

EVOQUA
WATER TECHNOLOGIES

Evoqua is committed to providing the highest standard of chemical quality and technical services in the industry. If the above proposal does not meet your application requirements, I would appreciate the opportunity to discuss alternatives with you.

Thank you again for this opportunity to allow Evoqua to assist you in supplying a Bioxide chemical and service program. If you have any questions or need additional information, please contact me at: (916) 390-8946.

Evoqua Water Technologies LLC

Rhett Ussery

Rhett Ussery
Technical Sales Representative

EVOQUA WATER TECHNOLOGIES LLC

Standard Terms of Sale

1. **Applicable Terms.** These terms govern the purchase and sale of equipment, products, related services, leased products, and media goods if any (collectively herein "Work"), referred to in Seller's proposal ("Seller's Documentation"). Whether these terms are included in an offer or an acceptance by Seller, such offer or acceptance is expressly conditioned on Buyer's assent to these terms. Seller rejects all additional or different terms in any of Buyer's forms or documents.

2. **Payment.** Buyer shall pay Seller the full purchase price as set forth in Seller's Documentation. Unless Seller's Documentation specifically provides otherwise, freight, storage, insurance and all taxes, levies, duties, tariffs, permits or license fees or other governmental charges relating to the Work or any incremental increases thereto shall be paid by Buyer. If Seller is required to pay any such charges, Buyer shall immediately reimburse Seller. If Buyer claims a tax or other exemption or direct payment permit, it shall provide Seller with a valid exemption certificate or permit and indemnify, defend and hold Seller harmless from any taxes, costs and penalties arising out of same. All payments are due within 30 days after receipt of invoice. Buyer shall be charged the lower of 1 ½% interest per month or the maximum legal rate on all amounts not received by the due date and shall pay all of Seller's reasonable costs (including attorneys' fees) of collecting amounts due but unpaid. All orders are subject to credit approval by Seller. Back charges without Seller's prior written approval shall not be accepted.

3. **Delivery.** Delivery of the Work shall be in material compliance with the schedule in Seller's Documentation. Unless Seller's Documentation provides otherwise, delivery terms are ExWorks Seller's factory (Incoterms 2010). Title to all Work shall pass upon receipt of payment for the Work under the respective invoice. Unless otherwise agreed to in writing by Seller, shipping dates are approximate only and Seller shall not be liable for any loss or expense (consequential or otherwise) incurred by Buyer or Buyer's customer if Seller fails to meet the specified delivery schedule.

4. **Ownership of Materials and Licenses.** All devices, designs (including drawings, plans and specifications), estimates, prices, notes, electronic data, software and other documents or information prepared or disclosed by Seller, and all related intellectual property rights, shall remain Seller's property. Seller grants Buyer a non-exclusive, non-transferable license to use any such material solely for Buyer's use of the Work. Buyer shall not disclose any such material to third parties without Seller's prior written consent. Buyer grants Seller a non-exclusive, non-transferable license to use Buyer's name and logo for marketing purposes, including but not limited to, press releases, marketing and promotional materials, and web site content.

5. **Changes.** Neither party shall implement any changes in the scope of Work described in Seller's Documentation without a mutually agreed upon change order. Any change to the scope of the Work, delivery schedule for the Work, any Force Majeure Event, any law, rule, regulation, order, code, standard or requirement which requires any change hereunder shall entitle Seller to an equitable adjustment in the price and time of performance.

6. **Force Majeure Event.** Neither Buyer nor Seller shall have any liability for any breach or delay (except for breach of payment obligations) caused by a Force Majeure Event. If a Force Majeure Event exceeds six (6) months in duration, the Seller shall have the right to terminate the Agreement without liability, upon fifteen (15) days written notice to Buyer, and shall be entitled to payment for work performed prior to the date of termination. "Force Majeure Event" shall mean events or circumstances that are beyond the affected party's control and could not reasonably have been easily avoided or overcome by the affected party and are not substantially attributable to the other party. Force Majeure Event may include, but is not limited to, the following circumstances or events: war, act of foreign enemies, terrorism, riot, strike, or lockout by persons other than by Seller or its sub-suppliers, natural catastrophes or (with respect to on-site work), unusual weather conditions.

7. **Warranty.** Subject to the following sentence, Seller warrants to Buyer that the (i) Work shall materially conform to the description in Seller's Documentation and shall be free from defects in material and workmanship and (ii) the Services shall be performed in a timely and workmanlike manner. Determination of suitability of treated water for any use by Buyer shall be the sole and exclusive responsibility of Buyer. The foregoing warranty shall not apply to any Work that is specified or otherwise demanded by Buyer and is not manufactured or selected by Seller, as to which (i) Seller hereby assigns to Buyer, to the extent assignable, any warranties made to Seller and (ii) Seller shall have no other liability to Buyer under warranty, tort or any other legal theory. The Seller warrants the Work, or any components thereof, through the earlier of (i) eighteen (18) months from delivery of the Work or (ii) twelve (12) months from initial operation of the Work or ninety (90) days from the performance of services (the "Warranty Period"). If Buyer gives Seller prompt written notice of breach of this warranty within the Warranty Period, Seller shall, at its sole option and as Buyer's sole and exclusive remedy, repair or replace the subject parts, re-perform the Service or refund the purchase price. Unless otherwise agreed to in writing by Seller, (i) Buyer shall be responsible for any labor required to gain access to the Work so that Seller can assess the available remedies and (ii) Buyer shall be responsible for all costs of installation of repaired or replaced Work. If Seller determines that any claimed breach is not, in fact, covered by this warranty, Buyer shall pay Seller its then customary charges for any repair or replacement made by Seller. Seller's warranty is conditioned on Buyer's (a) operating and maintaining the Work in accordance with Seller's instructions, (b) not making any unauthorized repairs or alterations, and (c) not being in default of any payment obligation to Seller. Seller's warranty does not cover (i) damage caused by chemical action or abrasive material, misuse or improper installation (unless installed by Seller) and (ii) media goods (such as, but not limited to, resin, membranes, or granular activated carbon media) once media goods are installed. THE WARRANTIES SET FORTH IN THIS SECTION 7 ARE THE SELLER'S SOLE AND EXCLUSIVE WARRANTIES AND ARE SUBJECT TO THE LIMITATION OF LIABILITY PROVISION BELOW. SELLER MAKES NO OTHER WARRANTIES OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE.

8. **Indemnity.** Seller shall indemnify, defend and hold Buyer harmless from any claim, cause of action or liability incurred by Buyer as a result of third party claims for personal injury, death or damage to tangible property, to the extent caused by Seller's negligence. Seller shall have the sole authority to direct the defense of and settle any indemnified claim. Seller's indemnification is conditioned on Buyer (a) promptly, within the Warranty Period, notifying Seller of any claim, and (b) providing reasonable cooperation in the defense of any claim.

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9. **Assignment.** Neither party may assign this Agreement, in whole or in part, nor any rights or obligations hereunder without the prior written consent of the other party; provided, however, the Seller may assign its rights and obligations under these terms to its affiliates or in connection with the sale or transfer of the Seller's business and Seller may grant a security interest in the Agreement and/or assign proceeds of the agreement without Buyer's consent.

10. **Termination.** Either party may terminate this agreement, upon issuance of a written notice of breach and a thirty (30) day cure period, for a material breach (including but not limited to, filing of bankruptcy, or failure to fulfill the material obligations of this agreement). If Buyer suspends an order without a change order for ninety (90) or more days, Seller may thereafter terminate this Agreement without liability, upon fifteen (15) days written notice to Buyer, and shall be entitled to payment for work performed, whether delivered or undelivered, prior to the date of termination.

11. **Dispute Resolution.** Seller and Buyer shall negotiate in good faith to resolve any dispute relating hereto. If, despite good faith efforts, the parties are unable to resolve a dispute or claim arising out of or relating to this Agreement or its breach, termination, enforcement, interpretation or validity, the parties will first seek to agree on a forum for mediation to be held in a mutually agreeable site. If the parties are unable to resolve the dispute through mediation, *then* any dispute, claim or controversy arising out of or relating to this Agreement or the breach, termination, enforcement, interpretation or validity thereof, including the determination of the scope or applicability of this agreement to arbitrate, shall be determined by arbitration in Pittsburgh, Pennsylvania before three arbitrators who are lawyers experienced in the discipline that is the subject of the dispute and shall be jointly selected by Seller and Buyer. The arbitration shall be administered by JAMS pursuant to its Comprehensive Arbitration Rules and Procedures. The Arbitrators shall issue a reasoned decision of a majority of the arbitrators, which shall be the decision of the panel. Judgment may be entered upon the arbitrators' decision in any court of competent jurisdiction. The substantially prevailing party as determined by the arbitrators shall be reimbursed by the other party for all costs, expenses and charges, including without limitation reasonable attorneys' fees, incurred by the prevailing party in connection with the arbitration. For any order shipped outside of the United States, any dispute shall be referred to and finally determined by the International Center for Dispute Resolution in accordance with the provisions of its International Arbitration Rules, enforceable under the New York Convention (Convention on the Recognition and Enforcement of Foreign Arbitral Awards) and the governing language shall be English.

12. **Export Compliance.** Buyer acknowledges that Seller is required to comply with applicable export laws and regulations relating to the sale, exportation, transfer, assignment, disposal and usage of the Work provided under this Agreement, including any export license requirements. Buyer agrees that such Work shall not at any time directly or indirectly be used, exported, sold, transferred, assigned or otherwise disposed of in a manner which will result in non-compliance with such applicable export laws and regulations. It shall be a condition of the continuing performance by Seller of its obligations hereunder that compliance with such export laws and regulations be maintained at all times. BUYER AGREES TO INDEMNIFY AND HOLD SELLER HARMLESS FROM ANY AND ALL COSTS, LIABILITIES, PENALTIES, SANCTIONS AND FINES RELATED TO NON-COMPLIANCE WITH APPLICABLE EXPORT LAWS AND REGULATIONS.

13. **LIMITATION OF LIABILITY.** NOTWITHSTANDING ANYTHING ELSE TO THE CONTRARY, SELLER SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, PUNITIVE OR OTHER INDIRECT DAMAGES, AND SELLER'S TOTAL LIABILITY ARISING AT ANY TIME FROM THE SALE OR USE OF THE WORK, INCLUDING WITHOUT LIMITATION ANY LIABILITY FOR ALL WARRANTY CLAIMS OR FOR ANY BREACH OR FAILURE TO PERFORM ANY OBLIGATION UNDER THE CONTRACT, SHALL NOT EXCEED THE PURCHASE PRICE PAID FOR THE WORK. THESE LIMITATIONS APPLY WHETHER THE LIABILITY IS BASED ON CONTRACT, TORT, STRICT LIABILITY OR ANY OTHER THEORY.

14. **Rental Equipment / Services.** Any leased or rented equipment ("Leased Equipment") provided by Seller shall at all times be the property of Seller with the exception of certain miscellaneous installation materials purchased by the Buyer, and no right or property interest is transferred to the Buyer, except the right to use any such Leased Equipment as provided herein. Buyer agrees that it shall not pledge, lend, or create a security interest in, part with possession of, or relocate the Leased Equipment. Buyer shall be responsible to maintain the Leased Equipment in good and efficient working order. At the end of the initial term specified in the order, the terms shall automatically renew for the identical period unless canceled in writing by Buyer or Seller not sooner than three (3) months nor later than one (1) month from termination of the initial order or any renewal terms. Upon any renewal, Seller shall have the right to issue notice of increased pricing which shall be effective for any renewed terms unless Buyer objects in writing within fifteen (15) days of issuance of said notice. If Buyer timely cancels service in writing prior to the end of the initial or any renewal term this shall not relieve Buyer of its obligations under the order for the monthly rental service charge which shall continue to be due and owing. Upon the expiration or termination of this Agreement, Buyer shall promptly make any Leased Equipment available to Seller for removal. Buyer hereby agrees that it shall grant Seller access to the Leased Equipment location and shall permit Seller to take possession of and remove the Leased Equipment without resort to legal process and hereby releases Seller from any claim or right of action for trespass or damages caused by reason of such entry and removal.

15. **Miscellaneous.** These terms, together with any Contract Documents issued or signed by the Seller, comprise the complete and exclusive statement of the agreement between the parties (the "Agreement") and supersede any terms contained in Buyer's documents, unless separately signed by Seller. No part of the Agreement may be changed or cancelled except by a written document signed by Seller and Buyer. No course of dealing or performance, usage of trade or failure to enforce any term shall be used to modify the Agreement. To the extent the Agreement is considered a subcontract under Buyer's prime contract with an agency of the United States government, in case of Federal Acquisition Regulations (FARs) flow down terms, Seller will be in compliance with Section 44.403 of the FAR relating to commercial items and those additional clauses as specifically listed in 52.244-6, Subcontracts for Commercial Items (OCT 2014). If any of these terms is unenforceable, such term shall be limited only to the extent necessary to make it enforceable, and all other terms shall remain in full force and effect. The Agreement shall be governed by the laws of the Commonwealth of Pennsylvania without regard to its conflict of laws provisions. Both Buyer and Seller reject the applicability of the United Nations Convention on Contracts for the international sales of goods to the relationship between the parties and to all transactions arising from said relationship.

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Santa Cruz County Sanitation District

701 OCEAN STREET, SUITE 410, SANTA CRUZ, CA 95060-4073
(831) 454-2160 FAX (831) 454-2089 TDD/TTY- CALL 711

JOHN J. PRESLEIGH, DISTRICT ENGINEER

AGENDA DATE: JUNE 8, 2017

BOARD OF DIRECTORS
SANTA CRUZ COUNTY SANITATION DISTRICT
701 Ocean Street, Room 410
Santa Cruz, California 95060

SUBJECT: SELECTION OF QUINCY ENGINEERING FOR THE SECONDARY FORCE MAIN FEASIBILITY STUDY

Members of the Board:

On February 16, 2017, your Board approved a Request for Qualifications (RFQ) for civil design services to evaluate the option of a secondary, redundant force main from the D.A. Porath Sanitation Facility to the City of Santa Cruz's Wastewater Treatment Facility.

The District received Statements of Qualifications from four engineering firms on March 29, 2017. Staff ranked the firms based on the criteria outlined in the RFQ and is recommending Quincy Engineering, of Roseville, to be approved by your Board to perform a feasibility study to evaluate the best option for a secondary force main. Quincy Engineering's project manager has over 30 years of experience in water and wastewater projects. Their design manager also has over 30 years of experience, including delivering pipeline planning, design and construction for over 975,000 feet of pipeline. A copy of their proposal is attached.

Attached for your Board's consideration is an independent contractor agreement with Quincy Engineering for the preparation of the feasibility study for a not to exceed amount of $399,573.00, starting on July 1, 2017.

Adequate funding is available in the 2017/2018 Santa Cruz County Sanitation District budget under GL Key 625195, project number P54062.

It is therefore recommended that the Board of Directors take the following action:

1. Approve the attached independent contractor agreement with Quincy Engineering for a not-to-exceed amount of $399,573.00.

2. Authorize the District Engineer to sign the agreement on behalf of the District.

Yours truly,

JOHN J. PRESLEIGH
District Engineer

KE:dls/b1893

Attachments

Contract No._____

INDEPENDENT CONTRACTOR AGREEMENT (DESIGN PROFESSIONALS)

This Contract, which is effective on the date it is fully executed, is between the SANTA CRUZ COUNTY SANITATION DISTRICT, hereinafter called DISTRICT, and Quincy Engineering, hereinafter called CONTRACTOR. The parties agree as follows:

1. **DUTIES.** CONTRACTOR agrees to exercise special skill, in accordance with customary and ordinary professional practices and principles accepted in the industry, to accomplish the following results: Preparation of a Feasibility Study for a Secondary Force Main from the D.A. Porath Sanitation Facility to the City of Santa Cruz's Wastewater Treatment Plant for the DISTRICT (hereinafter called "the project").

2. **COMPENSATION.** In consideration for CONTRACTOR accomplishing said result, DISTRICT agrees to pay CONTRACTOR as follows: Payment not to exceed $399,572.50, processed for payment in full after project completion, receipt of invoice, and approval of project manager after receipt and project manager approval of monthly invoices based upon the amount of actual progress achieved during the preceding month.

3. **TERM.** The term of this Contract shall be: July 1, 2017, through December 29, 2017, or completion of the project, whichever is later.

4. **DESIGN DOCUMENTS.** All design documents prepared by CONTRACTOR shall comply with applicable laws, statutes, ordinances, codes, rules and regulations. Original design drawings and specifications are the property of CONTRACTOR; however, DISTRICT shall be furnished with reproductions of drawings and specifications produced pursuant to this Contract. Reproductions shall be the property of the DISTRICT, which may use them without CONTRACTOR's permission for any purpose relating to the project, including construction of the work of improvement.

5. **SCHEDULE.** CONTRACTOR shall complete the project as expeditiously as is consistent with professional skill and care, and the prompt, orderly progress of the project. The total amount of compensation accounts for time necessary for review and revision of design drawings and specifications by DISTRICT and other entities or authorities with jurisdiction over the project, if any, and no additional compensation shall be due for delays attributable thereto. No additional services or work made necessary, in whole or in part, by any fault or omission of CONTRACTOR to perform its duties, responsibilities or obligations under this Contract, shall be compensated as extra work.

6. **EARLY TERMINATION.** DISTRICT may terminate this Contract at any time by giving thirty (30) days' written notice to the CONTRACTOR. CONTRACTOR may terminate this Contract only for cause, after providing DISTRICT thirty (30) days' written notice and opportunity to cure, specifying in detail the cause for termination.

7. **INDEMNIFICATION FOR DAMAGES, TAXES AND CONTRIBUTIONS.** To the fullest extent permitted by applicable law, CONTRACTOR shall exonerate, indemnify, defend, and hold harmless DISTRICT (which for the purpose of paragraphs 7 and 8 shall include, without limitation, its officers, agents, employees and volunteers) from and against:

A. Any and all claims, demands, losses, damages, defense costs, or liability of any kind or nature which DISTRICT may sustain or incur or which may be imposed upon it which arise out of, pertain to, or relate to CONTRACTOR'S negligence, recklessness, or willful misconduct under the terms of this Agreement. Such indemnification includes any damage to the person(s), or property(ies) of CONTRACTOR and third persons.

B. Any and all Federal, State, and Local taxes, charges, fees, or contributions required to be paid with respect to CONTRACTOR and CONTRACTOR'S officers, employees and agents engaged in the performance of this Contract (including, without limitation, unemployment insurance, social security and payroll tax withholding).

8. **INSURANCE.** CONTRACTOR, at its sole cost and expense, for the full term of this Contract (and any extensions thereof), shall obtain and maintain, at minimum, compliance with all of the following insurance coverage(s) and requirements. Such insurance coverage shall be primary coverage as respects DISTRICT and any insurance or self-insurance maintained by DISTRICT shall be considered in excess of CONTRACTOR'S insurance coverage and shall not contribute to it. If CONTRACTOR normally carries insurance in an amount greater than the minimum amount required by the DISTRICT for this Contract, that greater amount shall become the minimum required amount of insurance for purposes of this Contract. Therefore, CONTRACTOR hereby acknowledges and agrees that any and all insurances carried by it shall be deemed liability coverage for any and all actions it performs in connection with this Contract. Insurance is to be obtained from insurers reasonably acceptable to the DISTRICT.

If CONTRACTOR utilizes one or more subcontractors in the performance of this Contract, CONTRACTOR shall obtain and maintain Contractor's Protective Liability insurance as to each subcontractor or otherwise provide evidence of insurance coverage from each subcontractor equivalent to that required of CONTRACTOR in this Contract, unless CONTRACTOR and DISTRICT both initial here ____ ____ / ____.

A. **Types of Insurance and Minimum Limits**

(1) Workers' Compensation Insurance in the minimum statutorily required coverage amounts. This insurance coverage shall be required unless the CONTRACTOR has no employees and certifies to this fact by initialing here _____.

(2) Automobile Liability Insurance for each of CONTRACTOR'S vehicles used in the performance of this Contract, including owned, non-owned (e.g. owned by CONTRACTOR'S employees), leased or hired vehicles, in the minimum amount of $500,000 combined single limit per occurrence for bodily injury and property damage. This insurance coverage is required unless the CONTRACTOR does not drive a vehicle in conjunction with any part of the performance of this Contract and CONTRACTOR and DISTRICT both certify to this fact by initialing here ____ / ____.

(3) Comprehensive or Commercial General Liability Insurance coverage at least as broad as the most recent ISO form CG 00 01, with a minimum limit of $1,000,000 per occurrence and $2,000,000 aggregate, including coverage for: (a) products and completed operations; (b) bodily and personal injury, (c) broad form property damage, (d) contractual liability, and (e) cross-liability.

(4) Professional Liability Insurance in the minimum amount of $1,000,000 combined single limit, if, and only if, this Subparagraph is initialed by CONTRACTOR and DISTRICT ____ /____.

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B. **Other Insurance Provisions**

(1) If any insurance coverage required in this Contract is provided on a "Claims Made" rather than "Occurrence" form, CONTRACTOR agrees that the retroactive date thereof shall be no later than the date first written above (in the first paragraph on page 1), and that it shall maintain the required coverage for a period of three (3) years after the expiration of this Contract (hereinafter "post Contract coverage") and any extensions thereof. CONTRACTOR may maintain the required post Contract coverage by renewal or purchase of prior acts or tail coverage. This provision is contingent upon post Contract coverage being both available and reasonably affordable in relation to the coverage provided during the term of this Contract. For purposes of interpreting this requirement, a cost not exceeding 100% of the last annual policy premium during the term of this Contract in order to purchase prior acts or tail coverage for post Contract coverage shall be deemed to be reasonable.

(2) All policies of Comprehensive or Commercial General Liability Insurance shall be endorsed to cover the SANTA CRUZ COUNTY SANITATION DISTRICT, its officials, employees, agents and volunteers as additional insureds with respect to liability arising out of the work or operations and activities performed by or on behalf of CONTRACTOR, including materials, parts or equipment furnished in connection with such work or operations. Endorsements shall be at least as broad as ISO Form CG 20 10 11 85, or both CG 20 10 10 01 and CG 20 37 10 01, covering both ongoing operations and products and completed operations.

Should CONTRACTOR fail to obtain such an endorsement to any policy required hereunder, CONTRACTOR shall be responsible to provide at least thirty (30) days' notice (10 days for nonpayment of premium) of cancellation of such policy to the DISTRICT as a material term of this Contract.

(3) All required insurance policies shall be endorsed to contain the following clause: "This insurance shall not be canceled until after thirty (30) days' (10 days for nonpayment of premium) prior written notice has been given to:

Santa Cruz County Sanitation District
Attn: John Presleigh, District Engineer
701 Ocean Street, Room 410
Santa Cruz, CA 95060

Should CONTRACTOR fail to obtain such an endorsement to any policy required hereunder, CONTRACTOR shall be responsible to provide at least thirty (30) days' notice (10 days for nonpayment of premium) of cancellation of such policy to the DISTRICT as a material term of this Contract.

(4) CONTRACTOR agrees to provide its insurance broker(s) with a full copy of these insurance provisions and provide DISTRICT on or before the effective date of this Contract with Certificates of Insurance and endorsements for all required coverages. However, failure to obtain the required documents prior to the work beginning shall not waive the CONTRACTOR's obligation to provide them. All Certificates of Insurance and endorsements shall be delivered or sent to:

Santa Cruz County Sanitation District
Attn: John Presleigh, District Engineer
701 Ocean Street, Room 410
Santa Cruz, CA 95060

(5) CONTRACTOR hereby grants to DISTRICT a waiver of any right of subrogation which any insurer of said CONTRACTOR may acquire against the DISTRICT by virtue of

the payment of any loss under such insurance. CONTRACTOR agrees to obtain any endorsement that may be necessary to affect this waiver of subrogation, but this provision applies regardless of whether or not the DISTRICT has received a waiver of subrogation endorsement from the insurer.

9. **EQUAL EMPLOYMENT OPPORTUNITY.** During and in relation to the performance of this Contract, CONTRACTOR agrees as follows:

A. The CONTRACTOR shall not discriminate against any employee or applicant for employment because of race, color, creed, religion, national origin, ancestry, physical or mental disability, medical condition (including cancer-related and genetic characteristics), marital status, sexual orientation, age (over 18), veteran status, gender, pregnancy, or any other non-merit factor unrelated to job duties. Such action shall include, but not be limited to, the following: recruitment, advertising, layoff or termination, rates of pay or other forms of compensation, selection for training (including apprenticeship), employment, upgrading, demotion, or transfer. The CONTRACTOR agrees to post in conspicuous places, available to employees and applicants for employment, notice setting forth the provisions of this non-discrimination clause.

B. If this Contract provides compensation in excess of $50,000 to CONTRACTOR and if CONTRACTOR employs fifteen (15) or more employees, the following requirements shall apply:

(1) The CONTRACTOR shall, in all solicitations or advertisements for employees placed by or on behalf of the CONTRACTOR, state that all qualified applicants will receive consideration for employment without regard to race, color, creed, religion, national origin, ancestry, physical or mental disability, medical condition (including cancer-related and genetic characteristics), marital status, sexual orientation, age (over 18), veteran status, gender, pregnancy, or any other non-merit factor unrelated to job duties. Such action shall include, but not be limited to, the following: recruitment; advertising, layoff or termination, rates of pay or other forms of compensation, selection for training (including apprenticeship), employment, upgrading, demotion, or transfer. In addition, the CONTRACTOR shall make a good faith effort to consider Minority/Women/Disabled Owned Business Enterprises in CONTRACTOR'S solicitation of goods and services. Definitions for Minority/Women/Disabled Owned Business Enterprises are available from the DISTRICT General Services Purchasing Division.

(2) In the event of the CONTRACTOR'S non-compliance with the non-discrimination clauses of this Contract or with any of the said rules, regulations, or orders said CONTRACTOR may be declared ineligible for further contracts with the DISTRICT.

(3) The CONTRACTOR shall cause the foregoing provisions of subparagraphs 9B(1) and 9B(2) to be inserted in all subcontracts for any work covered under this Contract by a subcontractor compensated more than $50,000 and employing more than fifteen (15) employees, provided that the foregoing provisions shall not apply to contracts or subcontracts for standard commercial supplies or raw materials.

10. **INDEPENDENT CONTRACTOR STATUS.** CONTRACTOR and DISTRICT have reviewed and considered the principal test and secondary factors below and agree that CONTRACTOR is an independent contractor and not an employee of DISTRICT. CONTRACTOR is responsible for all insurance (workers' compensation, unemployment, etc.) and all payroll related taxes. CONTRACTOR is not entitled to any employee benefits. DISTRICT agrees that CONTRACTOR shall have the right to control the manner and means of accomplishing the result contracted for herein.

PRINCIPAL TEST: The CONTRACTOR rather than DISTRICT has the right to control the manner and means of accomplishing the result contracted for.

SECONDARY FACTORS: (a) The extent of control which, by agreement, DISTRICT may exercise over the details of the work is slight rather than substantial; (b) CONTRACTOR is engaged in a

distinct occupation or business; (c) In the locality, the work to be done by CONTRACTOR is usually done by a specialist without supervision, rather than under the direction of an employer; (d) The skill required in the particular occupation is substantial rather than slight; (e) The CONTRACTOR rather than the DISTRICT supplies the instrumentalities, tools and work place; (f) The length of time for which CONTRACTOR is engaged is of limited duration rather than indefinite; (g) The method of payment of CONTRACTOR is by the job rather than by the time; (h) The work is part of a special or permissive activity, program, or project, rather than part of the regular business of DISTRICT; (i) CONTRACTOR and DISTRICT believe they are creating an independent contractor relationship rather than an employer-employee relationship; and (j) The DISTRICT conducts public business.

It is recognized that it is not necessary that all secondary factors support creation of an independent contractor relationship, but rather that overall there are significant secondary factors that indicate that CONTRACTOR is an independent contractor.

By their signatures on this Contract, each of the undersigned certifies that it is his or her considered judgment that the CONTRACTOR engaged under this Contract is in fact an independent contractor.

11. **NONASSIGNMENT.** CONTRACTOR shall not assign the Contract without the prior written consent of the DISTRICT.

12. **ACKNOWLEDGMENT.** CONTRACTOR shall acknowledge in all reports and literature that the Santa Cruz DISTRICT Board of Directors has provided funding to the CONTRACTOR.

13. **RETENTION AND AUDIT OF RECORDS.** CONTRACTOR shall retain records pertinent to this Contract for a period of not less than five (5) years after final payment under this Contract or until a final audit report is accepted by DISTRICT, whichever occurs first. CONTRACTOR hereby agrees to be subject to the examination and audit by the Santa Cruz County Auditor-Controller-Treasurer-Tax Collector, the Auditor General of the State of California, or the designee of either for a period of five (5) years after final payment under this Contract.

14. **PRESENTATION OF CLAIMS.** Presentation and processing of any or all claims arising out of or related to this Contract shall be made in accordance with the provisions contained in Chapter 1.05 of the Santa Cruz DISTRICT Code, which by this reference is incorporated herein.

15. **ATTACHMENTS.** Should a conflict arise between the language in the body of this Contract and any attachment to this Contract, the language in the body of this Contract controls. This Contract includes the following attachments:

-May 25, 2017, letter from Quincy Engineering with Estimated Schedule and Fee Spreadsheet
-March 29, 2017, Quincy Engineering Statement of Qualifications/Project Plan

16. **NON-BINDING UNTIL APPROVED.** Regardless of whether this Contract has been signed by all parties, if the total compensation identified in Paragraph 2 of this Contract is greater than $25,000, this Contract is not binding on any party until the Contract has been approved by the Santa Cruz County Sanitation District Board of Directors.

17. **MISCELLANEOUS.** This written Contract, along with any attachments, is the full and complete integration of the parties' agreement forming the basis for this Contract. The parties agree that this written Contract supersedes any previous written or oral agreements between the parties, and any modifications to this Contract must be made in a written document signed by all parties. The unenforceability, invalidity or illegality of any provision(s) of this Contract shall not render the other provisions unenforceable, invalid or illegal. Waiver by any party of any portion of this Contract shall not constitute a waiver of any other portion thereof. Any arbitration, mediation, or litigation arising out of

this Contract shall occur only in the County of Santa Cruz, notwithstanding the fact that one of the contracting parties may reside outside of the County of Santa Cruz. This Contract shall be governed by, and interpreted in accordance with, California law.

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SIGNATURE PAGE

Contract No. _____

INDEPENDENT CONTRACTOR AGREEMENT
(DESIGN PROFESSIONALS)

IN WITNESS WHEREOF, the parties hereto have set their hands the day and year first above written.

2. QUINCY ENGINEERING

By: _____
SIGNED

_____
PRINTED

Company Name: QUINCY ENGINEERING

Address: 3400 DOUGLAS BOULEVARD, STE 190
ROSEVILLE, CA 95661

Telephone: _____

Fax: _____

Email: _____

4. SANTA CRUZ COUNTY SANITATION DISTRICT

By: _____
SIGNED

_____
PRINTED

3. APPROVED AS TO INSURANCE:

_____
Risk Management

1. APPROVED AS TO FORM:

_____
Office of the District Counsel

DISTRIBUTION:
- SCCSD
- SCCSD Fiscal
- Risk Management
- Quincy Engineering

Doc: 109.doc

QUINCY ENGINEERING

May 25, 2017

Mr. Kent Edler, PE
Santa Cruz County Sanitation District
701 Ocean Street, Room 410
Santa Cruz, CA 95060

Re: Feasibility Study and Preliminary Civil Design Services for a Secondary Sewer Force Main – Estimated Schedule and Fee Spreadsheet

Dear Kent,

Quincy Engineering and I would like to thank you and the District for selecting our team to assist you with this challenging project. We look forward to working with you and your staff to produce a feasibility study and preliminary design that will achieve the District's goals.

Attached you will find our estimated schedule for the project with an anticipated start date of July 3, 2017. We have also attached the cost proposal that was included with our qualifications submitted to you on March 29, 2017.

Both documents were generated based on our understanding that the District is looking for a study that will evaluate alternatives and determine the feasibility of constructing a secondary force main to convey wastewater from the D.A. Porath Sanitation Facility to the City of Santa Cruz's WWTF. Because the existing force main is over 40 years old, the goal for this project is to provide redundancy and flexibility for times of maintenance and repair.

Quincy and District staff will make critical decisions to complete this feasibility study and pre-design. Some of the key points that will be addressed include the following:

- The best route for the new force main
- A plan for the existing and new facilities to work together
- Efficient use of the District's budget
- A plan for staged construction to maximize affordability of the project

Our feasibility study includes identification and evaluation of alternatives, such as the following:

- Alternative Pipeline Route Alignments
- Railroad ROW Crossings
- San Lorenzo River Crossing
- Connections to the City Vault and/or the City's WWTP
- Project Phasing for Construction

www.quincyeng.com | 3400 Douglas Boulevard, Suite 190 | Roseville, CA 95661 | P: 916.368.9181 | F: 916.368.1308

After the feasibility study, and agreement on the recommended alternatives, we will proceed to prepare preliminary design drawings.

Together, Quincy and the District will make this a successful project, that is delivered on-time and within budget.

If you have any questions or comments, please contact me at your earliest convenience at 916-368-9181.

QUINCY ENGINEERING, INC.

Linda S. Scroggs, PE
Project Manager

Todd Kotey, PE
Design Manager

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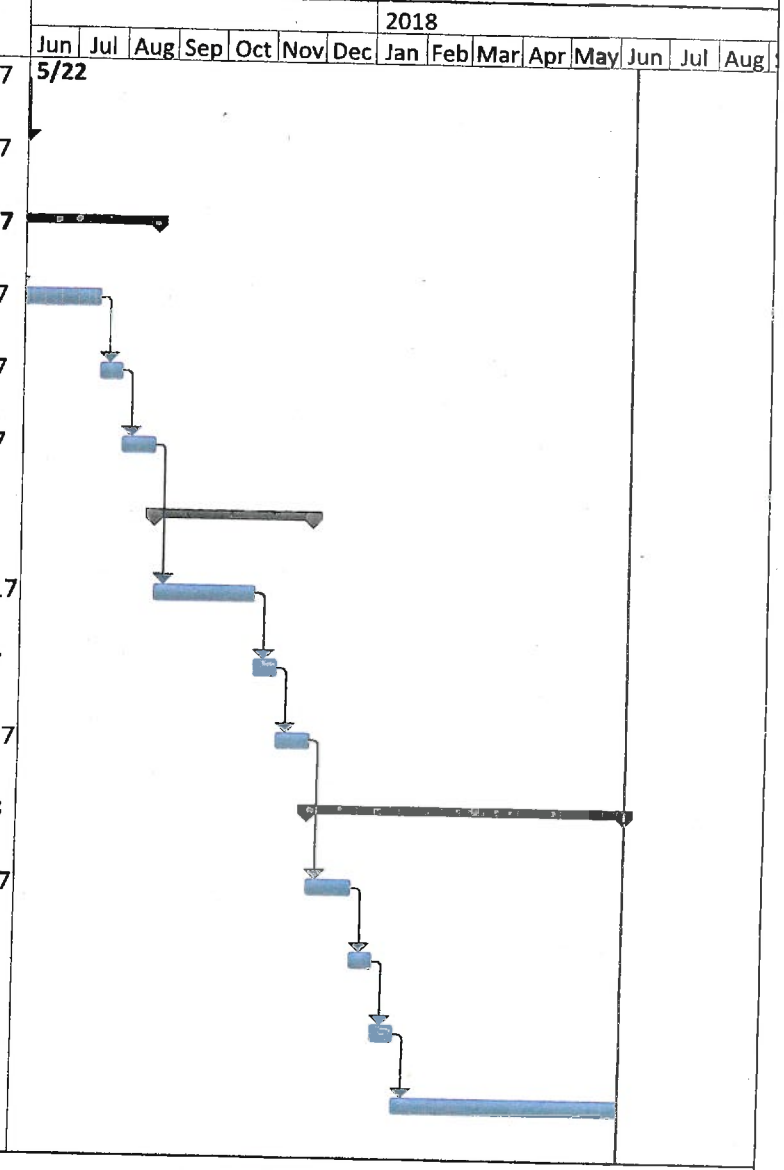
Santa Cruz County Sanitation District
Secondary Sewer Force Main Project

May 2017 (Est. Schedule)

ID	Task Name	Duration	Start	Finish
1	Notice to Proceed	0 days	Mon 5/22/17	Mon 5/22/17
2	Kickoff Meeting	1 day	Mon 5/22/17	Mon 5/22/17
3	**Alternatives Analysis TM**	**65 days**	**Tue 5/23/17**	**Mon 8/21/17**
4	Draft Alternatives Analysis	8 wks	Tue 5/23/17	Mon 7/17/17
5	District Review	2 wks	Tue 7/18/17	Mon 7/31/17
6	Final Alternative Analysis	3 wks	Tue 8/1/17	Mon 8/21/17
7	**Feasibility Study TM**	**70 days**	**Tue 8/22/17**	**Mon 11/27/17**
8	Draft Feasibility Study	9 wks	Tue 8/22/17	Mon 10/23/17
9	District Review	2 wks	Tue 10/24/17	Mon 11/6/17
10	Final Feasibility Study	3 wks	Tue 11/7/17	Mon 11/27/17
11	**Preliminary Design**	**140 days**	**Tue 11/28/17**	**Mon 6/11/18**
12	Draft Preliminary Design Memorandum	4 wks	Tue 11/28/17	Mon 12/25/17
13	District Review	2 wks	Tue 12/26/17	Mon 1/8/18
14	Final Preliminary Design Memorandum	2 wks	Tue 1/9/18	Mon 1/22/18
15	Draft 30% Design Plans	20 wks	Tue 1/23/18	Mon 6/11/18



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Project Name: Santa Cruz County Sanitation District Secondary Sewer Force Main Project Feasibility Study and Preliminary Design Services

Task No.	TASKS	Principal Eng.	Principal Eng.	Senior PM	Senior Eng.	Senior Eng.	Senior Eng.	Senior Eng. Tech	Assistant Engr. I	Environmental Mgr.	Survey Mgr	Survey Tech	PM Asst	Senior Eng.	Quincy Total Hours	Quincy Total Labor Dollars	Quincy Total Labor Dollars	Quincy Labor	Quincy Profit	Quincy NLF Budget	R.E.Y (LIDAR)	Crawford & Associates (Geotech)	Subconsultant Subtotal
	Initial Hourly Rate	TK $91.90	MR $81.00	LSc $68.40	GY $83.80	SJ $53.00	Dcs $50.80	CP $48.80	MH $33.00	RW $83.10	JT $50.80	AD $33.00	ER $32.10	EJ $50.00		Direct Labor	Escalation Multiplier	Labor+OH Multiplier	Profit Multiplier	Actual Labor Multiplier			
																	3.0%	2.728	10%	3.001			
1.0	**Project Management**																						
1.1	Project Management, Coordination, and Oversight	24		40									40		104	$6,226	$6,412	$17,493	$1,749.29	$19,242			
1.2	Kickoff Meeting	8		8											16	$1,282	$1,321	$3,603	$360.33	$3,964			
2.0	**Alternatives Analysis**																						
2.1	Data Collection and Site Investigation	2		8		6	18		16						50	$2,495	$2,570	$7,011	$701.06	$7,712			
2.2	Alternatives Development																						
	2.2.1 Evaluation of Pump Station Upgrades	8		8		4	12	4							36	$2,302	$2,371	$6,467	$646.71	$7,114			
	2.2.2 Reach 1 Alignment Variations			8		8	22	4	8						50	$2,553	$2,629	$7,173	$717.30	$7,890			
	2.2.3 Evaluation of Reach 2 Routes			4		8	22	4	2						40	$2,081	$2,144	$5,846	$584.78	$6,433			
	2.2.4 Evaluation of City's Interconnection Vault	2		4		4	12	4	2						28	$1,543	$1,589	$4,334	$433.45	$4,768			
	2.2.5 Reach 3 River Crossing Alternatives	8		4		4	12	4	4						44	$2,560	$2,637	$7,193	$719.32	$7,913			
	2.2.6 Reach 3 River to WWTF Routes	2		4		4	12	4	4					8	30	$1,609	$1,657	$4,520	$451.99	$4,972			
2.3	Alternatives Analysis Tech Memo																						
	2.3.1 Draft Alternatives Analysis Tech Memo		4	16	8	12	12	12	16	8			4		92	$4,927	$5,075	$13,844	$1,384.35	$15,228			
	2.3.2 Draft Alternatives Review Meeting			8			8								16	$954	$982	$2,679	$267.95	$2,947			
	2.3.3 Final Alternatives Analysis Tech Memo		2	8		4	12	8	8	2			4		48	$2,442	$2,515	$6,862	$686.22	$7,548			
3.0	**Final Feasibility Study**																						
3.1	Pump Station Analysis	8		8		6	18	12	8						60	$3,368	$3,469	$9,464	$946.35	$10,410			
3.2	Rail Trestle (No As-builts) Recommendation*	2		4	16	2	2	12	6						44	$2,467	$2,541	$6,933	$693.30	$7,626			
3.3	Geotechnical Subsurface Exploration	4		2		2	2								10	$713	$735	$2,004	$200.40	$2,204		$36,873	$36,873
3.4	San Lorenzo River Crossing	8		4	16	2	2	12	6						50	$3,019	$3,109	$8,482	$848.23	$9,331			
3.5	Feasibility Report																						
	3.5.1 Draft Feasibility Report		4	12		6	18	16	12	8			4		78	$4,065	$4,187	$11,421	$1,142.09	$12,563			
	3.5.2 Draft Feasibility Study Review Meeting	8					8								16	$1,142	$1,176	$3,208	$320.77	$3,528			
	3.5.3 Final Feasibility Report		2	8		4	8	8	8				4		42	$2,113	$2,176	$5,937	$593.66	$6,530			
4.0	**Preliminary Design**																						
4.1	Preliminary Design Memorandum	6	2	16		14	40		20	20					118	$6,512	$6,708	$18,298	$1,829.82	$20,128			
4.2	Preliminary (30%) Design																						
	4.2.1 Topographic Survey (Ground LiDAR and Field)										32	225			257	$9,189	$9,464	$25,819	$2,581.91	$28,401	$65,457		$65,457
	4.2.2 Utility Coordination			16		6	18		40						80	$3,650	$3,760	$10,257	$1,025.70	$11,283			
	4.2.3 Preliminary (30%) Plans	12	2	16	8	4	10	300	150						502	$23,180	$23,876	$65,133	$6,513.32	$71,647			
	4.2.4 Preliminary Plan Review Meeting	6		6		2	4								18	$1,272	$1,310	$3,575	$357.47	$3,932			
	4.2.5 Preliminary Design Revision	4		6		3	9	20	40						82	$3,692	$3,803	$10,374	$1,037.39	$11,411			
	Subtotal- Hours	112	16	218	48	165	281	424	350	36	32	225	56	8	1911								0
	Other Direct Costs																						0
	Total Cost	$10,293	$1,296	$14,911	$3,053	$5,628	$14,275	$20,691	$11,550	$2,272	$1,629	$7,560	$1,798	$400	$95,356	$95,355	$98,215	$267,932	$26,793	$294,725	$65,457	$36,873	$102,330

Note: Invoices will be based upon actual QEI hourly rates plus overhead at 172.8% plus prorated portion of fixed fee. Subconsultant and Direct Costs will be billed at actual cost.

*3.2	Rail Trestle (with As-builts) Structural Analysis	8		4	28	4	12	8							64	$4,004	$4,124	$11,251	$1,125.06	$12,376			

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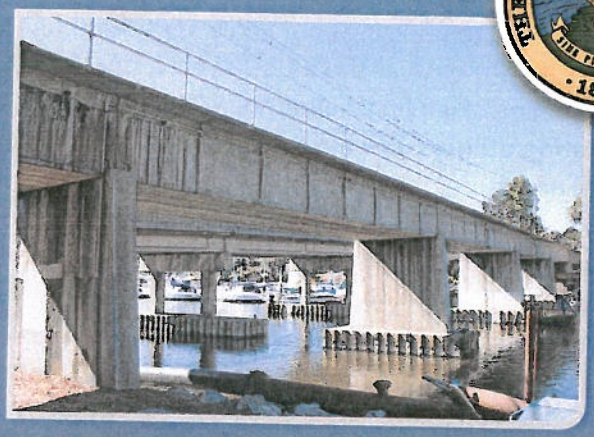

Qualifications for

Feasibility Study and Preliminary Civil Design Services for a Secondary Force Main from the D.A. Porath Sanitation Facility to the City of Santa Cruz's Wastewater Treatment Plant

March 29, 2017

QUINCY ENGINEERING

developing YOUR vision | delivering YOUR project

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March 29, 2017

Mr. Kent Edler, P.E.
Santa Cruz County Sanitation District
701 Ocean Street, Room 410
Santa Cruz, CA 95060

QUINCY ENGINEERING

Re: Qualifications for a Feasibility Study and Preliminary Civil Design Services for a Secondary Force Main from the D.A. Porath Sanitation Facility to the City of Santa Cruz's Wastewater Treatment Plan

Dear Mr. Edler and Review Panelists:

We, at Quincy, understand the District's need to evaluate and then construct a secondary force main to provide redundancy for the aging existing force main. The existing force main is the only way to deliver wastewater from the D.A. Porath Sanitation Facility (pump station) to the City of Santa Cruz Wastewater Treatment Facility. You want assurances that if there is an emergency blockage or break in the existing pipeline, a secondary force main is available for service. You also want assurances that your project can be completed within budget, and you want a team who will help you maximize your initial investment.

Why Quincy? The Quincy team is committed to realizing your goals of developing the best solution for a redundant system, and we are qualified to do so. Over the past 30 years, our key pipeline engineers have designed **over 1 million linear feet of pipeline** of varying diameters. We understand the challenges of construction in **areas of unknown existing utilities**. We have designed and constructed pipeline though **residential, commercial, and industrial areas**.

- **A team you know and trust to deliver**. Our team brings leadership, commitment, and responsiveness. You have become familiar with Linda Scroggs, Todd Kotey, and Davina Carboni while working on the Murray Street Bridge Force Main. We will build on working relationships with your staff to facilitate the decisions we face for selecting the best alternatives. When you work with Quincy, you work with professionals who enjoy what we do. We consider ourselves an extension of your staff both in the office and in the field.
- **Solid ideas that will maximize the funding of the project as it is constructed.** In our approach, we have developed several cost saving ideas. These ideas are based on our team's experience planning, designing, and providing construction support and inspection of pipelines throughout Northern California.

Our water and wastewater experts are prepared to serve the District in accomplishing the **Secondary Force Main Project** and are ready and available to start on your project upon notice to proceed. Quincy has a full complement of in-house skilled professionals to provide alternatives analyses, feasibility and planning; topographic survey; bridge analyses and structural design; preliminary and final pipeline design; and project management. In addition, our Quincy professionals are augmented with experienced subconsultant firms: Crawford and Associates (Geotechnical) and R.E.Y. Engineers (LiDAR).

We are eager to continue working with District staff and look forward to assisting you with this important project. We will continue to be responsive to your needs, dedicated to the District's goals, and provide timely delivery of each and every task.

Please contact our Project Manager, Linda Scroggs, at (916) 368-9181 or lindas@quincyeng.com.

QUINCY ENGINEERING, INC.

Linda Scroggs, PE
Project Manager, Planning

Todd Kotey, PE
Project Manager, Design

Mark Reno, PE
Principal-in-Charge

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Appendix

A. Resumes
B. Project Plan
Fixed Fee and Fee Schedule

FIRM'S QUALIFICATIONS

Organizational Overview

Role	Project Management, Alternatives Analyses, Feasibility Study and Preliminary Design

Quincy Engineering, Inc. (Quincy) is a multi-disciplined consulting engineering firm specializing in water/wastewater planning, analysis, and design; transportation infrastructure design; surveying; environmental permitting and compliance; and construction management and inspection. A California corporation founded 25 years ago as a transportation specialty firm, we have a staff of 85 employees with four offices in Northern California (Roseville, Rancho Cordova, Walnut Creek, and Pleasanton) and in Salem, Oregon. Our consulting services have expanded to include water/wastewater, surveying, and environmental expertise.

Quincy's water professionals consist of a team of conveyance specialists who focus on delivering reliability for the present and capacity for the future. This applies to all parts of the system, be it the pipelines, pump stations, wells, or storage facilities along the route. Our professionals are experienced in all aspects of planning, pre-design, final design, construction management, and start-up services. We design and construct new systems and rehabilitate aging infrastructure. We serve a wide range of water and wastewater clients, but most of our experience has been performing work for public works projects, including local agencies, special districts, and municipalities.

Project Team Management and Team Members

We have assembled a core team of individuals who have broad experience backgrounds that align with the District's goals for this project. Our Team's **Planning Manager, Linda Scroggs, will serve as the day-to-day contact person for the District** throughout the project. She has a long history of successful projects within Northern California for the planning and design of public works projects. Linda has planned, designed, and provided design oversight on over 319,968 miles of pipeline, which have included layout, utility and survey coordination, bridge crossings, bore & jack under creeks and interstates, hydraulic analyses, and pump station designs and upgrades. District staff are familiar with Linda's project management approach as implemented in the District's Murray Street Bridge Force Main Project.

Todd Kotey will serve as the **Design Manager**. His experience in delivering pipeline planning, design, and construction projects includes over 975,855 linear feet of pipelines. Of particular relevance to the District's project is his experience with analysis and design of pump stations, calculations for the design of the pipe, structural design for pipe supports (especially for aerial crossings), and directional drilling/microtunneling of large diameter pipelines. Todd has been a key participant in assisting the District with the Murray Street Bridge Force Main Project. His vast construction management experience provides practical knowledge to our team of designers.

Information on our team's structure is illustrated in the organizational chart. Brief descriptions of our key team members, their role for this project, and a short summary of their specific expertise for this project is included after the organizational chart. For the District's further review, resumes of key staff, as well as key team support staff, are included in Appendix A.

SUBCONSULTANTS

To supplement our team, we have included geotechnical services and additional specialty surveying (LiDAR).

Role ***Geotechnical***

Crawford & Associates, Inc. (CAInc) was founded out of the desire to provide creative solutions and responsive service to our clients and to provide growth opportunities for their employees. The principals of the firm bring significant experience in Geotechnical Engineering, Design and Construction Services on a multitude of projects, including: water and wastewater facilities, pipelines, tanks and pump stations, parks, trails, transportation, bridges, schools, hospitals, residential, and commercial projects. CAInc has experience working with various oversight agencies including Cities, Caltrans, Building Departments, Counties, Regional Water Quality Control Board, Army Corps, DSA, UPRR, CA Fish and Wildlife, Irrigation Districts, Utilities, Environmental Health, and DWR.

In 2016, CAInc purchased ***Taber Consultants***. Taber Consultants, founded in 1954 as part of Moore & Taber, was an organization of foundation engineers and engineering geologists that offered consulting services to clients who require information, evaluation, and recommendations regarding earth materials and subsurface/geologic conditions for project planning and engineering.

Ben Crawford will serve as CAInc's Principal-in-Charge and will work closely with the team to deliver responsive service, realistic recommendations, and economic solutions for your projects. Ben is the founder and President of Crawford & Associates and has over 15 years of experience with complex water, wastewater, and recycled water projects throughout Northern California, including the Emerald Trunk Relief Project, Stanislaus Regional Water Authority Water Treatment Project, and City of Modesto Diversion Structure. Prior to founding CAInc, Ben spent 10 years with Blackburn Consulting.

CAInc provides services in Geotechnical Engineering, Construction Management, Inspection, Materials Testing, Hazardous Materials Assessments, Expert Witness, and Drafting and Renderings. The firm maintains five offices in Northern California, with locations in Sacramento, Modesto, Pleasanton, Rocklin, and Ukiah to meet the demands of their clients.

Role ***Ground LiDAR***

R.E.Y. Engineers, Inc. (R.E.Y.), a certified State of California and Federal Small Business Enterprise (SBE), is pleased to offer their services to the Santa Cruz County Sanitation District. Established in 1985, R.E.Y. has been providing quality survey and civil engineering services throughout the greater Sacramento area for over 30 years. Headquartered in Folsom, R.E.Y. provides a wide variety of surveying and engineering solutions for projects in all phases, from planning and feasibility studies to construction and as-built documentation. Their staff of professional surveyors, engineers, and technical support staff serve a wide range of private-sector and public agency clients. Their survey services include:

- Topographic Surveys & Mapping

- Boundary Research and Analysis
- Right-of-Way Engineering
- Construction Staking
- Plat and Legal Descriptions
- Terrestrial & Mobile LiDAR
- UAV/UAS Surveys
- Horizontal and Vertical Control
- Utility and As-built Surveys

R.E.Y. firmly believes that when their clients win through successful projects, they also win. The key is providing value through hard work, discipline and respect. These standards for excellence show in every aspect of their work and are driven by their principles of quality, attention to detail, and professional service.

They currently have on-call survey services contracts with multiple local public agencies including the County of Sacramento, City of Sacramento, County of El Dorado, City of Placerville, and City of Folsom. Their State of California on-call survey services contracts include the Department of Water Resources, Caltrans Districts 1, 2, 3, 4 and 10, and California State Parks.

RELEVANT EXPERIENCE

We have selected relevant projects to highlight our firm's experience and the experience of our team members in performing work similar to the District's Secondary Force Main Project. The projects selected and their relevance to this project are as follows:

- Murray Street Bridge Force Main Project for the Santa Cruz County Sanitation District
  The full scope of the analysis is less than the Secondary Force Main; however, it is the same force main and client.
- Olson Avenue Bridge Pipeline Project for the City of Reedley
  Although this is a gravity sewer pipeline, it is a detailed analysis and evaluation of alternatives for crossing a river.
- Hinkle Creek Sewer Maintenance Project for the City of Folsom
  This project is a gravity sewer, but a full evaluation, analysis of alternatives, recommended best apparent alternative, and preliminary design.
- Midwestern Placer Regional Sewer Project for the City of Lincoln
  This is a force main project of similar diameter pipeline and nearly double the length. Planning included alternative analyses, environmental coordination, and creek crossings.
- NID Regional Water Supply Project for Nevada Irrigation District and the City of Lincoln
  Although this is a raw water pipeline, it was an extensive corridor study for a pressure pipeline of similar diameter with alternatives analyses, phasing, and preliminary design. (Please note that this project was completed by key team members prior to joining the Quincy firm.)

Additional information is included on **Project Sheets** that follow the summary of brief descriptions. The Project Sheets include a list of the key team members and a client contact person/reference with phone number. As you review the Project Sheets, note that the core team of engineers listed on the highlighted projects are the same engineers assigned to your Secondary Force Main Project.

Murray Street Bridge Force Main Project; Santa Cruz County Sanitation District

Dates: January 2016 to April 2016

Brief Project Description	Project Features
The proposed widening and retrofit of the Murray Street bridge proposed new piles driven near the District's 30-inch sewer force main beneath the Santa Cruz Harbor. The District was concerned that pile driving operations and proposed repairs to the existing force main would ultimately impair the integrity of the pipeline. Quincy wastewater engineers completed a feasibility study for realigning the existing 40-year old force main and mounting the force main on or beside the bridge.	▪ Feasibility Study ▪ 36-inch Diameter Force Main ▪ Alternatives Evaluation ▪ Project Planning ▪ Structural Design ▪ Construction Cost Estimating ▪ Microtunneling Analysis & Memo ▪ Coordination with Multiple Stakeholders ▪ Assistance with Funding Documentation

Olson Avenue Bridge Pipeline Project; City of Reedley

Dates: June 2016 to September 2016

Brief Project Description	Project Features
The City's existing pipeline is a 21-inch diameter gravity sewer pipeline installed in 1980 on the Olson Avenue Bridge. In December 2015, an emergency repair was required of the pipeline just upstream of the bridge. Per the City's Wastewater Master Plan, the ultimate buildout size of the pipe is 42-inch diameter. Because of the vulnerability of this critical pipeline, the feasibility of a parallel, redundant pipeline on the bridge was evaluated.	▪ Alternatives Analysis ▪ Feasibility Study ▪ Redundant Secondary Sewer Pipeline ▪ Microtunneling Analysis ▪ Structural Analysis of Bridge ▪ Structural Analysis of Pipe Supports ▪ Construction Cost Estimating ▪ Assessment of Environmental Permits/Requirements

Hinkle Creek Sewer Maintenance Project Alternatives Evaluation; City of Folsom

Dates: November 2016 to March 2017

Brief Project Description	Project Features
Evaluation of alternatives for repairing 1,160 linear feet of existing gravity sewer. Segments of the pipeline were within the City easements in residential backyards. Remaining segments were located within a nature center area owned and maintained by the City. The location of the sewer was difficult to access with maintenance equipment. Economic and non-economic advantages and disadvantages of each alternative were evaluated and recommendations for repair or replacement were provided.	▪ Alternatives Analysis ▪ Evaluation Matrix ▪ Construction Cost Estimating ▪ Technical Writing ▪ Collaboration with Client on Selection of Alternatives ▪ Preliminary Plan and Profile Sheets ▪ Creek Crossing Alternatives ▪ Mitigation Reports

Midwestern Placer Regional Sewer Project; City of Lincoln

Design Services Dates: April 2012 to July 2013 *(Work performed by team prior to joining Quincy)*
Construction Management Services Dates: February 2014 to August 2016

Brief Project Description	Project Features
Planning, design, and construction of 13 miles of 22-inch-diameter to 28-inch-diameter HDPE sewer force main pipeline and 2.3 miles of 12-inch-diameter to 16-inch-diameter PVC reclaimed water pipeline. Appurtenances included four pigging stations, an energy dissipation structure, a biofilter for odor control, two HDD operations, one jack and bore operation, a reclaimed water irrigation control facility, and turnouts.	▪ Sewer Force Main ▪ Route Alternative Analyses ▪ Pre-Design, Design, Inspection ▪ Creek Crossings ▪ Energy Dissipation ▪ Odor Control ▪ Environmental Coordination ▪ Public Outreach

NID Regional Water Supply Project - Planning and Predesign; Nevada Irrigation District and City of Lincoln

Dates: June 2009 to February 2011 *(Work performed by team prior to joining Quincy)*

Brief Project Description	Project Features
Nevada Irrigation District and the City of Lincoln teamed to have a study prepared to analyze the feasibility of delivering raw water approximately 19 miles from the Combie Ophir I Canal in Auburn to the proposed water treatment plant at the City. A detailed corridor evaluation and preliminary design was prepared for 104,196 linear feet of 24-through 66-inch pressure pipe. The pipeline alignment was broken into seven (7) reaches. Each alternative alignment was individually evaluated and scored through a matrix evaluation process. The recommended alternatives were incorporated into a proposed project description for use in the draft environmental impact report. The project inlcuded pipeline, reservoirs, hydroelectric facilities, and a water treatment plant.	▪ Technical Analysis and Report ▪ Corridor Evaluation ▪ Alternatives Analysis ▪ Planning Study ▪ Preliminary Design ▪ Pressure Pipeline ▪ Pressure Reducing Station ▪ Water Treatment Plant ▪ Hydro-Electric Facilities ▪ Creek Crossings ▪ Draft EIR ▪ Geotechnical Evaluations ▪ Public Presentations

Santa Cruz County Sanitation District-Murray Street Bridge Force Main Project, Santa Cruz, CA

The City of Santa Cruz is in the design phase of the Murray Street Bridge Widening and Seismic Retrofit Project in Santa Cruz Harbor. The Santa Cruz County Sanitation District (District) owns and operates a 36/30-inch force main beneath the Santa Cruz Harbor, parallel to the Murray Street Bridge. The proposed bridge widening and retrofit proposes new piles driven near the District's force main. The District is concerned that pile driving operations and proposed repairs and modifications to the existing force main would ultimately impair the integrity of the pipeline. Quincy wastewater engineers completed a *feasibility study* for realigning the existing 40-year old force main and mounting the force main on or beside the bridge.

The project included a *feasibility study, preliminary construction cost estimates, microtunneling cost analysis*, and assistance in the preparation of funding application submittals to Caltrans.

Features of this project include:

- Wastewater Transmission Force Main
- Project Planning and Scheduling
- Engineering Design and Drafting
- Structural Design
- Construction Cost Estimating
- Coordination with Public Works Departments, City, County, and District

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Quincy Staff and Role

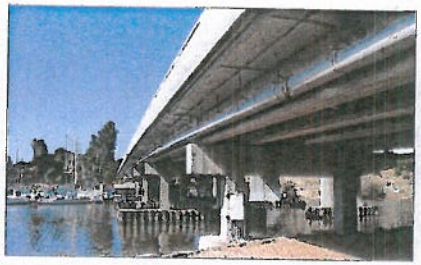
Todd Kotey - *Principal-in-Charge*
Linda Scroggs - *Project Manager*
Davina (Gonzalez) Carboni - *Project Engineer*
Craig Polglase - *Senior Engineering Technician*
EJ Belding - *Constructability Specialist*
Erin Ritz - *Project Management Assistant*

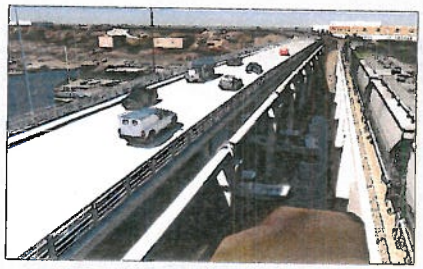
Date Completed

Draft Feasibility Study: March 2016
Final Feasibility Study: April 2016

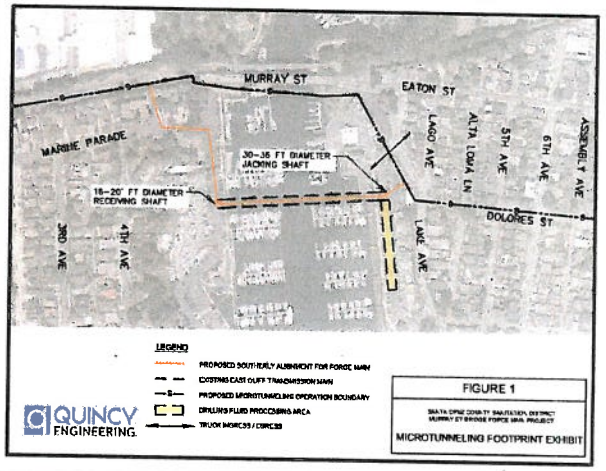
Reference

Santa Cruz County Sanitation District
Julie Watson, Project Manager; (831) 454-2160; julie.watson@santacruzcounty.us

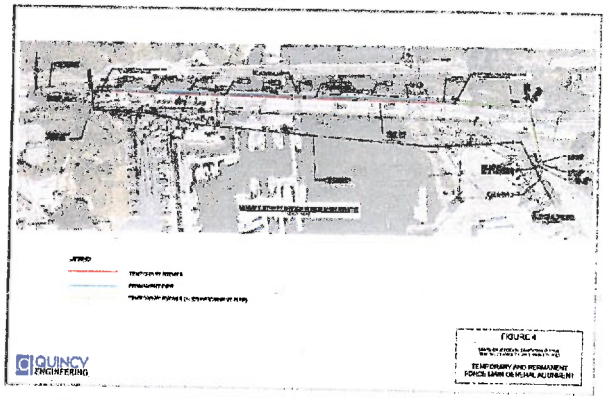




Force Main on Bridge Rendering



Microtunneling Footprint Exhibit



Olson Avenue Bridge Pipeline Project, City of Reedley, CA

Quincy engineers provided *a feasibility study and structural analysis* for upgrading approximately 400-ft of the City's gravity sewer line attached to the Olson Avenue Bridge for the City of Reedley Public Works Department. The existing pipeline is a 21-inch diameter pipeline installed in 1980 and the City wanted to upgrade to a 42-inch diameter equivalent capacity pipeline, per the City's Wastewater Master Plan.

The City was concerned about the vulnerability of this critical pipeline and requested that the Quincy team include in the evaluation the feasibility of a parallel, *redundant pipeline* on the bridge. This would allow the City to divert all wastewater flows to the new pipeline so that upgrades could be made to the aging, existing 21-inch pipeline. Also included in the evaluation was an *alternative to cross the river via microtunneling*.

The project included alternatives development, pipe material selection, analysis of the existing bridge structure, pipe support, constructability issues, environmental sensitivities, and a preliminary engineer's opinion of probable costs.

The similar features of this project to those of the proposed Santa Cruz County Sanitation District RFQ:

- Alternatives Analysis and Feasibility Study
- Analysis of a Redundant, Secondary Sewer Pipeline
- Microtunneling Analysis
- Structural Analysis of Existing Bridge Structures
- Construction Cost Estimating
- Environmental Assessments

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Quincy Staff and Role

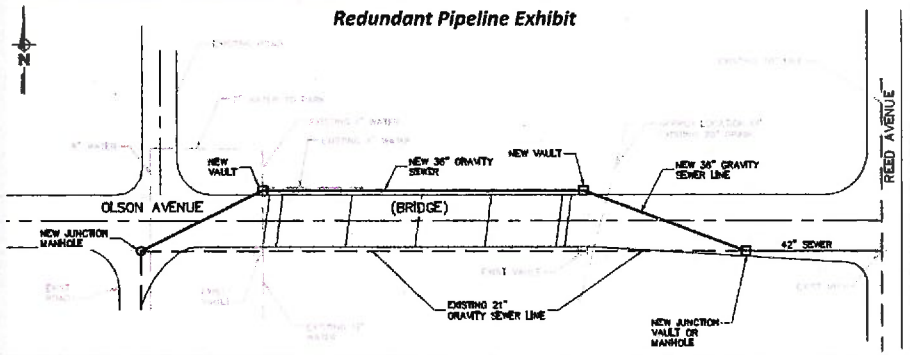
Todd Kotey - *Principal-in-Charge*
Linda Scroggs - *Project Manager*
Davina (Gonzalez) Carboni - *Project Engineer (WW)*
Greg Young - *Project Engineer (Bridge)*
Ray Weiss - *Environmental*

Date Completed

Alternatives Analysis/Feasibility Study: September 2016

Reference

City of Reedley
John Robertson, City Engineer; (559) 637-4200; john.robertson@reedley.ca.gov



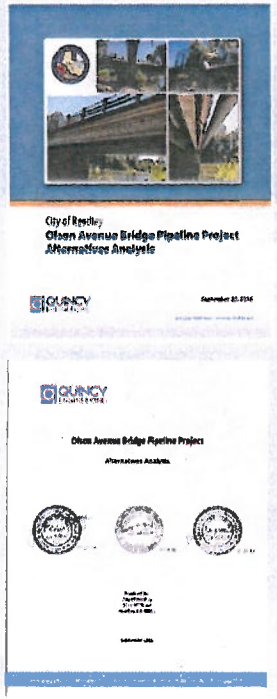
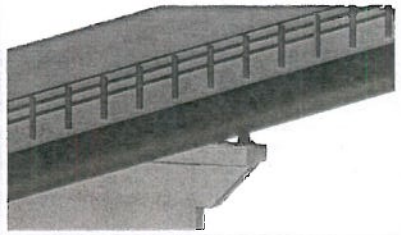


Table 2. Summary Comparison of Alternatives

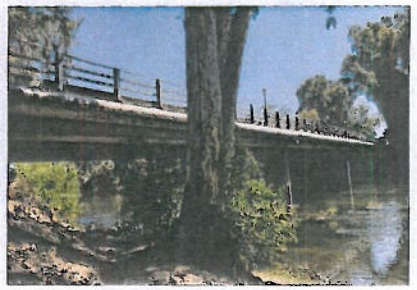
Alternatives	Construction Costs	Constructability, short-term factors	O&M and long-term factors	Potential Environmental Permits
5A – Existing Cantilever System with 42-inch pipe	Evaluated and determined to be infeasible			
5B – Existing Cantilever System with 36-inch pipe				
5 – New Cantilever System with 42-inch pipe				
4 – Underground Support Structure				
4 – Steel Piledive system (St. 12-in.) and new 36-inch pipe on trench fill)				
3 – Pressure Pipe System				
6 – Microtunneling				

Based on the evaluation of required pipeline capacity, appropriate pipeline materials, methods of crossing the bridge, and description of the alternatives, three most feasible alternatives to consider for this project were identified.

Alternatives Analysis Page 37 of 38 September 2016



Rendering of New Cantilever Support and Pipeline on Bridge



Hinkle Creek Sewer Maintenance Project Alternatives Evaluation, City of Folsom, CA

Quincy wastewater engineers provided preliminary design services for the evaluation of various alternatives for repairing approximately 1,160 linear feet of existing gravity sewer. Options included replacing the existing sewer with new 8-inch PVC pipeline by open trench methods or pipe bursting, or repair of the pipeline by lining. Segments of the existing pipeline were within City easements in residential backyards. Remaining segments were located within a nature center area owned and maintained by the City for educational and recreation purposes, such as hiking and self-guided walks. The existing sewer was in a state of disrepair creating uncontrolled sanitary sewer overflows. The location of the sewer was difficult to access with appropriate maintenance equipment, i.e. a vactor truck. The Project was highly sensitive to the public and neighborhood residents, as the existing sewer was located within a heavily wooded nature center, and removing the trees for sewer repairs or for creating access was highly undesirable.

The *alternatives were assessed* for both economic and non-economic advantages and disadvantages. Work included site visits, coordination with the City, developing an *evaluation matrix*, developing construction costs, and producing a technical memorandum documenting the evaluation process and providing recommended alternatives for repair or replacement. Along with the engineering evaluation, an environmental/biological resources subconsultant surveyed the area and provided a tree survey and mitigation report. The results of that work were considered in the overall evaluation and recommended alternative.

Features of this project include:

- Alternatives Analysis
- Matrix Evaluation
- Project Planning and Scheduling
- Preliminary Design
- Construction Cost Estimating
- Construction Administration

Quincy Staff and Role

Todd Kotey - *Principal-in-Charge*
Linda Scroggs - *QA/QC*
Shawn (Labanowski) Jobes - *Project Manager*
Davina Carboni - *Project Engineer*
Michelle Lewis - *Associate Engineer*
Mitra Hooshangi - *Assistant Engineer*
Erin Ritz - *Project Management Assistant*

Date Completed

Alternatives Evaluation: March 2017

Reference

City of Folsom
Marcus Yasutake, Environmental and Water Resources Director; (916) 351-3528; myasutake@folsom.ca.us

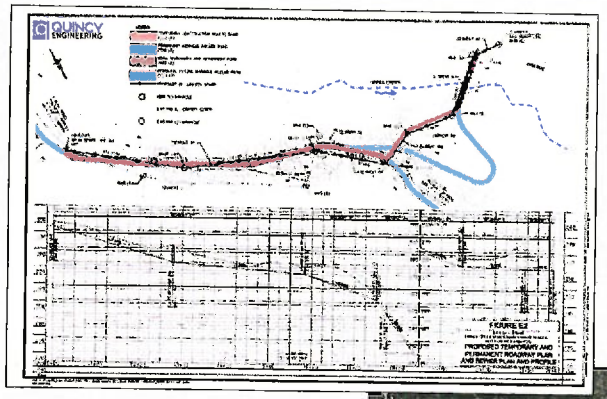
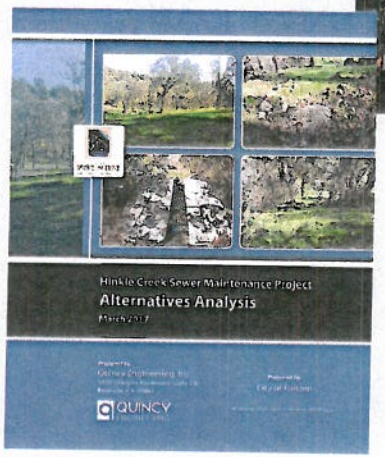
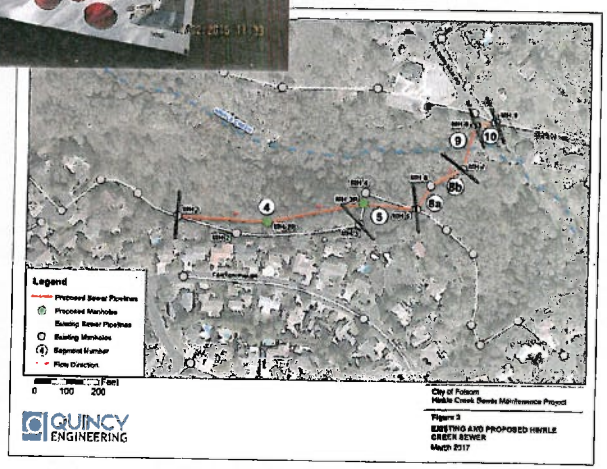


Table 4. Segment 4 Comparison of Alternatives

Criteria	Subcriteria	1A Lining Rank	1A Lining Score	1B Pipe Bursting Rank	1B Pipe Bursting Score	2 Replace in Place Rank	2 Replace in Place Score	3 Replace and Realign Rank	3 Replace and Realign Score
Operation and Maintenance									
	Performance	1	3.0	1	3.0	3	9.1	4	12.1
	Inspection	1	2.5	4	9.1	4	9.1	4	9.1
	Long-term Accessibility	1	3.0	1	3.0	1	3.0	3	9.1
	Subtotal		8.5		15.2		21.2		30.3
Constructability									
	Geotechnical Constraints	4	8.3	3	6.3	2	4.2	2	4.2
	Temporary Access	3	8.3	2	5.6	1	2.9	3	8.5
	Private Property Constraints	4	5.6	3	2.8	1	1.4	3	4.2
	Subtotal		22.2		14.6		8.5		16.7
Environmental Considerations									
	Impacts to Trees	4	8.3	3	6.3	3	6.3	3	6.3
	Creek Crossing	4	8.3	3	6.3	3	6.3	3	6.3
	Impacts of SSO	1	2.1	1	2.1	3	6.3	4	8.3
	Subtotal		18.8		14.6		18.8		20.8
Community Impacts									
	Temporary Construction Impacts	3	3.1	2	2.1	1	1.0	1	1.0
	Private Property Impacts	3	3.1	2	2.1	1	1.0	2	3.1
	Potential for Opposition	4	8.3	1	2.1	1	2.1	1	2.1
	Subtotal		14.5		6.3		4.2		6.3
	Total		63.9		50.6		52.5		74.1





Midwestern Placer Regional Sewer Project, City of Lincoln, CA

The Midwestern Placer Regional Sewer Project was designed for the expansion and regionalization of the City of Lincoln's Wastewater Treatment and Reclamation Facility. The project's purpose was to consolidate wastewater treatment for Placer County's Sewer Maintenance District No. 1 (SMD 1) and City of Lincoln to capitalize on economies of scale, facilitate compliance with water quality regulations, and reduce water quality impacts on foothill streams.

The project included *planning, design, and construction* of 13 miles of 22-inch-diameter to 28-inch-diameter high-density polyethylene force main pipeline *within roadways and across private properties*; approximately 2.3 miles of 12-inch-diameter to 16-inch-diameter PVC reclaimed water pipeline; and all appurtenances. Additionally, the project included four pigging stations, an energy dissipation structure, a biofilter for odor control, two *horizontal directional drilling* operations, one jack and bore operation, a reclaimed water irrigation control facility, piping, and turnouts.

Additionally, Quincy engineers represented the City of Lincoln for the construction of the regional pipeline project, providing resident engineer and inspection services. The overall project was *funded by Clean Water State Revolving Fund*. Compliance with the Davis Bacon Act was a requirement of the funding source. Quincy engineers also provided labor compliance services and documentation.

The similar features of this project to those of the proposed Santa Cruz County Sanitation District RFQ:

- Alternatives Analysis and Feasibility Study
- Force Main Design and Construction
- Horizontal Directional Drilling
- Joint Project with the City and County
- Capitalizing on Economies of Scale by Joint Projects for Multiple Stakeholders

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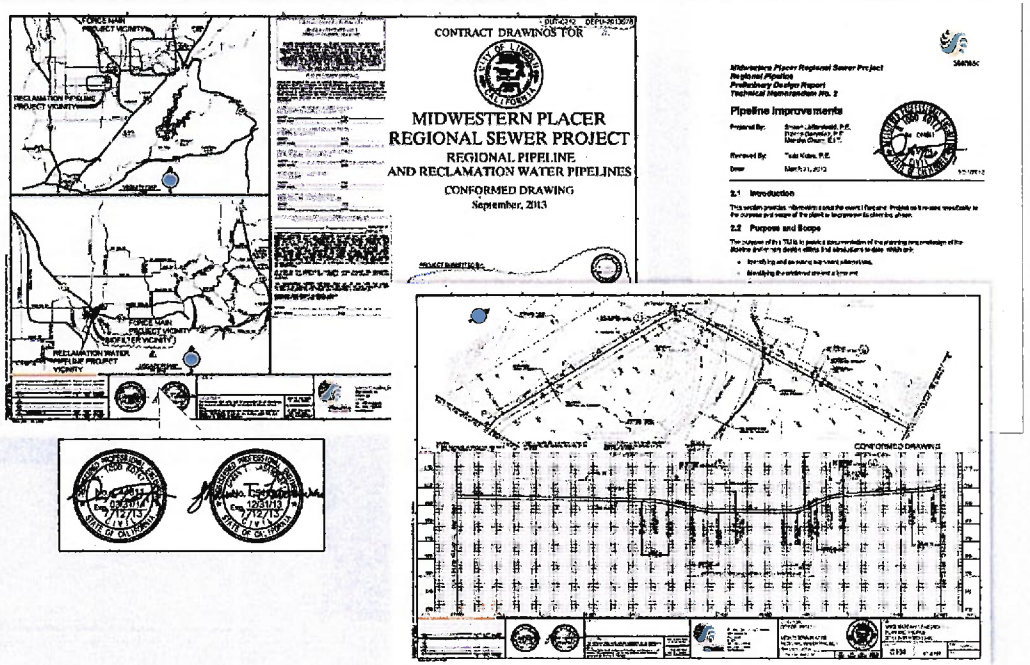

Quincy Staff and Role

Todd Kotey - *Pipeline Project Manager/Resident Engineer (RE)*
Shawn (Labanowski) Jobes - *Pipeline Project Engineer and Assistant RE*
Davina (Gonzalez) Carboni - *Pipeline Project Engineer and Assistant RE*
EJ Belding - *Constructability / Blasting Specialist*
Craig Polglase - *Pipeline Designer*
Erin Ritz - *Project Management Assistant*

Date Completed

Planning and Design: 2010 - 2013 (as Stantec)
Construction Management: 2014 - 2016 (as Quincy Engineering)

Reference

Spencer Short, Former Mayor of the City of Lincoln;
(916) 295-8203; spencer@spencershort.com

28-inch HDPE Force Main Installation

Horizontal Directional Drilling under a Creek

NID Regional Water Supply Project, Placer County and Nevada County, CA

Nevada Irrigation District and the City of Lincoln teamed together to study the concept of bringing treated water to the City of Lincoln. The project was comprised of a large diameter transimission pipeline, as well as reservoirs, hydroelectric facilities, a water treatment plant, and more. The pipeline study included a detailed corridor evaluation and pre-design of 104,196 linear feet of 24-through 66-inch pressure pipe to convey raw water from the Combie Ophir I Canal in Auburn to the proposed WTP and then potable water conveyed to City of Lincoln's distribution system. The pipeline was broken into seven (7) reaches. Each alternative alignment was individually evaluated and scored through a matrix evaluation process. The *recommended alternatives* were incorporated into a proposed project description for use in the draft environmental impact report.

Work on this study began in 2005 and ended February 2011. The engineers listed below were involved in many of the proposed project components.

All project documents for this Project can be found at http://nidregionalwatersupply.org/documents.php

The similar features of this project to those of proposed Santa Cruz County Sanitation District RFQ:

- Planning and Predesign Documents
- Large Diameter Pressure Pipeline
- Creek Crossings
- Hydraulic Analysis
- Pipe Material Selection
- Evironmental Constraints through Draft EIR
- Geotechnical Consideration
- Phased Segments for Analysis and Construction Cost Savings
- Public Presentations

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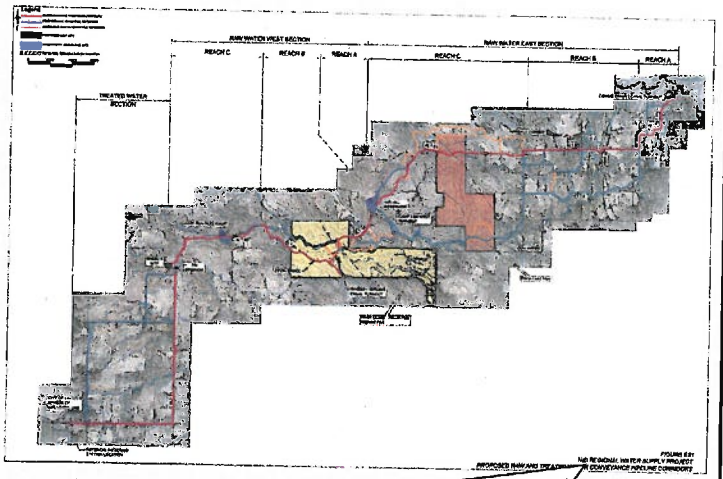
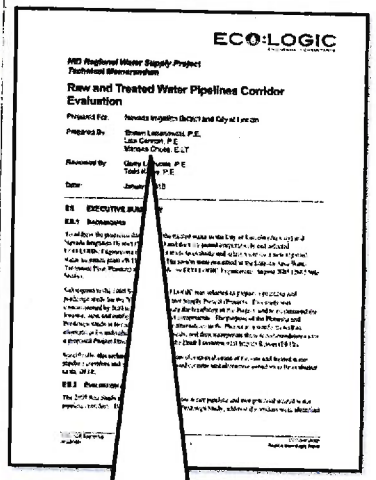
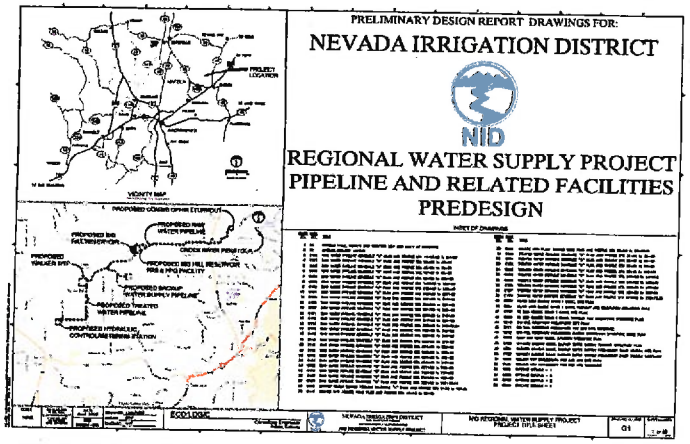


FIGURE ES1
NID REGIONAL WATER SUPPLY PROJECT
PROPOSED RAW AND TREATED WATER CONVEYANCE PIPELINE CORRIDORS





Prepared By: Shawn Labanowski, P.
Lisa Cannon, P.E.
Mariska Chuse, E.I.T

Reviewed By: Gerry LaBudde, P.E.
Todd Kotey, P.E.

Current Quincy Staff and Role

Todd Kotey - *Pipeline Task Manager*
Frank Bradham - *City of Lincoln's Project Manager & Outside Consultant*
Shawn (Labanowski) Jobes - *Project Engineer*
Craig Polglase - *Senior Designer*

Date Completed

Corridor Evaluation: January 2010
Preliminary Design Services: February 2011

Reference

Gary King, Engineering Manager; Nevada Irrigation District
(530) 273-6185 ext. 260; king@nidwater.com

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Firm's Record on Controlling Costs, Quality of Work, and Established Schedules

Based on our experience, we know how to assign the appropriate staff and complete each task successfully. *In addition, Quincy has successfully worked with Santa Cruz County on a variety of bridge, roadway, retaining wall design projects, and recently a wastewater project.* We understand that our clients are under financial constraints to deliver their much-needed infrastructure. Therefore, we manage schedule and budget expectations; we manage our client's financial exposure; we manage delivery processes, and this helps to mitigate any external delay factors. This is one of our core beliefs; and our reputation speaks for itself as nearly 100% of our clients are repeat clients. We manage schedule challenges and budgets as we manage most everything – we communicate early and often and we stay the course with communications. This starts with the development of a **critical path schedule**. Each deliverable has a detailed task breakdown as well as reviews incorporated into the schedule so that each responsible party knows when their part is needed. *We will adhere to the schedule and budget; we will deliver!*

The following are examples of cost and schedule information from similar projects performed by the Water/Wastewater Team at Quincy.

Project Name	Olson Avenue Bridge Sewer Pipeline Project	Hinkle Creek Sewer Maintenance Project, Alternatives Evaluation	Midwestern Placer Regional Sewer Project	Well No. 2
Client	City of Reedley	City of Folsom	City of Lincoln	City of Lincoln
Project Cost Estimate *(Engineering Fee)*	$38,400	$49,400	$1,704,339	$303,090
Actual Project Cost *(Engineering Fee)*	$35,891	$49,367	$2,422,871	$287,237
Original Project Schedule	3 Months July 2016 - September 2016	3 Months November 2016 - January 2017	23 Months February 2014 - December 2015	9 Months April 2015 - December 2015
Actual Completion Time of Project	3 Months July 2016 - September 2016	4.25 Months November 2016 - March 2017	31 months February 2014 - August 2016	10 months April 2015 - January 2016
Reasons for Deviations:	On Budget/On Schedule	In February, the City requested a subconsultant to collect additional tree survey data and mitigation reporting for a permanent access road within the project area. The information was incorporated into the alternatives analysis technical memorandum. This prolonged the schedule. The Quincy fee was not increased.	The environmental permitting stipulations prohibited the contractor from constructing two major creek crossings during the winter months, which delayed construction. The delays were construction contract/environmental permitting related and not within the control of our resident engineering team.	The design and the construction was complete by December 2015, as scheduled. Some contract change orders and contract closeout items were finalized in January.

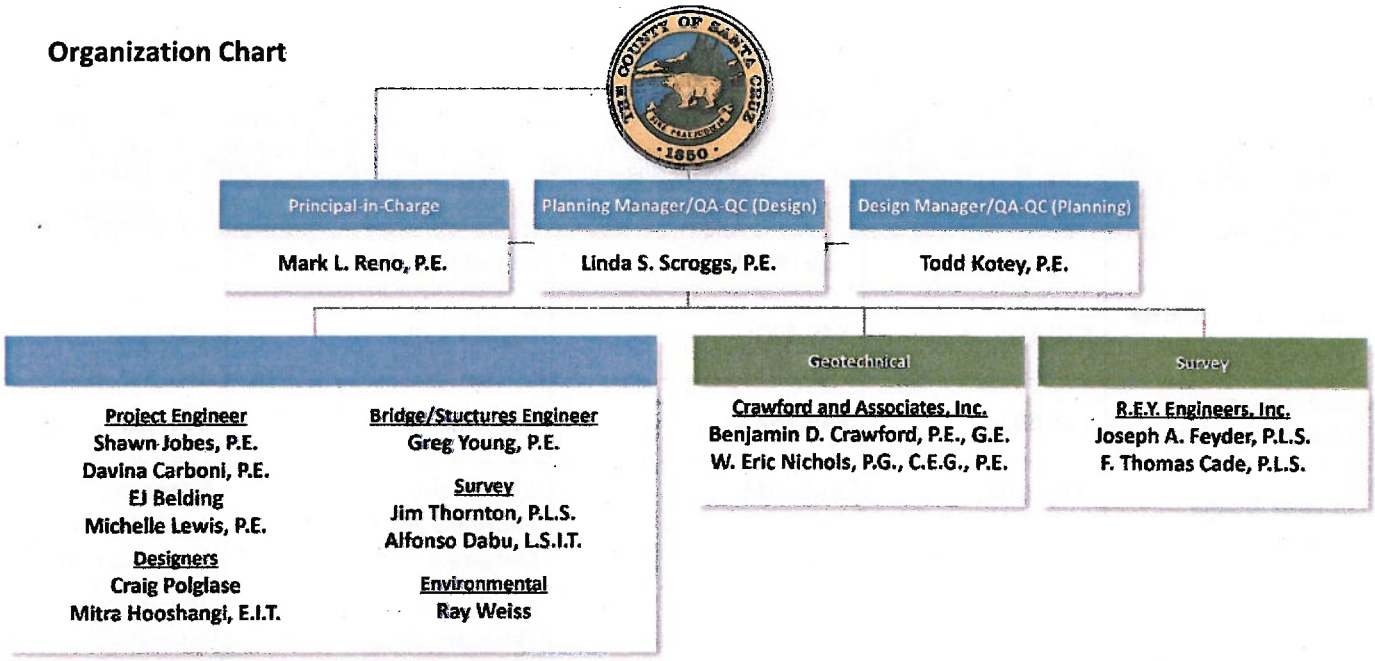
TEAM QUALIFICATIONS

Project Team Management and Team Members

We have assembled a core team of individuals with a broad experience background that aligns with the County's goals for this project. Our Team's **Planning Manager, Linda Scroggs, will serve as the day-to-day contact person for the County**. She has a long history of work within Northern California for a variety of public works projects. District staff are familiar with Linda's project management approach as implemented in the Murray Street Bridge Force Main Project.

Our team's organizational and reporting structure is illustrated in the organizational chart presented below. Following the org chart are brief descriptions of our key team members that highlight their accomplishments and provide a summary of their overall capabilities. For the District's further review, resumes for each team member are included in Appendix A.

Organization Chart



Key Team Members. Our proposed key team members will be the individuals performing the work. They are highly qualified specialists with backgrounds in structural and civil engineering, specifically as it relates to project management, feasibility studies, alternative analyses, large diameter pipeline design, bridge design, pump station design, topographic survey, environmental permitting and compliance, geotechnical investigations, and construction management and inspection. Our core team of water experts is comprised of seasoned design engineers who gained their experience under the supervision of major water/wastewater specialty firms. As those firms were acquired and became exceedingly large, our team members have found a new home at Quincy, where providing personal and quality customer service to quality clients is our number one objective. The water/wastewater services performed by the Quincy firm may be only 4 years old, but core team members have worked together for up to 22 years.

Our approach to any project is to assign the best people to the job and always have a fresh pair of eyes for peer review (QA/QC). With this goal, we will split our efforts into planning (Alternatives Analyses and Feasibility Study) and Preliminary Design. Linda Scroggs will take the lead for planning with Todd Kotey as peer review. For the Preliminary Design, Todd will take the lead and Linda will perform the peer

review. Throughout the project, Linda will serve as the overall Project Manager for administrative purposes.

Linda Scroggs, P.E. will serve as Quincy's **Project Manager and Planning Manager** for the Secondary Force Main project and the District's single point of day-to-day contact. She will take the team lead for the planning efforts (Alternatives Analysis and Feasibility Study) and she will perform QA/QC oversight for the Preliminary Design portion of the project. She has a lengthy resume of planning and designing wastewater infrastructure. With over 30 years of experience, she has been responsible for the management of numerous public works projects throughout Northern California. The projects have included multiple planning documents with alternative analyses and cost estimating for water and wastewater pipeline projects and pumping facilities. *Linda served as the Project Manager for the District's Murray Street Bridge Force Main Project* and is familiar with District staff.

Length of Service with Firm: 3 years

Todd Kotey, P.E. is a senior water/wastewater project manager and a Quincy Principal. He will serve as the **Design Manager** providing technical oversight to our team of designers. Todd will provide peer review during the planning and alternatives analysis phase of work. During his 30 years in the profession, Todd has designed over 804,959 linear feet of large diameter pipeline, and will provide his expertise gained from performing construction management and inspection on many of the same projects. He is Quincy's lead structural designer for water/wastewater projects, especially as needed for pipeline design, support, bridge crossings, and directional drilling or microtunneling. *Todd provided his pipeline design and structural expertise to the District's Murray Street Bridge Force Main Project.*

Length of Service with Firm: 4 years

Mark Reno, P.E. will serve as your **Principal-in-Charge**. He has authority to negotiate and execute a contract on behalf of our firm and can ensure that all resources required for your projects will be applied. Mark has performed many transportation projects for Santa Cruz County and is very familiar with the County's Public Works staff. We have reviewed the District's Standard Contract and find no objections to its terms and conditions.

Length of Service with Firm: 16 years

Leading the alternatives analyses and pipeline preliminary design tasks will be the **Project Engineer, Davina Gonzalez Carboni, P.E.**, who was *instrumental in preparation of the Murray Street Bridge Force Main Project (Feasibility Study)*. She is very familiar with the District's goals for this project and has visited the pump station and walked several of the proposed alternative alignment routes. Davina has performed alternative analyses and feasibility studies, as well as pipeline design services which have included construction oversight and field inspection.

Length of Service with Firm: 3 years

Shawn Brown Jobes, P.E. has an extensive resume of large diameter pipeline design and alternative alignment studies. Shawn will assist in the feasibility study and serve as lead for the preparation of the technical design of the pipeline. As a Project Engineer, Shawn has performed the planning and design of 718,300 linear feet of large diameter pipeline, most of which were

in collaboration with Todd Kotey at previous firms. She was the author of the NID Regional Water Supply Feasibility Study, which was a several-year process and very well received by the client.

Length of Service with Firm: 3 years

EJ Belding is the **Constructability Expert** for our team. He has been a contractor for over 45 years, and he provides expertise in specialized construction projects such as directional drilling and microtunneling for installation of pipelines under rivers. *EJ provided his technical input and cost estimating for the microtunneling technical memo provided to the District for the Murray Street Bridge Force Main Project.*

Length of Service with Firm: 3 years

For structural analysis of the existing rail trestles and evaluation of bridges to cross the San Lorenzo River, **Greg Young** will be the team's **Lead Bridge Designer** and will perform **Structural Analyses.** He has served as a Project Manager or Project Engineer on a variety of California transportation projects. Greg's experience is unique because he has spent approximately 25% of his time in the field. As a result, he approaches every design with constructability as one of the primary considerations.

Length of Service with Firm: 18 years

With 28 years of experience, **Craig Polglase** will serve as our **Lead Pipeline Designer.** He will lead the preparation of the pipeline preliminary design drawings (plan and profile sheets, pipeline details). Craig is experienced at design level CAD drafting specializing in project layout and design production for water and wastewater treatment facilities, pipeline, bridge, roadway, civil site projects and structure plans. He is an expert with the use of CAD programs utilizing AutoCAD Civil 3D, and Microstation software. Craig is 1 of only 23 people in the State of California to hold a Certified Professional designation for AutoCAD Civil 3D 2014.

Length of Service with Firm: 4 years

Jim Thornton P.L.S. will lead the topographic survey and existing utility identification effort. He has 13 years of multi-disciplined experience and has completed an extensive array of surveying projects throughout California for both public and private entities. As a **Survey Manager**, Jim will provide oversight and quality assurance/quality control of all survey efforts. Jim has a proven track record in managing scope, budget and deadlines for multiple projects performed simultaneously while maintaining consistent and accurate deliverables.

Length of Service with Firm: 1 year

With over 20 years of experience, **Ray Weiss** will perform the review of force main alternatives and will be the team's **Environmental Specialist** to identify environmental considerations. Ray specializes in project delivery strategies under NEPA and CEQA for federal, state, and local projects. He has served as Project Manager/Task Lead for major transportation infrastructure projects throughout California. Ray has extensive experience in community outreach projects having participated in numerous workshops, charrettes, and surveys. He excels at presenting highly technical material in understandable terms at public hearings and in written documents for the public. In addition, Ray is fluent in Spanish.

Length of Service with Firm: 3 years

Ben Crawford, P.E., G.E. is the Founder and President of Crawford & Associates, Inc. He has managed complex projects throughout Northern California, including geotechnical recommendations for water and wastewater structures and pipelines. He will serve as Principal-in-Charge of geotechnical services.

Length of Service with Firm: 4.5 years

Eric Nichols P.G., C.E.G., P.E. has participated in geological and foundation engineering studies for over 27 years. Eric has a diversity of experience and has served as Project Manager for projects throughout California, including bridges, hydraulic projects, levees, and pile observation projects. *Eric performed geotechnical services for the City of Santa Cruz as a subconsultant to TRC on the Murray Street Bridge project.*

Length of Service with Firm: 1.5 years

Joseph (Joe) Feyder, P.L.S. has 36 years of comprehensive experience in all aspects of professional land surveying. His expertise includes LiDAR, aerial mapping, control surveys, and topographical mapping and right of way engineering.

Length of Service with Firm: 8 years

Thomas (Tom) Cade, P.L.S. has 35 years of experience in the delivery of survey services for public infrastructure projects. He provides QA/QC project oversight and review for all control surveys, geodetic positioning, right of way engineering products, Record of Surveys, topographic mapping and construction surveying.

Length of Service with Firm: 11 years

Key Staff Member Project Commitment Chart and Availability

Key Team Member	Current Projects + Tasks		% Available	
	Project/Completion Date	*% of Time Allocated*	*2017*	*2018*
Mark Reno, P.E. Principal-in-Charge	River Grove Bridge Rehabilitation/2017	10%	50%	80%
	Bridge Street Bridge/2018	10%		
	San Joaquin River Bridge/2018	10%		
	Merced County Various Bridge Projects/2017	20%		
Linda Scroggs, P.E. Planning Manager/QA-QC	Palm Springs Aerial Tram WWTF/2018	5%	70%	85%
	Plymouth Well/2017	5%		
	Cities of Pleasanton and Brentwood On-Call/2017	10%		
	Various Projects, QA/QC/2018	10%		
Todd Kotey, P.E. Design Manager/ QA-QC	Eagle River WWTF Phase 2 Construction Support/2018	5%	75%	85%
	Combie Phase 1 Pipeline Design/2018	5%		
	City of Folsom On-Call Services/2017	10%		
	Sac Suburban Water District On-Call T-Main Design/2018	5%		
Davina Carboni, P.E. Project Engineer	City of Folsom Zoo Sewer & Misc. Water Projects/2017	10%	75%	80%
	City of Folsom Doubletree Ct. Storm Drain Realignment/2017	10%		
	Folsom Tank Inspection/Program Manager/2019	5%		

Shawn Jobes, P.E. Project Engineer	Sac Suburban Water District On-Call T-Main Design/2018	10%	65%	80%
	Combie Phase 1 Pipeline Design/2018	10%		
	Hinkle Creek Sewer Design/2018	10%		
	Eagle River WWTF Phase 2 Construction Support/2018	5%		
Greg Young, P.E. Bridge/Structures Engineer	Yolo County Road 29 Bridge Replacement/2018	10%	60%	70%
	Pismo Beach Bello Street Bridge Replacement/2018	5%		
	Arroyo Grande Bridge Street Bridge Rehab/2019	5%		
	Other Projects	20%		
Craig Polglase Senior Designer	Combie Phase 1 Pipeline Design/2018	10%	50%	80%
	HBP Bridge Project No. 1/2018	10%		
	HBP Bridge Project No. 2/2018	10%		
	Various Transportation Projects/2017	20%		
Jim Thornton, P.L.S. Survey Manager	Dublin Kaiser Cancer Center/2017	15%	30%	40%
	Lake County 4 Bridges/2017	20%		
	Mariposa County 3 Bridges/2017	25%		
	Combie Road Right of Way/2017	10%		
Ray Weiss Environmental Manager	City of Sacramento Two Rivers Multi-Use Trail/2018	15%	50%	60%
	Winship Avenue Bridge Replacement/2018	10%		
	Town of San Anselmo - Multiple Bridge Projects/2017	20%		
	Robinson Creek Bridge Project/2018	5%		
Crawford and Associates, Inc.				
Benjamin D. Crawford, P.E., G.E. Principal-in-Charge	Yosemite Road Pavement Rehabilitation/2017	5%	60%	70%
	Airport Way Pavement Rehabilitation and Widening/2017	15%		
	Crabtree Road Bridge Replacement/2018	10%		
	Woodward Island Bridge at Middle River Ferry/2018	10%		
Eric Nichols, P.E., P.G., C.E.G. Senior Project Manager	Soda Creek Road at Soda Creek Bridge Replacement/2017	5%	65%	75%
	Bartlett Springs Road Bridge over Bartlett Creek/2017	10%		
	Cassel Fall River Road at Pit River Bridge/2017	5%		
	Other Projects	15%		
R.E.Y. Engineers, Inc.				
Joe Feyder, P.L.S. Survey Manager	Nevada Mobile LiDAR On-Call/2019	20%	35%	45%
	Iowa DOT Mobile LiDAR On-Call/2020	20%		
	CA Dept. of Parks & Rec On-Call Surveys/2017	15%		
	Other Projects	10%		
Tom Cade, P.L.S. Project Surveyor	Caltrans On-Call Survey Services/2017	15%	55%	65%
	Nevada Mobile LiDAR On-Call/2019	10%		
	Iowa DOT Mobile LiDAR On-Call/2020	10%		
	Other Projects	10%		

Appendix

QUINCY ENGINEERING

Appendix A

Resumes

Linda S. Scroggs, P.E.

Planning Manager/QA-QC for Design

Education

M.S./Civil Engineering/California State University, Sacramento/1986

B.A./Geography, International Agriculture Development/University of California, Davis/1974

Registrations

Professional Civil Engineer CA #49691; OR #91396

For 31 years, Linda Scroggs has been responsible for the planning and design of both potable water and wastewater facilities. Her experience covers a wide range of projects including water distribution, transmission, and storage systems design, as well as wastewater collection and treatment facilities.

Linda has served as a project manager and project engineer for water for public agencies throughout Northern California. Water system improvements have included the planning and design of distribution systems, booster pump stations, storage tanks, transmission pipelines, and production wells. Her engineering expertise includes master planning; conceptual design; plans, specifications, and estimates; and construction support services for public works infrastructure projects.

Murray Street Bridge Force Main Project, Santa Cruz County Sanitation District, Santa Cruz, CA: Lead Project Engineer for the feasibility study to evaluate realigning the District's 40-year-old force main. Primary responsibilities included preparation of the feasibility study, alternatives analysis, and estimate of probable construction cost. Selection of alternatives required close coordination with the District and the bridge design consultant.

Olson Avenue Bridge Sewer Pipeline Project, Reedley, CA: Project Manager for the feasibility study for upgrading approximately 400 feet of the City's gravity sewer line attached to the Olson Avenue bridge. The analysis included alternatives development, pipe material selection, analysis of the existing bridge structure, pipe support, constructability issues, environmental sensitivities, and a preliminary engineer's opinion of probable costs.

Recycled Water Transmission Pipeline, Sacramento Regional County Sanitation District, Sacramento County, CA: Lead Design Engineer for over six miles of 12- to 30-inch transmission pipeline from a 5 MGD water recycling plant to provide water for urban landscape irrigation, golf course irrigation, and non-potable use. Project included boring and jacking under creek crossings, Union Pacific Railroad tracks, roadways, levees, and Interstate 5 with all appropriate permits included and obtained in the pipeline design scope. Pipeline design was integrated with the design of a booster pump station and recycled water storage tank.

Mountain Station Wastewater Treatment Facilities, Palm Springs Aerial Tram, Palm Springs, CA: Project Manager for preparing the Preliminary Engineering Report to meet the requirements of the Colorado River Basin Regional Water Quality Control Board's discharge standards. Additional tasks included preparation of a Technical Inspection Report and Letter of Recommendation demonstrating the proactive next steps for bringing the system into compliance. Alternatives for modifications included pretreatment steps to reduce organic loading and wastewater treatment options to modify or replace existing media filters; evaluation of effluent water quality reports for BOD, TSS, and TN; and FOG interceptor tank analysis and recommendations.

North Bay Aqueduct Water Transmission Mains Relocation, Solano County, CA: Senior design lead for alternatives evaluation and preliminary and detailed design of relocations for two 30-inch- (City of Benicia) and 39-inch- (City of Fairfield) diameter raw water transmission mains that cross beneath the six-lane Interstate 80 freeway. Completed detailed evaluation and

ranking of eight relocation alternatives based upon relative conceptual level construction costs, constructability, and the operation and maintenance requirements of both cities. In addition, design and construction services were completed in coordination with the interchange construction project.

South County Surface Water Supply Project, San Joaquin County, CA
Project Engineer and Peer Review for the design of 37 miles of pipeline ranging in size from 54 to 30 inches in diameter carrying 150 MGD of treated water. Permits were acquired for two Caltrans crossings, a 1,600-feet longitudinal encroachment along Caltrans right of way, 10 UPRR crossings and a BNSF railroad crossing. The project also included two, 45-feet deep microtunneled crossings under the levees of Paradise Cut, a 641-foot-long bridge over the San Joaquin River (with utility support), and 25 bore and jack crossings under railroads, pipes, culverts, roads, and channels.

Leisure Town Road Overcrossing and Interstate 80 Interchange, Vacaville, CA
Utility Coordinator for planning, design, and construction of the Leisure Town Road/I-80 Interchange. Tasks included coordination with the bridge design engineer to incorporate two 24-inch water transmission mains into the design and construction of the new six-lane structure. Included planning for the relocation of all existing utilities.

Nut Tree Road Overcrossing Utility Design, Vacaville, CA
Design/Utility Coordinator for planning, design, and construction of the Nut Tree Road/I-80 Interchange. Responsible for coordination and design of City utilities including water and sewer pipelines included in the design, and construction of the new six-lane structure and frontage road improvements. Coordination with Caltrans for pipeline crossing alternatives was included, and resulted in boring and jacking steel casing under the interstate and installing DIP carrier pipe.

California State Prison Solano Wastewater System Master Plan, California Department of Corrections & Rehabilitation, Vacaville, CA: Project Manager and Peer Reviewer for alternative analyses, cost estimates, and impact mitigation for wastewater collection, treatment, and disposal for the proposed addition of a 1,400 inmate health care facility.

Browns Valley Water Transmission Facilities, Vacaville, CA: Project Manager for the planning, design, and construction support for over seven miles of 12- to 24-inch diameter water transmission facilities.

Water Quality Control Facility Expansion, Manteca, CA: Project Engineer for the planning and design of activated sludge improvements, chemical storage facilities, and septage receiving facilities. Chemical storage facilities included sodium hypochlorite and sodium bisulfite systems for chlorination and dechlorination. Project involved the conversion from gaseous to liquid chemicals to reduce risk and improve safety.

Wastewater Master Plans for:

- City of Brentwood
- City of Grass Valley
- City of Winters
- McClellan Park, County of Sacramento
- Eagle Lake CSD, Lassen County
- Linda County WD, Yuba County
- Yokohl Ranch (Private), Tulare County
- Feather Creek (Private), Yuba County
- California State Prisons:
  - Solano
  - California City
  - Corcoran
  - Salinas Valley

Wastewater Discharge Regulatory Assistance and Monitoring Reports for:

- Bronco Wine Company, Ceres, CA
- Frito-Lay, Bakersfield, CA
- Dairy Farmers of America, Hughson, CA
- Cherokee Freight Lines, Stockton, CA

Todd Kotey, P.E.

Design Manager/QA-QC for Planning

Education
B.S./Civil Engineering/California State University, Sacramento/1985

Registrations
Professional Civil Engineer CA #44811; OR #91388; NV #14250; AK #13086

Todd Kotey has more than 30 years of experience in the analysis, design, and construction management of engineering projects in the fields of transportation, water and wastewater treatment, conveyance, and structural design. He has provided design and construction management support for numerous public works projects. Todd's pipeline experience includes the analysis and design of pump stations, pressure reducing stations, sewer interceptors up to 108 inches in diameter, and potable water pipelines up to 96 inches in diameter.

Todd's structural experience includes the analysis and design of masonry and timber framed buildings, reinforced subterranean concrete structures, concrete and steel reservoirs, and multi-span, pre- and post-tensioned prestressed concrete freeway bridges.

Buckeye Water Transmission Main, Redding, CA: Project Engineer for the design of the $3.5 million project consisting of 4.6 miles of 30-inch-diameter pipeline, of which 950 feet crosses the USBR Keswick Dam. Pipeline crossing has clear spans of up to 55 feet and static pressure to 200 psi. Resident Engineer for the dam crossing portion of the pipeline.

Regional Water Supply Project, Nevada Irrigation District, Nevada County, CA: Lead Project Engineer for the planning and predesign of the NID Regional Water Supply Project. Oversaw the team that identified and evaluated the raw and treated water pipeline corridor alternatives, hydraulic analysis of these alternatives, and preliminary design of the recommended 16.3 mile 18-, 42-, and 48-inch pipeline corridor. Also managed the preliminary design of the structural pipeline, pressure reducing stations, reservoir inlet/outlet structures, and canal turnout structures, as well as pump station analysis, selection of pipe materials and appurtenances, and probable construction cost estimates. Also developed similar preliminary design studies for siting and pre-design of a reservoir, back up water supply, hydroelectric facilities, and a 60-inch diameter pipeline aerial crossing of the Bear River near the Combie Dam.

Murray Street Bridge Force Main Project, Santa Cruz County Sanitation District, Santa Cruz, CA: Project Manager for the feasibility study to evaluate realigning the District's 40-year-old force main, currently buried below the Santa Cruz Harbor, and mounting the force main onto the bridge in conjunction with the current bridge widening and retrofit project. Primary responsibilities included preparation of the feasibility study, alternatives analysis, and estimate of probable construction cost. Selection of alternatives required close coordination with the Sanitation District and the bridge design consultant.

Sewage Lift Stations Improvements and Sewer Rehabilitation, Colfax, CA: Project Manager/Construction Manager for the rehabilitation of the City's collection system. The project included upgrades to four existing lift stations and elimination of two existing lift stations. The improvements to the lift stations included hydraulic evaluation, wet pit replacement, pump replacement, electrical upgrades, and emergency power. The project included a bore and jack operation beneath Interstate 80 consisting of 160 linear feet of 36-inch-diameter, ½-inch thick steel casing for 207 linear feet of 16-inch C905 PVC DR14 sewer main.

Pump Station Improvements, Travis Air Force Base, Fairfield, CA: Structural Design Engineer for a replacement raw sewage pump station. Evaluated the existing pumping structure for concrete and metal corrosion, and structural compliance with new equipment loading and recent seismic code compliance and found the old dry pit could be rehabilitated and converted to a new wet well with submersibles at a 30 percent total project savings. Improvements included concrete coating, concrete and steel beam structural reinforcements, sluice gate replacements, and installation of larger pumps and piping.

SSJID Division 9 Irrigation Enhancement, San Joaquin County, CA: Project Manager/ Construction Manager for the first-of-its-kind pressurized irrigation system project. The project consists of a 19-mile network of 12 to 24-inch pipelines with flexible pressurization, 56-acre-foot water storage basin, pumping station containing seven vertical turbine pumps totaling 1,225 horsepower capable of pumping 23,500 GPM, and 55 solar-powered field telemetry units controlling 76 customer connections. Construction was completed within a 10-month timeframe.

North Virginia Transmission Pipeline, Reno, NV: Project Manager for the design of 6.5 miles of 36-, 30-, and 24-inch transmission pipelines and associated pump station. A 17,000-foot portion of the project includes joint construction with the City of Reno's 24-inch gravity sewer replacement project in Nevada Department of Transportation right of way along North Virginia Street in Reno. This project also included a bore and jacking operation under the Union Pacific Railroad.

Cook Riolo Road at Dry Creek Bridge Replacement, Placer County, CA: Principal-in-Charge for the design, which included the relocation of two pipelines, of a 300-foot, 24-inch reclaimed water line and a 300-foot 16-inch waste water transmission line to accommodate the replacement of the Dry Creek Bridge.

San Juan Cooperative Transmission Pipeline, Sacramento and Placer Counties, CA: Project Engineer/Resident Engineer for design and construction of a $20 million, 8.1-mile, multi-district pipeline project with pipelines ranging in size between 30 and 78 inches in diameter. The pipeline project was a joint effort by five water purveyors to either supplement or increase flow, pressure, and reliability to meet their increasing demands. Project features included modifications to the existing concrete diversion structure, multiple connection points to the wholesale purveyor partners, multiple flow meters complete with a radio SCADA system and multiple access manways and isolation valves.

Northridge Water Conveyance Pipeline - Schedules B through F, Northridge now Sacramento Suburban Water District, Sacramento County, CA: Project Engineer/Resident Engineer for the design and construction of a $8.7 million project with 5.8 miles of pipeline ranging in size between 30 and 48 inches in diameter, including 1,100 feet of bore and jacking operations under I-80, SPTCo railroad tracks, and Cripple Creek (twice). Responsibilities included structural pipeline design, sizing air valves, thrust restraint calculations, design of two pressure reducing stations, cost estimating, preparation of specifications and bid documents, and coordination with water districts, agencies and utilities during design and construction.

Asplund Wastewater Treatment Facility Utilidor Upgrade Project, Anchorage Water and Wastewater Utility, Asplund, AK: Project Manager for the design of upgrades to the Asplund WWTF Utilidor to address issues with groundwater intrusion and increase the structural capacity to accommodate external HS20 traffic loading.

Mark L. Reno, P.E.

Principal-in-Charge

Education
B.S./Civil Engineering/University of California, Davis/1988

Registrations
Professional Civil Engineer CA #47756/1991; NV #15482/2002; OR #74536/2004; UT #9353701-2202/2015

With over 27 years of experience, Mr. Reno has been responsible for the PS&E and construction support of over 65 projects involving more than 130 bridges. These projects included new structures, widenings, upgrades and retrofits. While working at Caltrans, Mark served as Structures Design Branch Chief and supervised a 20-member bridge design team. In addition, he was the Assistant Chairman of Caltrans' Structural Steel Committee, a member of the Caltrans Earthquake Committee, and a member of the Post-Earthquake Investigation Team. Mr. Reno is a nationally recognized bridge engineer and project manager and serves on several national committees and boards. He also has extensive experience and contacts which enable him to effectively manage and deliver successful HBP projects.

Murray Street Bridge Force Main Project, Santa Cruz County Sanitation District, Santa Cruz, CA
Principal in Charge for the feasibility study to evaluate realigning the District's 40-year-old force main, currently buried below the Santa Cruz Harbor, and mounting the force main onto the bridge in conjunction with the current bridge widening and retrofit project. Coordinated with County to provide services for feasibility study as well as assisted County in determination of liability and evaluation of right of way rights. Coordinated with design team as well County and Sanitation District Personnel. Oversaw development of feasibility study, alternative analysis and estimate of probable construction cost.

Paulsen-Whiting Road Bridge Replacement (HBP), Santa Cruz County, CA
Project Manager/Project Engineer responsible for complete PS&E package delivery for this HBP-funded bridge replacement of an existing two-span, railroad car bridge. One of the spans was washed out during the 1998 El Nino storm event. The profile of Paulsen-Whiting Road was also raised to accommodate anticipated flows in the Green Valley Creek. This resulted in fill requirements of up to four meters (13.2 feet) above the existing ground.

River Grove Road Bridge Replacement (HBP), San Luis Obispo County, CA
Project Manager on this bridge replacement project. The project consisted of replacing a steel truss bridge over the Estrella River and included the hydraulic analysis of the creek and surrounding floodplain to determine water surface elevation and geotechnical exploration. Environmental approvals (CEQA/NEPA) were needed for the project as well a new right-of-way acquisition.

Branch Mill Road Bridge Replacement (HBP), San Luis Obispo County, CA
Project Manager responsible design plans, specifications, and estimate for this replacement project which consisted of replacing a two-lane, three span steel truss girder structurally deficient bridge over Tar Spring Creek. The structure had historic scour issues which undermined the existing foundations. The project included the hydraulic analysis of the creek; removal of debris check dam and surrounding floodplain to determine water surface elevation; and geotechnical exploration. The proposed two-lane bridge will be a 105-foot-long, simple-span, precast prestressed concrete, bulb T girder bridge. In order to not impact local traffic through the center of Arroyo Grande, a creative solution of utilizing a temporary bridge was developed to carry large agricultural equipment.

Old Creek Road Bridge (HBP), Ventura County, CA
Project Manager for a low-water crossing replacement near the town of Ojai. The new

structure is a multi-span, cast-in-place, prestressed box girder bridge. Alternatives included replacement on the original alignment and new alternate alignments that eliminated the need of a temporary detour. The original road was the only access point for homes and a commercial winery. The project involved an encroachment permit from Caltrans as the road was realigned with State Route 33 providing a new access point.

Santa Clara River Replacement Project, Ventura County, CA
Structures Project Manager/Project Engineer responsible for this $76 million bridge replacement project of a scour-critical bridge on U.S. 101 in Ventura. Due to the urgency of this project, the design of the replacement structure was done concurrently with the environmental document preparation. This required direct interaction with regulatory agencies to ensure timely environmental approval. This project involved the design, analysis, and staged replacement of a deficient bridge less than 1 km away from a major seismic fault. This bridge was considered the gateway to both the Cities of Oxnard and Buena Ventura, and as such, had to incorporate significant aesthetics. This project also involved the demolition of a connector of SR1 over U.S. 101 in Oxnard. This surgical removal was detailed and presented in the engineering drawings. Mr. Reno's direct involvement with resource agencies, Caltrans, legislative representatives, and affected local agencies lead to the completion of this sensitive project.

Bridge Street Bridge (HBP), City of Arroyo Grande, CA
Project Manager for this historic bridge (built in 1908) replacement project. Replacement of the structure will require closure of the local road in a highly sensitive historic district of downtown Arroyo Grande. Public outreach efforts will include the community, business interests and the historic society. The existing bridge is a steel truss that is both functionally obsolete and structurally deficient. The replacement structure will need to clear span the Arroyo Grande Creek approximately 115 feet. Utility relocations will include a 6-inch gas main.

Ventura River Bridge at Santa Ana Boulevard, Ventura Watershed Protection District, Ventura County, CA
Project Manager on this project to prepare a Seismic Assessment & Feasibility Study in order to determine the most appropriate bridge rehabilitation or replacement alternative. The bridge modifications are a necessary mitigation for the larger Matilija Dam Removal Project which is located upstream from the bridge. Once the dam is removed sediment currently trapped behind the dam will travel downstream causing the river to aggrade. This will reduce the hydraulic capacity of the existing structure and result in the need for a longer taller bridge to pass sediment and flows. Quincy Engineering is currently working on the Final PS&E for this bridge replacement project. The bridge will be 40'-5" wide and will consist of three equal spans for a total length of 350 feet. The new structure will be supported on 4'-9"x7'-0" oblong columns with structural flares. Columns will be founded on 9'-0" diameter shafts.

Manning Avenue Bridge at the Kings River (HBP), City of Reedley, CA
Project Manager responsible for the design and Feasibility Study for multiple bridge rehabilitation/replacement alternatives. The original bridge was comprised of three separate structures separated by longitudinal construction joints. The Feasibility Study analyzed costs associated with various partial and full bridge replacements. Construction for all alternatives was staged to allow for continuous traffic (ADT: +25,000). The preferred alternative was a three-span (132'-176'-132'), cast-in-place, pre-stressed concrete box girder with a parabolic superstructure. Removal of the 10 existing pierwall foundations will greatly improve hydraulic and aesthetic considerations.

Shawn Brown Jobes, P.E.

Project Engineer

Education

B.S./Civil Engineering/California Polytechnic State University, San Luis Obispo/1992

Registrations

Professional Civil Engineer CA #54293

Shawn Brown Jobes has 16 years of experience including feasibility analysis, hydraulic analysis, pipeline design, plan and specification preparation, cost estimating, and construction support for both canal, groundwater recharge, and pipeline projects. The pipelines and peripheral facilities she has designed range in size, length, and purpose, including waste, raw, and potable water. Shawn has designed pipelines up to 78-inch-diameter, including pipelines and appurtenances with pressures as high as 740 psi. Her design experience includes detailed design of steel, concrete cylinder, reinforced concrete, ductile iron, PVC, and HDPE pipe. She has provided construction support including submittal review and onsite inspection to ensure proper installation of project facilities.

Regional Water Supply Project, Nevada Irrigation District, Nevada County, CA: Design Engineer for the planning and predesign of the Project. Identified and evaluated the raw and treated water pipeline corridor alternatives, hydraulic analysis of these alternatives, and preliminary design of the recommended 16.3 mile 18-, 42-, and 48-inch pipeline corridor. Also managed the preliminary design of the structural pipeline, pressure reducing stations, reservoir inlet/outlet structures, and canal turnout structures, as well as pump station analysis, selection of pipe materials and appurtenances, and probable construction cost estimates.

Combie Phase 1 Canal Replacement Project, Nevada Irrigation District (NID), Auburn, CA: Project Engineer for pre-design, design and construction of 9,100 linear feet of a 96-inch diameter low pressure pipeline within the existing footprint of the Combie Phase 1 Canal. Provided constructability review, estimates, and pre-design for an above grade steel pipeline supported with ring girder and concrete pier supports at 20 to 40 foot intervals. Provided engineering services throughout design and construction of the Project

North Virginia Transmission Pipeline, Reno, NV: Project Engineer for design of 6.5 miles of 36-, 30-, and 24-inch high pressure welded steel transmission pipeline and 12-inch ductile iron pipe for the Truckee Meadows Water Authority. The project also included a pump station. A 17,000-foot portion of the project includes joint construction with the City of Reno's 24-inch sewer replacement project in Nevada DOT right of way. The project was constructed as four separate plan and specification sets and bid as four separate projects.

Matterhorn Blvd. Waterline, Washoe County, NV: Project Engineer for the water supply project. The project included approximately four miles of 30-inch-diameter, high pressure transmission pipeline, all appurtenances, and two pressure reducing stations with pipeline and valves ranging in size from 3-inch-diameter to 16-inch-diameter.

San Juan Water District, Cooperative Transmission Pipeline - Sacramento County and Placer Counties, CA: Assistant Project Engineer for the design and construction of a $20 million, 8.1-mile, multi-district pipeline project with pipelines ranging in size between 30 and 78 inches in diameter.

North San Joaquin Water Conservation District South System, Stockton, CA: Peer Review for the design of a new pump station and the rehabilitation of approximately 3,200 linear feet of existing 42-inch CIP pipeline in the Sacramento River. The project included peer review of the pump station design, plans, specifications, and cost estimates for the project.

Davina Carboni, P.E., QSP/D

Project Engineer

Education
B.S./Environmental Engineering/California Polytechnic State University, San Luis Obispo/2004

Registrations
Professional Civil Engineer CA #74888

Ms. Gonzalez has 12 years of experience specializing in environmental infrastructure design and compliance for multi-disciplinary projects in California. Project experience includes sewer, water and storm drain infrastructure design, technical analyses, master planning, Environmental Impact Reports, cost estimates, bid documents, quality assurance/quality control, and engineering services during construction. Her pipeline design experience includes detailed design of gravity and high pressure distribution systems. Her master planning experience includes hydrology and hydraulic analyses, floodplain studies, and feasibility studies.

Murray St. Bridge Force Main Project, Santa Cruz, CA: Project Engineer on this Feasibility study for realigning the County Sanitation District's 40-year old force main, currently buried below the Santa Cruz Harbor, and mounting the force main onto the bridge in conjunction with the current bridge widening and retrofit project. Primary responsibilities include preparation of feasibility study, alternatives analysis, and estimate of probable construction cost.

Mid-Western Regional Sewer Pipeline & Reclamation Pipelines, Auburn, CA: Project Engineer for environmental services and detailed design of approximately 13 miles of 18-inch to 28-inch diameter HDPE force main sewer pipeline, valves, four pigging stations, an energy dissipation structure, a biofilter, and a reclaimed water irrigation control/metering station, piping, and turnouts. Duties included designing combined air release/vacuum valve and odor control components of the pipeline, preparing construction documents. Served as liaison between environmental and design teams to reduce confusion and liability where many sensitive resources could be mitigated or avoided during design.

Hawver Road Bridge Improvements, Calaveras County, CA: Hydrology/Hydraulics Engineer performing analysis of the 73-square-mile watershed. Involved design of a bridge replacement over the North Fork of the Calaveras River Performed hydrologic and hydraulic analysis and assisted in bridge selection to minimize backwater impacts on residences upstream. The hydraulic model included a scour analysis to estimate scour depths for the proposed bridge.

Olson Avenue Bridge Sewer Pipeline Project, City of Reedley, CA: Project Engineer for the feasibility study for upgrading approximately 400 feet of the City's gravity sewer line attached to the Olson Avenue bridge from a 21-inch diameter pipeline to 42-inch diameter equivalent capacity pipeline. The analysis included alternatives development, pipe material selection, analysis of the existing bridge structure, constructability issues, environmental sensitivities, and preliminary engineer's opinion of probable costs.

Hinkle Creek Sewer Alternatives Evaluation, City of Folsom, Folsom, CA: Project Engineer for evaluating various alternatives for repairing approximately 1160 lf of existing gravity sewer and recommending the most appropriate solution to either repair or replace it segment by segment. The alternatives were assessed for both economic and non-economic advantages and disadvantages. Work included developing a matrix evaluation, construction costs, and producing a technical memo documenting the evaluation and providing recommended alternatives for repair or replacement.

EJ Belding

Project Engineer

Education
B.S./Civil Engineering/Colorado School of Mines/1968

Registrations
CA Contractor License No. 277905, A, B, and Hazardous

EJ serves as a key member and special consultant to Quincy's water/wastewater team as a retired engineer, military special operations agent, and contractor. A graduate of the prestigious Colorado School of Mines, EJ brings both his academic knowledge and over 50 years of hands-on field experience to our team for constructability and geotechnical expertise. In addition to his work on Quincy projects, he is the president of EJ Belding & Associates. His company has been in business since 1972 performing heavy construction contracting.

Murray Street Bridge Force Main Project, Santa Cruz County Sanitation District, Santa Cruz, CA: Construction Specialist for the District's force main feasibility study. Primary responsibilities included consulting the team on the logistics of installing a new pipeline beneath the Santa Cruz Harbor. His experience on similar trenchless installations beneath large water ways, assisted the team in estimating the feasibility, the footprint, and cost of this type of crossing.

Midwestern Placer Regional Sewer Pipelines, City of Lincoln, Placer County, CA: Construction specialist for the design of 13 miles of 22-inch-diameter to 28-inch-diameter HDPE sewer force main within roadways and across private properties. Consulted the resident engineer on issues related to blasting, as well as managing the contractor's progress and schedule.

Fish Springs Ranch Water Supply, Vidler Water Company, Reno, NV: Construction specialist for the planning, design, and construction management for the 39-mile water supply project. Consulted the team in review of blasting plans and protecting a high-pressure gas main that paralleled portions of the Project's 28 miles of high pressure (up to 900 psi) 30 inch C200 transmission main, storage tanks, and appurtenances.

Other Civil Engineering and Construction Projects:

- Barge Canal and Sacramento River Crossing, Sacramento County Regional Sewer District, Sacramento, CA
- Titan II Missile Complex., US Air Force - Department of Defense, Deer Trail, Colorado
- NORAD underground facilities, US Air Force, Colorado Springs, Colorado
- American River Oxbow Dam Project, Placer County, California
- Interstate 80, Bridges, Caltrans – District 3, Cisco Grove, California
- Tunnel Construction, Union Pacific Railroad, Carlin, Nevada
- Mass Rock Quarry, Department of Defense, DaNang
- SOG South East China, Department of Defense, China
- Interstate 5 Construction, Caltrans Bridge Department, Newhall, California
- Water Treatment Facilities Construction, Nevada Irrigation District, Grass Valley, California
- Runway Storm Drain, US Navy Air Station, Lamar, Colorado
- Auburn Dam Foundation Construction, Department of Interior, Auburn, California
- Water Treatment Plant Construction, Mammoth Lakes, California
- Bypass Interstate 80, Nevada DOT, Humboldt, Nevada
- Copper Mining Quarry Operation, Battle Mountain, Nevada
- Wastewater Treatment Modifications, Clark County, Nevada

Michelle Lewis, P.E.

Project Engineer

Education
B.S./Civil Engineering/California State University, Sacramento/1993

Registrations
Professional Civil Engineer/#56703/CA/1997

Michelle has a multidisciplinary background in planning analysis, design, and construction oversight of water resource projects in Northern California. Her experience includes feasibility analysis, design, and permitting of projects. She has taken lead responsibility for the required extensive coordination for the projects. This coordination has included communication with local reclamation districts, maintaining ongoing coordination with federal and state regulatory agencies, and providing technical support to the CALFED Bay-Delta Program. She has conducted workshops and hearings to coordinate public participation for these projects. Michelle's design experience includes preparing preliminary design calculations, cost estimates, work plans and design specifications for various flood control projects. Her experience also includes construction support for monitoring regulatory and contract compliance.

Murray Street Bridge Force Main Project, Santa Cruz County Sanitation District, Santa Cruz, CA: Project Engineer for the feasibility study for realigning the District's 40-year-old force main, currently buried below the Santa Cruz Harbor, and mounting the force main onto the bridge in conjunction with the current bridge widening and retrofit project. Primary responsibilities included preparation of feasibility study, alternatives analysis, and estimate of probable construction cost.

Hinkle Creek Sewer Alternatives Evaluation, Folsom, CA: Project Engineer for evaluating various alternatives for repairing approximately 1,160 lf of existing gravity sewer and recommending the most appropriate solution to either repair or replace it segment by segment. The alternatives were assessed for both economic and non-economic advantages and disadvantages. Work included developing a matrix evaluation, developing construction costs, and producing a technical memorandum documenting the evaluation and providing recommended alternatives for repair or replacement.

American River Watershed Project, Greater Sacramento Area, CA: Project Engineer for evaluating various alternatives for improving the flood control capacity within the American River Watershed. Alternatives considered included improvements to the Folsom Dam, construction of additional storage facilities, and improving levees along the Sacramento River, American River, and their tributaries. Levee improvements included slurry wall installation to control seepage, raising levee heights to assure adequate freeboard, and levee setbacks to address slope stability and erosion. Folsom dam improvements included optimizing flood control operation as well as structural modifications to the dam. he completed staff report evaluated the alternatives based on cost, environmental impacts, and project benefits. Numerous workshops, hearings, and presentations were conducted to properly address public input and concerns.

Sherman Island Overland Water Supply Facility, Sherman Island, CA: Project Engineer for a water supply facility to improve water quality to 1,000 acres of agricultural land on Sherman Island. The purpose of the project was to assure compliance with the contractual water quality requirements with the North Delta Water Agency. The project involved review of the field conditions to determine the appropriate facility size, specify requirements for siphon repair work, ditch cleaning, and pipe and pump placement. The completed Initial Study recommended mitigation measures for the project.

Donald "Craig" Polglase

Senior Designer

Education

Architecture Coursework, American River College, Sacramento

Certification

Autodesk Certified Professional: AutoCAD Civil 3D 2014

With 30 years of experience, Craig Polglase specializes in developing and implementing efficiency techniques and procedures to achieve on time delivery regardless of time constraints or project complexities. Mr. Polglase is experienced at design level CAD drafting, specializing in project layout and design production for water and wastewater treatment facilities, pipeline, bridge, roadway, civil site projects, and structure plans. He is an expert with the use of CAD programs utilizing AutoCAD Civil 3D, Microstation, and 3D modeling Software.

Murray Street Bridge Force Main Project, Santa Cruz County Sanitation District, Santa Cruz, CA: Project designer for the feasibility study for realigning the District's 40-year-old force main, currently buried below the Santa Cruz Harbor, and mounting the force main onto the bridge in conjunction with the current bridge widening and retrofit project. Primary responsibility included generation of graphics that characterized proposed alternatives.

Three Bridges, City of Santa Cruz, Santa Cruz, CA: Supervised detailing staff as well as plan layout and preparation for Water Street Bridge retrofit/replacement project, Soquel Avenue Bridge replacement and Laurel Street Bridge retrofit.

Regional Water Supply Project, Nevada Irrigation District Project Study, Nevada County, CA: Provided design for the planning and predesign of the NID Regional Water Supply Project. The Project Identified and evaluated the raw and treated water pipeline corridor alternatives, hydraulic analysis of these alternatives, and preliminary design of the recommended 16.3 mile 18-, 42-, and 48-inch pipeline corridor. Also provided design of the preliminary design of the structural pipeline, pressure reducing stations, reservoir inlet/outlet structures, and canal turnout structures. Primary responsibilities included preparing preferred and alternative alignment exhibits, preliminary facility layouts and preliminary plan and profile sheets.

Midwestern Placer Regional Sewer Pipelines Project, City of Lincoln, Placer County, CA: Pipeline designer for the design and installation of 13 miles of 22-inch-diameter to 28-inch-diameter HDPE and C200 sewer force main pipeline and valves within roadways and across private properties. The project consisted of approximately 2.3 miles of 12-inch-diameter to 16-inch-diameter reclaimed water pipeline, and all appurtenances.

Delta Mendota-Rogers Road Bridge Utility Crossing, GDR Engineering/Department of Water Resources, Patterson, CA: Project Designer for the water and reclaimed water line crossings to cross the Delta Mendota Canal. The project consisted of 12- and 16-inch ductile iron water pipelines spanning approximately 140 feet crossing over the canal, attaching to the existing Rogers Road Bridge, and mechanically attached to the exterior reinforced concrete girder on the downstream side. The sewer line crossed under the canal by directional drilling methods

Matterhorn Boulevard Waterline, Vidler Water Company, Washoe County, NV: Project Designer for the water supply project. The project included approximately 4 miles of 30-inch diameter high pressure transmission pipeline, all appurtenances, and two pressure reducing stations with pipeline and valves ranging in size from 3-inch diameter to 16-inch diameter pipelines.

Mitra Hooshangi, E.I.T.

Designer

Education
B.S./Civil Engineering (Water Resources focus)/University of California Davis/2014

Registrations
Engineer-in-Training

Mitra Hooshangi is well versed in AutoCAD, Civil 3D, ArcGIS, FlowMaster, CulvertMaster, Mathcad, Matlab, and C++. As a staff engineer, she has been responsible for the Civil 3D design for site grading and drainage, piping plans, civil details, and the coordination of civil, mechanical, electrical, and structural drawings for a variety of civil engineering projects. She has prepared cost estimates, reviewed specifications, bid forms, and bid item descriptions.

Manly Gulch Coho Access and Habitat Restoration, Mendocino, CA
Assistant Engineer for the water line relocations and underground utilities relocation and coordination for California Department of Parks & Recreation. The water line relocation component included 4-inch HDPE waterline requiring relocation due to the new bridge and engineered stream channel. The design was in accordance with the California Department of Parks and Recreation design standards. The final design of the waterline was incorporated with the approach roadway and bridge final design Coordinated relocation schedules for timely completion and utility relocation plans.

Canal Road Bridge Replacement, Bay Point, CA
Assistant Engineer for waterline relocations on the Canal Bridge Replacement project for Contra Costa County. The replacement bridge will span the Contra Costa Canal, a concrete lined channel owned by the U.S. Bureau of Reclamation and maintained by the Contra Costa Water District that provides a water supply to local residents and the agricultural community. Responsible for layout of two small diameter potable water pipelines on the bridge including estimate of probable construction cost.

Water and Sewer System Rehabilitation Projects, Folsom, CA
Assistant Engineer for the rehabilitation and replacement of four water and sewer lines encountering ongoing maintenance problems within the City. Work on the four projects included design, engineering drawings, and preparation of record drawings for the City of Folsom.

Goleta Beach Park Bridge Phase II, Goleta, CA
Assistant Engineer for updating pipeline plans and estimated cost for the 4-inch and 10-inch waterline design. Quincy provided the engineering services to replace the bridge over Goleta Slough, which provides the sole beach access to Goleta Park, the most heavily utilized park in Santa Barbara County. The existing bridge, despite an emergency repair performed in 2008, was structurally deficient and showed signs of damage due to deterioration of existing concrete piles.

Combie Phase 1 Canal Replacement Project, Nevada County, CA
Assistant Engineer on the design of 9,100 linear feet of a 96-inch-diameter pipeline within the existing footprint of the Combie Phase 1 Canal. Duties included layout of steel pipeline and RCP, as well as connection, support, and tie in details. Performed calculations for thrust restraint and joint deflections, and construction cost estimates.

Lincoln Well No. 2, Lincoln, CA
Assistant Construction Engineer for improvements to a decommissioned domestic well. Reviewed Contractor submittals and updated CAD plans to for record drawings. The purpose of the well improvements was to address changes to the hydraulic distribution system and the inability of the well to pump the updated pressures.

Greg Young, P.E.

Bridge/Structures Engineer

Education
B.S./Civil Engineering/University of California, Davis/2002

Registrations
Professional Civil Engineer CA #67707/2005; OR #82850/2009

With 17 years of tenure at Quincy Engineering, Greg Young has served as a Project Manager, Project Engineer, Design Engineer, Assistant Resident Engineer, and Structure Representative on a variety of California transportation projects. What makes Greg's experience unique is that he has spent approximately 25% of his time in the field. As a result, he approaches every PS&E package with bidability and constructability as the primary consideration. He is an HBP project specialist and uses his strong technical background in conjunction with his knowledge of the federally funded project process to successfully navigate the design, environmental, utility and right of way process.

San Lorenzo Way Bridge Replacement (HBP), Santa Cruz County, CA
Preliminary work as Roadway Project Engineer for this project that proposes to replace an existing structure with a new 160-foot bridge along San Lorenzo Way just east of State Route 9. The new bridge spans over the San Lorenzo River and provides improved exclusive access to several residences and Daybreak Summer Camp.

County Road 95 Bridge Replacement (HBP), Yolo County, CA
Project Manager responsible for the replacement of the existing 45' long single span reinforced concrete T-beam superstructure over Dry Slough. The bridge is skewed about 28 degrees relative to the Slough and has wing walls angled 45 degrees relative to the roadway. Due to the higher ADT and need to maintain access for emergency vehicles an onsite detour and temporary bridge will be used to keep the road open during construction. This will allow for the bridge to be replaced on the existing alignment.

Manning Avenue Bridge at the Kings River (HBP), City of Reedley, CA
Project Engineer responsible for the preliminary rehabilitation/replacement alternatives and ultimately the final PS&E for the selected bridge replacement. The replacement structure is a three-span 440-foot-long 91.5' wide Cast-In-Place Post Tensioned Concrete Box Girder. The pier foundations for the new structure are six 9' diameter Cast-In-Drilled Hole Piles that support 5.5 million pounds of force each. The existing bridge was comprised of three separate structures separated by longitudinal construction joints.

Olson Avenue Bridge Sewer Pipeline Project, Reedley, CA
Structures Project Engineer for the feasibility study for upgrading the existing 21-inch diameter pipeline to a 42-inch diameter pipeline across the Olson Avenue Bridge. Installing a new 42-inch diameter gravity line on the existing structure required extensive analysis to confirm the increased load did not adversely affect the bridge. The project Team devised a new concrete cantilever corbel system attached directly to the existing pier wall substructure so that the existing superstructure was not loaded by the new 42-inch line. Based on an analysis of the existing bridge As-built plans, it was determined that there was enough reserve capacity in the existing pile foundations to support the increased substructure loads.

Bridge Street Bridge (HBP), Arroyo Grande, CA
Project Engineer responsible for preliminary design and final PS&E of this bridge project that is currently scoped through the Highway Bridge Program as a replacement or rehabilitation bridge project. Replacement or rehabilitation of the structure will require closure of a local road in a highly sensitive historic district of downtown Arroyo Grande. The existing bridge is a steel truss that is both functionally obsolete and structurally deficient. Utility relocations will also be a critical element of this project.

James Thornton, P.L.S.

Survey Manager

Education

Mechanical Engineering Coursework, Sierra College, Rocklin, CA

Civil Engineering Coursework/California State University, Chico

Registrations

Professional Licensed Surveyor/CA/#8926/CA

Jim Thornton, a licensed professional surveyor, has 13 years of multi-disciplined experience. He has completed an extensive array of surveying projects throughout California for both public and private entities in nearly every capacity from field surveyor to survey manager. As a Survey Manager, Jim has managed and trained survey crews and office staff, implemented surveying procedures and standards for accuracy and streamlined functions, and provided quality assurance/quality control. Well versed in both the business and technical aspects of land surveying, he has been responsible for preparing proposals, research, client relations, governmental agency correspondence, field work and drafting. Jim has a proven track record in managing scope, budget and deadlines of multiple projects simultaneously while maintaining consistent and accurate deliverables.

Negro Bar Water Line Replacement, Folsom, CA
Survey Manager responsible for the performance of a topographic survey of a traffic-impacted portion of Greenback Lane and surrounding areas, inclusive of all visible utility features.

Millertown Road Pipeline Extension, Placer County, CA
Project Surveyor for the pipeline extension to acquire treated water on Millertown Road in Auburn. Survey tasks included preparing a GPS control network, topographic surveys, right-of-way mapping, preparing a land net, and numerous and easement exhibits and legal descriptions for 20 separate properties.

Alfonso Dabu, L.S.I.T.

Land Surveyor

Education

B.S./Civil Engineering/University of Santo Tomas, Manilla, Philippines/1986

A.S./Engineering Design Technology/Sacramento City College/2013

Certifications

Land Surveyor in Training CA #8020/2010

Alfonso Dabu has more than 10 years of progressively responsible experience in field and office land surveying work. He is highly proficient with AutoCAD R14, 2002, 2007, 2012, Civil 3D 2008, and Land Development Desktop. He is skilled in using field surveying equipment and tools including robotic and conventional total stations, GPS, and data collectors.

State Route 4/Balfour Road Interchange, Brentwood, CA
Surveyor. Quincy Engineering developed the Project Study Report/Project Report and PS&E package for the construction of a grade-separated interchange at State Route 4 and Balfour Road in the City of Brentwood. This interchange replaced an at-grade intersection and included the construction of bridges, utility relocation, drainage facilities, and traffic signals.

Chase Street, City of Sonoma, CA
Surveyor on this project that prepared a Project Report, developed PS&E and acquired right-of-way for the Chase Street Bridge (Br. No. 20C0407) at Nathanson Creek replacement project.

Dickenson Ferry Road Bridge, Merced County, CA
Surveyor on this bridge replacement project. Constructed in 1949, Dickenson Ferry Road Bridge is an 87-foot long, 5-span Timber Bridge located approximately 6 miles south from the City of Atwater and 5 miles southwest of the City of Merced in Merced County, California.

Ray Weiss

Environmental

Education
B.A./Economics/California State University, Sacramento/1994

With over 20 years of experience, Ray Weiss specializes in developing streamlined project delivery strategies under the National Environmental Policy Act (NEPA) and California Environmental Quality Act (CEQA) for federal, state, and local transportation projects. He has served as Project Manager/Task Lead for major transportation infrastructure projects throughout California. Ray has extensive experience in community outreach projects having participated in numerous workshops, charettes, and surveys.

Guy West Bridge Rehabilitation, Sacramento, CA
Environmental Task Lead responsible for preparation of an initial study/mitigated negative declaration (IS/MND) to comply with CEQA, and the entire CEQA process to meet the City's accelerated project schedule. Key environmental issues addressed in the IS/MND included the historic nature of the bridge, impacts to the American River riparian corridor, water quality impacts to the river, and a variety of construction impacts to sensitive receptors and recreational users located adjacent to the project site. A Bridge Condition Assessment Report and Bridge Rehabilitation and Maintenance Plan Report were prepared as part of the initial phase.

Bridge Replacement Projects - Caltrans District 10, Calaveras County, CA
Project Manager responsible for the preparation of CEQA/NEPA compliance documents and a variety of environmental permits for County of Calaveras. The work was part of a county-wide bridge replacement and rehabilitation program. Environmental services performed for the HBP-funded bridge replacement projects included: Dogtown Road over Indian Creek and Lime Creek Road over Youngs Creek.

Dogtown Road Bridge Replacement (HBP), Calaveras County, CA
Environmental Task Lead responsible for coordination with Caltrans District 10 staff to approve the PES Form and APE Map for this replacement project for a two-span, pre-cast concrete, voided slab unit bridge, which was built in two stages to avoid closing the road. Managed the project team in preparation of various technical studies to complete the NEPA process with Caltrans. Additional phases of the project included preparation of the County's CEQA document and regulatory permits.

Lime Creek Road Bridge Replacement (HBP), Calaveras County, CA
Environmental Task Lead responsible for the preparation of various technical studies to complete the NEPA process with Caltrans for the replacement of this two-span, reinforced concrete "T" girder bridge. The new bridge will be a single-span, post-tensioned concrete voided slab bridge. Coordinated with Caltrans District 10 staff to approve the PES Form and APE Map. Additional phases of the project included preparation of the County's CEQA document and regulatory permits.

Town of San Anselmo Bridge Replacement Projects, San Anselmo, CA
Environmental Task Lead responsible for coordination with Caltrans District 4 staff to review the PES Form and APE Map. Additional phases of the project included preparation of various technical studies for Caltrans and preparation of the Town's CEQA document and regulatory permits. Key environmental issues focused on biological resources including the Central California coastal steelhead.

Additional projects include:

- Winship Avenue Bridge Replacement, Ross, CA
- Two Rivers Trail Project Phase II, Sacramento, CA
- Combie Road Widening, Nevada County, CA

Benjamin D. Crawford, P.E., G.E.

Principal Geotechnical Engineer

Education
B.S./Civil Engineering/California Polytechnic State University, San Luis Obispo/2002

Registrations
Civil Engineer, CA #68457
Geotechnical Engineer, CA #2861

Ben Crawford is the Founder and President of Crawford & Associates, Inc. He is a graduate of California Polytechnic State University, San Luis Obispo, with a concentration both in Geotechnical Engineering and Hydrology. He has managed complex projects throughout Northern California, including bridges, roadways, pavement rehabilitation, and transportation projects. Ben has over 15 years of experience providing geotechnical recommendations for water and wastewater, schools, residential and commercial structures, water and communication towers, retaining walls, pipelines, and airports.

Ceres Trunk Realignment and Rehabilitation Project - Modesto, Stanislaus County, CA
As Principal Geotechnical Engineer for the project, Ben oversaw the preparation of a Draft Environmental Sampling Memo and Geotechnical Report for the rehabilitation of approximately 3,000 ft of 24-inch diameter reinforced concrete pipe, replacement of approximately 2,200 ft of sewer pipe from the Shackelford Crossing heading north along Zeff Rd, rehab the existing pipe and install a secondary line beneath SR 99 for about 800 ft. Jack-and-bore construction techniques are planned for a new 300 ft long, 24-inch diameter SR 99 sewer crossing just north of the existing line that connects the Crows Landing and Zeff Rd sewer line. Below ground structures are planned at the Zeff Rd and Crows Landing sewer connections to control flow between the new and existing SR 99 pipeline crossings.

City of Modesto Diversion Structure - Modesto, Stanislaus County, CA
CAInc prepared a Geotechnical Report for the construction of a Diversion Structure over the River Trunk and CSL pipelines. The proposed structure will allow the City to divert flows to multiple facilities in both directions. The report included information about subsurface and surface conditions; results of laboratory testing; soil conditions and groundwater information; a corrosion evaluation; seismicity of the site; and potential for liquefaction and lateral spreading. Provided recommendations for Mat Foundations, excavation, and pavement recommendations.

Emerald Trunk Relief Project - Modesto, Stanislaus County, CA
Oversaw the preparation of the Geotechnical Design Report for the City of Modesto's Emerald Sewer Trunk Relief Project. The proposed sewer trunk line will divert 60 percent of the flow from the Emerald Trunk at the proposed diversion structure on Emerald Avenue just south of State Route 99. The new 30-inch diameter pipeline will then parallel the existing Emerald Trunk Sewer for about 0.4 miles south to Elm Avenue and then extend west about 1.3 miles along Elm Avenue to the existing West Trunk Sewer. Six exploratory borings were along the proposed alignment to depths ranging from 16½ to 36½ feet below existing grade.

Primary Outfall Rehabilitation Project, Phase I and II - Modesto, Stanislaus County, CA
Principal-in-Charge for the Phase I and Phase II Primary Outfall Rehabilitation Projects which consists of construction management of approximately 6.5 miles of both reinforced concrete pipe and concrete cylinder pipe, both 60-inch in diameter. The five methods of rehabilitation used on this project are Profile Wall PVC Sliplining, RPMP Sliplining, HDPE Pipe Sliplining, Cured-in-Place Pipe Lining, and Pressure Rated Cured-in-Place Pipe Lining. Oversaw the construction management team and subconsultants, and worked with the City of Modesto CM and accounts department during the project.

W. Eric Nichols, P.G., C.E.G., P.E.

Senior Project Manager

Education
B.S./Geological Engineering/University of Nevada, Reno/1990

Registrations
Civil Engineer, CA #82103
Certified Engineering Geologist, CA #2229
Professional Geologist, CA #7142

Eric Nichols has participated in geological and foundation engineering studies for over 27 years. Eric has a diversity of experience in project terrain, geographical location and project complexity, and participated at various professional levels with increasing responsibility for numerous transportation related facilities and structures. Eric has been Project Manager for projects throughout California, including bridges, buildings, storm damage and slide repair, roadway improvements, parks, hydraulic projects, levees, and pile observation projects.

Hoitt Sewer Rehabilitation Project, Lincoln, Placer County, CA
Completed a geotechnical report to provide recommendations for the replacement of approximately 6,000 lineal feet of sewer pipeline that included removal/rehabilitation of wastewater collection pipes, manholes and sewer laterals. Geotechnical services included eight test borings and laboratory soil testing to provide data and evaluation for the design/construction of the pipeline. The report included recommendations for trench excavations, trench backfill, and new asphalt pavement sections.

Maxwell Wastewater Treatment Plant Project, Maxwell, Colusa County, CA
Project Manager for modifications and upgrades to the existing wastewater treatment plant that included two aeration ponds, two facultative lagoons, a new off-site 20-acre storage pond, about 7,500 lineal feet of new force main, and installation of monitoring wells. Provided recommendations for earthwork grading, pond/lagoon design considerations for low permeability earth liner and settlement, and force main design considerations/criteria that included excavation, mitigation of loose soft soil, trench backfill, directional drilling and jack-and-bore methods, pit bottom support, and thrust wall/block design. Also provided construction observation services.

Brown Street Lift Station, Vacaville, CA
Completed a geotechnical report to provide recommendations for a replacement sewer lift station with a new concrete wet well, control building and paved driveway/paring area. Geotechnical services included a test boring, laboratory soil testing and evaluation/analysis for new foundation elements. Recommendations were provided for site grading, spread footing foundations, slab-on-grade preparation, equivalent fluid pressures for wet well design and new structural pavement sections. The geotechnical report also included seismic data/evaluation and construction considerations. Eric also provided construction observation and testing services.

Wastewater Treatment Plant Improvements, Town of Windsor, CA
Completed a geotechnical report to provide recommendations for modifications/improvements to the existing wastewater treatment plant that included an ultraviolet disinfection unit, a replacement railroad "flatcar" bridge and modifications to Pond 6 with borrow evaluation. Geotechnical services included review of in-house data, test borings, laboratory testing, evaluations/analysis and report preparation. Recommendations included earthwork grading, spread footing foundations, slab-on-grade, cast-in-drilled hole piles (bridge replacement), lateral soil pressures, seismic parameters, pond design considerations for low permeability "blanket", embankment foundation, materials placement and erosion considerations.

Joseph A. Feyder, P.L.S.

Survey Manager

REGISTRATION
Professional Land Surveyor, California, #5901
Professional Land Surveyor, Oregon, #2692
Professional Land Surveyor, Washington, #33650
Professional Land Surveyor, Idaho, #7158

Joseph (Joe) Feyder, PLS has 36 years of comprehensive experience in all aspects of professional land surveying. He is an expert at providing pragmatic and resourceful survey approaches to complex projects, while providing strong leadership. His expertise includes LiDAR, aerial mapping, control surveys, and topographical mapping and right-of-way engineering.

Iowa Department of Transportation (IaDOT), Three-Year, Statewide On-Call Mobile LiDAR Scanning
Project Manager for this three-year on-call mobile LiDAR services contract with the Iowa Department of Transportation. This statewide contract was awarded after successfully completing two previous mobile LiDAR projects for IaDOT in 2011 and 2012. We are currently working on our ninth work order, including the two previous projects. Scan data for each project was acquired with R.E.Y.'s Riegl VMX-250/CS6 Mobile Laser Scanning and Camera System. Each project included mission planning, pre-mission targeting and control surveys, LiDAR acquisition and logistics, data processing and adjustment, and 3D mapping compilation.

I-10/I-605 Interchange Flyover Connector Design-Build, Baldwin Park, CA
Design Survey and Project Manager for this $93 million design-build project for Caltrans District 7 in Los Angeles County. The project will provide a flyover connector from southbound I-605 to eastbound I-10, eliminating weaving conflicts and improving safety and operations at this heavily travelled interchange. R.E.Y. provided mobile LiDAR data acquisition, processing and extraction services to deliver pavement survey quality data to the design team. Using this approach provided for safe data acquisition and high-density point distribution beyond the original project scope, eliminating return trips to the project for additional data.

SR 91 Corridor Improvements Design-Build, Riverside and Orange Counties, CA
Survey Manager for this $650 million design-build project widening SR 91. The project includes new freeway lanes, connectors and toll/express lanes, extending the existing SR 91 express lanes into Riverside County. R.E.Y. provided nearly 175 lane-miles of scan data acquisition, totaling 5.8 billion points and final adjusted LAS files to the project's prime survey contractor for design data extraction.

Street & Storm Drain Improvements, Rialto, CA
Survey Manager, facilitating surveying and Right of Way engineering services for this project to construct street improvements along segments of San Bernardino Avenue, Riverside Avenue, and Willow Avenue.

Florida DOT / Tampa-Hillsborough Expressway Authority Mobile LiDAR
Project Manager for Mobile LiDAR acquisition along a 1.7-mile section of the elevated Lee Roy Selmon Expressway, in Tampa, FL, for this $64.3M re-decking and widening design-build project. Access and safety on the elevated structures was the driver in selecting this technology for this project. Scan data was acquired with our RIEGL VMX-250/CS6 Mobile Laser Scanning and Camera System. The project included nine ramps and the soffits of four overhead structures. Final deliverables included fully adjusted point clouds and calibrated digital imagery to our prime contractor.

I-5/US 50 Viaducts Design-Build Rehabilitation, West Sacramento and Sacramento, CA
Design Survey Manager for this project to rehabilitate the Sacramento River Viaduct (Pioneer Bridge) and West End Viaduct. Services included 3D laser scans of multiple ramps requiring grade corrections, and deck drain outlets requiring drainage corrections at ground level.

F. Thomas Cade, P.L.S.

Project Surveyor & LiDAR Specialist

EDUCATION

Engineering, Indiana Institute of Technology, Fort Wayne, IN, Non-degree

REGISTRATION

Professional Land Surveyor, California, #7162
Professional Land Surveyor, Oregon, #2737
Professional Land Surveyor, Washington, #33143

Thomas (Tom) Cade, PLS has 35 years of experience in the delivery of survey services for public infrastructure projects. He serves as R.E.Y.'s Hydrographic Survey Lead for all bathymetric surveys, and provides QA/QC project oversight and review for all control surveys, geodetic positioning, right of way engineering products, Record of Surveys, topographic mapping and construction surveying. He formerly served as a Party Chief and GPS Coordinator for Caltrans Districts 1 and 4, is certified in hydrographic surveying, and is a Trimble Certified Trainer.

I-10/I-605 Interchange Flyover Connector Design-Build, Baldwin Park, CA

Project Surveyor for this $93 million design-build project for Caltrans District 7 in Los Angeles County. The project will provide a flyover connector from southbound I-605 to eastbound I-10, eliminating weaving conflicts and improving safety and operations at this heavily travelled interchange. R.E.Y. provided mobile LiDAR data acquisition, processing and extraction services to deliver pavement survey quality data to the design team. Using this approach provided for safe data acquisition and high-density point distribution beyond the original project scope, eliminating return trips to the project for additional data.

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I-5/Richards Boulevard Interchange Mobile LiDAR, Sacramento, CA

Project Surveyor for this project to improve interchange operations, access to downtown Sacramento, the Union Pacific Railyards, and Richards Boulevard planning areas. Survey tasks included mobile and terrestrial LiDAR scanning, field surveys, and 3D and design-quality mapping.

Folsom Dam Spillway, Folsom, CA

Project Surveyor for this project constructing an auxiliary spillway, approach channel, spillway chute and stilling basin to compliment the functions of Folsom Dam. R.E.Y. is currently providing surveying services to support construction of the Auxiliary Spillway Control Structure and the approach channel, chute and stilling basin. Mr. Cade led the bathymetric surveys to verify as-built of the approach channel invert.

Appendix B

PROJECT PLAN/APPROACH

PROJECT UNDERSTANDING

The Santa Cruz County Sanitation District (District) owns and operates the 36-inch East Cliff Transmission Main that conveys wastewater for approximately 5.7 miles from the D.A. Porath Sanitation Facility (pump station) to the City of Santa Cruz Wastewater Treatment Facility (WWTF). Due to the age of this critical pipeline, approximately 40years, the District would like to evaluate the option of constructing a secondary, redundant force main from the pump station to the WWTF. The District is considering the option of utilizing a secondary force main to divert flows for conveyance to the WWTF and/or back into the existing system through the interconnection vault for emergency bypass. Recently, the Soquel Creek Water District (SqCWD) completed a groundwater recharge feasibility study evaluating various alternative alignments for a recycled water pipeline through the City. Where possible, it would be prudent to consider alignments like those already evaluated for the recycled water line. State regulators (Regional Water Quality Control Board and Division of Drinking Water) have already been contacted about placing SqCWD's pipeline in a trench with the District's force main and they were quite clear that the pipelines will not be allowed to be placed in the same trench. However, other opportunities for joint planning and construction should be explored to provide efficiency and cost savings for the District.

PROJECT APPROACH

Our approach centers on your goals, your priorities, and tackling your challenges. The District faces emergency conditions with only one pipeline dedicated to the delivery of wastewater from the County service areas in the east to the City WWTP. You want to plan for redundancy and maximum flexibility for maintenance and repairs that are sure to come with the aging existing force main.

We are focused on delivering the Secondary Force Main Feasibility Study and Preliminary Design (as described in your RFQ), with the objective of helping you make these critical decisions:

- What is the best route for the new secondary force main?
- How can we plan for the existing and new facilities to work together seamlessly?
- How can we get the most for the District's budget?
- How can we plan for staged construction to maximize the affordability of the project?

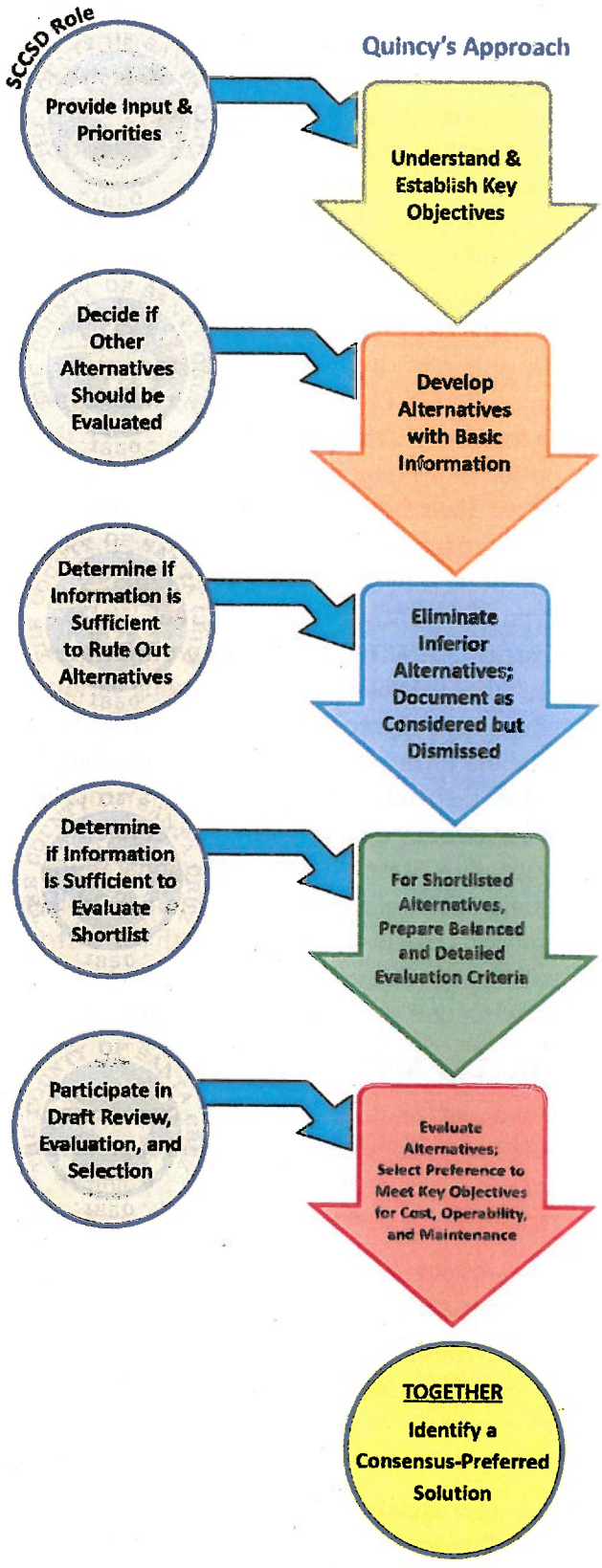
Our approach is based on numerous similar feasibilities prepared in the past and brainstorming sessions with District staff during a walk along possible alignment routes.

Our step-by-step decision approach is to identify the alternatives, and then to evaluate them in collaboration with the District, as shown in the Approach Flow Chart graphic.

The solution that brings the District the best value will depend on site constraints. We understand that the pipeline concept is easy to imagine, but construction will take much consideration for challenges along the way. As part of the review of alternatives, we will compare, evaluate, and consider the following items:

- Conflicts with Existing Utilities
- Constructability
- Traffic Control and Noise during Construction
- Environmental (wetlands, tree removal, creek/river crossing)
- Permitting, Easements, Right of Ways
- Cost Saving Opportunities (Phased Approach, Joint Project with Others)

Planning efforts for the Pure Water Pipeline project proposed by the Soquel Creek Water District will be considered and incorporated. Because the force main and the recycled water pipelines will traverse similar routes, there may be advantages and savings during construction if the projects can be staged together.



TACKLING YOUR CHALLENGES

Our approach to successfully completing the Secondary Force Main project is centered on resolving the following key challenges:

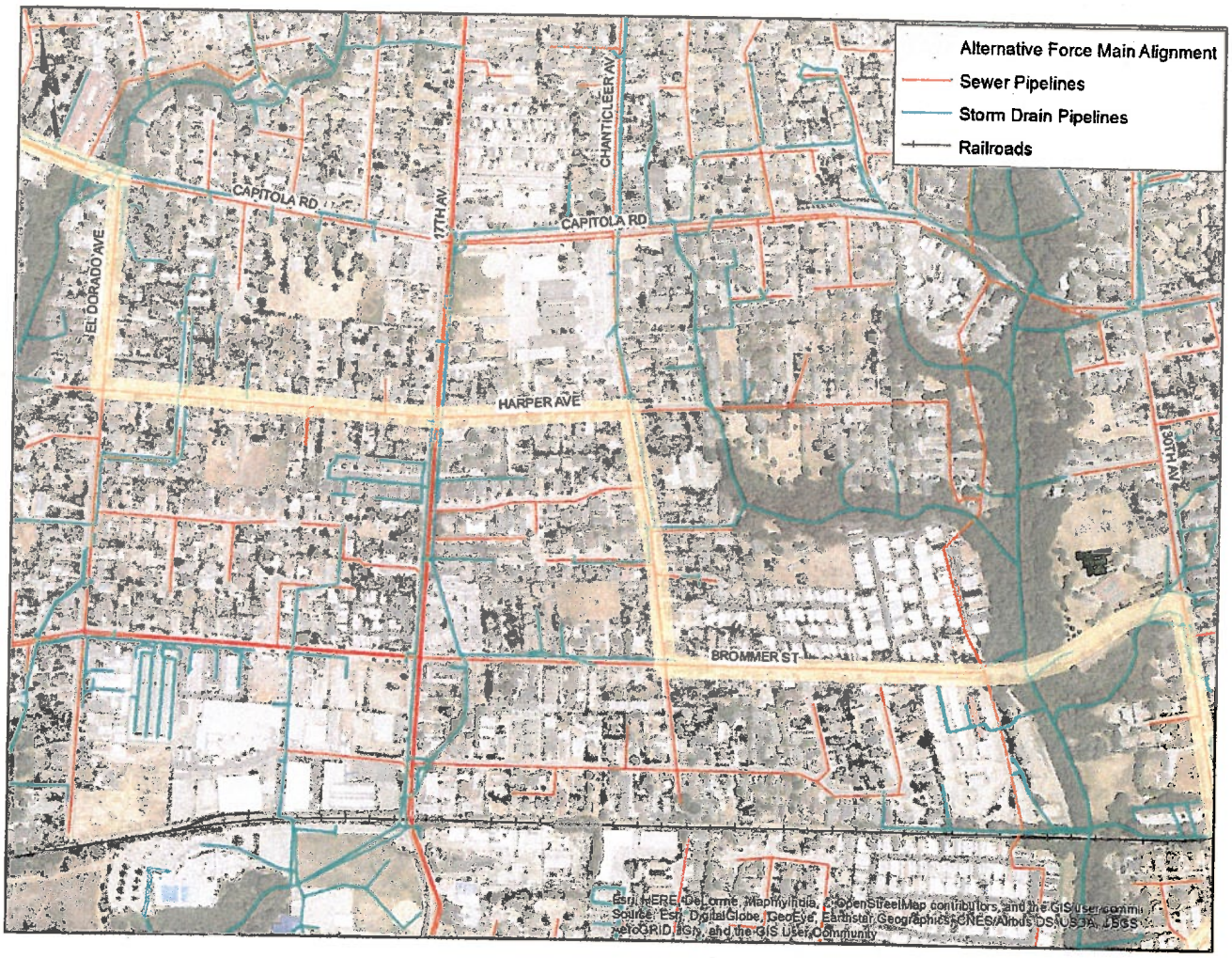
- Alternative Alignments
- Railroad ROW Crossings
- San Lorenzo River Crossing
- Project Phasing for Construction

Our approach to tackling each of these challenges has been highlighted on the Challenge Sheets that follow.

Challenge #1: Force Main Alignments

Approach

We will identify no more than eight (8) alternatives for installing a secondary force main from the County's pump station to the City's treatment facility. Generally, the alternatives will consider installation within public roads/right of ways, the railroad corridor, and across the San Lorenzo River. In addition to the potential alignments provided in the RFQ, the Quincy team will evaluate additional alignments such as a route through side streets with less potential for utility conflicts as illustrated below.



Potential Force Main Alignment via Brommer Street, Chanticleer Avenue, Harper Street, and El Dorado Avenue

Benefit

Constructing in less traveled streets with fewer utility conflicts can result in a shorter project duration and cost savings in construction.

Challenge #2: Railroad ROW Crossings

Approach

The railroad right of way (ROW) will be evaluated for potential force main alignment. Feasibility of using the existing railroad bridges will be based on an analysis of the rail structures. The structures to consider are over Rodeo Gulch and the Santa Cruz Harbor. To perform any structural calculations, as-built drawings showing the structural elements of the bent caps and steel piles of the rail trestle are required. It may be also considered to cross only Rodeo Gulch and then proceed northerly through public roads at 7th Avenue. Two fees are proposed for this work, depending on the availability of as-built drawings for the railroad structures: 1) analysis with as-built drawings, and 2) analyses without as-builts.

Rail Trestle at Rodeo Gulch

Benefit

The rail corridor option potentially saves on construction costs because it is the shortest route from the County's pump station and would result in minimal disruption to public roadways.

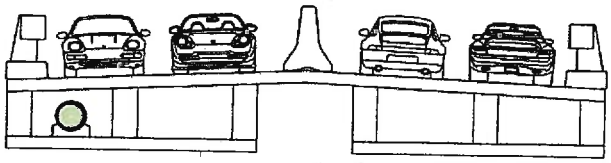
Railroad Right of Way

Rail Structure at Santa Cruz Harbor

Challenge #3: San Lorenzo River Crossing

Approach

In 2016, the Quincy team completed an alternatives analysis and cost estimate of microtunneling underneath the Santa Cruz Harbor for the District and utilized our constructability expert, EJ Belding, to make our recommendation. Similarly, for this project, our first step will be to complete a preliminary evaluation of the three river crossing methods identified below with respect to constructability, environmental considerations, and cost. In the next phase, a more detailed evaluation for feasibility will be based on geotechnical and structural analyses. We will coordinate with other project stakeholders such as the City of Santa Cruz and Soquel Creek Water District.



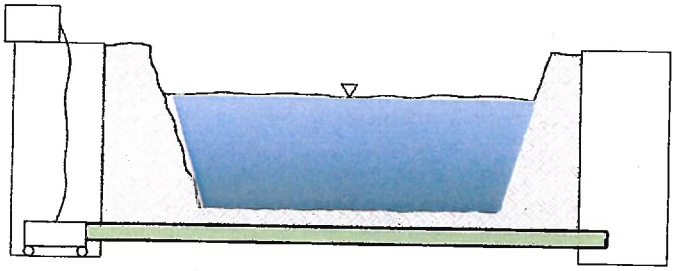
Method 1: Existing Bridge - Utilize Utility Openings

Benefit

Potentially lower costs because:

- No structure design or construction
- Minimal Environmental

However, may involve reducing the diameter of the force main.

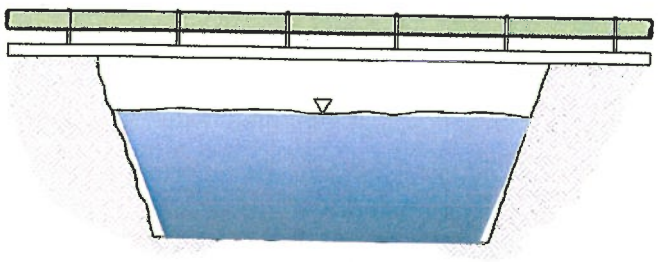


Method 2: Microtunneling or Horizontal Directional Drilling

Benefit

Cost savings if combined as a joint project with:

- Soquel Creek Water District for the Pure Water Soquel Project
- City of Santa Cruz, if they wish to install a redundant pipeline



Method 3: Independent Structure - Pipe Bridge to Support the Force Main

Benefit

Could involve a joint project with either City of Santa Cruz or Soquel Creek Water District to build a structure for multiple utility pipelines.

Challenge #4: Project Phasing for Construction Cost Savings

Approach

The District has identified a need for this secondary force main project; however, the purpose of this feasibility study and preliminary design must answer one major question for the District: ***"how can we afford this?"***. In fact, a force main *can* be designed from point A to B, but at what cost? Because of our experience in taking many pipeline projects from planning through construction, we are tuned in to looking for the most efficient means to get the job completed.

Our Feasibility Study will include an examination of how we will look for ***cost saving opportunities*** and plan for ***phasing the construction into affordable pieces***.

For this project, the work can clearly be cut into discrete segments. This lends itself to phasing the work to achieve the following:

1) Spreading the work over multiple construction seasons
2) Constructing the 'easier' parts first, while other segments may be waiting for environmental permits
3) Look for opportunities to phase emergency bypass connections earlier
4) Plan for collaboration with construction projects by others (i.e. Pure Water Soquel)

Specific benefits for each identified segment may include:

- **Segment 1: Pump Station Upgrades**
  - ✓ Cost Savings: Upgrade existing pumps to meet the head for the new force main
  - ✓ Flexibility: Construct a new manifold to divert flow both for long range and short-range emergency bypass
- **Segment 2: Force Main - Pump Station to City's Interconnection Vault**
  - ✓ Cost Savings: Combine as joint project with the Soquel Creek Water District
  - ✓ Flexibility: Create early options to 'switch over' to new force main for emergencies
- **Segment 3: Interconnection Vault Upgrades**
  - ✓ Cost Savings: Eliminate cost for parallel force main across the river and to the plant
  - ✓ Flexibility: With parallel force main, connection to the City's system in the event of an emergency
- **Segment 4: San Lorenzo River Crossing**
  - ✓ Cost Savings: Share the costs with Soquel Creek Water District for independent structure or directional drilling/microtunneling
  - ✓ Flexibility: Environmental coordination for river crossings will take time, other segments can be constructed without delay
- **Segment 5: Force Main - River to City's WWTF**
  - ✓ Cost Savings: Opportunity to partner with the Soquel Creek Water District with similar alignment
  - ✓ Flexibility: If environmental coordination is needed at Neary Lagoon, this phase can be moved to the future, so as not to delay other segments

PROJECT WORK PLAN

We have developed a Work Plan that will meet the needs of the District and we look forward to collaborating with the District to develop pipeline alignment and pump station alternatives to achieve the most feasible, least obstructive, and most cost-effective project.

To ensure *timely delivery of the project*, we start with developing a **critical path schedule**. Each deliverable has a detailed task breakdown as well as reviews incorporated into the schedule so that each responsible party knows when their part is needed. We will update this schedule every month and include a "look ahead" on tasks and meetings that will be coming up next. This allows for close coordination to occur between the Project Team and District staff.

All work will be performed in accordance with County and/or Caltrans standards and specifications, and in adherence to State and Federal regulations, policies, and procedures, as applicable.

This is not a federal-aid project, and as such, we have not included this in our approach discussion. We will not be using special equipment/laboratories to complete the project.

We propose to complete the Secondary Force Main Feasibility Study and Preliminary Civil Design based on the following work plan. We have incorporated, at a minimum, each requested *scope of work item listed in the RFQ*, herein highlighted in ***blue***.

This Project Work Plan is divided into Tasks, each of which includes requirements, methodology, description of the work to be performed, and the work products. These Tasks will provide the outline for preparing a Scope of Services and the cost proposal.

Task 1 - Project Management

Task 1.1 - Project Management, Coordination, and Oversight

Our project manager, Linda Scroggs, will provide day-to-day project management, oversight, coordination, and communication with the project team members, including the management of the budget and scheduling. Monthly progress updates will keep the District informed on the budget and schedule. The team will closely coordinate with the District's project manager and, as directed by the District, project stakeholders herein defined as City of Santa Cruz, Soquel Creek Water District (SqCWD), and the Santa Cruz County Regional Transportation Commission (SCCRTC) to evaluate pipeline alternatives.

Work Product

- ✓ *Monthly updates for budget and schedule; communication emails or memos as necessary to record discussions with stakeholders*

Task 1.2 - Kickoff Meeting

A ***kickoff meeting*** will be held with District staff to discuss project goals, data/information requests, District concerns to be addressed, milestones, and project timeline. We will discuss project schedule and any additional data and information required. Todd and Linda will lead the kickoff meeting accompanied by the key members of the Project team, as necessary.

Work Product

- ✓ *Meeting Minutes; includes a list of Action Items with assigned responsibilities*

Task 2 - Alternatives Analysis

To adequately assess and select alternatives for the feasibility study, we will complete an ***alternatives analysis*** for the secondary force main and facility upgrades. Following the analysis, select alternatives will be further evaluated in the feasibility study and ultimately a preliminary design report and draft design plans will be prepared. The following tasks are associated with the alternatives analysis.

Task 2.1 - Data Collection and Site Investigation

Quincy will initiate ***data collection*** by requesting documents from District staff and completing a utility search to obtain any available electronic files associated with existing utilities, such as as-builts and GIS data along the alternative pipeline alignments, record drawings for the pump station and vault at San Lorenzo River, rail trestle as-builts, easement information, traffic data, City and County standard plans.

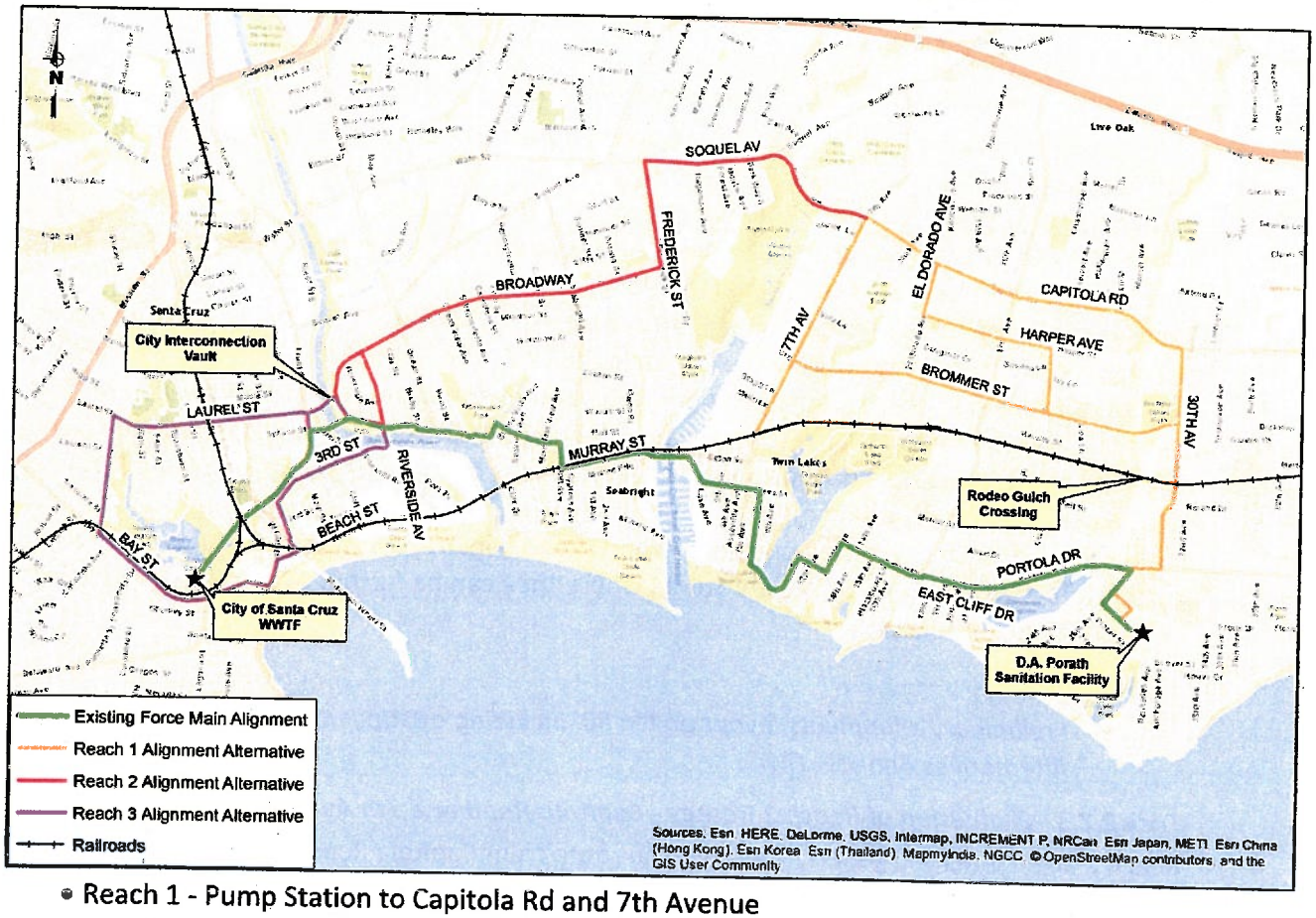
Site visits may be performed, as necessary, to evaluate existing facilities. With respect to the project timeline, we expect the review to be streamlined with the intention of clearly defining the project purpose and scope. We recommend that a staff engineer becomes very familiar with the site, and walk the route with the surveyors to ensure that they pick up all surface features, dip manholes, and identify any challenges that may need to be addressed before determining if the pipeline route can be determined.

Work Product

- ✓ *A base map graphic showing utilities for alignment planning purposes (to be incorporated into Draft Alternatives Analysis TM)*

Task 2.2 - Alternatives Development

The Quincy team, in collaboration with District staff, will brainstorm and identify several ***alignment alternatives*** for the secondary force main and ***upgrades of existing facilities***. To help simplify the pipeline route analysis process, the length of the pipeline from the pump station to the WWTF is divided into three reaches defined below and illustrated in the following figure.



- Reach 1 - Pump Station to Capitola Rd and 7th Avenue
- Reach 2 - Capitola Road and 7th Avenue to City's Interconnection Vault
- Reach 3 - Interconnection Vault to WWTF

Alignment alternatives (two to three per reach) will be evaluated. Alternatives will also be evaluated for facility upgrades. The preferred alternative(s) will be selected for further analysis. In this task, ***relative costs, constructability, and potential environmental permitting*** will be evaluated with the intent of illustrating general comparisons among the alternatives. An ***assessment of required easements*** will also be completed for each.

Work Product

✓ *A graphic showing alternatives; a table of pros and cons for each route for review and discussion for District and Quincy team (incorporated into Draft Alternatives Analysis TM)*

Task 2.2.1 - Evaluation of Pump Station Upgrades

This task will review and assess pumping requirements for a fully redundant force main from the pump station to the WWTF. ***Pump station upgrades*** and configurations will also be confirmed for function

and pricing. A preliminary site plan will be completed to show the general layout of the secondary sewer force main along the District's preferred alignment. Options for manifold arrangements to connect the pump station to each force main will be evaluated and displayed on a figure.

Work Product

- ✓ *A layout plan with optional manifold arrangements (incorporated into Draft Alternatives Analysis TM)*

Task 2.2.2 - Evaluation of Reach 1 Alignment Variations

Alternatives for Reach 1 will generally include adding a secondary force main in an alignment to the north of the existing force main, either by attaching to an existing rail trestle or installing within a roadway to Capitola Rd and 7th Avenue. Based on discussions with District staff, Soquel Creek Water District (SqCWD) is currently in the planning phase of the Pure Water Soquel Project, which involves the construction of new pipelines along many of the similar alignments as those considered for the proposed secondary force main. With input from the District, SqCWD, our environmental team, and possibly the City of Santa Cruz, the team will evaluate the alignment options for Reach 1. We recommend coordination meetings with SqCWD staff to explore opportunities to share cost and, if we will be selecting similar routes, plan construction schedules together to avoid multiple disruptions to local residents, traffic, and multiple pavement cuts. A preliminary layout of the alignment alternatives will be placed on an aerial background to assist with alignment selection based on known utilities and constraints. Multiple alignments may be carried into Task 3.0, Final Feasibility Study, where they can be further evaluated through a more detailed, technical analysis.

Work Product

- ✓ *Preliminary alignments layout at 1"= 80' including existing utilities(incorporated into Draft Alternatives Analysis TM)*

Task 2.2.3 - Evaluation of Reach 2 Routes - Capitola Road and 7th Avenue to Vault

Reach 2 alignments will generally include the route from Capitola Road and 7th Avenue along Frederick Street and Broadway to the City's interconnection vault. Depending on the river crossing alternatives, Reach 2 alignment alternatives will include an approach to the vault from the north or the south along San Lorenzo Boulevard.

Work Product

- ✓ *Preliminary alignments layout at 1" = 80' including existing utilities (incorporated into Draft Alternatives Analysis TM)*

Task 2.2.4 - Evaluation of City Interconnection Vault

Currently, the District ties into the City's system at the interconnection vault located on San Lorenzo Boulevard just upstream of the San Lorenzo River crossing. The District would like to evaluate the option of tying the redundant force main into the City's system at this location. This task will evaluate the current configuration and options for ***upgrading the City's interconnection vault.***

Work Product

- ✓ *Preliminary plan of existing City vault with alternative pipeline connections (incorporated into Draft Alternatives Analysis TM)*

Task 2.2.5 - Evaluation of Reach 3 River Crossing Alternatives

Various alignments will be evaluated for ***crossing the San Lorenzo River***. Crossing methods to be explored include trenchless technologies such as horizontal directional drilling and ***microtunneling***, attaching to an existing bridge, and attaching to an independent structure. The team will complete a high-level evaluation of each crossing with respect to ***constructability, environmental sensitivities and permitting, and cost***. The preferred method will be evaluated in the Task 3, Final Feasibility Study.

Work Product:

- ✓ *Preliminary plan of river crossing alternatives, with comparisons provided for order of magnitude costs, environmental requirements, constructability, and O&M considerations (incorporated into Draft Alternatives Analysis TM)*

Task 2.2.6 - Evaluation of Reach 3 River to WWTF Routes

Reach 3 alignments will generally include routes from the river crossings addressed in Task 2.2.4 to the WWTF. Not included in this evaluation is an analysis of the tie-in to the WWTF headworks or any necessary upgrades to that facility. The Reach 3 preferred alignment will be evaluated in the Task 3, Final Feasibility Study.

Work Product:

- ✓ *Preliminary alignments layout at 1"= 80' including existing utilities (incorporated into Draft Alternatives Analysis TM)*

Task 2.3 - Alternatives Analysis Technical Memorandum (TM)

Task 2.3.1 - Draft Alternatives Analysis TM

The first deliverable intended for District review will be the ***Draft Alternatives Analysis TM***. This TM will include:

- A brief description of previously explored alternatives by others
- Identification of no more than eight (8) alternatives for installing a secondary force main and upgrading facilities. An initial list of alternatives are as follows:
  - Reach 1 (Pump Station to Capitola Road and 7th Avenue)
    - Alt 1 - New force main along rail corridor
    - Alt 2 - New force main along Capitola Road
    - Alt 3 - New force main along Brommer Street and local streets
  - Reach 2 (Capitola Road and 7th Avenue to vault at San Lorenzo River)
    - Alt 4 - New force main along Capitola Road and Broadway to vault
    - Alt 5 - New force main along Capitola Road and Campbell Street to vault
  - Reach 3 (San Lorenzo River to WWTF)
    - Alt 6 - Crossing over San Lorenzo River via Riverside Ave bridge or independent structure and route to WWTF along Bay Street
    - Alt 7 - Crossing over San Lorenzo River via Laurel Street bridge and Neary Lagoon
    - Alt 8 - Crossing under San Lorenzo River via microtunneling or HDD

- Discussion of general alignments, relative cost comparisons, constructability, pipe materials, support methods, required easements, and potential environmental permits with agency identified
- Identification of options for upgrading the pump station and the interconnection vault east of the San Lorenzo River
- Identification of 1 to 2 preferred alternatives per reach to be evaluated for feasibility

Work Product

✓ *Draft document in electronic format and four (4) hard copies for District review and discussion purposes. Document will include all work products performed in Tasks 2.1 and 2.2.*

Task 2.3.2 - Draft Alternatives Review Meeting

We recommend an in-person ***alternatives review meeting*** at the District's office following review of the Draft Alternatives Analysis TM deliverable. With respect to timeline and budget constraints, we advocate that most other communications should take place by web conferencing, phone, and email. We anticipate sharing ideas about alternative alignments and upgrades with the District's project manager prior to submittal of the Draft TM. For the meeting to discuss District's review comments on the Draft Alternatives Analysis TM, we recommend attendance of any stakeholders who provided input on alternative selection. We suggest that this meeting be treated as a workshop, rather than a review of the District's comments.

Work Product

✓ *Workshop at District offices to review comments of Draft TM*

Task 2.3.3 Final Alternatives Analysis TM

Following the District's comment period and draft alternatives review meeting/workshop, the team will incorporate comments and finalize the Alternatives Analysis TM. The Final Alternatives Analysis TM will identify the preferred alignment(s) and facility upgrades that will be evaluated in more depth in Task 3, Final Feasibility Study.

Work Product

✓ *PDF and four (4) hard copies of the Final Alternatives Analysis TM*

Task 3 - Final Feasibility Study

During the next phase of work, we will analyze each alternative pipeline alignment and facility upgrade from a technical and feasibility perspective, with the goal of identifying the one best apparent alternative for the project. Below is a summary of the tasks necessary to complete this work.

Task 3.1 - Pump Station Analysis

An analysis of the ***pump station hydraulics*** will be completed for possible future pumping needs. Analyses will include evaluation of a manifold for directing flows from one pipeline to the other, and sizing pumps for achieving the flow and head requirements for either route. As-builts of the pump station and the Lode Street pipeline will be required to complete this analysis. A preliminary site layout will be completed including pipeline configurations, pump sizing, and preliminary design details.

Work Product

- ✓ *The result of hydraulic analyses, a preliminary pump station layout plan showing pipeline manifold, and a preliminary detail sheet will be prepared for insertion into the Draft Feasibility Report*

Task 3.2 - Rail Trestle Analysis

In order to determine whether the rail trestle over Rodeo Gulch can support a sewer force main, an evaluation of the load capacity of the existing structure is required. To perform the ***structural analysis***, a set of as-built drawings showing the structural elements of the bent caps and steel piles of the rail trestle is required. If the District cannot provide this information, only general assumptions will be provided regarding the rail trestle's ability to support the force main. In this case, an independent structure across Rodeo Gulch will be proposed. This task will include renderings of the pipeline on the rail trestle or independent structure and preliminary design details. Two fees have been proposed for this work in the fixed fee budget. One fee is provided for an analysis with the as-builts, and one fee is provided for analysis without as-builts.

Work Product

- ✓ *Results of the structural analysis with preliminary design drawings (plan and profile) of the apparent best alternative will be prepared for insertion into the Draft Feasibility Report*

Task 3.3 - Geotechnical Subsurface Exploration

In discussions with District staff, it was indicated that soils have historically been an issue in Brommer Street. To determine whether soils are conducive to a secondary force main installation, we recommend a ***geotechnical subsurface investigation*** on three (3) boring locations along Brommer Street to be performed by our sub-consultant Crawford & Associates. District staff has also indicated that historical information on soils are available in the area to supplement our analysis. As an optional scope item, we have included a geotechnical analysis at the preferred location for the San Lorenzo River crossing for purposes of determining the feasibility of crossing over or underneath the river.

Work Product

- ✓ *Geotechnical Report*

Task 3.4 - San Lorenzo River Crossing

This task will first analyze the use of an existing structure to cross the San Lorenzo River, for example in the utility openings within the bridge. If the openings are found to be occupied or too small for the force main, a ***detailed analysis*** will be completed to determine feasibility of a ***river crossing*** via an independent structure, such a pipe bridge, or underneath via trenchless methods (e.g. microtunneling or horizontal directional drilling). Coordination with the City and SqCWD will help identify future potential joint projects to share alignments, for example to allow the City to share in a redundant pipeline on an above-ground structure. This task also includes additional renderings and preliminary design details. The preferred river crossing method will be recommended for preliminary design.

Work Product

- ✓ *The results of our review of river crossing alternatives will be tabulated for insertion into the Draft Feasibility Report. The detailed analysis will be performed for the selected apparent best alternative river crossing.*

Task 3.5 - Feasibility Report

Task 3.5.1 - Draft Feasibility Report

The first deliverable in this task intended for District review will be a ***draft feasibility report***. This report will include:

- Further detailed review of alignment and facility upgrade alternatives for a secondary force main
- A discussion of ***permits and land rights*** required for the project
- Preparation of more detailed ***construction cost estimates***
- Renderings and ***preliminary design details***
- Recommendation of the best apparent alternative for the secondary force main and conveyance from the City's interconnection vault (or other means) to the WWTF.

Work Product

- ✓ *Draft document in electronic format and hard copy for District review and discussion purposes. Document will include all work product performed in Tasks 3.1 through 3.4.*
- ✓ *Compilation of a work plan for completing the project will include items identified in both Tasks 2 and 3*

Task 3.5.2 - Draft Feasibility Study Review Meeting

Following the Draft Feasibility Report submittal and District review period, we recommend an in-person ***review meeting*** at the District's office. We recommend attendance of any stakeholders such as the City, SqCWD, and SCCRTC, if necessary, to provide input on the preferred alternative.

Work Product

- ✓ *Workshop at District offices to review comments of Draft Feasibility Study and confirm a recommended alternative*

Task 3.5.3 - Final Feasibility Report

Following the District's comment period and review meeting, the team will incorporate comments and submit the ***Final Feasibility Report***. The final feasibility study will recommend the preferred project for preliminary design, summarized in Task 4. Four (4) hard copies and PDF file will be provided to the District.

Work Product

- ✓ *PDF of Final Feasibility Report, including work plan, cost estimates, exhibits, and details*

Task 4 - Preliminary Design

After a preferred, feasible project has been identified, a ***preliminary design memorandum and 30% plans*** will be prepared. Below is a summary of the tasks necessary to complete this work.

Task 4.1 - Preliminary Design Memorandum

Once a preferred project has been identified through the Feasibility Report, the Preliminary Design Memorandum (PDM) will establish the basis of design and provide a summary of the proposed alignments and facility upgrades, pipe sizes and materials, and any areas of specialty design or construction requirements. Unique features or challenges such as the river and rail crossings, tie-

ins to existing facilities, site constraints, or mitigations for other utilities will be identified and discussed.

Work Product

- ✓ A *Draft Preliminary Design Memo* will be provided for District review

Task 4.2 - Preliminary (30%) Design

To prepare a base map for preliminary design, Quincy will need a topographic survey and verification of existing utilities.

Task 4.2.1 - Topographic Survey

A *topographic survey* including the horizontal and vertical information for all visible features, and the limits of property lines, easements, and right of way will be needed for incorporation into a *base map* for preliminary design. Due to the uncertainties about the quality of the existing topographic survey throughout the City and County of Santa Cruz, it has been assumed for this scope that a ground LiDAR, up to 0.1-ft accuracy, will be performed by R.E.Y Engineering and confirmed through Quincy's field survey team. Depending on the accuracy and completeness of the County's existing LiDAR, the ground LiDAR can potentially be eliminated. However, field survey to verify surface features such rim and invert elevations will still be required unless the District has an on-call surveyor that can provide these services for the project. This scope does not include right of way or easement mapping; however, this can be added as an amendment to the contract once the level of survey required for the project has been further refined.

Work Product

- ✓ *Base map for layout of the preliminary plans*
- ✓ *Survey data points and the AutoCAD drawing of the base map will be provided*

Task 4.2.2 - Utility Coordination

Upon notice to proceed with design from the District, Quincy will initiate utility coordination and communication by sending Utility "A" letters requesting maps and verification of existing facilities from potentially affected utilities. Utility "B" letters which identify claim of liability and cost for positive location of utilities from the potentially affected utilities would typically be completed in a later phase, closer to 65% design, and therefore are not included in this work. Utility "C" letters are sent, if necessary, following 65% design. Thus, Utility "B" and "C" letters are not included in this scope.

Work Product

- ✓ *Documentation from the utility owners responding to our request for locations of possible conflict along the proposed alignment*

Task 4.2.3 - Preliminary (30%) Plans

This task will include the drawings and some preliminary details for the force main alignment and facilities upgrades. They will include plan and profile sheet for the pipeline, and initial plans and sections for the bridges/trestles, interconnection vault, and pump station.

Our scope assumes a minimum of 60 sheets, however, we recommend estimating a fixed budget fee on approximately 75 sheets until the scope can be further refined. For example, depending on the method of river crossing, a complex structural design may be required. Similarly, depending on

the level of upgrades to the pump station, mechanical and electrical drawings may be necessary at the 30% design level.

Work Product

Four (4) half size sets and PDF files of the ***30% Construction Drawings*** will be submitted to the District. AutoCAD drawing files will also be submitted. It is anticipated that the 30% plan sheets will include the following:

- ✓ Cover Sheet (1)
- ✓ Index (1)
- ✓ Abbreviation, Symbols, and Notes (1)
- ✓ Survey Control (1)
- ✓ Force Main Plan and Profile at 1" = 40' scale (40)
- ✓ Pump Station Plan and Section (3)
- ✓ Rail Trestle Crossing Plan and Section (3)
- ✓ River Crossing Plan and Section (3)
- ✓ City Interconnection Vault Plan and Section (4)
- ✓ Typical Details (3)

Task 4.2.4 - Preliminary Plan Review Meeting

Following the submittal of Draft Preliminary Design Report Memo and 30% Plans and the District review period, we recommend an in-person ***review meeting*** at the District's office to review the preliminary plans. We recommend attendance of any stakeholders such as the City, SqCWD, and SCCRTC, if necessary, to provide input on the plans and the basis of design.

Work Product

- ✓ *Meeting Minutes and a list of Action Items*

Task 4.2.5 - Preliminary Design Revisions

Following the District's review of the draft PDM and the preliminary plan review meeting, changes based on District's comments and discussion at the meeting will be incorporated and four hard-copy sets and PDF files of the ***Final PDM and 30% plans,*** including AutoCAD files will be provided to the District.

Work Product

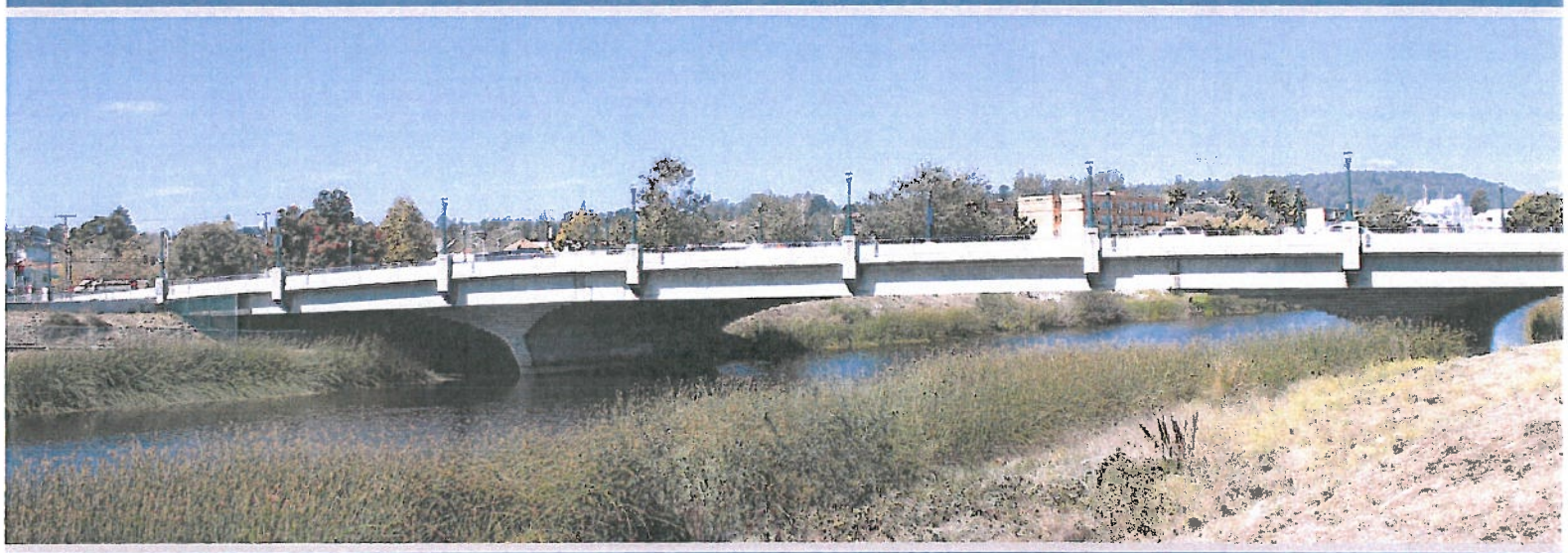
- ✓ *Final Preliminary Design Memo and 30% plans*

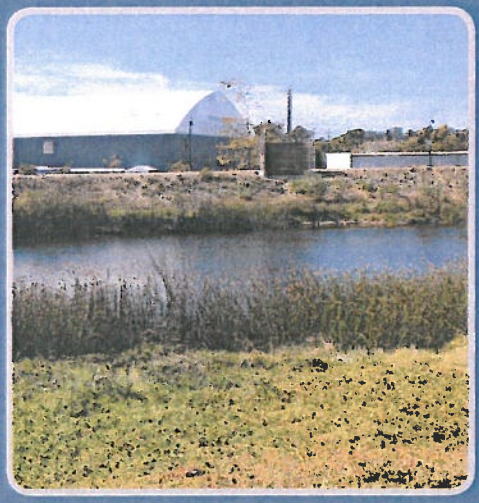
ASSUMPTIONS

- The District will provide to the Quincy Team the plans associated the D.A. Porath Sanitation Facility, City's interconnection vault, and rail trestle.
- District staff will provide all historical geotechnical analyses completed in the project area.
- All right of way agreements will be coordinated by the District.
- Easements will be identified, but any acquisition will be coordinated by the District.
- An in-depth environmental analysis will be completed in a future phase.

Fixed Fee and Fee Schedule

(Included in a Separate Sealed Envelope)





QUINCY ENGINEERING

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Santa Cruz County Sanitation District

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JOHN J. PRESLEIGH, DISTRICT ENGINEER

AGENDA DATE: JUNE 8, 2017

BOARD OF DIRECTORS
SANTA CRUZ COUNTY SANITATION DISTRICT
701 Ocean Street, Room 410
Santa Cruz, California 95060

SUBJECT: GREEN SCHOOLS – O'NEILL SEA ODYSSEY DISTRICT CONTRIBUTION FOR FISCAL YEAR 2017 THROUGH 2021

Members of the Board:

On April 18, 2013, the Santa Cruz County Sanitation District (SCCSD) Board of Directors approved a four-year contract with a $4,500 annual contribution to O'Neill Sea Odyssey from the District's Green Schools Program. On June 11, 2015, your Board approved an annual increase of $2,500 for a total annual amount of $7,000 per fiscal year, through 2017. O'Neill Sea Odyssey (OSO) is an ocean-going ecology and science program for 4th through 6th grade students that uses ocean concepts to achieve educational standards while teaching youth about watersheds that flow to the sea and their responsibility to protect them. Water quality, including appropriate use of the sanitary sewer system, are taught in OSO's ecology unit and reinforced through OSO's free curriculum used by area schools.

OSO's mission is to provide a hands-on educational experience to encourage the protection and preservation of our living sea and communities. OSO teaches driveway-to-the-sea watershed stewardship and advocacy to youth. It is free of charge, and each class completes a community service project, which directly achieve stormwater education goals by conducting river or beach cleanups or riparian restoration. Over 90,000 youth have been served, and OSO is on track to serve 100,000 youth by 2018. While OSO's goals are environmental, its curriculum is aligned with California State and Federal education standards.

The four-year contract with OSO was approved by the Santa Cruz County Board of Supervisors in the total amount of $30,000 per fiscal year in order to consolidate contributions from the Public Works Department, Solid Waste and Stormwater sections, and the Zone 5 Flood Control and Water Conservation District Board.

Your Board is being asked to approve an increase of $2,500 to the District's annual contribution for a total annual cost of $9,500 from the proposed 2017/18 SCCSD Public Outreach Budget (GL Key 625175). Final contract approval is contingent upon your Board's approval of the 2017/18 fiscal year budget.

It is therefore recommended that your Board approve a $9,500 annual contribution to O'Neill Sea Odyssey, for the remainder of the contract term, contingent upon Board approval of the 2017/18 SCCSD budget.

Yours truly,

JOHN J. PRESLEIGH
District Engineer

AMR:dls/b1885

Attachments

3

O'Neill Sea Odyssey

Contract Number

Cost Breakdown

	FY 17/18 - FY 20/21	11% OH	Total	Accounting Codes
Flood Control and Water Conservation District, Zone 5	$ 3,334.00	$ 366.74	$ 3,700.74	622350 25903 3665 3590
Flood Control and Water Conservation District	$ 3,333.00	$ 366.63	$ 3,699.63	135462 25211 3665 3590
Pajaro Storm Drain Maintenance District	$ 3,333.00	$ 366.63	$ 3,699.63	622245 24832 3665 3590
Recyling and Solid Waste	$ 10,500.00	$ 1,155.00	$ 11,655.00	325110 51327 3665 3590
Sanitation District	$ 9,500.00	$ 1,045.00	$ 10,545.00	625175 53107 3665 3590
	$ 30,000.00	$ 3,300.00	$ 33,300.00	

14-3

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March 1, 2017

Ms. Ana Maria Rebelo
Sustainability Program Coordinator
County of Santa Cruz Public Works Department
701 Ocean Street, 4th Floor
Santa Cruz, CA 95060

Mr. John Ricker
Water Resources Director
County of Santa Cruz Environmental Health Department
701 Ocean Street, 3rd Floor
Santa Cruz, CA 95060

Dear Ms. Rebelo and Mr. Ricker:

I am writing to provide you with 1) a report on achievement of the goals for your FYE17 grant of $25,000 from Public Works, and $5,000 from Environmental Health, for the 4th year of a 4 year contract between the County of Santa Cruz and O'Neill Sea Odyssey (OSO), and 2) a request for a new 4 year contract, for $30,000 from Public Works and $5,000 from Environmental Health and a proposed FYE18 scope of work.

Program summary: OSO engages 4th - 6th grade youth with a watershed and science education field trip on a 65-foot catamaran sailing Monterey Bay, and in a shore-side education center, in addition to ocean curriculum provided for the classroom. The program is free, and each class completes a community service project. The program achieves science standards using ocean concepts while teaching youth about watersheds, and their responsibility to protect them. *OSO's mission is to provide a hands-on educational experience to encourage the protection and preservation of our living sea and communities.* Over 90,000 students have been served, and we are track to serve 100,000 by the end of 2018.

The program was founded in 1996, and in December 2004 it received the California Governor's Environmental and Economic Leadership Award, in May 2005 US Senator Barbara Boxer's Environmental Champion award and in 2013 the Silicon Valley Business Journal bestowed its Community Impact Award. In August 2009 OSO's Adam Webster Memorial Fund received the Community Spinners award from the Special Parents Information Network for its work with special needs youth. In 2010, OSO was certified as a Green Business, and in 2016 worked with the City of Santa Cruz on re-certification.

Non-point source pollution: O'Neill Sea Odyssey provides science education with an outcome to prevent pollution from urban runoff focused that flows through storm drains and watersheds, to the ocean. Because such stewardship takes place in their neighborhood, youth will feel pride and investment in their neighborhood and understand their own role in it. As the participating youth learn that the results of their stewardship impact something so substantial – the ocean – they will feel empowered and will have pride in their roles as stewards and advocates.

1) REPORT ON ACTIVITIES AND OUTCOMES:

Student survey results: The OSO Student Survey showed that the program was effective in promoting substantial increases in students' environmental awareness. Before participating, an average of 73% of students agreed with the survey questions overall. After attending, this percentage increased to 95%. When student surveys were divided by income level, results showed that all groups of students increased their environmental knowledge after attending the program. The students from lower and middle income groups generally had lower overall levels of agreement (73% and 71%, respectively) before the program started than the higher income groups (80%). All groups were at 95% after the program. When teachers and group leaders were asked, 100% said that their students "learned a lot" from the program.

66% of students were receiving free or reduced price lunches. Seventy-three percent of all teachers/group leaders reported that they had used the online teaching materials provided on the website before their trip, and nearly all of the teachers intended to use the online teaching materials in the classroom after the trip. O'Neill Sea Odyssey, working with the Pepper College Readiness Network, this month launch its classroom, ocean-based curriculum on Pepper's national web-based platform.

Number of youth served in the unincorporated area: The FYE17 grant partially funded 13 classes, or 370 students, in the county's unincorporated area with non-point source pollution prevention education.

Community service projects to reduce non-point source pollution: 13 community service projects have been or are being conducted by school classes in the unincorporated in FYE17 resulting in direct reductions in non-point source pollution. Besides achieving Santa Cruz County zero waste and water quality outcomes, these projects instill a sense of stewardship in youth, their teachers and their families.

Long term impact of program: In 2013, San Jose State University master's candidate and OSO instructor Lauren Hanneman finished her study of OSO's long term impact, finding that 75% of youth who had participated in OSO 5-7 years before retained knowledge and actions they had learned relative to non-point source pollution learned in OSO's ecology class.

Collaboration: OSO continues to work with Save Our Shores, the Coastal Watershed Council, Watsonville Wetlands Watch and other organizations to increase our audience and share strategies.

2) PROPOSED FYE17 SCOPE OF WORK:

Proposed goals: O'Neill Sea Odyssey proposes three goals for 15 classes served in FYE18: 1) 75% of participants will understand how non-point source pollution works and will take steps to prevent it, and 2) 75% of participants will advocate non-point source pollution prevention to families and friends.

FYE18 Tasks:

	Start date	End date	Budget
Ocean field trip	July 1	June 30	$35,000
Community service projects	July 1	June 30	$0
Classroom curriculum	July 1	June 30	$0

If you have any questions, please do not hesitate to contact me at (831) 465-9390. Thank you!

Sincerely,

Dan Haifley
Executive Director

Attachments: SC County funded classes FYE17
W-9 FYE18
Budget FYE18
Insurance certificate FYE18

Santa Cruz County Sanitation District

701 OCEAN STREET, SUITE 410, SANTA CRUZ, CA 95060-4073
(831) 454-2160 FAX (831) 454-2089 TDD: (831) 454-2123

JOHN J. PRESLEIGH, DISTRICT ENGINEER

AGENDA DATE: JUNE 8, 2017

BOARD OF DIRECTORS
SANTA CRUZ COUNTY SANITATION DISTRICT
701 Ocean Street, Room 410
Santa Cruz, California 95060

SUBJECT: GREEN BUSINESS CONTRACT WITH ENVIRONMENTAL INNOVATIONS

Members of the Board:

On August 26, 2003, the County of Santa Cruz Board of Supervisors approved implementation of a Green Business Program (GBP) that certifies potential businesses that go above and beyond on green business practices. The GBP is endorsed by the United States Environmental Protection Agency and the Department of Toxic Substances Control. This program is a multi-media (soil, water, and air) pollution prevention effort and it is intended to create a positive relationship between government, the public, and the business community while educating local commercial establishments on how to meet and exceed minimum environmental standards and conserve natural resources.

The Santa Cruz County Sanitation District (District), Stormwater, and Recycling and Solid Waste Services have jointly funded the program since its inception. As staff have been reorganized in Public Works, it is recommended that the department hire Environmental Innovations (EI) to manage the GBP program. EI is an expert in the field of green business, with over 15 years of experience helping over 20 California jurisdictions start their Green Business program, including the County's.

Attached for your review is the Green Business budget. The total contract with Environmental Innovations is for a not-to-exceed amount of $75,000 for Fiscal Year 2017/18. Funding for this contract will be shared between the District, Stormwater, and Recycling and Solid Waste Services. The funding for this contract is included in the proposed FY 2017/2018 budget, in GL key 625175.

Your Board is being asked to consider approving funding $50,000 of the total contract amount. The remaining amounts of $1,250 was approved on June 6, 2017, by the Zone 5 Flood Control and Water Conservation District Board of Directors and the County Board of Supervisors also approved the remaining $23,750 funding at the same meeting. There are sufficient funds in the District's budget.

It is therefore recommended that the Board of Directors approve funding the remaining $50,000 for a contract with Environmental Innovations for auditing, certification and public outreach for the Green Business Program for Fiscal Year 2017-2018 for a not-to-exceed total of $75,000.

Yours truly,

JOHN J. PRESLEIGH
District Engineer

AMR:dls/B1896

Attachment

GREEN BUSINESS PROGRAM CONTRACT WITH ENVIRONMENTAL INNOVATIONS BUDGET BREAKDOWN

Cost Breakdown	FY 17/18	11% OH	Total	Accounting Codes			
County wide Flood Control District	$ 2,500.00	$ 275.00	$ 2,775.00	135462	25266	3665	3590
Zone 5 Flood Control District	$ 1,250.00	$ 137.50	$ 1,387.50	622350	25905	3665	3590
Pajaro Storm Drain Maintenance District	$ 1,250.00	$ 137.50	$ 1,387.50	622245	24832	3665	3590
Recyling and Solid Waste	$ 20,000.00	$ 2,200.00	$ 22,200.00	325110	51327	3665	3590
Sanitation District	$ 50,000.00	$ 5,500.00	$ 55,500.00	625175	53107	3665	3590
	$ 75,000.00	$ 8,250.00	$ 83,250.00				

15-3

RECEIVED
MAY 1 5 2017
Santa Cruz County
Sanitation District

ROUTED TO:
√ Dist. Eng.
__Oper. Mgr.
__Env.Pro.Co.
__Fiscal
√ Asst. D.E.
√ San. Eng.
__Construction
Next Agenda
√ TBM
√ AMM
*rec'd original

Terra Prestwich

From: Lyn Hood <lyhood@cabrillo.edu>
Sent: Thursday, May 11, 2017 9:53 PM
To: SCCSDWEB
Cc: John Leopold
Subject: To SCCSD Board: Proposed rate increase

Dear Santa Cruz County Sanitation District Board,

I am writing to oppose the Sanitation Districts proposed rate increase.
It is my understanding that Proposition 218 (now article 13D of the California Constitution) requires sewer bills be proportional to the cost to serve the parcel. You need to set a rate based on winter water usage to be fair and proportional to the households you serve.

Thank you,

Lyn Hood
36th Ave
Sana Cruz, 95062

16-1

Lynn Scally

From: Terra Prestwich
Sent: Thursday, June 01, 2017 1:52 PM
To: Lynn Scally
Subject: FW: Public Comment: LOW WATER USE PROGRAM

From: Kent Edler
Sent: Monday, May 15, 2017 5:17 PM
To: 'beauk13@hotmail.com' <beauk13@hotmail.com>
Cc: John Presleigh <John.Presleigh@santacruzcounty.us>; Lynn Scally <Lynn.Scally@santacruzcounty.us>; Colt Esenwein <Colt.Esenwein@santacruzcounty.us>; Terra Prestwich <Terra.Prestwich@santacruzcounty.us>; Amy Miyakusu <Amy.Miyakusu@santacruzcounty.us>; Zach Friend <Zach.Friend@santacruzcounty.us>; John Leopold <John.Leopold@santacruzcounty.us>; 'STEPHANIE HARLAN' <slharlan@sbcglobal.net>
Subject: RE: Public Comment: LOW WATER USE PROGRAM

Hello Mr. Kayser,
Please see our responses to your questions below in red.

Thanks,

Kent Edler, P.E.
Santa Cruz County Department of Public Works
Santa Cruz County Sanitation District
701 Ocean St. Room 410
Santa Cruz, CA 95060
(831) 454-2160

From: Beau Kayser [mailto:beauk13@hotmail.com]
Sent: Wednesday, May 03, 2017 8:57 PM
To: Friend, Zach (zach.friend@co.santa-cruz.ca.us) <zach.friend@co.santa-cruz.ca.us>; john.leopold@co.santa-cruz.ca.us; Harlan, Stephanie (sharlan@ci.capitola.ca.us) <sharlan@ci.capitola.ca.us>; John.Presleigh@santacruzcounty.us; amy.miyakusu@santacruzcounty.us
Subject: Public Comment: LOW WATER USE PROGRAM

Dear Santa Cruz County Sanitation District Board Members Harland, Friend, Leopold and District Engineer Preleigh,

I am writing to express my disappointment that the District and Board is considering to eliminate the low water use rate program based on the Director's recommendation. The reasoning stated for this elimination is that continuation of the program "poses a potential risk to the District's ability to adequately maintain its sewer system."

16-2

I feel that the District's reasoning for elimination of this program is not transparent, and vague at best. Would you please share with your customers the analysis that the District performed to come to this conclusion. Specifically:

- How many customers participated in this program in 2016/7? **788**
- How many of these customers were from dwellings used for vacation rental or summer use? **Unknown**
- How much money does the District not collect by providing this annual program? **The District collects the same amount of money regardless of whether or not the program is implemented.**

Thank you,
Beau Kayser
2163 Francesco Circle
Capitola, CA 95010

16-3

RECEIVED
MAY 15 2017
Santa Cruz County
Sanitation District

ROUTED TO:
✓Dist. Eng. via email
__Oper. Mgr.
__Env.Pro.Co.
__Fiscal
✓Asst. D.E. email
✓San. Eng. email
__Construction
__Next Agenda
✓TBM
✓AM email
*rec'd original

Terra Prestwich

From: Randy Venn (ravenn) <ravenn@cisco.com>
Sent: Thursday, May 11, 2017 11:51 AM
To: SCCSDWEB
Subject: Rates and proposed increase

Dear Sanitation department –
It has come to our attention that you will be not charging Pleasure Point/Live Oak residents the correct amount which should be based on water usage during winter months.
Please use that method to calculate what is owed and not a "peanut butter" approach of spreading it equally among all of the residents.

Thank you and warmest regards,

Randall Venn

Sr. Program Mgr.
GMO
1 831 331-6858

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Please click here for Company Registration information.

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