



ORIGINAL

PROPOSAL FOR:
**SLANT WELL INTAKE
SYSTEM - CIVIL WORK**

Monterey Peninsula Water Supply Project

CALIFORNIA AMERICAN WATER
511 FOREST LODGE ROAD, SUITE 100
PACIFIC GROVE, CA 93950



SUBMITTED BY:
Garney Companies, Inc.
324 E 11th Street, Suite E2
Tracy, CA 95376



TABLE OF CONTENTS

Section

1 EXECUTIVE SUMMARY

PROPOSAL FORM 1: TRANSMITTAL LETTER
ATTACHMENT 1: CERTIFICATE OF AUTHORIZATION
ATTACHMENT 2: PROPOSER'S PROJECT TEAM
ATTACHMENT 3: APPLICABLE LICENSES
PROPOSAL FORM 2: NON-COLLUSION AFFIDAVIT
PROPOSAL FORM 3: DISCLAIMER STATEMENT

2 PROJECT TEAM INFORMATION

PROPOSAL FORM 4: KEY PERSONNEL

3 TECHNICAL PROPOSAL

PROPOSAL FORM 5: MILESTONES
PROJECT SCHEDULE

4 BUSINESS & PRICE PROPOSAL

ATTACHMENT C: BID PACKAGES
PROPOSAL FORM 6: ACCEPTANCE OF CONTRACT
DBE INFORMATION

APPENDIX

RESUMES
FRAC OUT SAMPLE PLAN

With more than five decades of experience in the water industry and 100% employee ownership, we know what it takes to get the job done. We know projects aren't always straightforward. You want a partner that can think creatively and work efficiently to give you the project you want for your budget. You want Garney.



→

TAB 1



A. PROPOSAL FORM 1: TRANSMITTAL LETTER

July 29, 2018

CALIFORNIA AMERICAN WATER
511 Forest Lodge Road, Suite 100
Pacific Grove, CALIFORNIA 93950
Attn: Lori Girard, Corporate Counsel

Re: Monterey Peninsula Water Supply Project – Slant Well Intake System - Civil Work

Dear Sir/Madam:

Garney Pacific, Inc. (the “Proposer” or “Garney”) hereby submits its Proposal in response to the Request for Proposals for the Monterey Peninsula Water Supply Project Slant Well Civil Work (the “RFP”) issued by California-American Water Company (“CAWC”) on May 31, 2019, as amended.

As a duly authorized representative of the Proposer, I hereby certify, represent, and warrant, on behalf of the Proposer team, as follows in connection with the Proposal:

1. The Proposer acknowledges receipt of the RFP and the following addenda:

No.	Date
1	July 2, 2019
2	July 10, 2019
3	July 18, 2019

5.2.3.1.1 The submittal of the Proposal has been duly authorized by, and in all respects is binding upon, the Proposer. Attachment 1 to this Transmittal Letter is a Certificate of Authorization which evidences my authority to submit the Proposal and bind the Proposer.

5.2.3.1.2 All information and statements contained in the Proposal are current, correct and complete, and are made with full knowledge that CAWC will rely on such information and statements in selecting the most advantageous Proposal to CAWC and executing the Contract.

5.2.3.1.3 Attachment 2 to this Transmittal Letter sets forth the Proposer’s Project team and identifies each team member’s proposed role with respect to the Project. Attachment 3 to this Transmittal Letter provides licensing information for each Project team member.

5.2.3.1.4 Not used.



5.2.3.1.5 Not used.

5.2.3.1.6 Not used.

5.2.3.1.7 Neither the Proposer nor any Project team member is currently suspended or debarred from doing business in the State of California.

5.2.3.1.8 There is no action, suit or proceeding, at law or in equity, before any court or similar governmental body, against the Proposer, wherein an unfavorable decision, ruling, or finding would have a materially adverse effect on the ability of the Proposer to perform their respective obligations under the Contract or the other transactions contemplated hereby, or which, in any way, would have a materially adverse effect on the validity or enforceability of the obligations proposed to be undertaken by the Proposer, or any Contract or instrument entered into by the Proposer in connection with the transactions contemplated hereby.

5.2.3.1.9 No corporation, partnership, individual or association, officer, director, employee, manager, parent, subsidiary, affiliate, or principal shareholder of the Proposer has been adjudicated to be in violation of any state or federal anti-trust or similar statute within the preceding five years, or previously adjudged in contempt of any court order enforcing such laws.

5.2.3.1.10 The Proposer and all Project team members have reviewed all of the engagements and pending engagements of the Proposer and all Project team members and no potential exists for any conflict of interest or unfair advantage.

5.2.3.1.11 No person or selling agency has been employed or retained to solicit the award of the Contract under an arrangement for a commission, percentage, brokerage, or contingency fee or on any other success fee basis, except bona fide employees of the Proposer.

5.2.3.1.12 The principal contact person who will serve as the interface between CAWC and the Proposer for all communications is:

PRINCIPAL CONTACT	Name:	Bill E. Williams
	Title:	Senior Vice President
	Address:	324 E. 11th St, Suite E2 Tracy, CA 95376
	Phone:	925.800.1847
	Fax:	209.229.1870
	Email:	bewilliams@garney.com

5.2.3.1.13 The key technical and legal representatives available to provide timely response to written inquiries submitted and to attend meetings requested by CAWC are:

TECHNICAL REPRESENTATIVE	Name:	Kevin Downs
	Title:	Overall Project Manager
	Address:	324 E. 11th St, Suite E2 Tracy, CA 95376
	Phone:	925.800.1847
	Fax:	209.229.1870
	Email:	kdowns@garney.com



LEGAL REPRESENTATIVE

Name: Mike Strong
Title: General Counsel
Address: 1333 NW Vivion Road, Kansas City, MO 64118
Phone: 816.746.7225
Fax: 816.278.5958
Email: mstrong@garney.com

5.2.3.1.14 The Proposer has carefully examined all documents constituting the RFP and the addenda thereto.

5.2.3.1.15 The Contract in the form issued with this RFP is agreed to, except where changes have been requested in Proposal Form 6 and such changes have been indicated as conditions of the Proposal.

5.2.3.1.16 If selected, the Proposer agrees to negotiate in good faith to enter into a Contract that reflects the substantive terms and conditions of the RFP and the Proposal.

5.2.3.1.17 The Proposer has submitted all Proposal Forms and applicable bid packages and such Proposal Forms and applicable bid packages are a part of this Proposal.

Having carefully examined the RFP and all other documents bound therewith, together with all addenda thereto, all information made available by CAWC, and being familiar with the Project (as described in the RFP and the Contract) and the various conditions affecting the work, the Proposer hereby offers to furnish all labor, materials, supplies, equipment, facilities, and services which are necessary, proper, or incidental to carry out such work as required by and in strict accordance with the RFP and the Proposal, all for the prices set forth in the submitted bid packages.



Name of Proposer: Garney Pacific, Inc.
Name of Designated Signatory: Bill E. Williams
Signature: 
Title: Senior Vice President

Note: If this Proposal is being submitted by a corporation, the Proposal shall be executed in the corporate name by the president or other corporate officer with authority to bind the corporation, and the corporate seal shall be affixed and attested to by the clerk. A certificate of the secretary of the corporation evidencing the officer's authority to execute the Proposal shall be attached.

Monterey Peninsula Water Supply Project
Request for Proposals for the Slant Well Intake System – Civil Work

(Use State-Appropriate form for Notary Public)

State of California

County of San Joaquin

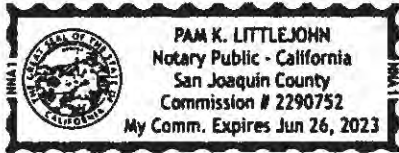
On this 29th day of July, 2019, before me appeared Bill E.

Williams, who is **Senior Vice President of Garney Pacific, Inc., a California General Contractor**, personally known to me to be the person described in and who executed this Transmittal Letter and acknowledged that she/he signed the same freely and voluntarily the uses and purposes therein described.

In witness thereof, I have hereunto set my hand and affixed my official seal the day and year written above.

Pam K. Littlejohn

Notary Public in and for the State of CA
(Seal)



Pam K. Littlejohn
(Name Printed)

Residing at 324 E. 11th St., Ste E2, Tracy, CA

Commission Number 2290752

Attachment 1

CERTIFICATE OF AUTHORIZATION*

I, Kevin Downs, a resident of **Wilton** in the State of **California**, DO HEREBY CERTIFY that I am the Clerk/Secretary of Garney Pacific, Inc., a [corporation] duly organized and existing under and by virtue of the laws of **California**; that I have custody of the records of such [corporation]; and that as of the date of this certification, **Bill E. Williams** holds the title of Senior **Vice President** of the [corporation], and is authorized to execute and deliver in the name and on behalf of the [corporation] the Proposal submitted by the [corporation] in response to the Request for Proposals for Monterey Peninsula Water Supply Project Slant Well Civil Work, issued by California-American Water Company on May 31, 2019, as amended; and all documents, letters, certificates and other instruments which have been executed by such officer on behalf of the [corporation] in connection therewith.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the [corporate] seal of the [corporation] this 29th day of July 2019.

(Affix Seal Here)



A handwritten signature in blue ink, appearing to read "Kevin Downs", written over a horizontal line.

Clerk/Secretary

** Note: Separate certifications shall be submitted if more than one corporate officer has executed documents as part of the Proposal. Proposers shall make appropriate conforming modifications to this Certificate in the event that the signatory's address is outside of the United States.*

LEGAL EVIDENCE OF AUTHORITY TO EXECUTE PROPOSAL FORMS



ADVANCING WATER

CERTIFIED COPY OF RESOLUTION

OF

BOARD OF DIRECTORS

OF


GARNEY PACIFIC, INC.

The undersigned, Meggan Kruse hereby certifies that she is the duly elected and qualified Secretary of the Garney Pacific, Inc. a California Corporation (the "Company"), and that as Secretary, she maintains the records and the corporate seal of the Company. The undersigned further certifies that the following is a true and correct copy of the resolutions adopted by the unanimous consent of the members of the Board of Directors of the Company on the 1st day of January, 2015 and that such resolutions are now in full force and effect:

RESOLVED: That Bill E. Williams is hereby recognized as Senior Vice President of the Corporation to serve until the next annual meeting of the Directors and authorized and instructed to execute and deliver on behalf of the Corporation and its name, contracts, offers and bids pertaining to contracting and construction work to be performed by the Company.

IN WITNESS WHEREOF, the undersigned has hereby affixed her name as Secretary and caused the corporate seal of the Company to be affixed hereto this 4th day of August, 2015.




Meggan Kruse, Corporate Secretary

3049 Independence Drive, Suite E ♦ Livermore, California 94551
Phone: (925) 800-1848 ♦ Fax: (925) 800-1846

**Monterey Peninsula Water Supply Project
Request for Proposals for the Slant Well Intake System – Civil Work**

Attachment 2

PROJECT TEAM MEMBER LIST

Proposals shall identify the names and roles of the Proposer and any Significant Subcontractors and all other Project team members identified to date:

NAME:

ROLE:

Garney Pacific, Inc.

General Contractor

Northern Directional Drilling

HDD Subcontractor

Darrel Varni Electric

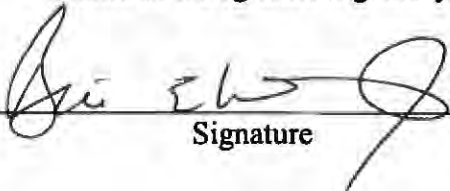
Electrical Subcontractor

Garney Pacific, Inc.

Name of Proposer

Bill E. Williams

Name of Designated Signatory



Signature

Vice President

Title



**Monterey Peninsula Water Supply Project
Request for Proposals for the Slant Well Intake System – Civil Work**

Attachment 3

PROJECT TEAM LICENSE LIST

Attach corresponding copies of applicable licenses

License No.	Classification	Name of Licensee	Renewal Date	Active (Yes/No)
999415	A	Garney Pacific, Inc.	12/21/2020	Yes
915332	A	Northern Directional Drilling	1/31/2020	Yes
735622	C10 - Electrical	Darrel Varni Electric	12/30/2020	Yes

PROPOSAL FORM 2

NON-COLLUSION AFFIDAVIT

STATE OF California)
): SS.:
COUNTY OF San Joaquin)

I, Bill E. Williams a resident of **Livermore**, in the State of California, of full age, being duly sworn according to law, on my oath depose and say that:

5.2.3.1.17.1.1.1.1 I am the **Senior Vice President of Garney Pacific, Inc.**, formed in the state of **California**, the Proposer making the Proposal in response to the Request for Proposals for the Monterey Peninsula Water Supply Project Slant Well Civil Work issued by California-American Water Company on May 31, 2019, as amended, and that I executed said Proposal with full authority to do so;

5.2.3.1.17.1.1.1.2 The prices in this Proposal have been arrived at independently without collusion, fraud, consultation, communication, or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any other Proposer or with any competitor;

5.2.3.1.17.1.1.1.3 Unless otherwise required by law, the prices which have been quoted in this Proposal have not been knowingly disclosed by the Proposer and will not knowingly be disclosed by the Proposer prior to opening, directly or indirectly, to any other Proposer or to any competitor; and

5.2.3.1.17.1.1.1.4 No attempt has been made or will be made by the Proposer to induce any other person or entity to submit or not to submit a Proposal for the purpose of restricting competition.

I, hereby affirm under the penalties of perjury that the foregoing statements are true.

Garney Pacific, Inc.
Name of Proposer

Bill E. Williams
Name of Designated Signatory


Signature

Senior Vice President
Title



Monterey Peninsula Water Supply Project
Request for Proposals for the Slant Well Intake System – Civil Work

(Use State-Appropriate Form for Notary Public)

State of California

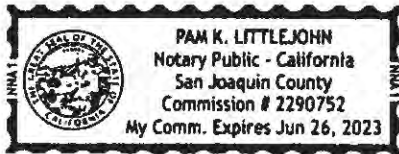
County of San Joaquin

On this 29th day of July 2019, before me appeared **Bill E. Williams**, who is **Senior Vice President of Garney Pacific, Inc.**, a **California General Contractor**, personally known to me to be the person described in and who executed this Transmittal Letter and acknowledged that she/he signed the same freely and voluntarily for the uses and purposes therein described.

In witness thereof, I have hereunto set my hand and affixed my official seal the day and year last written above.

Pam K. Littlejohn

Notary Public in and for the State of CA



Pam K. Littlejohn
(Name Printed)

Residing at 324 E. 11th St., Ste E2, Tracy, CA

Commission Number 2290752

**Monterey Peninsula Water Supply Project
Request for Proposals for the Slant Well Intake System – Civil Work**

PROPOSAL FORM 3

DISCLAIMER STATEMENT

The information contained in or otherwise provided in connection with the Request for Proposals for the Monterey Peninsula Water Supply Project Slant Well Civil Work (the "RFP") issued by California-American Water Company ("CAWC") on May 31, 2019, as amended, has been prepared by CAWC and, while such information is believed to be accurate and reliable, except as otherwise expressly set forth in the RFP, CAWC makes no representation as to such accuracy or reliability. In no way shall any such information constitute a representation or warranty by CAWC or any of its officials, employees, agents, consultants, attorneys, representatives, contractors, or subcontractors (the "CAWC Representatives"). The Proposer hereby releases and forever discharges CAWC and the CAWC Representatives from any and all claims which such Proposer has, had or may hereafter have arising out of any information contained in or otherwise provided in connection with the RFP. Any party who intends to submit a response to this RFP is specifically invited to independently verify the accuracy of the information contained herein.

Garney Pacific, Inc.

Name of Proposer

Bill E. Williams

Name of Designated Signatory



Bill E. Williams
Signature

Senior Vice President

Title



B. EXECUTIVE SUMMARY

UNDERSTANDING OF THE RFP

Garney understands that California American Water (CAW) is continuing the development of a new water system for the Monterey Peninsula. The Project will include site grading and access roads for the installation of seven slant wells at five well sites drilled by others, the installation of 2,720 LF of 36" feedwater pipeline, using a horizontal directional drilling (HDD) method for 700LF of that pipeline. The well sites will require mechanical piping, electrical, and instrumentation work including utility vaults and electrical enclosures, duct bank and fiber optic conduit trenching and installation, the installation of two surge tanks, and site start-up and testing coordination within the Cemex sand mining site located in the City of Marina.

Garney has the relevant experience and proven ability to provide solutions to deliver critical projects on time and on budget, while maintaining a high-quality performance. This proposal demonstrates how the Garney team will work to achieve these goals in partnership with CAW.

WORKING WITHIN AN ACTIVE QUARRY

Our proposed team has the proven experience of working within confined access easements and limits of construction safely and efficiently on the MPWSP. All employees and subcontractors engaging in work on the site are or will be MSHA trained prior to access the site.

VALUE ENGINEERING

Our previous experience with CAWC on the MPWSP has proven our team's ability to be innovative, refine the design, and provide alternatives to ensure that CAWC focuses spending in areas where the best long term value is received. This process allows for consideration of cost economies, schedule economies, life-cycle values, and operation and maintenance cost impacts.

BUDGET

The project must be completed on-budget to minimize rate increases to the end users. Our collaborative process helps make sure that CAWC and its customers receive the best value for every dollar they invest in the project.

SCHEDULE

This project must be completed by the time the 95-10 order is in effect to provide a stable water supply for the CAWC Monterey service area. Garney has a proven track record for meeting challenging schedule milestones on large construction programs. This experience will allow Garney to support CAWC in obtaining a stable water supply. A critical path schedule is provided at the end of Section 3 - Technical Proposal.

SAFETY

It is evident that CAWC takes safety on their projects very seriously. Garney's exemplary safety record and strong safety culture is a perfect fit for this key element of the project. You will find that safety is truly number one with Garney and that safety will never be sacrificed for productivity.

QUALITY

This program represents a significant investment. It is imperative that CAWC and its customers receive a high quality program built to stand the test of time. Providing an on-site QA/QC Manager will ensure quality across the project.







WMDVBE AND LOCAL COMMITMENT

Garney has a proven approach to meeting these goals. Our local experience in this market will assist in attracting the very best work force and subcontractors.

PROJECT TEAM

The key Garney team members proposed for this project, have a combined industry experience of 150 years. They are based locally and are experienced working in the Monterey, San Benito, and Santa Cruz areas.

Kevin Downs will lead the group as Overall Project Manager, with executive leadership support provided by Bill E. Williams, daily boots on the ground guidance by Superintendent - Brian Thompson, consistent quality control provided by QA/QC Manager - Greg Lutes, and start-up leadership by Commissioning Manager- Sean Summers. This group understands CAWC's needs for the project and commits to providing the highest service.

PROPOSED POSITION	PROPOSED PROJECT TEAM ROLES	
EXECUTIVE & PROGRAM LEADERSHIP		BILL WILLIAMS will be responsible for all aspects of client satisfaction, quality, safety, and schedule, with a focus on integrating the various work elements of the project. Bill will be the primary point of contact for CAWC. He will have the authority to ensure the necessary resources are available and dedicated to the success of this project.
OVERALL PROJECT MANAGER		KEVIN DOWNS will be responsible for the day-to-day operations of the project including scheduling, cost tracking, purchasing of materials, subcontracting, and billing. He will have daily involvement with design change tracking, RFI's to ensure the project is built in accordance with the latest design updates. Kevin will be involved from the onset of the project through final completion.
PROJECT / COMMISSIONING MANAGER		SEAN SUMMERS will be responsible for commissioning and start-up of the project. He has been responsible for commissioning on previous pipelines and will bring his start-up experience and insight to the project team.
SUPERINTENDENT		BRIAN THOMPSON will be involved in all on-site activities. He will provide the daily coordination of Garney crews, subcontractors, and equipment deliveries for all work phases of the project. Brian will be involved from the onset of the project through final completion.
SAFETY MANAGER		JOSH GALLAGHER will assist the team with the development and implementation of the site-specific safety plan. He will make regularly scheduled site visits to assist the team with the implementation of these safety plans and any with any new challenges that may arise.
QA/QC MANAGER		GREG LUTES will be responsible for daily quality on the project. He will verify that documentation control, project specific work preparation forms, inspection records, testing certifications, and commissioning certificates are strictly complied with. Greg will also perform inspections on subcontractors to confirm that they adhere to the quality control standards for the MPWSP.

PROPOSED PROCESSES

The project execution plan will be perfected in correlation with how the design and specifications change to fulfill CAWC's ultimate requirements.

The attached critical path schedule included at the end of Section 3 is reflective of the baseline of our proposed processes related to the current design and specifications. Garney's strength is its flexibility in adapting our execution plan to incorporate the owner's preferences in order to deliver the ultimate project solution. Key focus areas for each phase are identified below:

Preconstruction

- + **Stakeholder Coordination** - Begin engaging with stakeholders immediately and maintain communication through preconstruction and construction.
- + **Permit Acquisition** - Secure permits early to allow more flexibility in the overall schedule by granting access to areas of work as early as possible and build momentum toward construction.
- + **Long Lead Electrical** - Contact PG&E regarding the new power service early to get ahead of their long permitting / engineering process.
- + **Electrical Components** - Procure several of the electrical components that have a 24-36 week lead time for both submittals and procurement to stay on schedule. Complete electrical coordination study well in advance of procurement to ensure a complete working system.
- + **Mechanical Components** - Procure early submittals and approval for major mechanical components with 18-24 week lead times. AIS compliant valves, fusion bonded epoxy fittings, surge tanks, and precast vaults.

Construction

- + **Stakeholder Coordination** - Continue communication to inform the public of construction activities and schedule, along with any changes or updates to progress. Engage in MSHA training and coordination with the active Cemex Sand Mine.

- + **Schedule Execution** - Execute the schedule developed during preconstruction while continuing to look ahead and mitigate any schedule deviation.

- + **Quality of the work** - Focus on quality craftsmanship to eliminate re-work, maintain the project schedule, and streamline the next phase of the project.

- + **Boart Longyear Drilling** - Coordinate access road and staging for the pre-determined drilling contractor. Garney has utilized the schedule durations provided in the Boart Longyear proposal shown on the MPWSP website.

Commissioning and Testing

- + **Pipeline Pressure Testing**. Complete pressure testing of the entire slant well intake system.

- + **Electrical & Instrumentation** - Complete all electrical equipment testing and system integration for a complete working system. A detailed Start up and testing plan will be prepared well in advance to ensure compliance with the specifications and CAWC standards.

- + **CAWC Staff Training** - Ensure that operating knowledge is passed to CAWC staff.

- + **OEM Manuals** - Ensure owner has manuals, understands the language, and understands equipment programming. Sample OEM manuals have been included on a separate flash drive.

- + **Calibration** - Calibrate all flow meters, pump control valves, and pressure sensors in direct coordination with equipment manufacturers.

PRELIMINARY PROPOSED STAGING PLAN

Our staging plan will consist of making use of the ample ROW provided to store topsoil, pipe, bedding materials, and native fill material. The placement of these materials within the provided ROW will be coordinated with the Cemex Sand & Mining Quarry and drilling contractor.



HDD STAGING AREA

Staging during the horizontal directional drilling (HDD) of Cemex Leach Field Area will be done within the area identified at the HDD Staging Area on the map above with the assembled piping stored in the construction ROW prior to pull back.

STAGING AREA

The material unloading zone allows ample room to stage pipe and equipment and any early lead time items that arrive prior to installation availability.

PIPE FUSION AREA

Pipe fusion areas will be set up within the limits of construction to allow for fusing pipe in multiple strings above ground, prior to installing within the trench line. Above ground fusion allows for increased production and thorough quality control checks.



TAB 2

2. GENERAL PROJECT TEAM INFORMATION

A. GENERAL PROJECT TEAM INFORMATION

BUSINESS STRUCTURE

Garney Pacific, Inc. is a subsidiary of Garney Holding Company. Garney was incorporated in Missouri in 1961 and has a half century of experience in the construction of various pipeline materials, water storage tanks, pump stations, and treatment facilities. Garney Pacific, Inc. has been operating in California since 2014. Evidence that Garney can perform this project within the state of California is provided at the end of this section following the key personnel forms.

Garney is pursuing this project as a single-entity corporation as the General Contractor.

EXCEPTIONS TO DRAFT CONTRACT

Garney takes no exceptions to the draft contract provided with the RFP.

BONDING CAPACITY

Garney's history of outstanding performance has resulted in exceptionally high bonding capacity. The safety and security of your project will be backed by a dual surety arrangement with The Continental Insurance Company, a CNA Surety Company and Liberty Mutual Group. These firms' financial strength is evident in top rankings from insurance and credit rating agencies. Garney has an individual project limit of \$700 million within a \$2 billion aggregate program. Garney is fully capable of providing 100 percent payment and performance bonds for this project.

CREDIT HISTORY

Having been in business since 1961, Garney has built a solid financial foundation that is rare in this industry. Our strong banking and bonding relationships allow Garney to be a single source

contractor for our clients on water and wastewater projects of any size. Feel free to contact the banking reference listed below for more information on Garney's credit rankings and financial background.

+ Commerce Bank
1000 Walnut, 17th Floor, Kansas City, MO 64106
Contact: Brett Gray, Vice President
brett.gray@commercebank.com
(816) 234-2124
Bank Account No.: XX972

SELF PERFORMANCE

Garney's ability to self-perform critical path activities will aid in keeping the project on schedule. Our ability to self-perform will reduce cost, expedite the schedule, and ensure quality and safety. We take pride in the fact that our field crews have developed this expertise through hands-on experience in the field.

Self-performance categories include:

- + Project management
- + Installation of open cut pipeline
- + Mechanical pipe installations
- + Subcontractor coordination and management
- + Schedule
- + Pipeline testing
- + Cost controls
- + Commissioning

SIGNIFICANT SUBCONTRACTORS

We have hand selected subcontractors whom we know and trust. Major subcontractor areas of work we deem necessary for this project include horizontal directional drilling and electrical and I&C. We intend to use the following companies for these scopes of work:



Northern Directional Drilling, Inc. is a directional boring contractor serving the San Francisco Bay area for the installation of pipelines and utilities. Northern was started

in June of 2008. Northern’s primary purpose is to provide HDD services to the underground industry for the installation of pipeline and utilities.



Darrel Varni Electric is a full service commercial and industrial electrical contractor serving the tri county area for 23 years. They have earned a reputation for quality work in the community.

ORGANIZATION CHART

The organization chart below illustrates the relationships and reporting structure of the proposed Key Personnel and significant subcontractors.

CURRENT WORKLOAD

We understand that our proposed team will be involved with the MPWSP from procurement through start-up. Each team member will be more involved at different points in the project starting with permitting and procurement, moving into construction, and ending with start-up and commissioning. This phased

approach allows for current project assignments to come to an end while the MPWSP is ramping up. The following table lays out the proposed project team’s current workload and ability to deliver the project.

KEY TEAM MEMBERS



EXECUTIVE & PROGRAM LEADERSHIP
BILL E. WILLIAMS
 Years of Experience: 35

PROJECT RESPONSIBILITIES

- + CAWC satisfaction
- + Resource allocation
- + Early equipment procurement

RELEVANT EXPERIENCE AS LEADERSHIP

- + Monterey Peninsula Water Supply Project Recycled Water SW1B
- + Walerga Road Tank Fill Pipeline and PFE Road Intertie Pipeline
- + Sarco Creek Bridge Replacement Pipeline
- + Mare Island Sewer and Water Main Replacement

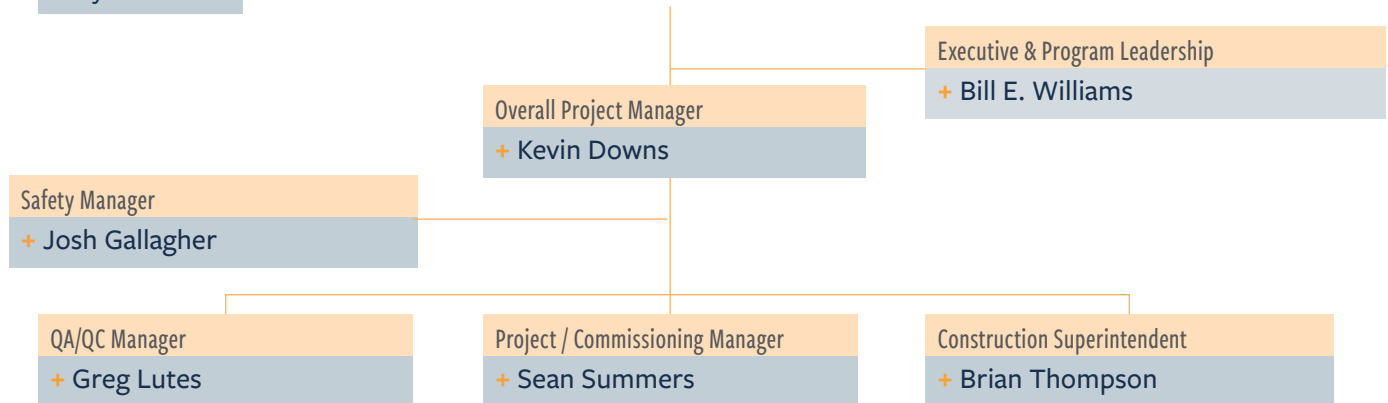
CURRENT WORKLOAD

Bill oversees and is responsible for the successful completion all of our team’s projects in California and is fully available to assist on this project at anytime throughout the project’s duration.

ORGANIZATIONAL CHART

+ Key Personnel

CALIFORNIA AMERICAN WATER





**OVERALL PROJECT
MANAGER**
KEVIN DOWNS
Years of Experience: 18

PROJECT RESPONSIBILITIES

- + Value engineering and constructability
- + Early equipment procurement
- + Daily operations during construction
- + Commissioning and start-up support

RELEVANT EXPERIENCE

- + Monterey Peninsula Water Supply Project
Recycled Water SW1B
- + Highway 29 Water Main Freeway Crossings
- + Sarco Creek Bridge Replacement Pipeline
- + San Joaquin Pipeline 78" Water Transmission Line

CURRENT WORKLOAD

- + Monterey Peninsula Water Supply Project.
Regional Operations Manager / Dec. 2021



**PROJECT / COMMISSIONING
MANAGER**
SEAN SUMMERS
Years of Experience: 9

PROJECT RESPONSIBILITIES

- + Scheduling
- + Material procurement & contract management
- + Commissioning & start-up plan development

RELEVANT EXPERIENCE AS PROJECT MANAGER

- + Monterey Peninsula Water Supply Project
- + Northeast Antioch Annexation Water and
Sewer Facility
- + Canal Levee Elimination and Flood Control
Segments 3 and 4
- + Catalina Sanitary & Storm Drainage Pipeline
& Pump Station

CURRENT WORKLOAD

- + Northeast Antioch Annexation Water & Sewer
Facility. Project Manager / Oct. 2019



**CONSTRUCTION
SUPERINTENDENT**
BRIAN THOMPSON
Years of Experience: 35

PROJECT RESPONSIBILITIES

- + Development and implementation of the
site safety plan
- + Assist with any site safety challenges

RELEVANT EXPERIENCE AS SAFETY MANAGER

- + Monterey Peninsula Water Supply Project
- + Mare Island Sewer and Water Main
Replacement
- + Northeast Antioch Annexation Water &
Sewer Facility
- + Alexandria Place Sanitary Sewer
Rehabilitation Project

CURRENT WORKLOAD

- + Northeast Antioch Annexation Water & Sewer
Facility. Superintendent / Sept. 2019



SAFETY MANAGER
JOSH GALLAGHER, STSC
Years of Experience: 10

PROJECT RESPONSIBILITIES

- + Development and implementation of the site
safety plan
- + Assist with any site safety challenges

RELEVANT EXPERIENCE AS SAFETY MANAGER

- + Canon Station PA4 Neighborhood 2
- + Canon Station PA4 Neighborhood 3
- + Catalina Sanitary & Storm Drainage Pipeline
& Pump Station

CURRENT WORKLOAD

Josh is not assigned to a specific project at this time and will be fully available for this project at the start of construction.



QA/QC MANAGER
GREG LUTES
 Years of Experience: 42

PROJECT RESPONSIBILITIES

- + Daily on-site quality control
- + Quality documentation control
- + Subcontractor quality inspections

RELEVANT EXPERIENCE

- + Monterey Peninsula Water Supply Project
- + Water Recycling Pipeline Phase 1A
- + Sarco Creek Bridge Replacement Pipeline
- + Mare Island Sewer and Water Main Replacement

CURRENT WORKLOAD

- + HWY 29 Water Main Replacement Superintendent / Oct. 2019

KEY PERSONNEL FORMS

Proposal Form 4 for each key personnel are provided at the end of this section. Resumes for the Key Personnel are included in the Appendix.

RELEVANT PROJECT EXPERIENCE

We understand the critical nature of each element of the MPWSP and understand that schedule and public engagement are vital. Our national specialized experience in water transmission lines is the ideal match for the schedule demands and community needs of this project.

GARNEY'S ENR RANKINGS



- #101 Top 400 Contractors
- #1 Top 400 Contractors in Water / Sewer / Waste
- #1 Water Supply
- #1 Water Transmission Lines#

Garney brings an experienced local team backed by an unmatched depth of resources and national experts. Our team features Garney as the General Contractor, supported by local subcontractors who will bring added-value and local participation to our team.

Our experience working in the area, coordinating multiple stakeholders, and previous work for CAWC on the MPWSP installing pipelines through high-risk and high-profile areas will be especially critical in alleviating risk for CAWC and enhancing future operational efficiency.

Detailed examples of recent relevant project experience are included on the following page.

Project / Location	Value	Permitting	Building	Commissioning
Monterey Peninsula Water Supply Project Pacific Grove, CA	\$73M	X	X	X
Canal Levee Elimination and Flood Control Segments 3 and 4 Oakley, CA	\$15M	X	X	X
Mare Island Sewer and Water Main Replacement Vallejo, CA	\$13M	X	X	X
Hexavalent Chromium Treatment Systems Woodland, CA	\$461K	X	X	X
Walerga Road Tank Fill Pipeline and PFE Road Intertie Pipeline Roseville, CA	\$1.7M	X	X	X
Communication Hill Phase 2 Off-site Utilities San Jose, CA	\$4M	X	X	X
Northeast Antioch Annexation Water and Sewer Facility Antioch, CA	\$4M	X	X	X
Oyster Point - Phase 1C San Francisco, CA	\$4M	X	X	X
Faria Ranch Backbone and Village 1 San Ramon, CA	\$3.2M	X	X	X
Water Recycling Pipeline Phase 1A Elk Grove, CA	\$3M	X	X	X
Desert Well No. 18 Mesa, AZ	\$1.1M	X	X	X
NEAF Irrigation Well 1B Equipping Design-Build Sun City West, AZ	\$863K	X	X	X
Well No. 9 and Collection Line Bryan, TX	\$5.6M	X	X	X
Cortessa Well #2 Waddell, AZ	\$870K	X	X	X



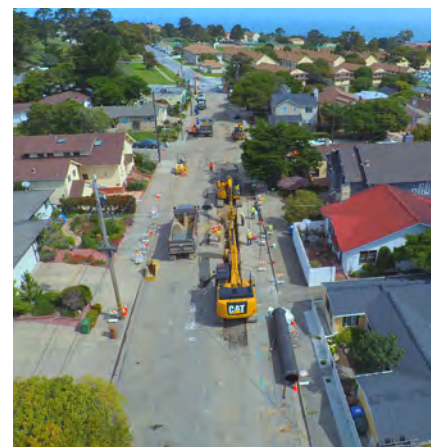
Client: California American Water
Project Status: Completed on schedule
Total Installed Cost: \$39,593,039 (Monterey Pipeline Only)

Garney was selected to install **85,000 LF of 36” ductile iron and 13,000 LF of 42” PVC pressure waterlines**. This project required substantial changes to the design and pipe alignment after award. Our team was able to complete the project within the contract timeframe and energize the line for CAWC’s use. **On time completion was achieved by staying ahead of utility conflicts by detailed reviews of potholing operations, providing recommended design layout changes to avoid utilities while minimizing cost and schedule impacts, and by working directly with the engineers on changes** to ensure efficient turnaround of plan sheets where work would be occurring.

This pipeline was installed through neighborhoods, arterial thoroughfares, downtown Monterey, and through CalTrans Jurisdictions. This required Garney to work with the local cities and municipalities to reduce impact to the residents, tourists, and commuters.

This was accomplished by minimizing noise and vibration impacts in the neighborhoods with noise / vibration monitoring program in sensitive areas, working alternative hours in heavy traffic areas / intersections, and by providing alternative methods for water conveyance across busy highways by installation of precast water conveyance bridge over State Route 68. This project required **coordination in acquiring permits for three major crossings of CalTrans right-of-way for pipeline installation under Highway 1, above State Route 68 via precast conveyance bridge, and by open cut on alternative crew shift hours for crossing of State Route 218**. This required coordination on multiple design iterations through CalTrans and the Project Engineer, AECOM, to finalize design and construction method details. **The Monterey Pipeline crossed the following Jurisdictions: Pacific Grove, Monterey, Seaside, Presidio of Monterey, and CalTrans**. Garney coordinated with CAWC and AECOM to acquire **encroachment permits and incorporate specific permit requirements to the work in the individual jurisdictions**, as each jurisdiction had specific concerns and requirements for the installation and restoration.

- + Conveyance Pipeline
- + Public Coordination
- + Value Engineering
- + Permitting
- + >\$20M Project
- + Local
- + Significant Self-Performance
- + Date Certain Delivery





CSU GROUNDWATER COLLECTION SYSTEM (DESIGN-BUILD)



Client: Colorado Springs Utilities

Project Status: Completed on schedule

Total Installed Cost: \$6,829,170

Colorado Springs Utilities contracted with the Garney design-build team to provide engineering and construction services for the design and construction of a Denver Basin Groundwater Collection System. The Colorado Springs Groundwater Collection Project consisted of hydrogeology, well drilling (8-10) each, groundwater collection system and groundwater treatment to provide a supplementary source of non-potable water supply to Colorado Springs Utilities' customers during the drought conditions. The project entailed delivering 10 MGD of Denver Basin Groundwater to distribution system reservoirs.

Final project features include the drilling and **equipping of six ground water wells** at three separate locations. The well heads were designed to be buried below grade in weather and temperature conditioned structural concrete vaults including **vaults for process mechanical well piping for water collection and control valving with metering**, by-pass piping and air release assemblies. The groundwater well collections system included over five miles of 16" – 12" conveyance raw water pipeline along and in arterial roads and residential housing communities. Each **well head included a stand-alone masonry electrical building to house programmable logic controllers and motor control center** with variable frequency drives for well motors. Work also included an aerial bridge crossing, booster pump station with 3000 gal hydro pneumatic surge tank, water treatment pilot testing, granular activated carbon treatment facilities to remove iron, manganese and radon, start-up and commissioning services, power, site civil, geotechnical services structural concrete requirements, permitting, and easement acquisition.

Several of the well sites were located in newly developed public parks. As part of our team's innovative approach, we were able to design into the project geo-membrane lined well water storage cells to collect initial pump to wastewater and provide methods of feeding non-potable park irrigation systems from the ground water well systems. **Start-up and commissioning services for this program included development of a detailed start-up and commissioning plan** that included point-to-point testing of all electrical, controls, devices and grounding protection to insure proper termination and communication with SCADA and PLC equipment. Rotation of pumps and motors verification. Flow measurement and control devices proper installation and calibration.

- + Alternative Delivery
- + Pipeline in Public ROW
- + Public Coordination
- + Value Engineering
- + Permitting
- + Ground well Equipping
- + Mechanical and Electrical work
- + Traffic Control
- + Significant Self-Performance

This project won the ACEC Engineering Excellence Award of Merit in 2005 under the water and wastewater category.





MARE ISLAND SEWER AND WATER MAIN REPLACEMENT

Client: Vallejo Sanitation and Flood Control District

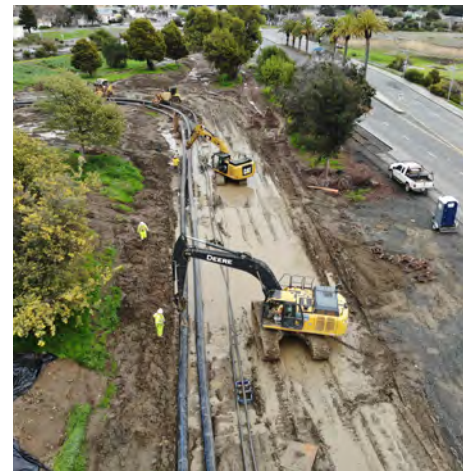
Project Status: In progress. Substantially complete on 5 / 31 / 19 and on track to be completed on schedule.

Total Installed Cost: \$13,192,024

This project includes the installation of water and sewer pipelines bundled together in two 48” horizontal directional drills for 2,600 LF each, crossing the Napa River. The first bundled pipeline consists of **21” HDPE sanitary sewer force main, 12” HDPE reclaimed waterline, and two 4” HDPE fiber optic lines; and the other bundle consists of two 18” HDPE waterlines and two 4” HDPE fiber optic lines.** This project also includes 22,000 SF of paving, two 24” meters, and an EPA Financial Assistance Agreement. The contract specified 230 consecutive days from NTP to completion. **In order to stay on schedule, interim schedules were updated weekly and a baseline schedule was updated monthly with narrative for team discussion on activities.** With this project being constructed **through an urban environment, excavation was opened each day and secured at the end of each shift with steel road plates to allow traffic access.**

During construction, additional road plates were on site for residential driveways or emergency vehicles in need of access. A backfill crew was on site daily to complete the trench backfill on installed pipeline to minimize open excavation. There were **multiple permitting agencies involved in the project including the City of Vallejo, Vallejo Sanitation District, Mare Island, Vallejo Parks Department, & U.S. Fish and Wildlife.** The directional drills extended from the **City of Vallejo to Mare Island with each jurisdiction as a permitting agency.** Our team eliminated a large portion of the planned lightweight aggregate backfill for the project which resulted in a **project savings of \$65,000 split between Garney and the Client.**

- + Utility Coordination
- + Conveyance Pipeline
- + Urban Environment
- + Significant Self-Performance
- + Permitting
- + Local
- + Similar Crossings



DBE REQUIREMENT STATEMENT

Based on the potential for state and federal grant funding sources, Garney has developed a program that will include outreach meetings, informational advertising, and aggressive solicitations to WMDVBE firms. We will break down the portions of work to attract WMDVBE firms of all sizes and will also modify contract terms as needed to attract WMDVBE firms. Garney will monitor and report the continued implementation of the WMDVBE program goals throughout performance of the contract.

Garney has had great success of WMDVBE participation in this area. The MPWSP has a goal established of 25% WMDVBE utilization, in our first phase of this project our final utilization was 28.6%, or more than \$11M. We understand the importance of meeting the goals with the incorporation of these funding sources in a project. Garney is a Committed Corporation in CalAm's Partnering Forward for Success Program, which is a DBE utilization and mentoring program created by CalAm.

Below is an outline of the steps we will use to encourage both local and / or WMDVBE participation.

- + Development and maintenance of a bidders list including MBE, WBE and DVBE firms from all possible sources.
- + Making sure that bid packages are structured to encourage WMDVBE firms to participate.
- + Solicitation of the WMDVBE firms via outreach, as well as workshops.
- + Tracking the performance of the WMDVBE outreach programs.
- + Monthly reporting of both WMDVBE and local resource programs.
- + Assisting WMDVBE firms that may need help with bonding or insurance requirements.
- + Assisting WMDVBE firms with plans, specifications, or understanding of the procurement process.

LOCAL RESOURCES UTILIZATION PLAN

Garney has developed a Local Resources Utilization Program that will include outreach meetings and informational advertising to develop and maintain communication with all possible local subcontractors and vendors. We will also modify contract terms as needed to attract local subcontractors. Garney will monitor and report the continued implementation of this plan throughout performance of the contract.

Garney is committed to working with both local union craft labor and subcontractors. We will make a good faith effort to employ qualified local individuals, who are residents of Monterey County, San Benito County, or Santa Cruz County. We have longstanding relationships with the leadership of the laborers and operators unions that will assist in finding top quality local workers, enhancing our two existing local crews.

Garney will meet CAWC's expectation that contractors provide the minimum percentage of 30% of the total proposal price subcontracted as DBE work. Garney has provided supporting documentation of our efforts and selection of DBEs at the end of Section 4: Business and Price Proposal.

Monterey Peninsula Water Supply Project
Request for Proposals for the Slant Well Intake System – Civil Work

PROPOSAL FORM 4

KEY PERSONNEL¹

(Copy and complete this form for Key Personnel. Attach additional pages along with organizational charts as needed)

General Information²

Name: Bill E. Williams

Firm: Garney Pacific, Inc.

Title: Senior Vice President

Year employed by firm: 4 years

Total Professional Experience: 35 years

Professional Registration and Licenses (type/number/state/year)³ n/a

Project-Specific Information

Title/Assignment Executive & Program Leadership

Description of Role/Responsibilities:

Ensure CAW satisfaction, resource allocation, and early equipment procurement

Commitment⁴ **Permitting** 10 % **Construction** 10 %

Startup and Testing: 10 %

Footnotes:

- ¹ Proposers shall duplicate this form for all Key Personnel. Refer to subsection 4.4.2 of the RFP for a list of the minimum personnel for which this form shall be completed.
- ² Please indicate any staff that has changed from that provided in the Statement of Qualifications in accordance with subsection 4.4.2 of the RFP. Attach pages as necessary.
- ³ Where applicable, key construction personnel must provide either: (1) proof of current California licensure; or (2) if not currently licensed in California, a detailed plan to obtain a required California license no later than the effective date of the Contract.
- ⁴ Commitment indicates the amount of time (in percent) that the individual would be available to work on the Project during the construction, start-up and testing phases of the Project. Indicate by "N/A" where the individual is not proposed to be involved in a particular phase of the Project.

**Monterey Peninsula Water Supply Project
Request for Proposals for the Slant Well Intake System – Civil Work**

PROPOSAL FORM 4

KEY PERSONNEL¹

(Copy and complete this form for Key Personnel. Attach additional pages along with organizational charts as needed)

General Information²

Name: Sean Summers

Firm: Garney Pacific, Inc.

Title: Project Manager

Year employed by firm: 3 years

Total Professional Experience: 9 years

Professional Registration and Licenses (type/number/state/year)³ OSHA Competent Person - Confined Space, Fall Protection, and Trenching & Excavation

Project-Specific Information

Title/Assignment Project / Commissioning Manager

Description of Role/Responsibilities:

Scheduling, material procurement & contract management, and commissioning & start-up plan development.

Commitment⁴	Permitting <u>100 %</u>	Construction <u>80 %</u>
		Startup and Testing: <u>100 %</u>

Footnotes:

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PROPOSAL FORM 4

KEY PERSONNEL¹

(Copy and complete this form for Key Personnel. Attach additional pages along with organizational charts as needed)

General Information²

Name: Brian Thompson

Firm: Garney Pacific, Inc.

Title: Superintendent

Year employed by firm: 3 years

Total Professional Experience: 35 years

Professional Registration and Licenses (type/number/state/year)³ n/a

Project-Specific Information

Title/Assignment Superintendent

Description of Role/Responsibilities:

Development and implementation of the site safety plan and assist with any site safety challenges

Commitment⁴

Permitting	<u>20 %</u>	Construction	<u>100 %</u>
		Startup and Testing:	<u>100 %</u>

Footnotes:

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**Monterey Peninsula Water Supply Project
Request for Proposals for the Slant Well Intake System – Civil Work**

PROPOSAL FORM 4

KEY PERSONNEL¹

(Copy and complete this form for Key Personnel. Attach additional pages along with organizational charts as needed)

General Information²

Name: Josh Gallagher

Firm: Garney Pacific, Inc.

Title: Regional Safety Manager

Year employed by firm: 1 years

Total Professional Experience: 10 years

Professional Registration and Licenses (type/number/state/year)³ OSHA 10-Hour, OSHA 30-Hour, OSHA 40-Hour HAZWOPER,

Project-Specific Information

OSHA 510 and 500 Trainer, OSHA Competent Person Trainer - Confined Space, Fall Protection, and Trenching & Excavation

Title/Assignment Safety Manager

Description of Role/Responsibilities:

Development and implementation of the site safety plan and assist with any site safety challenge.

Commitment⁴ **Permitting** N/A % **Construction** 50 %

Startup and Testing: 10 %

Footnotes:

¹ Proposers shall duplicate this form for all Key Personnel. Refer to subsection 4.4.2 of the RFP for a list of the minimum personnel for which this form shall be completed.

² Please indicate any staff that has changed from that provided in the Statement of Qualifications in accordance with subsection 4.4.2 of the RFP. Attach pages as necessary.

³ Where applicable, key construction personnel must provide either: (1) proof of current California licensure; or (2) if not currently licensed in California, a detailed plan to obtain a required California license no later than the effective date of the Contract.

⁴ Commitment indicates the amount of time (in percent) that the individual would be available to work on the Project during the construction, start-up and testing phases of the Project. Indicate by "N/A" where the individual is not proposed to be involved in a particular phase of the Project.

PROPOSAL FORM 4

KEY PERSONNEL¹

(Copy and complete this form for Key Personnel. Attach additional pages along with organizational charts as needed)

General Information²

Name: Greg Lutes

Firm: Garney Pacific, Inc.

Title: General Superintendent

Year employed by firm: 4 years

Total Professional Experience: 42 years

Professional Registration and Licenses (type/number/state/year)³ First Aid, CPR & AED Trained, OSHA 30-Hour, OSHA Competent Person - Confined Space Safety / Fall Protection Safety

Project-Specific Information

Title/Assignment QA/QC Manager

Description of Role/Responsibilities:

Daily on-site quality control, quality documentation control, and subcontractor quality inspections.

Commitment⁴	Permitting	<u>100 %</u>	Construction	<u>80 %</u>
		<u> </u>	Startup and Testing:	<u>80 %</u>

Footnotes:

- ¹ Proposers shall duplicate this form for all Key Personnel. Refer to subsection 4.4.2 of the RFP for a list of the minimum personnel for which this form shall be completed.
- ² Please indicate any staff that has changed from that provided in the Statement of Qualifications in accordance with subsection 4.4.2 of the RFP. Attach pages as necessary.
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- ⁴ Commitment indicates the amount of time (in percent) that the individual would be available to work on the Project during the construction, start-up and testing phases of the Project. Indicate by "N/A" where the individual is not proposed to be involved in a particular phase of the Project.



TAB 3



3.0 TECHNICAL PROPOSAL

DESCRIPTION OF THE PROPOSED PROJECT

The Slant Well Intake System will convey saltwater from seven slant wells through the feed water pipeline within the Lapis Road Cemex Sand Mine and connect to the remainder of the feed water pipeline outside of the quarry currently under contract with CAWC and Garney Pacific, Inc. The feed water pipeline will continue to convey the saltwater to the desalination plant.

The project consists of approximately 2,800 LF of 36" FPVC mainline (700 LF by HDD); seven mechanical control vaults at five well sites with pump to waste control valves and basins; five electrical building enclosures at each well site fed by a new underground duct bank with future fiber optic; two surge tanks connected to the main pipeline, and decorative fencing around the well sites.

APPROACH TO WORK

Based on the schedule laid out within the RFP documents, the approach to work is critical to mobilize to create access roads and pad grading for the drilling contractor to begin their work. Boart Longyear's proposal allocates seven months for their scope which is reflected in our critical path schedule included at the end of this section.

As drilling progresses, and if working space allows, the HDD contractor will mobilize to complete the directional drilling of the Cemex Leach Field. Garney will begin installation of the main feed water pipeline by connecting to the drill and working towards the slant well sites. Once the drilling contractor has demobilized, mechanical and electrical construction will begin at each drill site in sequence. Garney's construction team will work hand in hand with our electrical and instrumentation team to keep the project flowing smoothly.

STAKEHOLDER COORDINATION

Stakeholder coordination is central to our approach for any project. One of the first activities that will be ongoing throughout the project, is to contact the property owners and public entities that will be affected by this project. Our focus will be discussion of the work activities, the status of the current schedule and any schedule updates, and how these activities will impact the stakeholders. Based on these discussions we will work with the affected parties to best align the needs of the project with theirs. During this initial phase, Garney will also focus on procurement of the various project permits as the information provided in any final permit will be vital to these efforts.

Coordination sets the stage for success on the rest of the project making it a critical first step.

ACCESS ROADS AND GRADING

Garney will begin by surveying the limits of construction and the access road alignments to the well sites. Prior to construction, all mitigation monitoring reportin program measures including environmental and erosion control best management practices will be in place. The access road will be critical to provide an early start time for the drilling contractor.

HORIZONTAL DIRECTION DRILLING

HDD at the Cemex leach field will be performed by our directional drill subcontractor, Northern Directional Drilling (Northern). Northern and Garney have completed several similar projects together as a team. This work history provides unique insight into this specialty scope, we will work closely with Northern on all phases of the HDD operation to coordinate stakeholders, optimize the safety, efficiency, and

quality of the finished product. This will ensure that the area in and around the leach field is protected and mitigate frac-out concerns while minimizing any disruption to ongoing agriculture in the vicinity.

PROJECT MANAGEMENT APPROACH

Our project management approach focuses on all aspects of the project through each phase: project cost, schedule, approach, safety, commissioning, operations, and life-cycle. This project will be managed by our local proven construction team. Our team's experience working together on the Monterey Pipeline Segment of the MPWSP will ensure that this endeavor will see similar success.

PRECONSTRUCTION PHASE

After execution of the contract with CAWC, Garney intends to use our local Monterey office for administration of the project. Our project team will spend the next few months providing preconstruction services including permitting and value engineering efforts.

Our team will also focus on collaborating with the owner's project team to innovate and provide alternatives to enhance the value of the project. We are committed to providing economic alternatives and refining the design to ensure that CAWC focuses spending on the project in areas where they receive the best long term value.

This process allows for consideration of cost economies, schedule economies, life-cycle values, and operation and maintenance cost impacts. During this process we will:

- + Identify critical path materials.
- + Identify critical activities that require constant focus.
- + Create a risk register to help proactively manage and avoid project risks.

Garney will continually update the detailed project schedule using Microsoft Project scheduling software during preconstruction. In parallel, we will continually update the budget with all project decisions made during preconstruction.

This will allow the team to have real-time communication related to alternatives and decisions made during collaboration meetings.

SUBCONTRACTING & PROCUREMENT

The preconstruction phase, the team will begin materials and subcontract procurement. With the assistance of our WMDVBE / local resource management we will begin purchasing materials and coordinating subcontracts. The materials and subcontracting requirements will be organized on spreadsheets broken down by work segment.

These requirements will then be arranged by priority factoring in submittal approval, manufacturing and delivery lead times, and our needs derived from the program schedule.

Our team will focus on the most critical needs first, proceeding in order of priority to the completion of the buy-out phase.

We anticipate that by spring of 2020 we will have received all required permits.

Prior to construction activities, two critical tasks must occur to maintain the schedule.

Slant Well Driller Coordination

- + Garney will work with CAWC and Boart Longyear to coordinate critical needs to construct and maintain access to the well sites for the drilling of wells.

SWPPP

- + Garney will identify and put in place all Stormwater Pollution and Prevention Plan (SWPPP) measures (our intent is to return all work areas to preconstruction condition once construction operations are complete).

CONSTRUCTION PHASE

Lead by Kevin Downs and Sean Summers, our construction approach revolves around understanding how the pipeline and slant wells are a critical element to the overall Monterey Peninsula Water Supply Pipeline.

To meet that schedule, we will focus on the following key elements:

- + A thorough and methodical grading plan.
- + Continuous communication with CAWC to update construction status and ensure the public is aware of construction activities.
- + A safety plan to keep the public, site staff, and subcontractors safe at all times.
- + Monitoring for new risks and continuing to mitigate those identified during design.
- + Maintaining the project schedule and looking ahead to anticipate any constraints.
- + Constructing a quality project, the first time, minimizing re-work, and preventing further interruption to the public.
- + A permitting / utility relocation plan.

SCHEDULE MANAGEMENT

During preconstruction, the project team will work with CAWC to identify the overall Monterey Water Supply Pipeline goals and milestone dates across all of the potential projects. This will ensure our team's understanding how the Slant Well Intake Project fits in with the timing of the transfer line, feed line, Castroville Pipeline, and the desalination plant.

The team will use that information to refine our preliminary baseline schedule, identifying detailed construction activities and schedule constraints that may affect this project.

Six-Week Look-Ahead Schedule

As a product of the baseline schedule, the six-week look-ahead schedule provides additional details on upcoming scopes of work. This schedule is used as a tool in weekly coordination meetings amongst all trades on-site. The following activities are shown on six-week look-ahead schedules:

- + Inspections
- + Testing and / or start-up
- + Manpower

- + Major events
- + Upcoming milestones
- + Detailed critical activities
- + Material deliveries

By developing and constantly refining project schedules we provide timely information to make informed decisions that keep the project on time and on budget.

COST MANAGEMENT

Garney's approach to cost management has been developed over years of experience focused solely on building water infrastructure projects. To help protect your budget, Garney will serve as your advocate throughout the preconstruction phase by identifying ways to streamline the project scope to save cost. We explore alternatives by asking the following:

1. Can tasks be performed at a lower cost?
2. Can a change in design improve the total life-cycle cost?
3. What are the long-term maintainability factors?

During construction, Garney will utilize the project schedule as a cost management tool. By establishing and effectively communicating the schedule internally, with subcontractors, the public, and CAWC, we will ensure that we are all striving for the same goals. This will eliminate rework, minimize potential for delays, and keep stakeholders informed while controlling the project cost.

PREFERRED ESCALATION INDEX

In the event that the project is delayed, Garney proposes using the following two indexes as price escalators:

- + U.S. EIA On-Highway Diesel West Coast (PADD5) - 2% of total contract
- + Scrap Price Bulletin Index - Chicago-Shredded Scrap - 8.7% of total contract

PERMITTING

Permitting is a critical component of preconstruction activities and will require coordination between Garney, CAWC, Michael Baker International, and the applicable permitting agencies from the start of this project. To ensure permitting is a priority from the award of contract, Sean Summers will be in charge of reviewing permit requirements, coordinating with CAWC and Michael Baker International, and working with the agencies to ensure all work plans, write-ups, and documentation are provided for permit issuance before construction.

Our team provides in-depth knowledge and experience with the permitting and multiple jurisdictional requirements in this area. Understanding the permitting process, combined with our recent relevant experience, directly benefits the project schedule.

Our experience includes the construction of more than 50 similar conveyance system pipeline alignments within the last 10 years requiring encroachment permits for multi-jurisdictions, water crossings, as well as railroads and / or highway crossings that require additional design and permitting for trenchless / tunneled construction.

The baseline schedule has estimated permitting activities to take approximately 90 days for completion. Garney will apply a collaborative approach to preconstruction permitting activities with weekly updates on the permit items during preconstruction progress meetings to ensure all information is provided to the stakeholders for review, and to minimize gaps in permit responsibilities between all parties.

QUALITY MANAGEMENT

During the preconstruction phase Garney's QA/QC Manager - Greg Lutes will develop a project specific QA/QC plan. This will allow the team to standardize quality control requirements for all personnel working on-site, whether it be Garney crews or subcontractors.

Garney will review all work activities and complete a quality checklist prior to mobilization. Our approach to QA/QC incorporates quality planning into all

activities in the same manner that safety is planned into our projects. Quality will be a standing agenda item for all regularly scheduled project meetings and will be a key factor when evaluating subcontractors and suppliers.

Quality Control Execution

To ensure the quality control plan is executed, clear levels of responsibility are assigned within the project team to make sure all specification requirements are met. Superintendent - Brian Thompson, will be responsible for the daily execution of the quality plan on the project. Supported by our Project Engineer, we will provide daily monitoring of all installation activities and communicate directly with the project team on a continual basis.

Quality Management

Garney fully integrates our quality management system into the organizational structure and performance management systems for each project.



EQUIPMENT RESOURCES & INVENTORY

Garney owns its own equipment, which gives us a competitive advantage. Our fleet is continuously updated prior to each unit reaching 6,000 hours. This ensures the use of very low-hour equipment that leads to little or no downtime. The equipment is managed corporately and usage is monitored weekly to ensure service intervals are maintained.

A breakdown of Garney’s equipment fleet includes:

TOTAL VALUE OF FLEET	\$70,000,000
TOTAL PIECES OF EQUIPMENT	300
NUMBER OF EXCAVATORS	110
NUMBER OF BACKHOE / LOADERS	110
NUMBER OF BULLDOZERS	22
NUMBER OF CRANES	15
OTHER (OFF ROAD DUMP TRUCKS, COMPACTORS, MOTOR GRADERS, ETC.)	43

FRAC-OUT PLAN

A sample of our subcontractor’s frac-out plan is included in the Appendix.

COMMISSIONING PHASE

Testing and commissioning will be required for the pipeline, mechanical, electrical, and instrumentation on this project. The commissioning process will begin during the preconstruction phase of the project as initial design, planning, and procurement of the major mechanical and electrical components of the project will require a coordination study of the existing system to function as intended. Upon completion of the pipe mainline and mechanical vault installations, the system will be pressure tested per the project and CAWC standards to ensure functionality.

Commissioning of the electrical, control, and mechanical functions of the project system will require coordination with the key subcontractors, design engineers, and CAWC team representatives to achieve a complete operating system. All system components will be calibrated by the manufacturer representatives and hands on training of each component will be provided for CAWC operations staff. CAWC will receive O&M Manuals for all required systems prior to startup and training. O&M manuals will contain final startup and testing documents and will be reviewed during training of CAWC operations staff.

WARRANTY PHASE

Proper warranty management involves thorough and detailed correspondence with TAWC, suppliers, vendors, and manufacturers.

We understand that because the pipeline is a critical part of the entire MPWSP, being available to help troubleshoot any challenges will be critical to the success of the program.

We have dedicated Sean Summers to handle warranty claims and act as the single point-of-contact for CAWC during the Warranty Phase.

Garney maintains a qualified staff of skilled tradesman throughout the Monterey Peninsula available to assist in CAWC’s warranty period needs as well as any emergency maintenance necessary on the existing system in place.

STRATEGY FOR WARRANTY MANAGEMENT

Warranty management will be discussed and planned for throughout preconstruction and construction phases. The warranty management plan will include instructions and a sample form for CAWC to complete in a situation where a warranty claim appears to be present.

Our approach to warranty management starts with providing adequate and proper training from equipment vendors, suppliers, manufacturers, and engineers during final construction and start-up & commissioning. Delivering a well-designed training program mitigates as much misuse or uninformed use of equipment, components, and controls as possible, and minimizes warranty claims.

During the warranty period, Sean will operate from our site office in Monterey, CA to quickly respond to any potential warranty claim.

SAFETY

SAFETY PROGRAM

Construction is one of the most dangerous industries in the U.S., making it more important than ever for clients to choose a firm that instills a strong safety culture within their organization with a record to prove it. Some of the unique factors that make Garney's safety program a success include:

+ Site-Specific Safety Plans

Garney develops and maintains a Site-Specific Safety and Health Plan for every project.

+ Site-Specific Safety Committee

At the beginning of a project, a Site Safety Committee is created, comprised of members of the project staff, safety advisors, and key trade subcontractors that have been properly trained to recognize and correct any unsafe conditions.

+ Pre-Job Safety Conference

Garney requires all subcontractors and requests the presence of the Client, to attend a meeting to identify potential safety risks that may be encountered during a project. At this meeting, risks are discussed and proper procedures for handling are agreed upon.

+ Safety Task Analysis Card (STAC)

Each day, Garney requires the field craft to prepare potential hazard analysis on the tasks that will be performed that day. These meetings are intended to break down tasks, identify and analyze hazards, and mitigate or control hazards.

+ Weekly Toolbox Talks

Each Monday, Garney holds weekly safety meetings on site. A specific topic is addressed to the crew by the Superintendent. Any near misses are discussed at this meeting and new hires are trained for the week's events. Records of these meetings are kept by the Project Engineer and Safety Coordinator.

+ GOSHA Inspections

Garney safety professionals perform periodic, unannounced mock OSHA (GOSHA) inspections on all of our projects.

+ Certified Safety Professional

Garney employs Certified Safety Professionals. This project will be under the direction of Tony Kempf, Garney's Vice President of Safety, and Josh Gallagher, Safety Manager, in addition to the Project Manager and Superintendents.

+ Craft, Subcontractor, & Supervision Training

During the early stages of a project, Garney identifies safety training that will be required and schedules this training based on operational requirements. Training is presented to Garney field craft and subcontractors.

SAFETY PERFORMANCE

Garney's safety philosophy is evident in our current EMR and TRIR rates, well below industry averages.

SAFETY RANKINGS

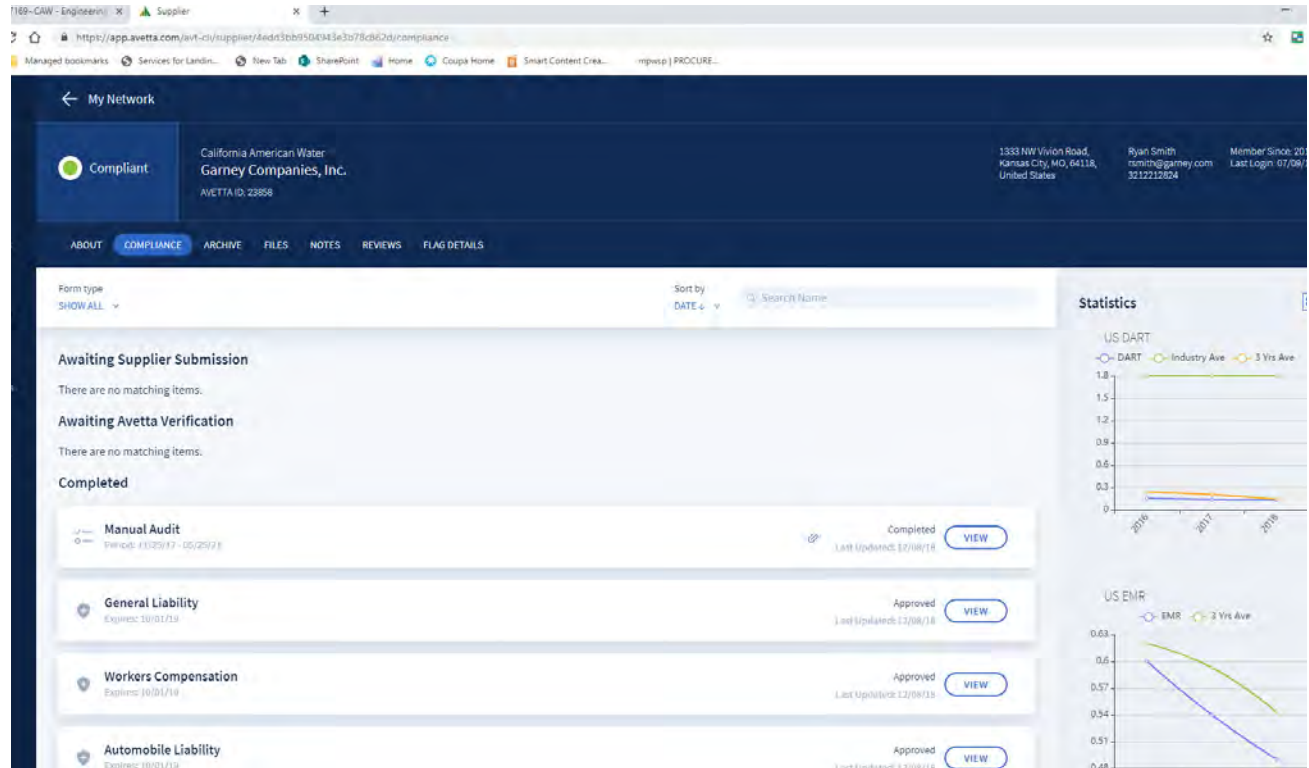
Safety is always Garney's #1 priority. Our numbers reflect that.

	EXPERIENCE MODIFICATION RATE		TOTAL RECORDABLE INCIDENT RATE	
2018	0.49	1.00	1.26	3.00
2017	0.54	1.00	1.61	4.10
2016	0.60	1.00	1.25	4.10
2015	0.64	1.00	2.11	4.00
2014	0.50	1.00	1.85	3.50

■ Garney Holding Company ■ Industry Average

Garney's status on the Avetta program is in good standing as compliant as shown in the screenshot on the following page.

AVETTA STATUS



A. PRELIMINARY PROJECT SCHEDULE

Garney has provided a project schedule in the Appendix. The schedule includes all major milestones as identified in the RFP and as listed on Proposal Form 5 (included at the end of this section) which include:

ACTIVITY #	ACTIVITY / MILESTONE	DATE
5	Notice to proceed	9 / 20 / 2019
15	Expected delivery of all materials	11 / 12 / 2020
18	Date of construction commencement	3 / 23 / 2020
18	Completion of major structures	4 / 23 / 2021
31	Commissioning & functional testing commencement	4 / 26 / 2021
30	Substantial completion	6 / 29 / 2021
31	Acceptance test	6 / 8 / 2021
34	Date of acceptance	6 / 28 / 2021
35	Date of completion and readiness for final payment	8 / 13 / 2021

B. PLAN FOR ACCEPTANCE TESTING

Garney intends to employ the services of a soils testing consultant to provide quality assurance testing. They will be responsible for providing testing results to the QA/QC Manager - Greg Lutes.

We will report test results weekly to CAWC, and maintain a log of all tests that will be turned over to CAWC at the completion of the project. After the construction, each piece of work will be tested for conformance with the specifications. Prior to the beginning of the testing, we will construct an Acceptance Testing and Commissioning Plan to be approved by CAWC. After all components of the project have been tested, Commissioning Manager - Sean Summers will begin training CAWC personnel and will complete the commissioning of the pipeline.

IRON AND STEEL PRODUCTS

The table below lists the iron and steel products that must be produced in the United States in order to comply with the “American Iron and Steel (AIS)” requirement for Clean Water State Revolving Loan Fund (CWSRF) and Drinking Water State Revolving Loan Fund (DWSRF) recipients.

AIS PRODUCTS	SUPPLIER	LEAD TIME (WEEKS)	PRICE
Ductile Iron Pipe & Fittings	Aqueous Vets	8-12	\$741,000.00
Valves	Aqueous Vets	16-24	\$202,000.00
Vaults	Old Castle Precast	12-16	\$224,000.00
Reinforcing Steel	Monterey Rebar	4	\$61,000.00
Chain Link Fence	All Steel Fence	8	\$132,500.00

PROPOSAL FORM 5

**PRELIMINARY PROJECT SCHEDULE, SCHEDULED CONSTRUCTION DATE AND
SCHEDULED ACCEPTANCE DATE**

The Proposer shall submit a preliminary Project schedule with the Proposal that includes important construction activities and milestones from issuance of the Notice to Proceed through final completion. This preliminary Project schedule shall be submitted in both written and electronic formats. The level of detail shall be in summary level for major procurement and construction activities. Major milestones throughout the construction period shall be included.

The preliminary Project schedule shall consist of, but not be limited to, the following:

- (i) Important procurement activities and milestones
- (ii) Important construction activities and milestones
- (iii) Important commissioning and testing milestones
- (iv) It shall indicate the sequence of Work and the time of starting and completing each part.

In addition, the Proposer shall summarize and provide a list of proposed major milestones and completion dates including, but not limited to:

- 5.2.3.2 Issuance of Notice to Proceed
- 5.2.3.3 Expected delivery of all materials and equipment
- 5.2.3.4 Date of construction commencement
- 5.2.3.5 Completion of major structures
- 5.2.3.6 Commissioning and functional testing commencement
- 5.2.3.7 Substantial Completion Date
- 5.2.3.8 Acceptance test
- 5.2.3.9 Date of acceptance
- 5.2.3.10 Date of Completion and readiness for final payment

The Proposer shall use the following format to provide this information:

TABLE 5-1 MAJOR ACTIVITIES AND MILESTONES¹

ACTIVITY NUMBER	ACTIVITY/MILESTONE	DATE ²
5	Issuance of Notice to Proceed	09/20/2019
15	Expected delivery of all materials and equipment	11/12/2020
18	Date of construction commencement	03/23/2020
18	Completion of major structures	04/23/2021
31	Commissioning and functional testing commencement	04/26/2021
30	Substantial Completion Date	06/29/2021
31	Acceptance test	06/08/2021
34	Date of acceptance	06/28/2021
35	Date of Completion and readiness for final payment	08/13/2021



Garney Pacific, Inc.

 Name of Proposer

Bill E. Williams

 Name of Designated Signatory

[Handwritten Signature]

 Signature

Senior Vice President

 Title

Footnotes:
¹ List each major activity and milestone separately.
² Indicate the end of activity or date milestone achieved.

ID	Task Mode	Task Name	Duration	Start	Finish	4th Quarter			1st Quarter			2nd Quarter			3rd Quarter			4th Quarter			1st Quarter			2nd Quarter			3rd Quarter					
						Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug		
1		SLANT WELL INTAKE SYSTEM	495 days	Fri 8/30/19	Fri 8/13/21																											
2		CONTRACT EXECUTION	1 day	Fri 8/30/19	Fri 8/30/19																											
3		NOTICE TO PROCEED	1 day	Mon 9/30/19	Mon 9/30/19																											
4		PRECONSTRUCTION ACTIVITIES	160 days	Tue 10/1/19	Mon 5/18/20																											
5		SWPPP DEVELOPMENT	60 days	Tue 10/1/19	Thu 12/26/19																											
6		MMRP WORK PLAN SUBMITTALS & COORDINATION	90 days	Tue 10/1/19	Fri 2/7/20																											
7		ELECTRICAL COORDINATION STUDY	90 days	Tue 10/1/19	Fri 2/7/20																											
8		PIPE MATERIAL SUBMITTAL PROCUREMENT	60 days	Tue 10/1/19	Thu 12/26/19																											
9		HDD SUBMITTAL PROCUREMENT	60 days	Tue 10/1/19	Thu 12/26/19																											
10		ELECTRICAL SUBMITTAL PROCUREMENT	120 days	Tue 10/1/19	Mon 3/23/20																											
11		SURGE TANK SUBMITTAL PROCUREMENT	60 days	Tue 10/1/19	Thu 12/26/19																											
12		PG&E PLANNING/COORDINATION	160 days	Tue 10/1/19	Mon 5/18/20																											
13		Material Procurement	225 days	Fri 12/27/19	Thu 11/12/20																											
14		PVC PIPE	60 days	Fri 12/27/19	Mon 3/23/20																											
15		VALVE PROCUREMENT	120 days	Fri 12/27/19	Tue 6/16/20																											
16		PG&E TRANSFORMER	90 days	Tue 5/19/20	Thu 9/24/20																											
17		MAIN SWITCHGEAR (MSG-1)	120 days	Tue 3/24/20	Thu 9/10/20																											
18		TRANSFORMER #1 & #2	120 days	Tue 3/24/20	Thu 9/10/20																											
19		ENCLOSURE ELECTRICAL GEAR & EQUIPMENT	120 days	Tue 3/24/20	Thu 9/10/20																											
20		ELECTRICAL ENCLOSURE MANUFACTURING	45 days	Fri 9/11/20	Thu 11/12/20																											

Project: Baseline Schedule Date: Thu 7/25/19	Task		Project Summary		Manual Task		Start-only		Deadline	
	Split		Inactive Task		Duration-only		Finish-only		Progress	
	Milestone		Inactive Milestone		Manual Summary Rollup		External Tasks		Manual Progress	
	Summary		Inactive Summary		Manual Summary		External Milestone			

ID	Task Mode	Task Name	Duration	Start	Finish	3rd Quarter			4th Quarter			1st Quarter			2nd Quarter			3rd Quarter			4th Quarter			1st Quarter			2nd Quarter			3rd Quarter		
						Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	
21		SURGE TANK MANUFACTURING	90 days	Fri 12/27/19	Mon 5/4/20																											
22		CONSTRUCTION ACTIVITIES	277 days	Mon 3/23/20	Fri 4/23/21																											
23		MOBILIZATION	5 days	Mon 3/23/20	Fri 3/27/20																											
24		GRADE ACCESS ROAD AND WELL SITE PADS	10 days	Mon 3/30/20	Fri 4/10/20																											
25		BOART LONGYEAR WELL DRILLING (PER PROPOSAL SCHEDULE)	147 days	Mon 4/13/20	Fri 11/6/20																											
26		HDD	15 days	Mon 9/28/20	Fri 10/16/20																											
27		FUSE & STRING DRILL PIPE	10 days	Mon 9/28/20	Fri 10/9/20																											
28		INSTALL FEED WATER MAIN FROM STA. 31+00 to Sta.	15 days	Mon 10/19/20	Fri 11/6/20																											
29		MECHANICAL PIPE & VAULTS WELL SITE #1	15 days	Mon 11/9/20	Tue 12/1/20																											
30		MECHANICAL PIPE & VAULTS WELL SITE #2	20 days	Wed 12/2/20	Wed 12/30/20																											
31		MECHANICAL PIPE & VAULTS WELL SITE #3	15 days	Thu 12/31/20	Thu 1/21/21																											
32		MECHANICAL PIPE & VAULTS WELL SITE #4	15 days	Fri 1/22/21	Thu 2/11/21																											
33		MECHANICAL PIPE & VAULTS WELL SITE #5	20 days	Fri 2/12/21	Fri 3/12/21																											
34		ELECTRICAL DUCT BANK & FIBER CONDUIT INSTALL	25 days	Mon 11/9/20	Tue 12/15/20																											
35		ELECTRICAL STUBS AND CONDUIT AT WELL SITES & SURGE TANKS	50 days	Wed 12/16/20	Fri 2/26/21																											
36		EQUIPMENT PADS	10 days	Mon 3/1/21	Fri 3/12/21																											
37		SET & PLUMB TANKS	10 days	Mon 3/15/21	Fri 3/26/21																											
38		SET & TERMINATE ELECTRICAL EQUIPMENT	20 days	Mon 3/29/21	Fri 4/23/21																											
39		SET PG&E TRANSFORMER & CONNECT SERVICE	2 days	Mon 3/15/21	Tue 3/16/21																											
40		COMMISSIONING & TESTING	98 days	Mon 3/29/21	Fri 8/13/21																											

Project: Baseline Schedule
Date: Thu 7/25/19

Task		Project Summary		Manual Task		Start-only		Deadline	
Split		Inactive Task		Duration-only		Finish-only		Progress	
Milestone		Inactive Milestone		Manual Summary Rollup		External Tasks		Manual Progress	
Summary		Inactive Summary		Manual Summary		External Milestone			



Complete the items below:

1. Is bidder/proposer certified as a Diverse Business Enterprise with the CPUC Supplier Clearinghouse and/or the California Department of General Services?

Respond YES or NO: No

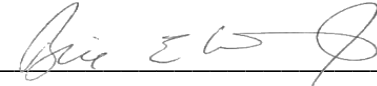
If YES, provide a copy of your certification with your bid/proposal and identify which classification your firm is certified under (i.e., MBE, WBE, DVBE, or LGBTBE):

2. What is the DBE Requirement (the percentage of the Contract Price that will be paid to DBEs) that bidder/proposer will agree to in the contract for the Contract Services?

30 % of Contract Price (such percentage must be equal to or greater than the DBE Minimum as set forth above)

Bidder/Proposer Name: Garney Pacific. Inc

Printed Name of Authorized Person: Bill E Williams

Signature of Authorized Person: 

Title of Authorized Person: Senior Vice President



**Disadvantaged Business Enterprise (DBE) Program
DBE Subcontractor Performance Form**

This form is intended to capture the DBE¹ subcontractor's² description of work to be performed and the price of the work submitted to the prime contractor. A Financial Assistance Agreement Recipient must require its prime contractor to have its DBE subcontractors complete this form and include all completed forms in the prime contractor's bid or proposal package.

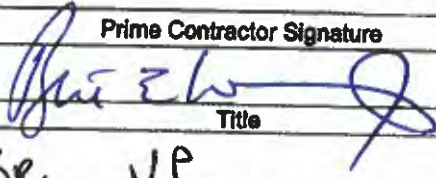
Subcontractor Name Arroyo Trucking Inc		Project Name Slant wood intake	
Bid / Proposal No.	Assistance Agreement ID No. (if known)	Point of Contact Debra Archibald	
Address P.O. Box 1868			
Telephone No. 925-447-8440		Email Address arroyotkg@comcast.net	
Prime Contractor Name Garnay Construction		Issuing/Funding Entity	

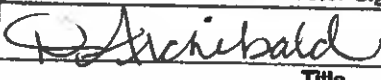
Contract Item Number	Description of Work Submitted from the Prime Contractor involving Construction, Services, Equipment or Supplies	Price of Work Submitted to the Prime Contractor
	Aggregate Supply & Trucking	\$54,553⁰⁰
DBE Certified By: <input type="checkbox"/> DOT <input type="checkbox"/> SBA Other: Caltrans WBE		Meets/exceeds EPA certification standards? YES NO Unknown

¹ A DBE is a Disadvantaged, Minority, or Woman Business Enterprise that has been certified by an entity from which EPA accepts certifications as described in 40 CFR 33.204-33.2015 or certified by EPA. EPA accepts certifications from entities that meet or exceed EPA certification standards as described in 40 CFR 33.202.

² Subcontractor is defined as a company, firm, joint venture, or individual who enters into an agreement with a contractor to provide services pursuant to an award of financial assistance.

I certify under penalty of perjury that the forgoing statements are true and correct. Signing this form does not signify a commitment to utilize the subcontractors above. I am aware that in the event of a replacement of a subcontractor, I will adhere to the replacement requirements set forth in 40 CFR Part 33 Section 33.302 (c).

	Print Name
Title	Bill E Williams
SR. VP	Date
	6/29/19

	Print Name
Title	Debora A. Archibald
Pres.	Date
	7.22.19

The public reporting and record keeping burden for this collection of information is estimated to average three (3) hours per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Do not send the completed form to this address.



**Disadvantaged Business Enterprise (DBE) Program
DBE Subcontractor Utilization Form**

This form is intended to capture the prime contractor's actual and/or anticipated use of identified certified DBE¹ subcontractor's² and the estimated dollar amount of each subcontract. A Financial Assistance Agreement Recipient must require its prime contractors to complete this form and include it in the bid or proposal package. Prime contractors should also maintain a copy of this form on file.

Prime Contractor Name GARNEY PACIFIC, INC.		Project Name SLANT WELL INTAKE	
Bid / Proposal No.	Assistance Agreement ID No. (if known)	Point of Contact BILL E. WILLIAMS	
Address 324 E. 11TH ST. SUITE E2 TRACY, CA 95376			
Telephone No. 925-800-1848		Email Address BEWILLIAMS@GARNEY.COM	
Issuing/Funding Entity			

I have identified potential DBE certified subcontractors. YES NO
If yes, please complete the table below. If no, please explain:

Subcontractor Name/ Company Name	Company Address / Phone / Email	Estimated Dollar Amount	Currently DBE Certified?
ARROYO TRUCKING	OAKDALE, CA 925-447-8440 ARROYOTK6@COMCAST.NET	54,533⁰⁰	YES
AQUEOUS VETS	DANVILLE, CA 925-967-5232 RCRAW@AQUEOUSVETS.COM	3,609,983	YES

-Continue on back if needed-

¹ A DBE is a Disadvantaged, Minority, or Woman Business Enterprise that has been certified by an entity from which EPA accepts certifications as described in 40 CFR 33.204-33.2015 or certified by EPA. EPA accepts certifications from entities that meet or exceed EPA certification standards as described in 40 CFR 33.202.

² Subcontractor is defined as a company, firm, joint venture, or individual who enters into an agreement with a contractor to provide services pursuant to an award of financial assistance.

I certify under penalty of perjury that the forgoing statements are true and correct. Signing this form does not signify a commitment to utilize the subcontractors above. I am aware that in the event of a replacement of a subcontractor, I will adhere to the replacement requirements set forth in 40 CFR Part 33 Section 33.302 (c).

 Prime Contractor Signature	Print Name
 Title	BILL E. WILLIAMS
VICE PRESIDENT	Date
	7/29/2019

The public reporting and record keeping burden for this collection of information is estimated to average three (3) hours per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Do not send the completed form to this address.



**Disadvantaged Business Enterprise (DBE) Program
DBE Subcontractor Performance Form**

This form is intended to capture the DBE¹ subcontractor's² description of work to be performed and the price of the work submitted to the prime contractor. A Financial Assistance Agreement Recipient must require its prime contractor to have its DBE subcontractors complete this form and include all completed forms in the prime contractor's bid or proposal package.

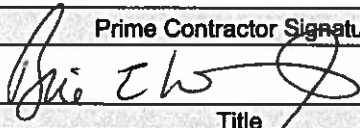
Subcontractor Name Aqueous Vets		Project Name Slant Well Intake	
Bid / Proposal No.	Assistance Agreement ID No. (if known)	Point of Contact Rob Crow	
Address 288 Jasmine Way, Danville, CA 94506			
Telephone No. 925-967-5232		Email Address rcraw@aqueousvets.com	
Prime Contractor Name		Issuing/Funding Entity California American Water	

Contract Item Number	Description of Work Submitted from the Prime Contractor Involving Construction, Services, Equipment or Supplies	Price of Work Submitted to the Prime Contractor
	Procurement and Management of materials. Scheduling of deliveries and submittals	\$3,609,983
DBE Certified By: <u>DOT</u> <input checked="" type="checkbox"/> SBA Other: <u>US Department of Veterans Affairs</u>		Meets/exceeds EPA certification standards? <input checked="" type="checkbox"/> YES NO Unknown

¹ A DBE is a Disadvantaged, Minority, or Woman Business Enterprise that has been certified by an entity from which EPA accepts certifications as described in 40 CFR 33.204-33.2015 or certified by EPA. EPA accepts certifications from entities that meet or exceed EPA certification standards as described in 40 CFR 33.202.

² Subcontractor is defined as a company, firm, joint venture, or individual who enters into an agreement with a contractor to provide services pursuant to an award of financial assistance.

I certify under penalty of perjury that the forgoing statements are true and correct. Signing this form does not signify a commitment to utilize the subcontractors above. I am aware that in the event of a replacement of a subcontractor, I will adhere to the replacement requirements set forth in 40 CFR Part 33 Section 33.302 (c).

Prime Contractor Signature	Print Name
	BILL E. WILLIAMS
Title	Date
VICE PRESIDENT	7/29/19

Subcontractor Signature	Print Name
	Rob Crow
Title	Date
VP of Business Development	7/23/19

The public reporting and record keeping burden for this collection of information is estimated to average three (3) hours per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Do not send the completed form to this address.

DEPARTMENT OF TRANSPORTATION
OFFICE OF BUSINESS AND ECONOMIC
OPPORTUNITY
1823 - 14TH STREET
SACRAMENTO, CA 95811
Phone (916) 324-1700
Fax (916) 324-1862
TTY 711
www.dot.ca.gov



Making Conservation
a California Way of Life.

April 25, 2018

Debora Ann Nelson
Arroyo Trucking, Inc.
P.O. Box 1868
Oakdale, CA 95361

Firm ID: 30710

Subject: State Minority Business Enterprise (SMBE) and/or State Women Business Enterprise (SWBE) Recertification Approval

Dear Debora Ann Nelson :

Thank you for your continued interest in the State Minority Business Enterprise (SMBE) and/or State Women Business Enterprise (SWBE) Certification Program.

We are pleased to inform you that your business has been recertified and your firm's SMBE and/or SWBE certification is good through **May 1, 2020**.

Please note that SMBE and/or SWBE certificates will no longer be issued when certifications are renewed. You will need to retain this letter as verification of your firm's certification.

We wish you much success in your continued business endeavors.

Sincerely,

A handwritten signature in black ink, appearing to read "Marylee Miglino".

MARYLEE MIGLINO
Office Chief
Certification Branch

BUSINESS ENTERPRISE CERTIFICATE

ARROYO TRUCKING, INC.

15303 ORANGE BLOSSOM RD
OAKDALE, CA 95361

Owner: DEBORA ANN NELSON

Business Structure: CORPORATION

STATE WOMEN BUSINESS ENTERPRISE

This Certification Not Valid For Federal Aid Contracts

This certificate acknowledges that said firm is approved by the California Department of Transportation as a State Minority Business Enterprise or State Women Business Enterprise (or in some cases both) in accordance with Assembly Bill Number 486, Chapter 1329 and the California Public Code, Chapter 2.5 (commencing with Section 2050), for the following NAICS codes:

* 488510 Freight Transportation Arrangement

* Indicates primary NAICS code

CERTIFYING AGENCY:
DEPARTMENT OF TRANSPORTATION
1823 14TH STREET, MS 79
SACRAMENTO, CA 95814 0000
(916) 324-1700

Firm Number : 30710

Renewal Date : April 1, 2018

Janice Salais
Janice Salais, CERTIFYING AGENCY REPRESENTATIVE

March 17, 2016

Slant Well Intake System

Sent

Thu, Jul 11, 2019 6:43 pm

Table of contents

Overview	1
Opens by location	2
Subscriber activity	3
Click performance	4
Social stats	5
Advanced reports	6

Overview

697 Recipients

List: Pipe_Plant Master 19.07.11

Delivered: Thu, Jul 11, 2019 6:43 pm

Subject: Looking to bid? Garney Construction is Seeking Quotes

<p>0 Orders</p>	<p>\$0.00 <u>Average order revenue</u></p>	<p>\$0.00 <u>Total revenue</u></p>
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Open rate	31.8%	Click rate	0.3%
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List average	29.6%	List average	0.4%
Industry average ()	0.0%	Industry average ()	0.0%




<p>217 Opened</p>	<p>2 Clicked</p>	<p>15 Bounced</p>	<p>4 Unsubscribed</p>
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Successful deliveries	682 97.8%	Clicks per unique opens	0.9%
Total opens	334	Total clicks	200.0
Last opened	7/29/19 12:55PM	Last clicked	7/17/19 10:46PM
Forwarded	0	Abuse reports	0

Slant Well Intake System

Sent 7/11/19 6:43PM

Opens by location

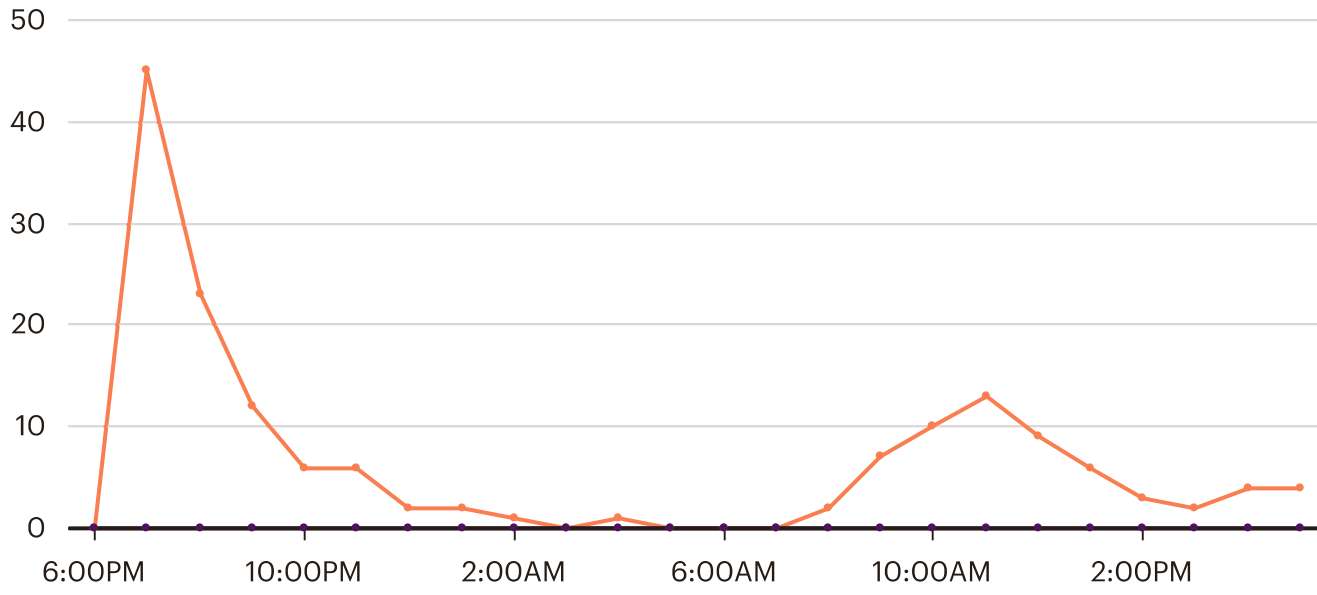
Country	Opens	Percent
 USA	317	97.2%
 Canada	8	2.5%
 Italy	1	0.3%

Subscriber activity

24-hour performance

Opens

Clicks



Top links clicked

http://www.garney.com/	1
https://planroom.garney.com	1
http://garney.com/	0
http://www.garney.com	0
https://twitter.com/Garneyconstruct	0

Subscribers with most opens

lee.albright@Lasteelservices.com	5
kellie@avilatrafic.com	12
markecsols@yahoo.com	7
juan@themopcrew.com	5
duckworthinc@gmail.com	9



ADVANCING WATER

**Looking for a bid opportunity?
Garney Construction wants to hear from you!**



Hello,

Please respond to this email if you are interested in providing a quote or sub-bid for the following opportunity:

PROJECT OUTREACH PROJECT INFO:

Project Name: Slant Well Intake System

Project Location: Monterey, CA

Awarding Agency Owner: Cal-American Water

Bid Due Date/Time: July 22, 2019 @ 2:00 PM

PROJECT OUTREACH DESCRIPTION

Garney Construction is bidding the Slant Well Intake System in Monterey, CA as a Prime General Contractor. We are actively seeking sub-bids on all trades from qualified & certified DBE, DVBE, WBE, SBE, subcontractors & suppliers. Subcontractors are required to meet insurance and labor requirements. Subcontractors may be required to provide [100] % Payment and Performance Bonds. Please contact us for assistance. Plans and specs are available for your review at our office or you can send request or interest in this project and we will send you the specs/plans. Your quote should be sent to our office prior to the bid date/time. For assistance with bonding, insurance, or lines of credit contact our office at 925-800-1845. Portions of work for the project include (but are not limited to) the following: pipe and material supply, aggregates, electrical, mechanical, trucking, survey, concrete, scheduling, testing, monitoring, Cathodic Protection, directional drilling. The Project will consist of installation of approximately 2,300 linear feet of pipeline (700 by Directional Drill), including valves and instrumentation, within the CEMEX Sand Mining Site, which includes site grading, mechanical piping, concrete electrical enclosures, electrical, instrumentation, and controls, pump to waste basins, site restoration, and utility abandonment.

OUTREACH TERMS AND REQUIREMENTS

- To view or obtain plans, specs, and project document, FIRMS should contact the CONTRACTOR to get required project resource.
- The CONTRACTOR will provide FIRMS, if requested, with required assistance in bonding, insurance.
- Quotes per project bid items must be submitted before the due bid date and time to allow proper evaluation.
- Quotes are required to be in accordance with project plans, specs, and good

- Quotes are required to be in accordance with project plans, specs, and good for the entire contract duration.
- The project is a prevailing wage public job. The FIRM's quote must consider all terms related to prevailing wages terms.
- FIRMS must possess and maintain a current contractor license, insurance, and worker compensation coverage during the project
- 100% payment bond and performance bond for the full amount of the subcontract price may be required.
- FIRMS that submit their quote explicitly acknowledge and agree to all above terms and responsibilities.
- We are an equal opportunity employer. We do not discriminate against any qualified contractors, subcontractors, suppliers
- The firm must be registered with Department of Industrial Relation and should have a current DIR number.

FIRM NAICS CLASSIFICATION

Water and Sewer Line and Related Structures Construction	Electrical Contractors and Other Wiring Installation Contractors	Site Preparati on Contract ors	Electrical Contractors and Other Wiring Installation Contractors	Site Preparati on Contract ors
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RESPOND & RETURN

Multiple ways to obtain more information and/or submit a quote:

1. Respond to this email or email directly: mroberts@garney.com
2. Call Matt Roberts at: 925-800-1845
3. Fax quote before bid due date to: 209.229.1870

Slant Well Intake System

Sent 7/11/19 6:43PM

Click performance

URL	Total	Unique
http://www.garney.com/	1 (50%)	1 (50%)
https://planroom.garney.com	1 (50%)	1 (50%)
http://garney.com/	0 (0%)	0 (0%)
http://www.garney.com	0 (0%)	0 (0%)
https://twitter.com/Garneyconstruct	0 (0%)	0 (0%)
https://www.facebook.com/garneyconstruction	0 (0%)	0 (0%)
https://www.linkedin.com/company/garney-construction	0 (0%)	0 (0%)

Social stats

No Facebook activity yet
Learn [how to add a like button](#) to your next campaign.

Campaign URL activity - 1 clicks

No geographic clicks have been registered yet

No campaign URL activity to report yet.

Slant Well Intake System

Sent 7/11/19 6:43PM

Advanced reports

Email domain performance

Domain	Email	Bounces	Opens	Clicks	Unsubs
gmail.com	98 (14%)	0 (0%)	48 (49%)	1 (1%)	1 (1%)
yahoo.com	88 (13%)	0 (0%)	28 (32%)	0 (0%)	0 (0%)
sbcglobal.net	38 (5%)	0 (0%)	12 (32%)	0 (0%)	0 (0%)
aol.com	30 (4%)	0 (0%)	10 (33%)	1 (3%)	0 (0%)
hotmail.com	12 (2%)	0 (0%)	6 (50%)	0 (0%)	0 (0%)
Other	431 (62%)	15 (3%)	113 (27%)	0 (0%)	3 (1%)

contractor@dirtagg.com	DIRT & AGGREGATE INTERCHANGE, INC	20905 NE COLUMBIA BLVD ASIAN PACIFIC OR 97024	HENRY PELFREY	C1901 ROADWAY EXCAVATION; J9720 INTERNATIONAL AFFAIRS; C8391 METAL BEAM BARRIER; C0683 GUARD RAILINGS & BARRIERS SUPPLIER; C1522 RESET, ADJUST ROADWAY ITEMS; C1920 STRUCTURE EXCAVATION; C8330 METAL RAILING; C1000 WHOLESALE BROKER OF CONSTRUCT	ASIAN PACIF DBE
jose@centralcoasttrafficsafety.com	CENTRAL COAST TRAFFIC SAFETY, INC.	2356 TEELYN AVENUE HISPANIC CA 93458	JOSE NEGRETE	C1290 TEMPORARY RAILING (TYPE K); C9907 CONSTRUCTION EQUIPMENT RENTAL; C1522 RESET, ADJUST ROADWAY ITEMS; C5620 ROADSIDE SIGN; C1211 TRAFFIC FLAGGERS; C1200 CONSTRUCTION AREA SIGNS; C1201 TRAFFIC CONTROL SYSTEM; C8201 OBJECT MARKER;	HISPANIC DBE
garyc@krccsafety.com eq@fssinc24.com	K R C SAFETY CO. INC. FOUNDATION SOIL STABILIZATION, INC.	7821 WEST SUNNYVIEW NATIVE AMERICAN CA 93291 3496 BUSKIRK AVE SUITE 105 HISPANIC CA 94523	GARY CASTRO ERIC QUILES	C1290 TEMPORARY RAILING (TYPE K); C4904 DRILLED HOLE; C8396 CRASH CUSHION; C9907 CONSTRUCTION EQUIPMENT RENTAL; C2030 EROSION CONTROL; C0683 GUARD RAILINGS & BARRIERS SUPPLIER; C1522 RESET, ADJUST ROADWAY ITEMS; C8405 THERMOPLASTIC TRAFFIC SIGNS; C4901 FURNISH & DRIVE PILING; C9903 CONSTRUCTION CLEAN UP; C9905 CUTTING; C8770 CONSTRUCTION MANAGEMENT; C4010 PORTLAND CEMENT & CONCRETE PAVEMENT; C5100 CONCRETE STRUCTURE; C7301 CONCRETE CURB & SIDEWALK - MISC; C2030 EROSION CONTROL; C2021 HYDROSEEDING; C2066 TEMPORARY EROSION CONTROL; A0710 SOIL PREPARATION SERVICES; A0780 LANDSCAPE & HORTICULTURAL SERVICES;	NATIVE AME DBE HISPANIC DBE BLACK DBE
richiecarla@earthlink.net	SIERRA RANGE CONSTRUCTION	P.O. BOX 427 BLACK CA 93279	RICHARD JONES	C1901 ROADWAY EXCAVATION; C1940 DITCHES EXCAVATION; C1920 STRUCTURE EXCAVATION; C1601 CLEARING & GRUBBING; C9980 DEMOLITION; C1930 STRUCTURE BACKFILL;	CAUCASIAN DBE
pjuette@jmlandrestoration.com	J & M LAND RESTORATION, INC.	1640 JAMES ROAD CAUCASIAN CA 93308	PAMELA JUETTE	C9602 BOTTOM DUMP TRUCKING; C8000 FENCING; E4730 FREIGHT TRANSPORTATION ARRANGEMENT; E4953 WASTE COLLECTION AND DISPOSAL; C9774 TRUCKER; C9605 FLAT BED TRUCKING;	ASIAN PACIF DBE HISPANIC DBE HISPANIC DBE BLACK DBE
robin@rockinrinc.com FORKHAI@YAHOO.COM sales@siffence.com GICTransport@att.ne TWTRUCKING@YAHOO.COM	ROCKIN' R GRADING & EXCAVATING NCT INCORPORATION S & L FENCE CO. GIC CORPORATION TW TRUCKING	9637 RODDEN RD CAUCASIAN CA 95361 912 CAPE BUFFALO DR. ASIAN PACIFIC CA 95133 1096 FULTON AVE HISPANIC CA 94086 14211 EUCLID ROAD HISPANIC CA 91762 6973 FENTON STREET BLACK CA 91710	ROBIN COSTA KHAI TRAN LUCY CASTILLO ALBERTO CRUZ MELVIN PHILLIPS	C0900 BRIDGE DECK MATERIALS SUPPLIERS; C0670 PIPE SUPPLIER; C0698 BUILDING MATERIAL SUPPLIER; C0653 STEEL SOLDIER PILES; C0654 TIMBER LAGGING; C5190 JOINT SEAL - WATER STOP; C9907 CONSTRUCTION EQUIPMENT RENTAL; C2030 EROSION CONTROL; C9908 HEAVY EQUIPMENT RENTAL (OWNED EQUIP ONLY); C2066 TEMPORARY EROSION CONTROL; C8776 Construction Management - Other Heavy and Civil Construction; C1601 CLEARING & GRUBBING; C1910 G	CAUCASIAN DBE ASIAN PACIF DBE HISPANIC DBE HISPANIC DBE BLACK DBE CAUCASIAN DBE
karen@rupertsupply.com	RUPERT CONSTRUCTION SUPPLY, LP	12405 GOLD FLAKE CT. CAUCASIAN CA 95741	KAREN WONNENBERG	C1920 STRUCTURE EXCAVATION; C9774 TRUCKER; C9980 DEMOLITION; C9632 HAZARDOUS SUBSTANCE REMOVAL;	HISPANIC DBE HISPANIC DBE
ckearthwork@gmail.com genaro@dominguezandsons.com	CK ENGINEERING DOMINGUEZ & SONS TRUCKING, INC	27482 POWDER COURT HISPANIC CA 92584 529 N. 10TH STREET HISPANIC CA 95112	KEVIN AUSTIN GENARO DOMINGUEZ	C9988 MOVING & STORAGE; C1901 ROADWAY EXCAVATION; C2030 EROSION CONTROL; C1575 REMOVE BRIDGE ITEM; C1940 DITCHES EXCAVATION; C2066 TEMPORARY EROSION CONTROL; C1601 CLEARING & GRUBBING; C1801 DUST PALLIATIVE; C2065 IRRIGATION SYSTEM; C9602 BOTTOM DUMP TRUCKING; C9607 END DUMP TRUCK; C9604 SUPER 10 DUMP TRUCK; C9605 FLAT BED TRUCKING;	NATIVE AME DBE HISPANIC DBE
oliverconst.eng@gmail.com marco@kodiaktruckinginc.com	OLIVER ENGINEERING CONSTRUCTION KODIAK TRUCKING, INC.	3961 PERCH CIRCLE NATIVE AMERICAN CA 95490 14059 S. UNION AVE HISPANIC CA 93307	AARON OLIVER MARCO A. ARAMBULA		



TAB 4

A photograph of a construction site featuring several large yellow excavators and wheel loaders. Large black pipes are visible in the background. The image is overlaid with a semi-transparent blue filter.

4.0: BUSINESS AND PRICE PROPOSAL

SUMMARY OF BUSINESS AND PRICE PROPOSAL

Following project award, and after returning bonds, insurance, and contract documents, Garney will begin preconstruction activities for the Slant Well Intake Project. During preconstruction we will begin working on high priority electrical submittals, permits, value engineering, final schedules, and public outreach.

As preconstruction transitions to construction, we will establish SWPPP controls and begin site grading. Upon confirmation of a clear pipeline alignment, Garney and our subcontractors will begin construction based on our final schedule. We anticipate the major construction activities on this project to take place from March 2020 through June 2021. Any delay to this schedule will result in added cost, however we have included 33 working days in our schedule to mitigate any time related impacts.

ATTACHMENT C: BID PACKAGE

The price provided on the Slant Well Intake Project bid sheet on the following pages is based on Addenda 1-3 and the provided plans and specifications dated November 1, 2018.

If both the Slant Well Intake project and Castroville Pipeline project (submitted to CAWC on July 23, 2019) are awarded to Garney, we would deduct \$150,000 from the Slant Well Intake proposal bid price.

PROPOSAL FORM 6: ACCEPTANCE OF CONTRACT

A signed Proposal Form 6 is included on the following page.

BID PROPOSAL

Project Name: MPWSP Slant Well Intake System – Civil Construction
Project No. xxxxxxxx

1. Bids shall be completed on the bid schedule (page 6). All numbered bid items must be completed. Numbers shall be stated in figures (numeric) and the bid schedule signed. Any corrections to entries made on bid schedule shall be initialed by the person (s) signing the bid. Before submitting a bid, bidders shall carefully examine the project documents and applicable California American Water "Standards and Specifications", inspect the site of the work, fully inform themselves as to all existing governmental agency conditions and limitations and shall include a total cost figure on the bid proposal form.
2. The undersigned, having familiarized himself/herself with the local conditions affecting the cost of the work, and with the Contract Documents, for the above named project, do hereby propose to perform everything required to be performed, and to provide and furnish all labor, materials (except water meters), tools, expendable equipment, and all utility and transportation services necessary to complete work in the above named project, all in accordance with the prepared drawings, bidding documents and specifications.
3. The undersigned agrees, if awarded the contract, to start work within 15 calendar days after receipt of Notice to Proceed (scheduled to be issued October 15, 2019), and to complete same, ready for substantial and unobstructed use by owner in 545 calendar days thereafter.
4. In submitting this bid, it is understood that the right is reserved by the owner to reject any and all bids or any portion thereof. It is agreed that this bid may not be withdrawn for a period of ninety (90) days from the opening thereof.
5. The undersigned firm/individual holds California State Construction License Number 999415 and Worker's Compensation Policy Number WA2-640-426942-738 issued by LIBERTY MUTUAL.
6. The undersigned acknowledges receipt of the contract documents for the project consisting of the Project Manual dated April 2019 together with all attached documents and has in his possession a copy of the Company's current "Standards and Specifications". The undersigned acknowledges that addenda numbers 1 through 3 have been received and examined as part of the Contract Documents.
7. The undersigned understands that if awarded bid, invoices and payments shall be for actual Quantities of material installed at unit cost for each bid item.

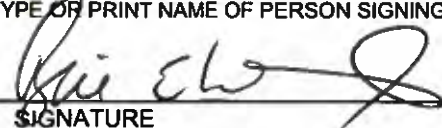
CONTRACTOR: GARNEY PACIFIC, INC.

ADDRESS: 324 E. 11TH ST. SUITE E2

CITY & STATE: TRACY, CA 95376

TELEPHONE NO.: 925-800-1848

BY: BILL E. WILLIAMS TITLE: VICE PRESIDENT
TYPE OF PRINT NAME OF PERSON SIGNING BID PROPOSAL

BY:  DATE: 7/29/19
SIGNATURE

BIDS ARE TO BE RETURNED NO LATER THAN 3:00 P.M. ON MONDAY, JULY 29, 2019 AT CAL-AM'S LOCAL OFFICE. SEE INSTRUCTIONS AND ADDRESS IN SECTION 4.3 PROPOSAL SUBMISSION.

BID SCHEDULE

Item No.	Spec./ Section or Sheet	Item Quantity	Item Unit	Item Description	Unit Cost	Total Item Cost
1	-	1	LSUM	General Conditions, Mobilization, Limits of Construction Boundary Fencing, and Demobilization	\$ 525,000.00	\$ 525,000.00
2	G2, 01025	1	LSUM	MSHA Training for ALL Possible Workers that Work on the CEMEX Sand Mining Site.	\$ 25,000.00	\$ 25,000.00
3	SGC Section 4	1	LSUM	Environmental Mitigation Measures	\$ 25,000.00	\$ 25,000.00
4	C17-C18 01025, 02540	1	LSUM	Stormwater BMP Installation & Maintenance	\$ 50,000.00	\$ 50,000.00
5	C2-C,7 01025	1	LSUM	As-Needed Site Grading for Level Well Site (working) Pads and Access Roads	\$ 200,000.00	\$ 200,000.00
6	C8-C11, 01025, 15000	1	LSUM	36" PVC C900 (DR-25) Feed Water Pipeline (HDD segment covered in Bid Item #7)	\$ 2,050,000.00	\$ 2,050,000.00
7	C10-C11 01025,	700	LF	36" FPVC (DR_25) Feed Water Pipeline – Horizontal Directional Drill (HDD) Install	\$ 2,000.00	\$ 1,400,000.00
8	01025, 15020, 15025, 15030	1	LSUM	Pipeline Disinfection, Bacteriological Testing, and Pressure Testing (ALL PIPELINES).	\$ 50,000.00	\$ 50,000.00
9	M1, 01025, 15151, 15171, 15034, 15065 15191, 16520	1	LSUM	Well Site #1 Mechanical Piping (1 Well)	\$ 275,000.00	\$ 275,000.00
10	M2, 01025, 15151, 15155, 15171, 15034, 15065 15191, 16520	1	LSUM	Well Site #2 Mechanical Piping (2 Wells)	\$ 350,000.00	\$ 350,000.00
11	M1, 01025, 15151, 15171, 15034, 15065 15191, 16520	1	LSUM	Well Site #3 Mechanical Piping (1 Well)	\$ 200,000.00	\$ 200,000.00
12	M1, 01025, 15151, 15171, 15034, 15065 15191, 16520	1	LSUM	Well Site #4 Mechanical Piping (1 Well)	\$ 200,000.00	\$ 200,000.00

CONTRACTOR: Garney Pacific, Inc.

Item No.	Spec./ Section or Sheet	Item Quantity	Item Unit	Item Description	Unit Cost	Total Item Cost
13	M2, 01025, 15151, 15155, 15171, 15034, 15065, 15191, 16520	1	LSUM	Well Site #5 Mechanical Piping (2 Wells)	\$ 350,000.00	\$ 350,000.00
14	01025, 03480; S1	7	EA	Concrete Precast Vault with Access Hatch	\$ 60,000.00	\$ 420,000.00
15	S1 0102	5	EA	Pump-To-Waste Basins	\$ 5,000.00	\$ 25,000.00
16	C3-C7, C12-C13 01025	1,050	LF	8' PVC Coated Chain Link Fence and Gates with Tan (Sand) Colored Privacy Slats	\$ 146.00	\$ 153,300.00
17	C12, M5, 01025, 11700, 09900	1	LSUM	3,000 Gallon Surge Tank #1	\$ 210,000.00	\$ 210,000.00
18	C13, M6, 01025, 11700, 09900	1	LSUM	8,000 Gallon Surge Tank #2	\$ 335,000.00	\$ 335,000.00
19	01025, 03300	1	LSUM	Concrete and Reinforcing Steel	\$ 140,000.00	\$ 140,000.00
20	E8, S2, M4, 01025	1	LSUM	Well Site #1 Enclosure, Electrical, Controls, and HVAC	\$ 380,000.00	\$ 380,000.00
21	E9, S2, M4, 01025	1	LSUM	Well Site #2 Enclosure, Electrical, Controls, and HVAC	\$ 500,000.00	\$ 500,000.00
22	E10, S2, M4, 01025	1	LSUM	Well Site #3 Enclosure, Electrical, Controls, and HVAC	\$ 380,000.00	\$ 380,000.00
23	E11, S2, M4, 01025	1	LSUM	Well Site #4 Enclosure, Electrical, Controls, and HVAC	\$ 380,000.00	\$ 380,000.00
24	E12, S2, M4, 01025	1	LSUM	Well Site #5 Enclosure, Electrical, Controls, and HVAC	\$ 500,000.00	\$ 500,000.00
25	01025, 16430	1	LSUM	1,500 KVA & 1,000 KVA Transformers	\$ 170,000.00	\$ 170,000.00
26	01025; 16000, 16050, 16051; 16345, 16430.	1	LSUM	All Other Electrical Components including main switchgear, etc.	\$ 1,550,000.00	1,550,000.00
27	16050, 16130, 13321	1	LSUM	Fiber Optic Conduit, Pull Boxes, and Patch Panels (FO cable installation by others)	\$ 90,000.00	\$ 90,000.00

CONTRACTOR: Garney Pacific, Inc.

Item No.	Spec./ Section or Sheet	Item Quantity	Item Unit	Item Description	Unit Cost	Total Item Cost
<u>TOTAL BID AMOUNT</u>					\$	10,933,300.00

CONTRACTOR:

Garney
07/29/2019

DATE:

California American Water
(Bid Verification Only)

Name	Date

**Monterey Peninsula Water Supply Project
Request for Proposals for the Slant Well Intake System – Civil Work**

PROPOSAL FORM 6

ACCEPTANCE OF THE CONTRACT

Proposer agrees to all of the provisions of the draft Contract except as expressly provided in the track changes or redline version of the draft Contract that is attached to this Proposal Form.

Garney Pacific, Inc.
Name of Proposer

Bill E. Williams
Name of Designated Signatory


Signature

Senior Vice President
Title





APPENDIX



BILL E. WILLIAMS, JR. **Executive & Program Leadership**

Garney Experience: 5 years

Industry Experience: 35 years

Education

California State University,
Coursework in Mathematics

Certifications & Training

Member of United Contractors

Professional Summary

Bill is the Director and Vice President of Garney Pacific, Inc. He is responsible for all projects constructed in California and Nevada, including project contract negotiations and personnel management. He has more than 30 years of experience in estimating and project management experience. As Executive & Program Leadership representative, Bill will serve as the primary point of contact for CAW and ensure that necessary resources are available for this project. Bill will be responsible for all aspects of client satisfaction, quality, safety, and schedule.

PROJECT EXPERIENCE

MONTEREY PENINSULA WATER SUPPLY PROJECT

California American Water / \$75,865,751

Principal-in-Charge. Installation of 85,000 LF of 36” DIP water pipe, 13,000 LF of 42” PVC pressure water pipe, an 800 LF 36” auger bore, and 50 water service connections.

MARE ISLAND SEWER AND WATER MAIN REPLACEMENT

Vallejo Sanitation and Flood Control District / \$13,192,024

Principal-in-Charge. Installation of water and sewer pipelines bundled together in two 54” HDDs for 2,600 LF each. The bundled pipelines consist of 21” HDPE sanitary sewer force main, 12” HDPE reclaimed waterline, four 4” HDPE fiber optic lines, and two 18” HDPE waterlines. Also includes 22,000 sf of paving and two 24” meters.

WALERGA ROAD TANK FILL PIPELINE AND PFE ROAD INTERTIE PIPELINE

California American Water / \$1,660,851

Principal-in-Charge. Installation of 1,560 LF of 12” and 2,650 LF of 24” DIP water main, pavement restoration, interconnections with existing facilities, and GPS data.

SARCO CREEK BRIDGE REPLACEMENT PIPELINE

City of Napa, CA / \$1,398,500

Principal-in-Charge. Includes 650 LF of 24” fused PVC carrier pipe pulled through a 30” fused PVC casing using a horizontal directional drill and installation of 350 LF of 1-1.5” fusible PVC.

RECYCLED WATER TRANSMISSION MAIN SW1B

City of Fresno, CA / \$10,980,465

Principal-in-Charge. Installation of 16,317 LF of 36” and 48” mortar-lined steel waterline, 3,923 LF of 10” PVC pressure waterline, 355 LF of 14” DIP waterline, and a 478 LF auger bore of 66” pipe.



KEVIN DOWNS

Overall Project Manager

Garney Experience: 5 years

Industry Experience: 18 years

Education

California State University - Chico,
B.S. in Business Administration,
Production & Operations
Management

Certifications & Training

USACE Construction Quality
Management Certification

OSHA 30-Hour

OSHA Competent Person

Professional Summary

Kevin began his career in 2001 gaining experience in water and wastewater infrastructure construction for the last 18 years. Kevin has worked in both the private sector with wet utilities for developers and public works contracts including large diameter pipeline installations, pump stations, and reservoir holding tanks. As Overall Project Manager, Kevin will be responsible for the day-to-day operations of the project including scheduling, cost tracking, material purchasing, subcontracting, and billing. Kevin will be involved from the onset of the project through final completion.

PROJECT EXPERIENCE

MONTEREY PENINSULA WATER SUPPLY PROJECT

California American Water / \$75,865,751

Senior Project Manager. Installation of 85,000 LF of 36" DIP water pipe, 13,000 LF of 42" PVC pressure water pipe, an 800 LF 36" auger bore, and 50 water service connections.

MARE ISLAND SEWER AND WATER MAIN REPLACEMENT

Vallejo Sanitation and Flood Control District / \$13,192,024

Senior Project Manager. Installation of water and sewer pipelines bundled together in two 54" HDDs for 2,600 LF each. The bundled pipelines consist of 21" HDPE sanitary sewer force main, 12" HDPE reclaimed waterline, four 4" HDPE fiber optic lines, and two 18" HDPE waterlines. Also includes 22,000 sf of paving and two 24" meters.

HIGHWAY 29 WATER MAIN FREEWAY CROSSINGS

City of Napa, CA / \$2,205,850

Regional Operations Manager. Includes three highway crossings via horizontal directional drill consisting of three 16" casings of fusible C900 totaling 1,575 LF and three 12" carrier pipes of fusible C900 totaling 2,570 LF. Also requires interaction with CalTrans, public relations, paving, and four 1" water service connections.

SARCO CREEK BRIDGE REPLACEMENT PIPELINE

City of Napa, CA / \$1,398,500

Project Manager. Includes 650 LF of 24" fused PVC carrier pipe pulled through a 30" fused PVC casing using a horizontal directional drill and installation of 350 LF of 1-1.5" fusible PVC

WALERGA ROAD TANK FILL PIPELINE AND PFE ROAD INTERTIE PIPELINE

California American Water / \$1,660,851

Senior Project Manager. Installation of 1,560 LF of 12" and 2,650 LF of 24" DIP water main, pavement restoration, interconnections with existing facilities, and GPS data.



SEAN SUMMERS

Project/Commissioning Manager

Garney Experience: 3 years

Industry Experience: 9 years

Education

California Polytechnic State University, B.S. in Civil Engineering

Certifications & Training

USACE Construction Quality Management for Contractors

OSHA Competent Person - Confined Space, Fall Protection, and Trenching & Excavation

Professional Summary

Sean has been involved in the construction industry since 2010, starting his career out in heavy civil construction including highway and bridge construction, canal and pipeline installation, and structure retrofits. He has experience commissioning on past pipe and pump station projects, and will bring this insight to your project. As Project/Commissioning Manager, Sean's responsibilities include leading commissioning and start-up of the project.

PROJECT EXPERIENCE

MONTEREY PENINSULA WATER SUPPLY PROJECT

California American Water / \$75,865,751

Project Manager. Installation of 85,000 LF of 36" DIP water pipe, 13,000 LF of 42" PVC pressure water pipe, an 800 LF 36" auger bore, and 50 water service connections.

NORTHEAST ANTIOCH ANNEXATION WATER AND SEWER FACILITY

City of Antioch, CA / \$4,096,000

Project Manager. Includes the installation of 12,792 LF of 6" to 15" PVC sanitary gravity and water pipe, five 60" manholes, and 81 EA 4" water and 1" sewer service connections. The work requires a 21" jack and bore underneath a railroad, fire hydrants, surface restoration, water pollution control, traffic control, and public relations.

CANAL LEVEE ELIMINATION AND FLOOD CONTROL SEGMENTS 3 AND 4

Contra Costa Water District / \$15,428,000

Project Manager. Installation of 5,500 LF of new 120" reinforced concrete pipeline (RCP); demolition of two box culverts and Canal levee berms; installation of temporary sheet pile cofferdams; temporary bypass system; dewatering of the Canal, the water disposal system, and trench/excavations; construction of storm drains, access structure, seepage barriers, and a temporary inlet structure; and final grading, planting, and irrigation system.

CATALINA SANITARY & STORM DRAINAGE PIPELINE AND PUMP STATION

Landsea Holdings Corporation / \$1,409,449

Project Manager. The storm drain scope includes the installation of 1,020 LF of 15" to 8" HDPE and RCP stormwater pipe, twelve 48" manholes, and a pump station. The water and sewer scope includes the installation of 410 LF of 12" and 8" DIP waterline, 1,220 LF of 8" PVC waterline, and 750 LF of 6" PVC gravity sewer pipe.



JOSHUA GALLAGHER, STSC Safety Manager

Garney Experience: 1 years

Industry Experience: 10 years

Certifications & Training

ATSSA Certified Flagger
Instructor

Occupational Health and Safety
Certificate

Safety Trained Supervisor in
Construction (STSC)

OSHA 10-Hour

OSHA 30-Hour

OSHA 40-Hour HAZWOPER

OSHA 500 Trainer

OSHA 510 Trainer

OSHA Competent Person Trainer
- Confined Space, Fall Protection,
and Trenching & Excavation

OSHA Powered Industrial Truck
Safety Trainer

Professional Summary

Joshua has extensive experience in the construction safety field where he held positions including Safety Superintendent, Safety Manager, and Regional Safety Manager. Joshua recommends measures to help protect workers on Garney’s job sites from potentially hazardous work methods, processes or materials. He also develops hazard control practices and programs including job-specific Site Safety Plans and Emergency Action Plans. As Safety Manager, Joshua will regularly visit the site to assist the project team with the implementation of these safety plans. Other duties include conducting safety training and educational programs, as well as demonstrating the proper use of safety equipment.

PROJECT EXPERIENCE

CANON STATION PA4 NEIGHBORHOOD 3

McKinley Partners / \$1,211,604

Safety Manager. Includes the installation of 3,580 LF of 8” PVC and 280 LF of 8” DIP waterline, 140 LF of 18” and 845 LF of 24” RCP stormwater pipe, 3,695 LF of 8” and 147 LF of 10” PVC sanitary gravity pipe, 77 each 4” sewer service connections, 117 each 1” water service connections, and 25 each 48” manholes.

CANON STATION PA4 NEIGHBORHOOD 2

McKinley Partners / \$959,214

Safety Manager. Includes the installation of 2,900 LF of 8” and 6” PVC sanitary gravity pipe, 1,700 LF of 24” and 12” RCP stormwater pipe, 1,300 LF of 8” PVC waterline, thirty-two manholes, sewer and water service connections, and precast catch basins.

CATALINA SANITARY & STORM DRAINAGE PIPELINE AND PUMP STATION

Landsea Holdings Corporation / \$1,409,449

Safety Manager. The storm drain scope includes the installation of 1,020 LF of 15” to 8” HDPE and RCP stormwater pipe, twelve 48” manholes, and a pump station. The water and sewer scope includes the installation of 410 LF of 12” and 8” DIP waterline, 1,220 LF of 8” PVC waterline, and 750 LF of 6” PVC gravity sewer pipe.



BRIAN THOMPSON
Superintendent

Garney Experience: 3 years

Industry Experience: 35 years

Professional Summary

Brian has been involved in the construction industry since 1984 with various positions including Laborer, Foreman, and now in his current position of Superintendent. He has experience with various pipeline installations including tunnels, pipe bursting, bridge crossings, jack and bores, trunk mains up to 132" in diameter, pile driving, as well as sewer lift stations. As Superintendent, Brian will be involved in all on-site activities and provide the daily coordination of Garney crews, subcontractors, and equipment deliveries for each phase of the project.

PROJECT EXPERIENCE

MONTEREY PENINSULA WATER SUPPLY PROJECT

California American Water / \$75,865,751

Superintendent. Installation of 85,000 LF of 36" DIP water pipe, 13,000 LF of 42" PVC pressure water pipe, an 800 LF 36" auger bore, and 50 water service connections.

MARE ISLAND SEWER AND WATER MAIN REPLACEMENT

Vallejo Sanitation and Flood Control District / \$13,192,024

Superintendent. Installation of water and sewer pipelines bundled together in two 54" HDDs for 2,600 LF each. The bundled pipelines consist of 21" HDPE sanitary sewer force main, 12" HDPE reclaimed waterline, four 4" HDPE fiber optic lines, and two 18" HDPE waterlines. Also includes 22,000 sf of paving and two 24" meters.

NORTHEAST ANTIOCH ANNEXATION WATER AND SEWER FACILITY

City of Antioch, CA / \$4,096,000

Superintendent. Includes the installation of 12,792 LF of 6" to 15" PVC sanitary gravity and water pipe, five 60" manholes, and 81 EA 4" water and 1" sewer service connections. The work requires a 21" jack and bore underneath a railroad, fire hydrants, surface restoration, water pollution control, traffic control, and public relations.

ALEXANDRIA PLACE SANITARY SEWER REHABILITATION PROJECT

City of Stockton, CA / \$1,387,680

Superintendent. Includes trenching and backfilling for 1,440 LF of a temporary bypass system for a pipe liner installation, as well as the installation of eight new 48" manholes on the existing 54" line after the liner is completed.



GREG LUTES
QA/QC Manager

Garney Experience: 4 years

Industry Experience: 42 years

Education

University of California, Berkeley,
Coursework in Extension
Certificate in Construction
Management

Certifications & Training

First Aid, CPR & AED Trained

OSHA 30-Hour

OSHA Competent Person -
Confined Space Safety

OSHA Competent Person - Fall
Protection Safety

Professional Summary

Greg has been a heavy civil construction professional since 1977, with a track record of progressively increasing responsibilities from Foreman to General Superintendent. As QA/QC Manager, Greg will be responsible for daily quality assurance on the project. He will ensure that documentation control, project specific work preparation forms, inspection records, testing certifications, and commissioning certificates are complied with. Greg will confirm that subcontractor crews adhere to quality control standards by performing inspections.

PROJECT EXPERIENCE

MONTEREY PENINSULA WATER SUPPLY PROJECT

California American Water / \$75,865,751

Superintendent. Installation of 85,000 LF of 36" DIP water pipe, 13,000 LF of 42" PVC pressure water pipe, an 800 LF 36" auger bore, and 50 water service connections.

MARE ISLAND SEWER AND WATER MAIN REPLACEMENT

Vallejo Sanitation and Flood Control District / \$13,192,024

General Superintendent. Installation of water and sewer pipelines bundled together in two 54" HDDs for 2,600 LF each. The bundled pipelines consist of 21" HDPE sanitary sewer force main, 12" HDPE reclaimed waterline, four 4" HDPE fiber optic lines, and two 18" HDPE waterlines. Also includes 22,000 sf of paving and two 24" meters.

SARCO CREEK BRIDGE REPLACEMENT PIPELINE

City of Napa, CA / \$1,398,500

General Superintendent. Includes 650 LF of 24" fused PVC carrier pipe pulled through a 30" fused PVC casing using a horizontal directional drill and installation of 350 LF of 1-1.5" fusible PVC

WATER RECYCLING PIPELINE PHASE 1A

Sacramento Regional County Sanitation District / \$3,195,762

Superintendent. Installation via directional drill of 3,220 LF of 18" and 3,220 LF of 10" reclaimed water fusible PVC crossing a wetland area, and open cut installation of 1,100 LF of 18" and 1,100 LF of 10" reclaimed water fusible PVC.

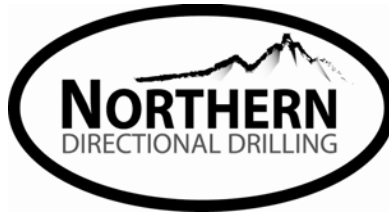
CANON STATION OFFSITE WATER

McKinley Partners / \$4,278,476

General Superintendent. Includes the installation of 3,841 LF of 8" to 15" PVC sanitary gravity lines, 10,264 LF of 18" to 42" RCP stormwater pipe, 18,500 LF of 8" and 16" PVC waterlines, two 48" auger bores totaling 600 LF.



**Directional Boring
City of Napa, Sarco**



**Frac-Out Plan
Creek Bridge**

Replacement

Equipment

- Drill Rig - Ditch Witch JT100 Directional Drill Rig
Ditch Witch manufactured the drill rig that will be used for this project. Rig has 100,000 lbs of pull capacity, 12,000 ft lbs of rotary torque, and 230 gallons per minute and 1,200 psi mud pump.
- Northern Equipment Mud Mixing System - Tank Capacity: 3,000 gallons
- Vermeer R300 Mud Recycling System
- Peterbilt 3,000 gallon vacuum truck
- Ditch Witch 800 gallon vacuum trailer

Project Layout Drawings

See Project Plan and Profile

Site Specific Resources of Concern

Crossing of Sarco Creek will be accomplished by horizontal directional drilling approximately 15 feet under the creek. Excavation of the entry and exit pits will be approximately 200 feet from the upper banks of the Creek.

Pit dimensions will be approximately 20'L x 8'W and will be barricaded at the end of each workday. Set up space for the drill rig and support equipment will occupy an area of approximately 100' x 20'. The exit pit will be approximately 40' L x 8'W.

Project Duration

Anticipated duration of the project is 20 working days.

Frac-out Plan Objectives

- Minimize the potential for a frac-out by properly preparing the borehole by using suitable tooling and drilling fluid additives.
- Provide the timely detection of any frac-outs that could enter the Creek.
- Facilitate notification of all appropriate agencies immediately and documentation of any incident.
- Facilitate proper response, containment and cleanup in the event a frac-out occurs.

Responsibilities

- Monitoring for hydraulic fracturing during the performance of the work.
- Minimize potential for a Frac out.
- Detection of any Frac-outs.
- Notification of the Frac-out to the City of Napa biologist and California Department of Fish and Wildlife

- Containment of the Frac-out.
- Cleanup of the Frac-out
- Documentation of the Frac-out

Pre-Construction Frac-out Prevention

Frac-out prevention operations begin with the employment of skilled and competent workers who are familiar with HDD construction and have performed many crossings of multiple complexities and are well versed in monitoring for Frac-out's and the warning signs that are often a precursor to a frac-out.

Drilling fluids will likely consist of water, bentonite clay, and detergent. Lost Circulation Material (LCM) may be used in case of a Frac-out or loss of circulation.

See MSDS's for the following.

Bentonite Clay

Detergent (assists in breakup of clay) - Condet

The basic drilling fluid properties of concern include:

- Viscosity
- Fluid Density
- Sand (solids) content

Crews and the site Biologist will continuously monitor and evaluate soil conditions and fluid properties and adjust the drilling fluid as necessary during drilling operations. Adjustments of the basic drilling fluid properties may be desired in certain circumstances to match drilling fluid properties with actual soil types to achieve a more stable borehole, improve cuttings return, and/or to reduce frac-out potential during difficult drilling circumstances. Pump pressures will be monitored continuously. The drill rig operator will be continuously monitoring mud flow and mud pressure gauges on the drill rig. Constant communication between the drill rig operator and crews at each bore pit will be maintained to ensure proper drilling mud returns to each bore pit. The job site superintendent and the foreman will be continuously monitoring the viscosity and consistency of drilling mud returns to ensure a properly reamed borehole and prevent frac-outs.

Loss of Fluid Recovery

In many cases, the loss of mud or sudden changes in fluid recovery will provide an early indication that down-hole conditions may be susceptible to a frac-out. Fluid recovery is therefore monitored on a continuous, or near continuous basis. Plugging of the bore-hole annulus or the presence of a major formation fracture will typically lead to partial or full loss of drilling fluid circulation. It is possible to monitor fluid loss by watching for significant differences between the fluid rate versus the rate of returns flowing into the entry and pits.

Should the drill rig operator feel that fluid circulation is slowing or is about to stop then the operator will immediately implement the following procedures.

1. Temporarily cease drilling operations and shut off the mud pumps.
2. Dispatch observers as required, to monitor the area along the bore alignment.
3. If no drilling fluids are seen on the ground surface, the mud pumps will be started and volumes gradually increased as the drill pipe is pulled back, to wipe the bore-hole annulus and encourage flow. Depending on the success of this procedure, the properties of the

drilling fluid may be altered to aid in restoring circulation. Observers will continuously monitor the area for frac-outs as long as the mud pumps are in operation. If circulation is re-established, drilling will proceed as usual and monitoring for frac-outs will become more routine as long as circulation is maintained. If circulation is not re-established, monitoring will continue while the pump is on. Typically lost circulation has the highest probability of occurring while the pilot hole is being drilled. This is due to the smaller borehole annulus and the relatively large amounts of cuttings being carried in the drilling fluids. Often times the pilot hole, circulation may be temporarily lost as the pilot bit is advanced through more permeable sections of the formation and fluid pressures are at a maximum. Under these circumstances, the loss of fluid may not indicate that a frac-out has occurred. As the pilot bit advances beyond the zone of lost circulation, fluid pressure will return to normal and circulation within the borehole will be re-established. It is not uncommon for drilling fluids to leave the borehole and migrate in a direction other than to the surface and never be observed even if lost for extended periods.

Frac-out Response

If drilling fluid returns are observed on the ground surface at a location other than the bore containment pits and at a location that is accessible, the following procedures will be implemented.

1. Cease drilling operations
2. Notify all required parties including the City of Pleasanton Biologist (if not present) and California Dept. of Fish and Wildlife
3. Document the event.
4. Contain the mud with gravel bags, straw bales and or wattles or so the fluid cannot migrate from the fracture location.
5. If possible, excavate a small sump pit at the fracture location and provide a means of containment for the fluid while it is returned to either the drilling site for cleaning and re-use or to an approved dump site.
6. Clean up affected area using brooms, shovels etc.
*Drilling shall not resume until approved by the CDF&W. *
7. Adjust drilling fluid properties to inhibit flow through the fracture and wipe the hole by tripping out drill pipe to wipe the borehole annulus.
8. If necessary, determine the suitability of placing LCM in the hole.
9. After allowing the formation to “rest” for a suitable period, continue drilling while monitoring the frac-out location and transferring fluids as necessary.
10. Consider drilling a relief well over the top of the borehole, in order to relieve annular pressure.
11. Ream the borehole up to the Frac out location to relieve annular pressures.

If a Frac-out occurs, drilling will stop and representatives for the owner and the project engineer will be notified immediately. No further drilling will take place until notification to proceed has been received from the project engineer.

If a Frac-out is observed in a location that is inaccessible, the following procedures will be implemented.

1. Cease drilling operations.

2. Clean up affected area
3. Execute all reasonable measures within the limitations of the technology to re-establish circulation, including the following.
 - a. Trip back the drill pipe to wipe the borehole annulus
 - b. If necessary, place LCM in the hole.
 - c. Consider changes to drilling fluid properties.
 - d. Propose alternate drilling techniques.
 - e. Consider drilling a relief well over the top of the borehole, in order to relieve annular pressure.
 - f. Ream the bore-hole up to the Frac out location to relieve annular pressures.
4. Continue drilling with minimum fluid.
5. Propose an alternate bore plan that avoids the problematic area.
6. Document the event.
7. Notify all required parties.

Often times drill cuttings generated as a result of the drilling process will naturally bridge and subsequently seal fractures or voids in the formation as drilling progresses, thus providing another means to reestablished lost circulation. This is particularly likely during the reaming process as higher volumes of cuttings are being generated.

Frac-out Control Equipment

In accordance with good HDD practices, the following Frac-out containment and cleanup equipment will be provided.

1. Heavy weight plastic clean gravel filled sand bags (at least 20 bags)
2. Geotek filter bags 10-by-12-foot size or equivalent (at least 3 bags per segment)
3. Several hard plastic (5-gallon) buckets
4. One wide heavy-duty push broom
5. Flat blade shovels
6. Silt fence (appropriate coverage up to 40 ft perimeter)
7. Hay bales
8. Two bundles of absorbent pads to use with plastic sheeting
9. Straw logs (wattles or fiber rolls)(at least two 10-foot rolls)
10. Portable pumps
11. A minimum of 100 feet of hose
12. Vacuum truck (800 and 3000-gallon)

Mud Disposal Site

Owner of property – Billy Manzoni (707) 732-3405

Corner of Ramal Road and Skaggs Island Road

Directional drilling mud is non-hazardous. The excess mud will be dumped and spread in a ponding area for drying. Once it is dried then the owner of the property will spread the leftover spoils.

Contingency Plans

- Obstructions
 - Should an obstruction be encountered in a shallow part of the bore then the obstruction may be excavated and removed from the bore path. Should an obstruction be encountered that is in a deeper part of the bore then the drill bit will have to be pulled back and redirected to avoid the obstruction. A new pilot hole may be required. The owners representative will be notified prior to starting any new bore alignment.
- Deviation from planned bore path
 - The crew will pull back the drill pipe should there be a deviation from the original plan and profile. It is common to have to pull back 4 to 6 drill rods (60 to 90 feet) to redirect the pilot hole per the project plan. This is often due to variations in the soils such as rock, cobble or a change in soil density. Should the deviation be unavoidable then the crew will shut down and notify inspector. A new pilot hole may be necessary if the pilot hole cannot be redirected.
- Inability to advance drill stem
 - The driller must pull back and redirect the pilot hole in a new direction. Should the obstruction be too large for redirection then it must be excavated and removed or an exit pit may be excavated and the pipe pulled from that point.
- Drill stem twisted off or broken in bore hole
 - If the drill stem breaks off down hole then the drill rod that is attached is pulled out of the hole. A reamer or piece of specialty tooling can be pushed or pulled down hole to catch the broken piece of tooling and remove it from the hole. If the drill rod is not retrievable then a new pilot hole may be necessary.
- Pipe Collapse

The buckling of the pipe may occur during pull back of the pipe when PVC pipe is transitioning from the ground to the bore-hole. This is preventable by excavating the proper size bore pit and tail ditch for a smooth transition from ground elevation to the bottom of the bore pit.

Emergency Contacts

Chad Morgensen	Northern Directional Drilling, Inc.	925-360-8179
Tommy Demus	Northern Directional Drilling, Inc.	925-360-8125

Experience List

Project: Recycled Water Pipeline, Phase 1, Arroyo Mocho Creek
Owner: City of Pleasanton
Location: Pleasanton, California
Scope: Drill and install 1,500 feet of 18" FPVC pipe beneath Arroyo Mocho Creek (CA Fish and Wildlife Permit)
Completed: October 2015

Project: Napa Salt Marsh Restoration Pipeline
Owner: Sonoma Valley County Sanitation District
Location: Napa, California
Scope: Drill and install 350 feet and 250 feet of 24" HDPE pipe beneath Huichica Creek. (CA Fish and Wildlife Permit)
Completed: September 2013

Project: Concord Landscape Project
Owner: Central Contra Costa Water District
Location: Concord, California
Scope: Drill and install 1,400 feet and 800 feet of 14" HDPE pipe.
Completed: August 2013

Project: New Water Mains at Castlewood Country Club
Owner: City of Pleasanton
Location: Pleasanton, California
Scope: Drill and install 600 feet of 10", 8" & 4" FPVC
Completed: June 2013

Project: Central Dublin Recycled Water Main
Owner: Dublin San Ramon Services District
Location: Petaluma, California
Scope: Drill and install 1,600 feet of 12" fusible PVC beneath Coyote Creek (CA Fish and Wildlife Permit)
Completed: August 2012

Project: Wetland Crossing for New Traffic Control Tower
Owner: Oakland Airport
Location: Oakland, California
Scope: Drill and install 1,350 feet of four 4" fusible PVC pipe.
Completed: October 2011

