Regular Board Meeting - July 22, 2020

1. Agenda Packet
   Documents:
   
   200722 AGENDA PACKET - POSTED 200717.PDF

2. Related Agenda Items
   Documents:
   
   PUBLIC COMMENT.PDF
Regular Meeting
Governing Board of Sweetwater Authority
Wednesday, July 22, 2020 – 6:00 p.m.

Notice: Pursuant to Governor Newsom’s Executive Orders N-29-20 and 33-20, which in part, provide waivers to certain Brown Act provisions, meetings of the Board of Directors will be held by teleconference. There will be no physical location from which members of the public may participate. Instead, the public may listen and/or view the meeting proceedings and provide public comment and comments on agenda items by following these instructions:

To join via Zoom Webinar from a computer, tablet, or smartphone,

click on the link below:
https://zoom.us/j/91458023440

To join this meeting via telephone, please dial:
1-669-900-6833 or 1-253-215-8782
Meeting ID: 914 5802 3440

If you are unable to access the meeting using this call-in information, please contact the Board Secretary at (619) 409-6703 for assistance.

To provide public comment on non-agenda items or to provide public comment on any item of the agenda:

Before the meeting:

- Go to www.sweetwater.org; click on the “HOW DO I...” at the top of the page; and then click on the “Public Comment” link in the Contact section.

OR

- Physically deposit your public comment in the Authority’s payment drop box located in the public parking lot at the Authority’s Administrative Office at 505 Garrett Avenue, Chula Vista.

OR

- Mail your comments to 505 Garrett Avenue, Chula Vista, CA 91910 [Attention: Public Comment].

All written public comment submissions must be received 1 hour in advance of the meeting and will be read aloud to the Board during the appropriate portion of the meeting with a reading limit of 3 minutes for each comment.
During the meeting:
The Chair will inquire prior to Board discussion if there are any comments from the public on each item.

- Via Zoom Webinar go to Participants List, hover over your name and click on “Raise Hand.” This will notify the moderator that you wish to speak during Oral Communication or during a specific item on the agenda.

- Via phone, you can raise your hand by pressing *9 to notify the moderator that you wish to speak during the current item.

Any person with a disability who requires a modification or accommodation in order to participate in a meeting should direct such request to the Board Secretary at (619) 409-6703 at least forty-eight (48) hours before the meeting, if possible. The above public comment procedures supersede any Authority standard public comment policies and procedures to the contrary.

• Call Meeting to Order and Roll Call

• Pledge of Allegiance to the Flag

• Opportunity for Public Comment
  Opportunity for members of the public to address the Board (Government Code Section 54954.6)

• Chair’s Presentation
  A. CAPIO’s EPIC Award for Excellence in Public Information and Communications
  B. “Hydro Station,” presented by Matthew Tessier, Assistant Superintendent and Michael Bruder, Instructional Services Coordinator, Chula Vista Elementary School District
  C. COVID-19 Update
    COVID-19 Pandemic Delayed Revenue Balance Dashboard
  D. Comments from the Public Regarding Agency Staff

ACTION CALENDAR AGENDA
The following items on the Action Agenda call for discussion and action by the Board. All items are placed on the Agenda so that the Board may discuss and take action on the item if the Board is so inclined, including items listed for information.

1. Items to be Added, Withdrawn, or Reordered on the Agenda

2. Approval of Minutes - Regular Board Meeting of July 8, 2020
Consent Calendar Items
Items to be acted upon without discussion, unless a request is made by a member of the Board, the Staff, or the Public to discuss a particular item, including items listed for information. All consent calendar items are approved by a single motion.

3. Approval of San Diego Gas & Electric Demands and Warrants

4. Approval of Demands and Warrants (excludes the San Diego Gas & Electric Demands and Warrants)

5. Acquisition of Property: Thiefe Property (APN: 521-030-06) – 40 Acres of Vacant Land in the Lake Loveland Watershed

6. Consideration to Provide Hard Copies of Documents to Citizens Advisory Committee and Possible Revisions to Board Policies 522 - Citizens Advisory Committee and 608 – Mailed Notice of Meetings (Finance and Personnel Committee Meeting of 7/15/20)
   Recommendation: Direct staff to provide hard copies of Board agenda packets in a cost-effective manner to Citizen Advisory Committee members and alternates upon their request for the next six months; and for staff to track the cost to produce hard copies of these documents and report back to the Finance and Personnel Committee to evaluate whether revisions should be made to Board Policies 522 and 608.

7. Consideration to Award a Time and Materials Contract for Professional Geotechnical Services (Operations Committee Meetings of 7/15/20)
   Recommendation: Award an on-call Time and Materials contract for professional geotechnical services to Ninyo & Moore, San Diego, CA for one year, with an option to renew for one additional year.

8. Sweetwater and Loveland Fishing Programs – Operations pursuant to COVID-19 Pandemic (Operations Committee Meetings of 7/15/20)
   Recommendation: Direct staff to prepare and implement a Safe Reopening Plan and implement measures in compliance with the applicable State COVID-19 Industry Guidance, for both of the Fishing Programs utilizing current resources (may result in a reduced level of service such as hours/days of operation).

9. FY 2019-20 Strategic Plan Work Plan Year-end Status Report (Finance and Personnel Committee and Operations Committee Meetings of 7/15/20)
   Recommendation: No action is required by the Governing Board.

10. Consideration of Communications/Outreach Consulting Services (Communications Committee Meeting of 7/16/20)
    Recommendation: Move $15,000 Expense Contingency to the Communications Outreach Budget for the following services and re-evaluate the use of on-call communication outreach/assistance after consideration of results from the customer survey. 1) Translation services in the amount of $5,000 to be procured through a Request for Quotes (RFQ); and 2) On-call Communications/Outreach Assistance in the amount of $10,000 to be procured through a Request for Proposals (RFP).
Action and Discussion Items

11. New Business
   A. Consideration of Proposed Administrative Services Department Reorganization
      and Adoption of Resolution 20-16, Amending the Salary Schedule for All
      Employees Effective July 22, 2020
   B. Consideration of Membership to the Water Conservation Garden for FY 2021-22
   C. Approve a Professional Services Agreement for As Needed Labor and
      Employment Legal Services

12. Approval of Directors’ Attendance at Meetings and Future Agenda Items

REPORTS AND INFORMATIONAL ITEMS
The following Agenda items are placed on the Agenda to allow the persons designated to provide information to
the Board and the Public. There is no action called for in these items. The Board may engage in discussion on
any report upon which specific subject matter is identified on the Agenda, but may not take any action other than
to place the matter on a future Agenda.

13. Committee Minutes

14. Financial Reports
   • Quarterly Consultant Report – Fourth Quarter FY 2019-20
   • Please note, the following reports will be presented in August due to the year-end
     accounting processes:
     - Monthly Financials – June 2020

15. Quarterly Reports
   • Quarterly Performance Measurement Report – Fourth Quarter FY 2019-20
   • Quarterly Report of Directors’ Expenses – Fourth Quarter FY 2019-20
   • Quarterly Report on Communications Plan Metrics – Fourth Quarter FY 2019-20

16. Update from Legal Counsel on Election Laws

17. Report of Management
   • Upcoming Community Events (Information Item) (No Enclosures)
     - Presentation to the Chula Vista Chamber of Commerce Utilities Subcommittee
       – July 29, 2020
18. Report of Representatives to the San Diego County Water Authority
Report by representatives for the purposes of briefing the Board on items of interest and importance that appear on the previous or future San Diego County Water Authority agendas and to receive direction from the Sweetwater Authority Governing Board in representing its interests at the San Diego County Water Authority.

19. Reports by Directors on Events Attended
Reports and discussion relating to events attended by the Directors.

A. Other Events Attended

20. Directors’ Comments
Directors’ comments are comments by Directors concerning Authority business that may be of interest to the Board. Directors’ comments are placed on the Agenda to enable individual Board members to convey information to the Board and the Public. There is no discussion or action taken on comments made by Board members.

CLOSED SESSION
At any time during the regular session, the Governing Board may adjourn to closed session to consider litigation, personnel matters, or to discuss with legal counsel matters within the attorney-client privilege. Government Code Section 54954.5.

A. Conference with Legal Counsel – Anticipated Litigation – Significant Exposure to Litigation pursuant to Government Code Section 54956.9 (d)(2): One case

B. Public Employee Performance Evaluation pursuant to Government Code Section 54957:
Title: General Manager

C. Conference with Legal Counsel – Existing Litigation pursuant to Government Code Section 54956.9 (d)(1):

21. Adjournment

This agenda was posted at least seventy-two (72) hours before the meeting in a location freely accessible to the Public on the exterior bulletin board at the main entrance to the Authority’s office and it is also posted on the Authority’s website at www.sweetwater.org. No action may be taken on any item not appearing on the posted agenda, except as provided by California Government Code Section 54954.2. Any writings or documents provided to a majority of the members of the Sweetwater Authority Governing Board regarding any item on this agenda will be made available for public inspection on the Authority’s website or upon request to the Board Secretary at (619) 409-6703 during normal business hours. Upon request, this agenda will be made available in appropriate alternative formats to persons with disabilities, as required by Section 202 of the Americans with Disabilities Act of 1990. Any person with a disability who requires a modification or accommodation in order to participate in a meeting should direct such request to the Board Secretary at (619) 409-6703 at least forty-eight (48) hours before the meeting, if possible.

To e-subscribe to receive meeting agendas and other pertinent information, please visit www.sweetwater.org.
PUBLIC COMMENT PROCEDURES

Members of the general public may address the Board regarding items not appearing on the posted agenda, which are within the subject matter jurisdiction of the Governing Board. Speakers are asked to state name, address, and topic, and to observe a time limit of three (3) minutes each. Public comment on a single topic is limited to twenty (20) minutes. Anyone desiring to address the Governing Board regarding an item listed on the agenda is asked to fill out a speaker’s slip and present it to the Board Chair or the Secretary. Request to Speak forms are available at the Speaker’s podium and at www.sweetwater.org/speakerform.
CHAIR'S PRESENTATION - ITEM A

2020 Excellence in Public Information & Communications Awards

AWARD OF DISTINCTION
Most Innovative Communications, Large Population

SWEETWATER AUTHORITY & OTAY WATER DISTRICT
Hydro Station Education Experience
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Hydro Station Experience
2019-20 School Year (through 3/11/20)

- 2,884 students
- 104 classes
- 41 careers
- 721 prototypes
  - Water Conservation
  - Transporting Water
  - Watershed & Wildlife Protection
- 2019 Impact Award
- Classroom of the Future Foundation
- 2019 BlueTech Science Teaching Award
- TMA BlueTech (formerly The Maritime Alliance)
- 2020 Most Innovative Communications
- CA Association of Public Information Officials
- 2020 Publications & Digital Media Awards
- National School Public Relations Association
Outreach Experiences

• Women in Water Symposium

• Council of Water Utilities

• TMA BlueTech: BlueTech Week

• Watersmart Innovations

• Congresswoman Susan A. Davis
In Response to COVID-19

Online Experience

Live Experience

Video Prompts
Expanding the Experience

Virtual Reality

Civil Engineering Technician
Going Forward: During COVID-19

• Working together with classroom teachers to facilitate live, virtual Hydro Station experiences for all 5th grade classes

• Monthly live experiences available to all CVESD students and public

• Development of curricular units centered around problem-based engineering design process challenges

• Ultimate goal of working back towards the safe return to in-person experiences at the Hydro Station
Going Forward: Hydro Station

• Continue to serve all 5th grade classes and students in CVESD

• Continue to incorporate monthly live experiences available to all CVESD students and public

• Enrich the experience by utilizing virtual reality headsets and interactive wall

• Support classroom teachers with diving deeper into the world of water through curricular units centered around problem-based, engineering design process challenges
Going Forward: Community Outreach

- Hosting virtual and/or in-person career fairs for CVESD parents
- Communication support
- Continued collaboration on informational events
Essential Skills

- Emotional Intelligence
- Communication
- Creative & Critical Thinking
- Collaboration
- Dependability
- Resourcefulness

Hydro Station

Sample occupations

Powered by
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### COVID-19 Pandemic Delayed Revenue Balance Dashboard

Delayed Revenue: Total Delinquent Water Bill Balances over 60 Days Past due over Prior Year Balance

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*Prior and Current Year Balances represent a balance on a specific day and do not cumulate from week to week.

February 1, 2020 - SB 998 went into effect and Authority transitioned to new collection schedule.

February 1, 2020 - Authority defers water disconnections to transition to new SB998 delinquency schedule.

March 4, 2020 - State of California Governor Newsom established a COVID-19 state of emergency.

March 11, 2020 - Authority complied with Executive Order N-27-20 prohibiting disconnection of water service.

### COVID-19 - Delayed Revenue Action Benchmarks as a % of total revenue

- **5% Revenue Delay**
- **10% Revenue Delay**
- **15% Revenue Delay**
- **20% Revenue Delay**

Variance as a percent of total revenue = 0.41%
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TO: Governing Board

FROM: Tish Berge, General Manager

DATE: July 17, 2020

SUBJECT: Comments from the Public Regarding Agency Staff

SUMMARY
The Authority has a long tradition of sharing comments from the public about the Authority with the Governing Board. This allows the Board to monitor a primary goal area of the Authority: to provide high quality customer service. Employees strive to provide this high quality customer service by being understanding, supportive, and responsive to customers' needs.

While negative comments regarding customer service are rare, when they are received, they are handled by Management as personnel related issues.

POLICY
Strategic Plan Goal 4: Customer Service, Citizen Engagement, and Community Relations – Provide high-quality customer service based on customer feedback and serve the community through education, outreach, and partnerships.

CONCLUSION
This is an information item only.

ATTACHMENTS
Comments from the Public
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From: Yorba, Dina
Sent: Thursday, July 2, 2020 3:27 PM
To: REDACTED
Cc: Roberts, Doug <rroberts@sweetwater.org>; Feathers, Tommy <tfeathers@sweetwater.org>; Moreno, Javier <jmoreno@sweetwater.org>; Alvarez, Miguel <malvarez@sweetwater.org>; Harpenau-Parks, Gregg <gharpenauparks@sweetwater.org>; Sabine, Jennifer <jsabine@sweetwater.org>
Subject: RE:

Ms. Green,
Thank you so much for taking the time to acknowledge the wonderful customer service provided by our employees. We strive to provide this exceptional service to all our customers and it’s always nice when they receive the acknowledgment. Have a wonderful day.

From: REDACTED
Sent: Thursday, July 2, 2020 3:04 PM
To: Yorba, Dina <dyorba@sweetwater.org>
Subject: 

Dear Ms Yorba,
I am writing to commend three of The Sweetwater Authority employees who provided excellent customer service on June 16 and 17. Their names were Doug Roberts, Tom, and Javier.
The purpose of my call was to try to find the reason for the grass dying on my back lawn. They were thorough with every detail in trying their best to solve the problem. John and Javier worked as a team and called Doug to come to my home to do an assessment survey. He checked the sprinkler system and found it was not functioning properly.
Doug returned on June 17 to check each zone looking for leaks in the system. He suggest I find someone to repair the sprinkler system. He did not understand why my next water bill will be so different from the June bill with a significant increase.
Thank these men for the respectful service they provided.
Faith Green
Bonita View Drive
Bonita, CA 91902
(phone number redacted)
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Hello Jose, I just want to let you know that Sweet Water Authority got on my issues immediately, followed up thoroughly and have fixed the problem, incredible!!

So now me and other customers can pay our bill over the phone and they will store our information so we don’t have to give them everything all over again each time we pay our bill.

there’s a woman named Dina Yorba who is the one that followed up with me just so you know she it is very competent.

Thanks, Ken
The Governing Board of Sweetwater Authority held a Regular meeting on Wednesday, July 8, 2020. Pursuant to Governor Newsom’s Executive Orders N-29-20 and 33-20, this meeting was held via teleconference. Chair Castaneda called the meeting to order at 6:00 p.m.

(*Note: After calling the meeting to order, Chair Castaneda established for the record that all Directors were able to hear the proceedings, that all members of the Board were able to hear the Directors participating by teleconference clearly, and that all votes would be taken by a roll call vote pursuant to the provisions of the Brown Act. Chair Castaneda further established for the record the process by which public comments would be received by the Board, which process was also described in the Agenda for the meeting.)

- **Roll Call**
  - Directors Present: Josie Calderon-Scott, *Jerry Cano (6:05 p.m.), Steve Castaneda, José F. Cerda, Hector Martinez, Jose Preciado, and *Alejandra Sotelo-Solis (6:10 p.m.)
  - Directors Absent: None.
  - Management, Staff, and Others Present: General Manager Tish Berge, Assistant General Manager Jennifer Sabine, Legal Counsel Paula de Sousa, and Board Secretary Ligia Perez. Staff Members: Director of Water Quality Justin Brazil, Administrative Assistant Michael Garcia, Director of Engineering Ron Mosher, Director of Distribution Greg Snyder, and Director of Finance Rich Stevenson. Others Present: David Thomas.

- **Pledge of Allegiance to the Flag**

- **Opportunity for Public Comment** (Government Code Section 54954.3)
  "(Note: Director Cano entered the meeting at 6:05 p.m.)"

  David Thomas commented on the reopening of the fishing program at Loveland Reservoir.

  Russell Walsh submitted written comments regarding the reopening of the Authority’s Fishing Programs, which were read onto the record by the Board Secretary pursuant to the Authority’s established process for public comments.

  "(Note: Director Sotelo-Solis entered the meeting at 6:10 p.m.)"
John Cassidy submitted written comments regarding the impacts of not opening the Fishing Programs at Sweetwater Reservoir, which were read onto the record by the Board Secretary pursuant to the Authority’s established process for public comments.

John July Blake submitted written comments regarding the reopening of the Loveland and Sweetwater Reservoirs for fishing, which were read onto the record by the Board Secretary pursuant to the Authority’s established process for public comments.

- Chair’s Presentation
  COVID-19 Update
  COVID-19 Pandemic Delayed Revenue Balance Dashboard

**ACTION CALENDAR AGENDA**

1. Items to be Added, Withdrawn, or Reordered on the Agenda
   There was none.

2. Approval of Minutes
   A. Regular Board Meeting of June 10, 2020
   B. Regular Board Meeting of June 24, 2020

   **Director Preciado made a motion, seconded by Director Cerda,** that the Governing Board approve the minutes of the Regular Board meeting of June 10, 2020 and the Regular Board meeting of June 24, 2020. The motion carried unanimously.

**Consent Calendar Items**

Director Calderon-Scott pulled item 3 for discussion.

**Director Preciado made a motion, seconded by Director Sotelo-Solis,** that the Governing Board approve consent calendar items 4 and 5. The motion carried unanimously.

4. Consideration to Award Annual Requirement Contracts for Waterworks Fittings (Operations Committee Meeting of 7/1/20)
   Recommendation: Award the following contracts for waterworks fittings: $45,298.80 to Core & Main LP, San Marcos, CA; $42,181.11 to Ferguson Waterworks, Poway, CA; $58,751.46 to Pacific Pipeline Supply, San Marcos, CA; and $76,510.38 to Western Water Works Supply Co., El Cajon, CA.

5. Consideration to Award Annual Contracts for Water Treatment Chemicals (Sodium Fluoride and Aluminum Sulfate) (Operations Committee Meeting of 7/1/20)
   Recommendation: Award contracts to the lowest responsive bidder for water treatment chemicals as follows: $10,500 to Univar Solutions USA, Inc., Kent, WA ($7,500 for Sodium Fluoride 90-98% and $3,000 for Aluminum Sulfate 45-55%).
Items Pulled from Consent Calendar

3. Approval of Demands and Warrants (excludes the San Diego Gas & Electric Demands and Warrants) – Check number 153601 through 153718 and electronic fund transfers 35082 through 35296

   Director Calderon-Scott made a motion, seconded by Director Martinez, that the Governing Board approve the Demands and Warrants. The motion carried with Directors Calderon-Scott, Cano, Castaneda, Cerda, Martinez, and Sotelo-Solis in favor, and Director Preciado opposing.

Action and Discussion Items

6. New Business

   Community Clean-ups Near Desalination Facility (Item Requested by Director Martinez) (No Enclosure)

   Director Martinez made a motion, seconded by Director Cerda, that the Governing Board approve preparation of a letter by Director Cerda and staff to the San Diego River Conservancy to seek funds to help coordinate a cleaning effort near the Desalination Facility. The motion carried unanimously.

7. Old and Unfinished Business

   A. Consideration of Items Related to Presentation of Demands and Warrants:
      a. Sample Payment Register-Accounts Payable Checks with General Ledger Account
      b. Enhanced Descriptions, Conceptual Companion Document of Contracts and Agreements
      c. Consideration of Resolution 20-15 Authorizing the General Manager or Assistant General Manager to Approve Payment of Demands and Repealing Resolution Nos. 80-07 and 97-14
      d. Consideration of Monthly Presentment

   Chair Castaneda made a motion, seconded by Director Cano, that the Governing Board continue this item for 30 days. The motion carried unanimously.

8. Approval of Directors’ Attendance at Meetings and Future Agenda Items

   There were none.

REPORTS AND INFORMATIONAL ITEMS

9. Committee Minutes

10. Report of Legal Counsel

   Legal Counsel de Sousa reported on FPPC regulations regarding recusal from meeting discussions.
   - Recent/Upcoming Community Events (No Enclosures):
     - Presentation to the Chula Vista Chamber of Commerce Utilities Subcommittee – July 29, 2020
   General Manager Berge reported on:
     - The safe reopening of Authority programs, including the reopening of the Board room; thanked staff and the Employee Pandemic Response Team for their efforts.
     - The customer newsletter contents and that it will be mailed to customers beginning July 17 through September 4.
     - Previewed the agenda items for the upcoming Committee and Board meetings.

12. Reports by Directors on Events Attended
   A. South County Economic Development Council (SCEDC) – June 2, 2020
      Director Cerda provided a written report for the record.
      Chair Castaneda provided a verbal report.
   B. Other Events Attended – There were none.

13. Directors’ Comments
   Director Sotelo-Solis thanked staff for their efforts on bringing staff back into the office; and reminded all to continue to wear face masks, adhere to social distancing, and staying within their family units.

   Director Cerda thanked staff for the protocols they put together to keep staff and Board members safe; and thanked Director Sotelo-Solis for the food distribution event in which he participated in the City of National City.

   Director Martinez commented on being thankful for being back at the administrative offices for Board meetings. Thanked staff for hosting a successful meeting.

CLOSED SESSION

At 7:32 p.m., the Board convened in closed session with legal counsel for:

A. Conference with Labor Negotiator pursuant to Government Code Section 54957.6
   Agency Negotiators: Tish Berge, General Manager
                      Jennifer Sabine, Assistant General Manager
   Employee Organizations: Sweetwater Authority Employees’ Committee
                          Sweetwater Authority Middle Management Group
                          Sweetwater Authority Confidential Group
   Unrepresented Employees: Director of Administrative Services
B. Public Employee Performance Evaluation pursuant to Government Code Section 54957:
   Title: General Manager

C. Public Employee Appointment pursuant to Government Code section 54957:
   Title: Special Legal Counsel

There was no need for closed session on item:

D. Conference with Legal Counsel – Existing Litigation pursuant to Government Code Section 54956.9 (d)(1):

There were no minutes taken, and the session was not audio-recorded. At 9:37 p.m., Chair Castaneda declared the meeting to be in open session.

The following action was taken in closed session for Closed Session Agenda Item C (Public Employee Appointment pursuant to Government Code section 57457, Title: Special Legal Counsel): Upon a motion made by Vice-Chair Martinez, seconded by Chair Castaneda, the Board by a 4-3 vote appointed the law firm of Devaney, Pate, Morris and Cameron, as Special Legal Counsel, subject to approval of an agreement for legal services at a future Board meeting, with Directors Castaneda, Martinez, Calderon-Scott and Cano voting in favor and Directors Preciado, Cerda, and Sotelo-Solis opposing.

There was no reportable action on Closed Session Agenda Items A and B, and there was no need to meet in closed session for Closed Session Agenda Item D.

14. Adjournment

   With no further business before the Board, Chair Castaneda adjourned the meeting at 9:45 p.m.

   ____________________________________________
   Steve Castaneda, Chair

Attest:

   ________________________________
   Ligia Perez, Board Secretary
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**SWEETWATER AUTHORITY**  
**REVENUE FUND**  
**Disbursements**  

**July 17, 2020**

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**Warrant Disbursements**
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**SWEETWATER AUTHORITY**  
**REVENUE FUND DISBURSEMENTS**

July 17, 2020

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<td>2,622.00</td>
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**$4,792,654.62**  **Warrant Disbursements**
TO: Governing Board
FROM: Management
DATE: July 17, 2020
SUBJECT: Acquisition of Property: Thiefe Property (APN: 521-030-06) – 40 Acres of Vacant Land in the Lake Loveland Watershed

SUMMARY
In February 2020, the Authority was contacted by Mr. Emil Thiefe, with an offer to sell 40 acres of property located within the Authority’s watershed at Lake Loveland. The property is undeveloped and has an access road to Lake Loveland. Staff presented the acquisition opportunity to the Board in closed session on February 26, 2020, and the Board directed staff to negotiate with the owner for the acquisition of the property.

The Authority conducted an appraisal of the property and offered the appraised fair market value of $350,000. The Authority also performed due diligence activities including a survey and Phase I Environmental Assessment to ensure that the property was free from encumbrances and liabilities. The Authority did not use a realtor or broker for this transaction.

PAST BOARD ACTIONS
April 8, 2020 Closed Session: Conference with Real Property Negotiators pursuant to Government Code Section 54956.8
February 26, 2020 Closed Session: Conference with Real Property Negotiators pursuant to Government Code Section 54956.8

FISCAL IMPACT
Below are the final acquisition costs:

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<tr>
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<td>Closing Costs</td>
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<td>Environmental Site Assessment</td>
<td>$ 2,500</td>
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<td>Survey</td>
<td>$ 6,436</td>
</tr>
<tr>
<td>TOTAL</td>
<td>$369,558</td>
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The land purchase and closing costs were funded by the Land Acquisition Reserve. The beginning balance of the reserve was $703,611. After the purchase, there is $352,689 remaining in the reserve. Other costs such as legal fees, appraisal, environmental assessment, and survey were paid from the Operating Expense Budget.

POLICY

Strategic Plan Goal 7 – Environmental Stewardship (ES): Provide core services while maintaining a balanced approach to human and environmental needs.

- Objective ES8: Explore acquisition of property within the Sweetwater River Watershed when properties become available for sale for the protection of the watershed and water quality.

CONCLUSION

The report is for informational purposes only.

ATTACHMENT

Map of Subject Property (APN: 521-030-06)
Land Purchase - 40 Acres in the Loveland Reservoir Watershed

Loveland Reservoir

Parcel - 40 acres
APN 521-030-06

Loveland Dam

Gated Entrance

Sequan Truck Trail

Dehesa Road

Japatul Road

Loveland Reservoir Lands Boundary
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TO: Governing Board (Finance and Personnel Committee)

FROM: Management

DATE: July 10, 2020

SUBJECT: Consideration to Provide Hard Copies of Documents to Citizens Advisory Committee and Possible Revisions to Board Policies 522 - Citizens Advisory Committee and 608 – Mailed Notice of Meetings

SUMMARY
At its June 24, 2020 meeting, the Board Chair requested for staff to mail Board agenda packets to the Citizens Advisory Committee (CAC) members after listening to a public comment from a CAC member requesting a hard copy of the agenda packet and fees to be waived.

After formation of the CAC, Members and Alternates were encouraged to sign up to receive Board and Committee agenda packets electronically and the link to the Authority’s website was provided.

With the larger Board agenda packages, staff is finding that the cost collected for mailed notices do not cover expenses incurred.

PAST BOARD ACTION
February 26, 2020 The Board reviewed and reapproved Board Policy 522, Citizens Advisory Committee and Board Policy 608, Mailed Notice of Meetings

FISCAL IMPACT
Providing hard copies of documents incurs costs associated with office materials, postage, and additional staff time.

POLICY
Governing Board Policy 522, Citizens Advisory Committee, establishes policy for the operation and administration of the CAC, and provides clear and concise operating guidelines to perform their duties.
Memo to: Governing Board (Finance and Personnel Committee)  
Subject: Consideration to Provide Hard Copies of Documents to Citizens Advisory Committee and Possible Revisions to Board Policies 522 - Citizens Advisory Committee and 608 – Mailed Notice of Meetings  
July 10, 2020  
Page 2 of 2

Governing Board Policy 608, Mailed Notice of Meetings, establishes a fee of $6.00 per month or $72.00 per year for mailing the agenda packet for any person requesting a copy of the agenda packet at time of distribution.

ALTERNATIVES
1. Direct staff to revise Board Policies 522 and 608.
2. No action.

STAFF RECOMMENDATION
Staff defers to the Governing Board for direction.

ATTACHMENTS
1. Policy 522 – Citizens Advisory Committee  
2. Policy 608 – Mailed Notice of Meetings
POLICY 522 – CITIZENS ADVISORY COMMITTEE

POLICY

To establish policy for the operation and administration of the Sweetwater Authority Citizens Advisory Committee (CAC) established by the Governing Board (Governing Board) of the Sweetwater Authority (Authority) on April 10, 2019, and to provide the CAC with clear and concise operating guidelines to perform their duties.

PROCEDURE

I. Background:

The Citizen’s Advisory Committee (CAC) was established by a vote of the Governing Board of the Authority on April 10, 2019, for the purpose of providing citizen and rate payer involvement in advising the Authority on ways it could improve its efficiency with regard to Authority operations and with regard to executing the Authority’s Strategic Plan.

II. Composition and Selection:

A. The CAC will consist of seven (7) members (Members) and seven (7) alternate members (Alternates). Terms for the initial Members/ Alternates will be staggered between approximately two (2) and four (4) years for the initial cycle, determined by lot or other game of chance during the meeting in which Members/ Alternates are formally appointed by the Authority Governing Board. All terms thereafter will be four (4) years. Members and Alternates shall not be subject to term limits. Terms for Members/ Alternates designated as having approximately two (2) year terms, shall end in January 2021, and terms for Members/ Alternates designated as having approximately four (4) year terms, shall end in January 2023.

B. Members and Alternates will be selected as follows:

Each Authority Director shall make a nomination of one Member and one Alternate to the CAC. For Authority Directors who are members of the Board of Directors of South Bay Irrigation District (SBID), nominees shall be residents of the nominating Director’s SBID division. For Authority Directors who are appointed by National City, nominees shall be residents of National City.
C. For the initial selection of CAC Members and Alternates the process of nominating Members/Alternates, shall be completed no later than August 31, 2019 unless otherwise determined by the Governing Board.

D. The Governing Board shall consider formal appointment of initial nominees to the CAC at a regular meeting in September 2019. In the event any Authority Director fails to make nominations for Members/Alternates to the CAC prior to the August 31, 2019 deadline specified in Section C, above, formal appointment of any such nominee shall take place at the soonest practicable meeting of the Authority Governing Board following the nomination. Following the appointment of the initial CAC Members/Alternates, the appointment of nominees to fill expired terms on the CAC shall occur at a regular meeting of the Governing Board in January or February of odd numbered years.

III. Orientation/Establishment of Meeting Date and Times/Conduct for Meetings:

A. Once appointed to the CAC by the Governing Board, Authority staff will provide a briefing/orientation to Members/Alternates at the first regular meeting of the CAC on the mission of the Authority and an overview of the Authority’s Strategic Plan and Work Plan for the applicable fiscal year. This briefing/orientation for the initial CAC Members/Alternates shall be held no later than October 31, 2019. Thereafter, the biennial briefing/orientation of Members/Alternates shall be held in conjunction with the first CAC meeting following new appointments by the Governing Board in odd numbered years.

B. Following the briefing/orientation by Authority staff, the initial CAC will convene and determine: (1) a proposed list of relevant issues following the implementation schedule set forth in the Authority’s Detailed Work Plan (short term of 0 – 2 years, medium term of 2 – 5 years, and long term of more than 5 years) to be considered by the CAC, and (2) a proposed schedule for meeting dates and times (with meetings to be held no less than quarterly), for presentation to the Authority Governing Board by December 31, 2019, for the Governing Board’s prioritization and approval. Management will inform the Board of any staffing or budgetary impacts associated with the CAC proposed list of relevant issues or meeting dates and times. Thereafter, the CAC shall present its proposed list of relevant issues to be reviewed by the CAC and its proposed schedule for meeting dates and times (with meetings to be held no less than quarterly), after the second CAC meeting of each odd numbered year.
C. The CAC will meet on its established meeting dates, as approved by the Governing Board. Meetings will comply with the Ralph M. Brown Act and will be held at one of the Authority’s facilities. The CAC shall meet no less than quarterly and only conduct business when a full quorum consisting of more than 50% of the current Members/Alternates are present (with Alternates voting only when the regular Member is absent). The business of the CAC will be conducted in accordance with Roberts Rules of Order and approve motions with a majority of the CAC quorum voting in favor. Anything less than a majority of the CAC quorum voting in favor of a particular motion represents a failed motion.

D. CAC Members/Alternates may attend SWA Committee and Governing Board meetings and provide individual or organized public comment regarding CAC approved recommendations on items or issues to be considered by the Governing Board. When representing the CAC, the Member/Alternate public comment must reflect the official position of the CAC as determined by an official motion garnering the requisite number of affirmative votes as specified in Section III.C. above. In all cases where applicable, Authority staff will convey information on official CAC recommendations to the applicable Authority Committee and/or the Authority Governing Board prior to or as part of the Governing Board’s consideration of the items or issues under consideration. The CAC should deliver CAC approved recommendations to Authority staff in time to reasonably be added to reports provided to the Governing Board. The Detailed Work Plan approved by the Governing Board provides the framework for what items will be considered by the Governing Board and when those items will be considered. Authority staff should notify the CAC, in all instances where practicable given operational constraints, as to applicable deadlines for receipt of official CAC recommendations, to enable compliance with scheduling legal requirements.

E. The CAC may make formal requests for information from Authority staff in support of the approved list of relevant issues to be reviewed by the CAC, and Authority staff shall make every reasonable effort to provide requested information in a timely fashion in order to enable to allow the CAC to make the most informed decision possible. Notwithstanding the foregoing, requests by the CAC for information and/or research will be channeled through the General Manager and any requests for substantive information and/or research that entail substantial effort or cost will be channeled through the Board, for the Board’s consideration and formal direction. Individual CAC Members/Alternates may request information, which will be provided in accordance with the Public Records Act.
IV. Membership Removal:

A. CAC Members and Alternates are subject to removal at any time by a majority vote of the Board of Directors, or as indicated below.

B. If a CAC Member or Alternate is absent for three (3) consecutive meetings, unless excused for good cause by the Chair of the Governing Board, Authority staff will contact the Member or Alternate by phone or in writing and inform him or her of this section. If the Member or Alternate misses a fourth (4th) consecutive meeting, he or she shall be removed through a written notification from the Chair of the Governing Board.

C. To vacate a position, a CAC Member or Alternate shall send a written resignation letter to the Board of Directors.

D. If a CAC Member or Alternate ceases to be a resident of the division from which he or she was appointed (if appointed by a Director from SBID) or of National City (if appointed by a Director from National City), the Member or Alternate is deemed to have resigned his or her CAC membership.
POLICY 608 – MAILED NOTICE OF MEETINGS

POLICY

Sweetwater Authority’s (Authority) agenda is posted on the Authority’s website and is available to be downloaded at no cost. Upon receipt of a written or telephone request, the Governing Board (Board) authorizes its Secretary to mail or e-mail the requested materials pertaining to the agenda packet at the time the agenda is posted or upon distribution to all, or a majority of all, of the members of the Board, whichever occurs first.

PROCEDURE

Any person may request that a copy of the agenda or a copy of all the documents constituting the agenda packet of any meeting of the Board be mailed to them. If requested, the agenda and documents in the agenda packet shall be made available in appropriate alternative formats to persons with a disability, as required by Section 202 of the Americans with Disabilities Act of 1990 (42 U.S.C. § 12132.) Any request for mailed copies of agendas or agenda packets shall be valid for the calendar year in which it is filed, and must be renewed following January 1 of each year.

The Board has established a fee of $6.00 (this fee is low considering postage alone generally exceeds this amount) per month or $72.00 per year for mailing the agenda or agenda packet. If the fee that is established should be revised, it shall not exceed the cost of providing the service. The agenda packet may be provided on a compact disc, or similar electronic media, rather than print copy, if so requested, at the actual reasonable cost.

Failure of the requesting person to receive the agenda or agenda packet pursuant to this policy shall not constitute grounds for invalidation of the actions taken by the Board at the meeting for which the agenda or agenda packet was not received.
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TO: Governing Board (Operations Committee)
FROM: Management
DATE: July 10, 2020
SUBJECT: Consideration to Award a Time and Materials Contract for Professional Geotechnical Services

SUMMARY
The Authority requires the support of a professional geotechnical consultant to perform the following services during the course of implementing the construction of its Capital Investment Program and maintenance activities:

- Trench soils compaction testing
- Asphalt paving compaction density testing
- Concrete compressive strength testing
- Geotechnical investigations and other work as assigned by Task Order

Due to the nature of the work related to the geotechnical support services, the Authority has utilized an on-call time and materials contracting approach to assure the availability of professional geotechnical services when needed, while authorizing only those services required. The current on-call professional geotechnical consultant, Ninyo & Moore, was awarded a contract at the July 22, 2015 Board meeting. Ninyo & Moore had also served as the Authority’s on-call geotechnical services consultant for the five-year period prior to the selection in 2015. As such, Ninyo & Moore has provided professional geotechnical consulting services for the Authority for the past ten years. Ninyo & Moore is currently providing key geotechnical consulting services related to the 36-inch Transmission Main Replacement Project, which is scheduled to be completed on January 1, 2021.

The current contract with Ninyo & Moore was executed on August 26, 2015. In response to the pending expiration of the current contract, staff developed a Request for Proposals (RFP) to select an on-call consultant for professional geotechnical services. The RFP included six areas requiring information, with assigned possible points for each area, as follows:

- Responsiveness to Request for Proposal (15 points)
- Recent Experience with Similar Projects (25 points)
- Quality Control and Quality Assurance (10 points)
- Qualifications and Experience of Assigned Personnel (25 points)
Memo to: Governing Board (Operations Committee)

Subject: Consideration to Award a Time and Materials Contract for Professional Geotechnical Services

July 10, 2020
Page 2 of 5

- Approach and Understanding of Services Requested (15 points)
- Past Performance on Projects for the Authority (10 points)

Staff solicited interest from consultants by sending RFP packages to 15 consultants that have performed work for the Authority in the past or have expressed interest in performing work for the Authority by responding to previous RFPs related to professional geotechnical services. In accordance with the Board’s emergency order, which authorizes the General Manager to significantly increase the outreach and participation of small, local, and disadvantaged businesses in Authority contracts, the RFP was also advertised in the San Diego Union-Tribune, The Star News, and The Daily Transcript. The RFP was also posted on Ebidboard and was sent to the Chula Vista Chamber of Commerce and the National City Chamber of Commerce.

Proposal packages were received on July 1, 2020 from the following six consultants (listed in alphabetical order):

- Atlas Technical Consultants, LLC (Atlas)
- Construction Testing & Engineering, Inc. (CTE)
- Geocon, Inc. (Geocon)
- MTGL, Inc. (MTGL)
- Ninyo & Moore
- NOVA Services, Inc. (NOVA)

Construction Testing & Engineering, Inc. (CTE) is the only consulting firm with a local presence. Their corporate office is in Escondido and they have a branch office in Chula Vista.

The proposals received from the six consultants are provided for Board review. Staff has reviewed and analyzed the six proposal packages received. The following is a summary of the scores based on staff’s review, including the overall scores (out of 500 possible points) and the scores with the high and low scores omitted from staff's evaluation (for a total of 300 possible points), with rankings presented for the two evaluation methodologies, respectively.

<table>
<thead>
<tr>
<th>Consultant</th>
<th>Total Score</th>
<th>Ranking Based on Total Score</th>
<th>Score Without High and Low</th>
<th>Ranking Without High and Low</th>
</tr>
</thead>
<tbody>
<tr>
<td>Atlas</td>
<td>464</td>
<td>2</td>
<td>280</td>
<td>2</td>
</tr>
<tr>
<td>CTE</td>
<td>454</td>
<td>4</td>
<td>272</td>
<td>4</td>
</tr>
<tr>
<td>Geocon</td>
<td>458</td>
<td>3</td>
<td>274</td>
<td>3</td>
</tr>
<tr>
<td>MTGL</td>
<td>406</td>
<td>6</td>
<td>250</td>
<td>6</td>
</tr>
<tr>
<td>Ninyo &amp; Moore</td>
<td>494</td>
<td>1</td>
<td>298</td>
<td>1</td>
</tr>
<tr>
<td>NOVA</td>
<td>444</td>
<td>5</td>
<td>269</td>
<td>5</td>
</tr>
</tbody>
</table>
The staff that reviewed the attached proposals unanimously ranked Ninyo & Moore as the number 1 proposer (one reviewer scored Ninyo & Moore and Atlas as a tie for number 1). This is evidenced by the number 1 ranking in Total Scores in the table above and in the analysis in which the high and the low scores were eliminated from consideration to determine if the results of one or two reviewers skewed the results.

Considering concerns raised at previous Operations Committee meetings with regard to the evaluation process favoring consultants who have had previous experience with the Authority, staff performed an additional analysis of the results. This analysis involved eliminating the criteria of Past Performance on Projects for the Authority and recalculating the rankings. After removing the criteria for Past Performance on Projects for the Authority, there is no change in the highest-ranked consultant (it remains to be Ninyo & Moore), however, there is a bit of a reordering of firms ranked 2, 3, and 4. Based on Total Scores (without the 10 points assigned to past performance), the ranking is as follows:

- 1. Ninyo & Moore
- 2. Geocon
- 3. Atlas and CTE (tied)
- 4. CTE and Atlas (tied)
- 5. NOVA
- 6. MTGL

If the high and low scores are eliminated from consideration, the order adjusts a little by eliminating the tie, as follows:

- 1. Ninyo & Moore
- 2. Geocon
- 3. CTE
- 4. Atlas
- 5. NOVA
- 6. MTGL

Based on the initial analysis and the additional analysis after removing the criteria for Past Performance on Projects for the Authority, Ninyo & Moore is the highest-ranked proposer in all scenarios.

**PAST BOARD ACTION**

July 22, 2015

The Board awarded a one-year time and materials contract, with the option of renewing the contract on an annual basis for up to five years, to Ninyo & Moore, San Diego, CA, for Time and Materials Professional Geotechnical Services.
FISCAL IMPACT

The fiscal impact will be based on the number of project assignments that occur during the term of the contract. However, as a guideline, in the past five years, the Authority has paid $609,050 to Ninyo & Moore under their current contract. Funding will be made available from Expense accounts, Capital Investment accounts, the Street Improvements Capital Fund, or the Capital Contingency Fund.

POLICY

Resolution 20-10, Resolution of The Governing Board of Sweetwater Authority Amending and Restating Resolution 20-07, Declaring an Emergency Due to the COVID-19 Health Pandemic

- The Governing Board authorizes the General Manager to further the Board’s compelling interest to bring back economic stability within its service area by significantly increasing the outreach and participation of small, local, and disadvantaged businesses in Authority contracts;

The Authority Procurement Policy and Procedures (Procurement Policy) requires that contracts over $75,000 be awarded by the Board. The Procurement Policy allows for contracts to be executed for up to five (5) years.

Strategic Plan Goal 2: System and Water Supply Reliability (SR) – Achieve an uninterrupted, long-term water supply through investment, maintenance, innovation and developing local water resources.

- Objective SR1: Implement the current Water Distribution Master Plan to include: pipeline replacements; new pipelines for capacity, reliability and redundancy; additional water storage capacity in deficient zones; and additional pumping capacity for Hydropneumatic Zones.
- Objective SR3: Develop and implement specific infrastructure preventive maintenance programs that ensure all transmission and distribution system appurtenances are functional and effective.
- Objective SR6: Review plans submitted by Chula Vista, National City, and County of San Diego for street improvement projects to identify potential conflicts, then develop the most cost-effective facility modifications to avoid known or potential conflicts.
- Objective SR7: Review proposed development plans and install necessary infrastructure to ensure the facilities meet the required demand, achieve code compliance, avoid cross-connections, and have minimal-to-zero financial impacts to the Authority’s ratepayers.
Memo to: Governing Board (Operations Committee)
Subject: Consideration to Award a Time and Materials Contract for Professional Geotechnical Services
July 10, 2020
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- Objective SR9: Cost-effectively maintain facilities and infrastructure to optimize their useful life and performance.

ALTERNATIVES
1. Award an on-call, time and materials contract for professional geotechnical services to Ninyo & Moore, San Diego, CA. The contract includes a provision for annual renewals up to a total contract duration of five years, along with discontinuation of service at any time and for any reason.

2. Other direction as determined by the Governing Board.

STAFF RECOMMENDATION
Staff recommends that the Governing Board award an on-call, time and materials contract for professional geotechnical services to Ninyo & Moore, San Diego, CA. The contract includes a provision for annual renewals up to a total contract duration of five years, along with discontinuation of service at any time and for any reason.

ATTACHMENTS
1. Atlas Technical Consultants, LLC Proposal
2. Construction Testing & Engineering, Inc. Proposal
3. Geocon, Inc. Proposal
4. MTGL, Inc. Proposal
5. Ninyo & Moore Proposal
6. NOVA Services, Inc. Proposal
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STATEMENT OF QUALIFICATIONS
REQUEST FOR PROPOSALS FOR ON-CALL TIME AND MATERIALS GEOTECHNICAL ENGINEERING AND TESTING SERVICES

01 July 2020

SUBMITTED TO:
SWEETWATER AUTHORITY
Luis Valdez
505 Garrett Avenue
Post Office Box 2328
Chula Vista, CA 91912
lvaldez@sweetwater.org
Dear Mr. Valdez,

Atlas Technical Consultants LLC (Atlas) has reviewed the Request for Qualifications and we are pleased to present this package to provide On-Call Geotechnical Engineering and Testing Services to the Sweetwater Authority (Authority). Atlas is a professional services firm with a nationwide footprint, providing construction material testing and special inspection, geotechnical engineering, infrastructure design and modeling services, environmental compliance and permitting; as well as, program, project, and construction management services.

Atlas, formerly known as SCST, has worked on all types of new construction, relocation, and expansion of water related projects, including potable water, sanitary sewer systems, recycled water systems, wastewater facilities, reservoirs pipelines, stormwater, pump stations and lift stations, and drainage work. Aside from our work for the Sweetwater Authority’s Richard A. Reynolds Groundwater Desalination Facility, we have worked for numerous public agencies and cities in Southern California providing services to various water districts in San Diego County. We currently hold on-call contracts with the cities of National City, Del Mar, and Carlsbad, as well as with the County of San Diego.

Company-wide, Atlas employs more than 3,000 staff, including licensed professional engineers, geotechnical engineers, certified inspectors, program, project, and construction managers, and support personnel. To save our clients time and money, the majority of our inspectors and technicians are multi-carded by various local and national agencies, including the International Code Council (ICC), American Welding Society (AWS), and American Concrete Institute (ACI), to minimize the assignment of multiple field staff. We also have staff members with various certifications, including Caltrans, HAZWOPER, HAZMAT, USACE EM 385-1-1, and OSHA. Atlas is proficient with local, state, and federal codes, standards, requirements, and close-out procedures and thorough record keeping of all project documentations. We operate four certified geotechnical/materials testing laboratories in California.

Atlas understands the importance of utilizing highly-skilled and multi-disciplined professionals, technicians, and inspectors, who are familiar with the workings of municipal agencies, who know the processes and procedures that are generally utilized during on-call contract work, and who have the ability to integrate into a client’s established organizational structure and methods. We are able to apply our combined experience with other public agencies and on-call contracts to present the Sweetwater Authority with a cohesive team capable of exceeding the high level of service the Authority requires.

This proposal is valid for at least 90-days from the date of submission. Atlas has the capabilities and resources to perform all services required during this contract. We excel at providing services on short notice and in a timely manner to meet critical deadlines and schedules. We will deliver a commitment to the Authority to focus on safety, communication, cost, schedule, and quality. Should you have any questions or require additional information, you can contact Atlas’ Senior Client Services Manager, Dan Marino at (951) 294-7306, or via email at Dan.Marino@oneatlas.com.

As Atlas’ Regional Senior Vice President, West Region, I am the official representative who is authorized to bind the firm contractually to all commitments made in this submittal. Atlas appreciates your time and consideration on our behalf.

Very Respectfully,

John Kirshbaum, PE
Regional Senior Vice President, West Region

Dan Marino
Senior Client Services Manager
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EXHIBIT B

TIME AND MATERIALS CONTRACT
(PROFESSIONAL GEOTECHNICAL SERVICES)
STATEMENT OF CONSULTANT'S QUALIFICATIONS

1. Name of company: Atlas Technical Consultants LLC (formerly known as SCST, LLC)
2. Business address: 6280 Riverdale Street, San Diego, CA 92120
3. When organized: 1959; In 2018, SCST was purchased by Atlas Technical Consultants
4. Where incorporated: San Diego, CA
5. Length of time the company has been in business in San Diego County: 60 Years
6. How many years has the company engaged in business under the present company name?: 2 Years
7. Brief company history: Atlas Technical Consultants is a professional services firm with a nationwide footprint, providing geotechnical engineering, construction material testing and special inspection, infrastructure design and modeling services, environmental compliance and permitting; as well as, program, project, and construction management services. Atlas, formerly known as SCST, has 60 years of experience providing geotechnical engineering and special inspection services in Southern California for construction of improvements for various projects including reservoirs, water/wastewater treatment plans, pipelines, storm drains, and pressure reducing stations.
8. List all applicable references, primarily from other public agencies that the company has had as clients: 
   City of National City: Jose Lopez, PE, Associate Engineer, (619) 336-4380
   City of Del Mar: Joe Bride, PE, Deputy Director of Public Works, (858) 755-3294
   City of Carlsbad: Steve Didier, Municipal Project Manager, (760) 602-7539
   Rainbow Municipal Water District: Michael Powers, Associate Engineer, (760) 728-1178
   City of Vista: Skip Hamman, Consultant, (760) 802-5605
   County of Riverside: Marc Crispin, Supervising Construction Inspector, (951) 955-0167
   City of Coachella: Gordon Fisher, Construction Project Coordinator, (760) 501-8121
9. Contracts in progress with current completion schedule (percent of work remaining) and contract amount: 
   UCSD, North Torrey Pines Living and Learning Neighborhood, 15% of Work Remaining, Contract Amount $2,636,481
   City of Corona, Cajalco & I-15 Interchange Improvements, 1% of Work Remaining, Contract Amount $608,264
   City of San Diego 30th Street Pipeline Replacement, 30% of Work Remaining, Contract Amount $106,592
   City of Vista South Santa Fe Avenue Streetscape Improvements, 20% of Work Remaining, Contract Amount $154,688
   City of San Diego Murphy Canyon Road Trunk Sewer Repair and Rehabilitation, 10% of Work Remaining, Contract Amount $147,214.
10. List projects completed for Sweetwater Authority in the past five years: 
    Atlas, formerly known as SCST, provided materials testing and inspection, as well as geotechnical testing and observation services during construction for the Sweetwater Authority Richard A. Reynolds Desalination Facility Phase II Expansion project as a sub-consultant. Atlas provided services from January 2016 through May 2017.
11. Has the company ever failed to complete any awarded work? No
EXHIBIT B

TIME AND MATERIALS CONTRACT
(PROFESSIONAL GEOTECHNICAL SERVICES)
STATEMENT OF CONSULTANT’S QUALIFICATIONS

If so, please explain: ____________________________________________________________

12. Has the company ever defaulted on a contract? No
If so, where and why: __________________________________________________________

13. Experience in consulting work similar in scope to this professional geotechnical services project: Atlas Technical Consultants has experience working on all types of water projects, including new construction and expansion/rehabilitation of pipelines, water and wastewater treatment plants, conveyance systems, lift stations, pressure reducing stations, and reservoirs. We have worked for the majority of other cities in San Diego County, including on-call services for the County of San Diego, City of Carlsbad, City of National City, and the City of Del Mar.

14. List names, background, and experience of the principal members of your personnel, including the officers: See Appendix A.

15. List related project experience with names of assigned personnel: See Appendix A.

16. Résumés of all related personnel to be assigned to the Authority’s work. See Section 4.

17. Total number of employees: 202

18. How many office personnel: 32

19. Statement of approach and understanding of the on-call services required under this contract, with key personnel listed: Please See Section 3, Technical Approach and Section 4. Project Staff included within this submittal.

20. At any time during the last five (5) years, has your company, or any of its owners or officers been convicted of a crime involving the awarding of a contract of a government construction project, or the bidding or performance of a government contract? Yes ☐ or No ☒

21. In the past five (5) years, has any insurance carrier, for any form of insurance, refused to renew the insurance policy for your company? Yes ☐ or No ☒. If the answer is "Yes," explain on a separate signed page, the name of the insurance carrier, the form of insurance and the year of the refusal.

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Exhibit B
### Reference Number 1
- **District or Entity:** Work for The City of National City
- **Phone No.:** (619) 336-4380
- **Address:** 1243 National City Boulevard, National City, CA 91950
- **Name of Contact:** Jose Lopez, PE at above phone number
- **Scope of Work:** Sewer Line Replacement and Upsizing Project Phase I
- **Dollar Amount:** $42,129

### Reference Number 2
- **District or Entity:** Work for The City of Del Mar
- **Phone No.:** (858) 755-3294
- **Address:** 2240 Jimmy Durante Boulevard, Del Mar, CA 92014
- **Name of Contact:** Joe Bride, PE at above phone number
- **Scope of Work:** 2016 Sewer and Water Group
- **Dollar Amount:** $7,478

### Reference Number 3
- **District or Entity:** Work for The City of Carlsbad
- **Phone No.:** (760) 602-7539
- **Address:** 1635 Faraday Avenue, Carlsbad, CA 92008
- **Name of Contact:** Steve Didier, Municipal Projects at above phone number
- **Scope of Work:** Recycled Water Phase III Pipeline Expansion Segment No. 9
- **Dollar Amount:** $44,910
Atlas Technical Consultants (Atlas), formerly known as SCST, LLC, has been providing geotechnical engineering and materials testing and inspection services in Southern California for the past 60 years to various water districts and municipal agencies for all types of public works projects including new construction, rehabilitations, and improvements of potable water, sanitary sewer systems, recycled water systems, wastewater facilities, pipelines, stormwater, reservoirs, dams, pump stations and lift stations, and drainage work. We have provided geotechnical engineering and materials testing and inspection services to various cities throughout Southern California, including the cities of National City, Chula Vista, Bonita, Spring Valley, Lemon Grove, La Mesa, San Diego, Del Mar, Vista, and Carlsbad.

Atlas operates four geotechnical/materials testing laboratories throughout Southern California, including one of the most complete and sophisticated laboratories in San Diego County, which is located just over 13 miles from the Authority’s offices. We maintain a system of checks and balances to ensure our projects are of the highest quality. Atlas' laboratories have and maintains testing, sampling and inspection certifications through various State, National, and International agencies, and nationally-recognized entities including the AASHTO Material Reference Laboratory (AMRL) and Caltrans, which are both recognized as accepted certifications for laboratory accreditation and qualification requirements for FHWA projects. Our additional certifications include:

- American Concrete Institute (ACI)
- American Society for Testing and Materials (ASTM)
- American Society of Non-Destructive Testing (ASNT)
- American Welding Society (AWS)
- Caltrans
- Cement & Concrete Reference Laboratory (CCRL)
- Cities of San Diego, Riverside, and Los Angeles
- Division of the State Architect (DSA)
- International Code Council (ICC)
- Office of Statewide Health Planning & Development (OSHPD)
- OSHA HAZWOPER Certification
- National Institute for Certification in Engineering Technologies (NICET)
- US Army Corps of Engineers

Our certified laboratory can provide the Authority with any required testing services during this contract, which may include trench soils compaction testing, asphalt paving compaction density testing, concrete compressive strength testing, grading, and welding inspection and testing. Our experienced technicians will ensure that your testing needs are met as they have been in the past - in a timely and reliable manner with the accuracy and precision that is required.

Atlas’ key personnel have extensive experience providing and overseeing geotechnical engineering, observation, inspection, and material testing services. They all have experience working with cities and other public works and municipal agencies, and know how to assimilate into a city’s organizational structure and methods. They understand the nature of on-call contracts, and are able to respond to a request from the Authority quickly and efficiently. Atlas will respond to a request from the Authority within 24 hours.

Atlas provides the depth of resources to deliver multiple task orders concurrently and have done so successfully on numerous on-call contracts with Southern California cities in the past. This knowledge-based network organizational structure achieves program continuity along with project/task description efficiency by assigning key personnel for the duration of the contract, while maintaining the flexibility to create multi-disciplinary project teams in response to specific project or task description requirements. Each project or task description will be treated as a separate project that fits within the management structure.
3. TECHNICAL APPROACH

Technical Approach

When providing services, Atlas applies time-tested methods to assure the high quality, dependable services our clients have come to expect. Because every project is different, we will work with the Sweetwater Authority (Authority) and project team to understand the project objectives and to tailor the best approach to successfully complete each specific project. As demonstrated by our project experience and references listed in this submittal, we have the experience, staff, systems, and safeguards in place to deliver services for this contract with diligence and on time in a cost-effective manner to serve the best interests of the Authority. We also own and operate the proper equipment necessary to perform the required services.

Communication among the Atlas team, clients, and all project team members will ensure mutual understanding of the project scope, minimize reviews and errors, enhance product quality, and maximize our ability to complete projects within strict time constraints. Effective and appropriate communication is essential to the success of each project. A communication plan will be created which will establish and enable sharing of information with all parties involved through a set of proper protocol for effective communication for use throughout the project. This will include a contact list of client representatives, stakeholders, and Atlas team members. Protocols for written communications including emails, transmittal letters, and correspondence for submittal of deliverables, as well as face-to-face meetings, including a kick-off meeting, progress meetings, monthly meeting, monthly reporting, etc. will also be provided.

Management and scheduling of personnel is an important part of a project. Getting the right personnel on the job and accurately tracking their time can be challenging. Atlas’ success requires us to keep up-to-date staffing charts that enable us to manage and schedule our resources. We understand that we may be required to provide one or more personnel on very short notice. In order to respond to our client’s needs, our project manager regularly coordinates with other program managers to discuss upcoming projects and resource expectations.

With the use of our scheduling software, Agile Frameworks MetaField® 2020.2, our personnel commitments are identified, and our ability to meet your needs is maximized. The daily schedule is available to all Atlas personnel, permitting the field staff to view their project schedules, and enabling our project management team to ensure that we are effectively providing the correct staff members to perform the requested services.

Atlas will provide the Authority with multi-carded inspectors or technicians, enabling us to maximize staff utilization and avoid duplication. Our technicians and inspectors will be available within 24 hours of your request. In addition, both our project manager and dispatcher will be available to the Authority 24 hours a day and will be able to resolve any questions or problems that may arise during the life of a project. Our inspectors and technicians are well versed in the implementation of special inspection and testing requirements, and are experienced with a wide variety of materials used in construction.

Atlas’s project manager will provide individuals working on a specific task with the expected time allotted for that task. By establishing a budget and communicating the project expectations for our services at the beginning of a project to all individuals involved, Atlas can complete tasks efficiently and within the committed timeframe.

The program is accessible from anywhere, which allows project managers to track and evaluate performance of individual assignments at any time and place, even when traveling. This online, interactive system collects actual cost information on a real-time basis and compares them to the project budget estimates based on a percent complete basis and other metrics. This method of measuring and
evaluating performance enhances the ability to identify potential trouble spots at an early stage, and to predict any possible impacts on the project as a whole, which in turn is used to guide the development of corrective actions if needed.

Our practice is to closely monitor the frequency of your dispatch and diligently manage the budget on all our projects. Once we have reached 70% of the individual line-item budget authorizations, we will schedule a meeting with the Authority and any other designated representatives to compare the remaining work with the construction schedule, and provide you with a cost-to-complete in an effort to avoid additional authorizations. We will not exceed the authorized budget without approved change orders from you or your designated representative. The success of this program comes from providing you with early accounting and foresight into the progress of our services.

When an on-call engagement is requested for a project, Atlas’s project manager will prepare a comprehensive, detailed scope of services, and a cost estimate/budget for the project based on project schedule, plans, and specifications. We will work with the Authority to develop realistic and responsible solutions for each specific project’s needs.

GEOTECHNICAL ENGINEERING
Atlas’ geotechnical philosophy stems from its seasoned staff with a wide range of expertise with different types of projects. The philosophy focuses on providing innovative and thorough recommendations that best support and protect the Authority. Our typical approach to a project consists of the following items:

- **Review of Background Documents:**
  Atlas will review available relevant geologic and geotechnical engineering records, drawings, data, and other information as it pertains to the project site. This review and research process will aid in planning more efficient geotechnical investigations, and can lead to a reduction in the number of borings, test pits, or other types of subsurface exploration techniques.

- **Field Exploration:**
  Atlas will prepare a workplan for submittal to the Authority and the project team prior to the start of field exploration work. In addition to the establishment of important working relationships between project team members, this will help identify specific site accessibility requirements or challenges on-site, to minimize the potential for encountering subsurface structures and utilities.

  Upon satisfactory clearance of exploration locations, the subsurface/geotechnical investigation will be performed under the supervision and direction of one of our state of California licensed engineers or engineering geologists, who will remain in close contact with the field team to ensure a smooth execution of the field exploration program. The field program may include coring pavements, coring rock and soil, drilling and sampling borings or backhoe pits, setting piezometers, collecting seismic refraction data, mapping cut slopes, and field testing for resistivity or infiltration characteristics.
allows for efficient scheduling and managing of field and laboratory services. When an inspector or technician is scheduled, an email alert is sent from MetaField to the individual with the date of service, time of arrival, project address, on-site contact person and phone number, the assigned inspection or testing to be performed, and additional notes.

Preparation and Submittal of the Deliverables:
Atlas will present the agency with a report that has been thoroughly reviewed and checked for quality, consistency, and accuracy by our project manager. As required, reports will include recommendations for corrective actions, design recommendations for repairs, and recommendations for development of design changes. With the deliverables, Atlas will provide copies of design calculations, including documentation of computer-generated calculations and final reports, where applicable. The typical turnaround time for design deliverables is five weeks. A draft version of the report can be submitted for review and comment by the Authority so that recommendations can be fine-tuned if necessary. Our experience with municipal agencies has shown us the importance of this step as communication with the project team is streamlined.

SPECIAL INSPECTION AND MATERIALS TESTING
Our specific approach to services consists of:

Assigning and Scheduling of Staff
Selecting the appropriate inspector or technician for a project is one of Atlas’s highest priorities. We will provide the Authority with multi-carded inspectors or technicians for fieldwork. We utilize Agile Frameworks MetaField® 2020.2 software for efficient scheduling and managing of field, laboratory, and office personnel. The daily schedule is available to all personnel, enabling us to maximize staff utilization and avoid duplication. Our technicians and inspectors will be available within 24 hours of your request.

Once a request is made, Jeanine Watson, Atlas’ dispatcher, schedules field staff via MetaField, which

Testing, Field Work, and Deliverables/Reporting
The assigned inspector or technician will report to the appropriate on-site contact and sign-in if necessary. They will meet with the Authority’s designated representative to review the approved plans and specifications, and to assure that these documents are clearly understood and the Authority’s needs are being fully addressed.

The inspector or technician will perform the required inspection and/or testing service in accordance with the approved project drawings and specifications. Any required samples will be procured, labeled, electronically logged, and scheduled for pickup. Our field representative will document findings or test results with a report of their daily activities and the status of compliance with project requirements and present the report or results to the Authority’s designated representative for a signature. The signing representative, Atlas’s project manager and any pertinent project team members will then automatically receive an email copy of the report or results. Notification of any non-compliant work will be noted and clearly reported to the Authority’s designated representative.
Atlas also utilizes MetaField for our field reporting and testing, which allows us to upload daily reports and testing results to a central database from the field via cell phone or iPad where they are reviewed by the project manager. Information is then digitally signed and forwarded to the client, or accessed by the client through a cloud-based portal. Field inspection reports are typically available the same day.

Samples are delivered to Atlas’s in-house laboratory and are scheduled for testing at required dates by the appropriate testing methods. Test results are forwarded using MetaField to Atlas’s project manager for review and distribution. Should testing result in non-compliance, the designated Authority representative is notified immediately, and a log of non-conformance is automatically tracked per project using MetaField followed with a telephone conversation with an Atlas engineer.

**Final Report/Deliverables/Closeout**

As the construction contract enters the completion phase, our team will work with the Authority to develop a functional closeout plan. We will use our experience to identify remaining inspection requirements, and submit final reports in a timely manner. In order to expedite the final reports, our field daily reports and laboratory test results are automatically filed and reviewed throughout the duration of the project. Typically, Atlas can prepare these reports within three days of the completion of our work, depending on the size and scope of the project.

Daily reports and all laboratory test results are compiled into a Final Construction Quality Assurance report that displays all field inspection reports, batch plant inspection reports, laboratory testing reports, and a summary of the field tests performed on the project. The final report can include any information requested by the Authority, such as inspector’s names, certifications, or laboratory certifications.
4. PROJECT STAFF

**Thomas Canady, PE** will serve as Atlas’ Project Manager and primary point-of-contact during this contract. Tom is a State of California Registered Professional Engineer with over 30 years of extensive experience providing geotechnical engineering and material testing services for a wide range of public works projects, mainly in an on-call contractual role to agencies.

Tom will oversee the services provided by the Atlas team. He will be responsible for and direct all of the testing, inspections, and review all reports conducted and/or prepared during this contract. Other responsibilities will include attending any and all meetings that may be required in support of the professional services being provided throughout all phases of each project and review of all inspection reports, test results, and billing to verify that Atlas is providing services in accordance with plans, specifications, and contract requirements.

He will ensure that the Authority is completely satisfied with every aspect of the performance of our team during each assigned task order. Tom shares the common goal of delivering each project with a focus on cost control and scheduling while protecting the Authority’s interests. He will be available to answer questions that may arise via cell phone at (619) 944-4019 or email at Tom.Canady@oneatlas.com.

Tom will be supported by our full service in-house laboratory led by Atlas’ Director of Laboratory Services, **Darren Hicks**. Darren has 13 years of experience, and will ensure that all testing is performed to standards set by AASHTO resource (formerly AMRL), CCRL, Caltrans, and other regulatory agencies.

Atlas’ quality assurance program will be overseen by our Principal Engineer and Technical Advisor, **Emil Rudolph, PE, GE**. Emil is a State of California Registered Professional Engineer with over 20 years of extensive experience providing geotechnical engineering services for a wide range of public works projects, mainly in an on-call contractual role to agencies. Emil’s duties during this contract will include oversight of Atlas’ laboratory and testing procedures, and assisting with project management duties, including review of test results, and preparing reports and proposals.

**Andrew Neuhaus, PG, CEG** will provide engineering geology services. He is a State of California professional geologist and certified engineering geologist with 16 years of experience, and will aid in the performance and oversight of other specific field tasks as needed. Our project engineers, **Gillian Carzarella, PE**, and **Daniel Richardson, PE**, have eight years and seven years of experience respectively providing geotechnical engineering, and testing and inspection services and will provide support to Tom Canady, PE as needed.

Our field services will be overseen by our Director of Field Services, **Ron Baudour** and our Geotechnical Field Supervisor, **Daniel Ferguson**. Ron has over 30 years of experience providing management and oversight of inspection and testing services, and Dan has over 20 years of experience performing and overseeing earthwork observation and testing.

**Jeanine Watson** will serve as Atlas’ dispatcher. She has been with Atlas for four years. Jeanine utilizes Agile Frameworks MetaField® 2020.2 software to schedule staff. When an inspector or technician is scheduled, an email alert is sent from MetaField to the individual with the date of service, time of arrival, project address, on-site contact person and their phone number, the assigned inspection or testing to be performed, and any additional notes.

Atlas will be utilizing **Baja Exploration** as a sub-consultant to provide any necessary drilling services during this contract. Atlas and Baja Exploration have worked together on over 200 projects in the past seven years and have an unparalleled synergy. Their business address is listed below:

**Baja Exploration**  
1915 Commercial Street  
Escondido, CA 92029

Based on our on-call experience, we have a full understanding of the requirements and level of support expected during this contract and will meet the demands and various challenges with an extraordinary team of professionals.
The organizational chart below depicts the availability of our team’s management, supervisory, field, and technical staff for this contract. All of Atlas’ listed staff members are full-time employees, the majority of which are cross-trained and multi-credentialed to save the Authority time and money. Resumes of key personnel are marked with an asterisk (*) and their resumes are attached. Resumes of additional personnel are available upon request.
4. PROJECT STAFF

RESUMES

THOMAS B. CANADY, PE
PROJECT MANAGER/PRINCIPAL ENGINEER/LAB ENGINEER

EXPERIENCE & RESPONSIBILITIES

Tom is a registered professional engineer with over 30 years of experience. He has extensive experience in geotechnical consulting, and materials testing and special inspection services for public and private schools, public infrastructure including bridges, roads, storm drains, water and sewer systems, military projects, and residential developments. Tom manages these projects on strict budget constraints and careful consideration for accurate invoicing. Tom’s duties include project management, review of construction plans and specifications, attending jobsite meetings, selection and supervision of project staff, overseeing implementation of Quality Assurance programs, and reviewing test results.

PROJECT EXPERIENCE

City of San Diego Navajo Pump Station, San Diego, CA
Principal engineer during testing and inspection services for the construction of a $7.3 million project, consisting of a new pump station structure, five new water pump units, a one by-pass line, new piping and valves, generator, pump control system and PLC, and new connections to valves, fittings, and appurtenances. Other work included a replacement of an existing pipeline with a new 16-inch pipe, valves, fittings and appurtenances.

City of San Diego Jean Drive Storm Drain Replacement, San Diego, CA
Principal engineer during geotechnical observation and testing services for the construction of a $1.4 million project consisting of the abandonment of existing corrugated metal pipe and installation of a new 24-inch reinforced concrete pipe. The new alignment extends 217 feet.

Vallecitos Water District San Elijo Hills Pump Station, San Marcos, CA
Project manager during testing and inspection services for the a $1.4 million pump station and associated site work. Features included an 18-inch pump station suction pipeline, 16-inch pump station discharge pipeline, and street and landscape repair. The fast-track project was built to transfer potable water from the Olivenhain Municipal Water District to the Vallecitos Water District customers living in the San Elijo Hills area. The pump station enables augmented deliveries of locally treated water and improves the diversity and long-term reliability of potable water supply in the face of ongoing drought conditions. The station provides close to 3,000 acre-feet per year of added treated water capability.

Rainbow Municipal Water District Gird/Monserate Hill Waterline, Fallbrook, CA
Principal engineer during a geotechnical investigation for a proposed project which would include the construction of 2,150 feet of a 12-inch PVC waterline. 805 feet of the waterline would be installed using HDD equipment, while the remainder of the waterline would be constructed using the “open cut” method. Tom developed the project budget, prepared the proposal, supervised the field and laboratory testing, performed engineering analyses, developed design recommendations, and prepared the geotechnical report.

Group 3 PRS Replacement Project and Government Road Pipeline Relocations, Santa Fe Irrigation District, Rancho Santa Fe and Solana Beach, CA
Project manager during a geotechnical investigation for two projects in Solana Beach and Rancho Santa Fe. The Group 3 Pressure Reducing Station (PRS) Replacement project would include removal of three existing PRSs and design and construction of a replacement PRS at each location as well as installation of 2,845 linear feet of replacement pipeline. The Government Road Pipeline Relocations project would consist of the design and construction of 1,600 linear feet of replacement pipelines beneath residential streets in Solana Beach. The pipelines would consist of 16- to 20-inch diameter PVC water lines. Tom developed the project budget, prepared the proposal, supervised the field and laboratory testing, performed engineering analyses, developed design recommendations, and prepared the geotechnical report.
EMIL RUDOLPH, PE, GE  
TECHNICAL ADVISOR/PRINCIPAL ENGINEER

EXPERIENCE & RESPONSIBILITIES

Emil has over 20 years of experience providing geotechnical consultation, observation and testing services for a wide range of projects. He provides oversight and management of geotechnical and material testing teams during design and construction projects. His duties include the oversight of geotechnical and forensic evaluations including the review of field exploratory data to interpret subsurface geologic conditions, geotechnical calculations, review of temporary shoring systems, and the review of geotechnical reports and distress surveys of slopes, excavations, buildings, bridges, pavements, retaining walls and other improvements. During construction, he assesses earthwork compliance, advises on special inspection and testing results, and provides Atlas with quality reviews and technical advice. Emil manages a large team of professional engineers, geologists, and inspectors who inspect to construction plans and specifications, prepare engineering reports and proposals, and review subsurface and laboratory test results, and advises on construction claims.

PROJECT EXPERIENCE

City of National City Sewer Line Replacement and Upsizing Project Phase 1, National City, CA
Technical advisor during testing and inspection services for the construction of new street sections, PCC curb and gutter, AC dikes, AC driveways and driveway entrances, manholes, sewer lateral replacements, PCC sidewalks, PCC curb ramps, signing and striping, as well as open trench construction of 21-inch, 12-inch, and 8-inch diameter PVC sewer main.

City of San Diego Catalina 12-Inch Cast Iron Main and Catalina Sewer Main, San Diego, CA
Principal engineer during a geotechnical investigation for the replacement of several features, including replacement of 16,000 linear feet of cast iron water main of various sizes with new 24-inch Cement-Mortar Lined and Coated Steel (SMLCS) pipe and 16-inch PVD, replacement of 14,500 linear feet of sewer main, relocation of 5,000 linear feet of sewer main from the easement to the right-of-ways, re-plumbings, abandonment of 1,500 linear feet of existing sewer main, and construction of 1,200 linear feet of 18-inch RCP storm drain.

City of San Diego Mohawk Pump Station, San Diego, CA
Principal engineer during observation and testing services for a new $15 million pump station, which was designed to handle a minimum of 18 MGD. The project features include installation of 3,400 feet of 30-inch, 24-inch, and 16-inch new pipeline and replacement of cast iron pipelines totaling 3,960 feet. Other features include a masonry building, generator enclosure, valves, water main abandonment, appurtenances, landscaping, and irrigation.

City of Del Mar 2016 Sewer and Water Group 1 CIP, Del Mar, CA
Principal engineer during a geotechnical investigation and observation and testing services for a 6-inch high density polyethylene (HDPE) water line to replace the existing above-ground steel pipeline. The pipeline installation utilized horizontal directional drilling (HDD) techniques.

Carlsbad/Vista Interceptor Sewer, Reaches 11B-15 and the Agua Hedionda Sewer Lift Station, Carlsbad and Vista, CA
Principal engineer during observation and testing services for the construction of a $42.5 million project, which consisted of the replacement of the existing wood trestle bridge over the Agua Hedionda Lagoon with a new 140-foot long steel truss bridge to support the pipeline, as well as construction of a new sewage lift station to replace the existing station, which is the City’s largest lift station. Other features included the construction of a new parallel force main and gravity sewer to provide increased capacity and reliability to the sewer system. The new force main construction utilized a combination of standard construction methods and Horizontal Directional Drilling to avoid existing utilities.
ANDREW NEUHAUS, PG, CEG
SENIOR GEOLOGIST

EXPERIENCE & RESPONSIBILITIES

Andrew has 16 years of experience as an engineering geologist and is well versed in the planning and coordination of geotechnical investigations and implementation of project work plans, safety plans, and permit acquisition. He produces soil exploration logs in accordance with USCS standards utilizing his deep comprehension of subsurface soil conditions. He is skilled in geologic records research for site investigations and reconnaissance, and compiles complex geologic data sets for presentation. During construction, Andrew advises on grading cleanouts, keyway, construction, slope reinforcement, backfill operations, and deep foundation operations. His other duties include review of construction plans and specifications, attending jobsite meetings, preparation of engineering reports and proposals, and reviewing and reporting test results.

PROJECT EXPERIENCE

Otoy Water District Treatment Plant Upgrades, Chula Vista, CA
Project manager during a geotechnical investigation for the design and construction of one brine tank and three sodium hypochlorite tanks. The brine tank is 23-feet high and 10-feet in diameter. Each of the three sodium hypochlorite tanks is 16-feet high and 10-feet in diameter. The sodium hypochlorite tanks are constructed on 12-foot by 12-foot, 1-foot thick reinforced concrete pads. The brine tank is constructed on a 14-foot by 14-foot, 1-foot thick reinforced concrete pad.

Otoy 2nd Pipeline Phase 2 and AC Woodman Street Pipeline Replacement, San Diego, CA
Project manager during a geotechnical investigation for the design-build project consisting of 1.5 miles (7,913 linear feet) of new 48-inch CMLCS pipe within the right-of-way beginning at the north terminus at Skyline Drive and South Woodman Street to the south terminus at Potomac Street and Alta View Drive. The new pipeline will replace and abandon the existing 36-inch steel pipe and 48-inch CMLCS pipe. The abandonment will need to be slurry filled and easements vacated. Additional work will include the replacement of 1.3 miles (6,913 linear feet) of 8-inch to 16-inch diameter AC pipeline along South Woodman Street and Paradise Valley Road.

City of San Diego Jean Drive Storm Drain Replacement, San Diego, CA
Project manager during geotechnical observation and testing services for the construction of a $1.4 million project consisting of the abandonment of existing corrugated metal pipe and installation of a new 24-inch reinforced concrete pipe. The new alignment extends 217 feet.

Vallecitos Water District San Elijo Hills Pump Station, San Marcos, CA
Senior geologist coordinating with construction management and contractor representatives, and providing grading and footing excavation observation during construction of a $1.4 million pump station and associated site work. The project features an 18-inch pump station suction pipeline, 16-inch pump station discharge pipeline, and street and landscape repair. The pump station enables augmented deliveries of locally treated water and improves the diversity and long-term reliability of potable water supply in the face of ongoing drought conditions. The station provides close to 3,000 acre-feet per year of added treated water capability.
EXPERIENCE & RESPONSIBILITIES

Gillian has eight years of experience providing geotechnical and structural design and construction consulting services including geotechnical investigations, design calculations, laboratory testing, data analysis, and construction observation. She is proficient at report preparation, construction coordination, project management, budget monitoring, computer modeling, foundation design, slope stability analysis, liquefaction analysis, site characterization, earth retaining systems, ground improvement, site-specific seismic analysis, special inspections, and comprehending project plans and specifications. Gillian has extensive experience with ASCE 7-10, California Building Code (CBC), and Greenbook Specifications for Public Works Construction standards. She is familiar with LPILE, ALLPILE, SLIDE, GEOSTASTE, GSTATLB7, Liquefy Pro, MSEW, CAL FP, SPW911, USGS OpenSHA, Caltrans ARS, RISA 3-D, AISIWIN, AutoCAD Civil 3D, ArcGIS, and gINT design programs.

PROJECT EXPERIENCE

**County of San Diego Otay Lakes Sewer Force Main, Chula Vista, CA**
Project engineer during a geotechnical investigation for the design of a new pipeline alignment consisting of 9,640 linear feet of 10-inch diameter PVC gravity sewer.

**City of San Diego Catalina 12-inch Cast Iron Main and Sewer Main, San Diego, CA**
Project engineer during a geotechnical investigation for the $20.8 million project which consisted of the replacement of 16,000 linear feet of cast iron water main of various sizes with new 24-inch Cement-Mortar Lined and Coated Steel (SMLCS) pipe and 16-inch PVC; replacement of 14,500 linear feet of sewer main; relocation of 5,000 linear feet of sewer main from the easement to the right-of-way; re-plumbs; and construction of 1,200 linear feet of 18-inch RCP storm drain. The project also included installation of 3-inches of fiber optic conduit 18-inches deep with pull stations in Catalina Boulevard from the reservoir to the standpipe.

**City of San Diego Navajo Pump Station, San Diego, CA**
Project engineer during construction of a $7.3 million project, consisting of a new pump station structure, five new water pump units, a one bypass line, new piping and valves, generator, pump control system and PLC, and new connections to valves, fittings, and appurtenances. Other work included a replacement of an existing pipeline with a new 16-inch pipe, valves, fittings and appurtenances.

**City of San Diego Harbor Drive Trunk Sewer Replacement, San Diego, CA**
Project engineer during a geotechnical investigation for a $17 million replacement of the existing Harbor Drive Trunk Sewer with a larger diameter sewer pipe.

**Vista Irrigation District E Reservoir and Pump Station, Vista, CA**
Project engineer during a geotechnical investigation for the replacement of the existing reservoir with a contemporary reservoir and pump station. The new reservoir will have a capacity of up to four million gallons. The new pump station will provide a redundant water supply to higher pressure zones within the District’s service area when disruptions occur to primary water supplies.

**City of San Diego Pacific Beach Pipeline South, San Diego, CA**
Project engineer during testing and inspection services for the construction of a $39.7 million replacement of 38,725 linear feet of existing cast-iron water main and 6,731 linear feet of existing VC sewer main to new 16-inch PVC mains, as well as construction of a pressure reducing station and the abandonment of the Pacific Beach Reservoir.
EXPERIENCE & RESPONSIBILITIES

Daniel has seven years of experience providing geotechnical engineering, quality control, inspection, and testing services. He is proficient at comprehending project plans and specifications, and he has extensive experience with Caltrans and Federal Aviation Administration (FAA) standards. He has written and reviewed Quality Control Plans, and is familiar with standards for Caltrans and other municipal agencies. He has experience training other staff engineers, managing technical activities during projects including review of reports and test results, and providing dispatch.

PROJECT EXPERIENCE

**County of San Diego Otay Lakes Sewer Force Main, Chula Vista, CA**
Project engineer during a geotechnical investigation for the design of a new pipeline alignment consisting of 9,640 linear feet of 10-inch diameter PVC gravity sewer.

**City of San Diego Mohawk Pump Station, San Diego, CA**
Project engineer during observation and testing services for a new $15 million pump station, which was designed to handle a minimum of 18 MGD. The project features include installation of 3,400 feet of 30-inch, 24-inch, and 16-inch new pipeline and replacement of cast iron pipelines totaling 3,960 feet. Other features include a masonry building, generator enclosure, valves, water main abandonment, appurtenances, security fencing, vehicle access gates, retaining walls, landscaping, irrigation, site work, ADA pedestrian ramps, and sidewalks.

**City of Imperial Beach, Imperial Beach Boulevard Safe Routes to School and Sewer Improvement Projects, Imperial Beach, CA**
Staff engineer during a geotechnical investigation for proposed improvements including pavement rehabilitation, narrowing of vehicle lanes to promote traffic calming, Class II bike lanes, controlled crosswalks with flashing beacons, ADA compliant pedestrian ramps, enhanced bus stops, LID planters, wider sidewalks, and enhanced features along the Tijuana Estuary. Additional features will include a bio-retention basin with drainage easement, pervious swale, porous concrete walkway, and sewer system improvements.

**City of Carlsbad Simsbury Sewer Pipeline Extension, Carlsbad, CA**
Project engineer during a geotechnical investigation for the planned design and construction of 700 linear feet of 10-inch PVC replacement sewer pipelines and four manholes beneath residential streets. The pipeline depth will range from 10 feet below the finished street grade on the southern end to about 26 feet at the northern end. The downslope portion will utilize horizontal directional drilling (HDD).

**City of Encinitas Birmingham Drive Improvements, Encinitas, CA**
Project engineer during a geotechnical investigation for this project, which will consist of improvements on Birmingham Drive from San Elijo Avenue to the Caltrans right-of-way at Interstate 5. Work will include pavement rehabilitation consisting of grinding and overlay with Asphalt Rubber Hot Mix (ARHM); full reconstruction of curb, gutter, and sidewalk; construction of a roundabout; and the extension of a recycled water main.

**Carlsbad Municipal Water District Recycled Water Pipeline Expansion Segments 2, 5, and 7, Carlsbad, CA**
Project engineer during a geotechnical investigation for a planned expansion of segments 2 and 5, and closing the loop on Segment 7, as well as potable waterline replacement for the HOA for Flower Fields and Carlsbad Palisades. The project will consist of 7.5 miles of pipeline ranging in size from 4-inches to 8-inches in diameter and installation of metered service connections.

**City of Carlsbad Simsbury Sewer Pipeline Extension, Carlsbad, CA**
Project engineer during a geotechnical investigation for the planned design and construction of 700 linear...
ANDREW (DREW) MCPEAK, GIT
STAFF GEOLOGIST

EXPERIENCE & RESPONSIBILITIES
Drew has three years of experience in the geotechnical field providing quality control oversight testing, interpretation, and reporting. His current responsibilities include conducting geotechnical investigations to support the design and construction of various projects, performing in-situ infiltration and percolation testing, geologic field mapping, performing laboratory testing, developing soils reports, performing grading compaction control, and documenting geotechnical data on design and construction projects. He also has two years of experience conducting seismic, electromagnetic and gravity, geophysical field surveys.

PROJECT EXPERIENCE

County of San Diego Otay Lakes Sewer Force Main, Chula Vista, CA
Project engineer during a geotechnical investigation for the design of a new pipeline alignment consisting of 9,640 linear feet of 10-inch diameter PVC gravity sewer.

City of National City Group 2 Sewer Upgrades, National City, CA
Staff geologist during a geotechnical investigation for the rehabilitation and replacement of the sanitary sewer system at various locations. Horizontal directional drilling (HDD) techniques are considered to relocate an existing segment of the sewer.

City of San Diego Mohawk Pump Station, San Diego, CA
Staff geologist, as well as observation and testing of grading for a new $15 million pump station, which was designed to handle a minimum of 18 MGD. The project features include installation of 3,400 feet of 30-inch, 24-inch, and 16-inch new pipeline and replacement of cast iron pipelines totaling 3,960 feet. Other features include a masonry building, generator enclosure, valves, water main abandonment, appurtenances, landscaping, and irrigation.

Otay 2nd Pipeline Phase 2 and AC Woodman Street Pipeline Replacement, San Diego, CA
Project manager during a geotechnical investigation for this $16 million design-build project consisting of 1.5 miles (7,913 linear feet) of new 48-inch CMLCS pipe within the right-of-way beginning at the north terminus at Skyline Drive and South Woodman Street to the south terminus at Potomac Street and Alta View Drive. The new pipeline will replace and abandon the existing 36-inch steel pipe and 48-inch CMLCS pipe. The abandonment will need to be slurry filled and easements vacated. Additional work will include the replacement of 1.3 miles (6,913 linear feet) of 8-inch to 16-inch diameter AC pipeline along South Woodman Street and Paradise Valley Road.

City of San Diego Harbor Drive Trunk Sewer Replacement, San Diego, CA
Staff geologist during a geotechnical investigation for a $17 million replacement of the existing Harbor Drive Trunk Sewer with a larger diameter sewer pipe.

Vista Irrigation District E Reservoir and Pump Station, Vista, CA
Staff geologist during a geotechnical investigation for the replacement of the existing reservoir with a contemporary reservoir and pump station. The new reservoir will have a capacity of up to four million gallons. The new pump station will provide a redundant water supply to higher pressure zones within the District’s service area when disruptions occur to primary water supplies.

Olivenhain Municipal Water District El Camino Real Pipeline Replacement, Encinitas, CA
Staff geologist during a geotechnical investigation for the installation of a new $4 million project including the design of approximately 4,700 linear feet of pipeline along El Camino Real. Additional features will include fire hydrant valves, water main connections, water service laterals, replacement of 700 linear feet of 12-inch DI water from the District water easement to Mountain Vista Road, and reconnections with sizes up to 10-inch will be replaced or relocated.
EXPERIENCE & RESPONSIBILITIES

Dan has provided quality control and assurance on construction projects for over 20 years. His duties include providing technical direction for geotechnical personnel, oversees scheduling and formulating solutions to earthwork challenges. He is responsible for the oversight of construction projects that include inspection of mass grading, footings, asphalt and concrete placement, and underground utilities installation and testing. He is experienced in verification and plotting of removals, keyways and buttresses. Dan monitors project process, performance and budgetary conditions, assists with proposal preparation, and attends project site meetings. He possesses the technical skills required to ensure the construction process is being conducted in substantial compliance with project plans, contracts, and specifications. His experience includes 15 years as a field supervisor where he assisted with the development and implementation of procedures and guidelines for project documentation, distribution and tracking. He has worked as a construction materials technician, concrete special inspector, and senior engineering technician.

PROJECT EXPERIENCE

Richard A. Reynolds Desalination Facility Phase II Expansion, Sweetwater Authority, Chula Vista, CA
Observation and testing of grading, utility trenching, subgrade, aggregate base material, and asphalt concrete during construction of this $42 million project, which expanded the existing plant to add 5 million gallons per day of production capacity. Other project benefits include expansion of local resources, reducing dependence on imported water, providing a drought-proof source of water, alleviating potential impacts of planned/emergency water supply interruption, achieving an energy savings of 68%, and an operating lifetime of at least 30 years. Work includes construction of the new buildings for five new brackish groundwater wells, and equipping them with pumps and motors. Upgrades at the Desalination Facility included installation of exterior piping and an additional iron and manganese removal system. The project has been funded through the Sweetwater Authority, City of San Diego, US Bureau of Reclamation, and State of California DWR Propositions 50 and 84.

City of San Diego Navajo Pump Station, San Diego, CA
Observation and testing of utility trench backfill and wall backfill during construction of a $7.3 million project, consisting of a new pump station structure, five new water pump units, a one by-pass line, new piping and valves, generator, pump control system and PLC, and new connections to valves, fittings, and appurtenances. Other work included a replacement of an existing pipeline with a new 16-inch pipe, valves, fittings and appurtenances.

City of San Diego Mohawk Pump Station, San Diego, CA
Observation and testing of utility trench backfill during construction for a new $15 million pump station, which was designed to handle a minimum of 18 MGD. The project features include installation of 3,400 feet of 30-inch, 24-inch, and 16-inch new pipeline and replacement of cast iron pipelines totaling 3,960 feet. Other features include a masonry building, generator enclosure, valves, water main abandonment, appurtenances, security fencing, vehicle access gates, retaining walls, landscaping, irrigation, site work, ADA pedestrian ramps, and sidewalks.

City of National City Sewer Line Replacement & Upsizing, Phase I, National City, CA
Observation and testing of utility trench backfill during construction of new street sections, PCC curb and gutter, AC dikes, AC driveways and driveway entrances, manholes, sewer lateral replacements, PCC sidewalks, PCC curb ramps, signing and striping, as well as open trench construction of 21-inch, 12-inch, and 8-inch diameter PVC sewer main.
EXPERIENCE & RESPONSIBILITIES

Ismail has been in the construction industry for 23 years. His previous experience consisted of underground construction. Ismail provides all aspects of earthwork observation, inspection and testing, including asphalt concrete, aggregate base materials, grading, backfill, underground utilities and concrete. He provides these services in accordance with project plans and specifications, and regulatory agency requirements.

PROJECT EXPERIENCE

Richard A. Reynolds Desalination Facility Phase II Expansion, Sweetwater Authority, Chula Vista, CA
Observation and testing of utility trench backfill, subgrade, and asphalt concrete during construction for this $42 million project, which expanded the existing plant to add 5 million gallons per day of production capacity. Other project benefits include expansion of local resources, reducing dependence on imported water, providing a drought-proof source of water, alleviating potential impacts of planned/emergency water supply interruption, achieving an energy savings of 68%, and an operating lifetime of at least 30 years. Work includes construction of the new buildings for five new brackish groundwater wells, and equipping them with pumps and motors. Upgrades at the Desalination Facility included installation of exterior piping and an additional iron and manganese removal system. The project has been funded through the Sweetwater Authority, City of San Diego, US Bureau of Reclamation, and State of California DWR Propositions 50 and 84.

City of San Diego Navajo Pump Station, San Diego, CA
Observation and testing of wall backfill, utility trench backfill, subgrade, aggregate base material, and asphalt concrete during construction for this new 33 million pump station, which was designed to handle a minimum of 18 MGD. The project features include installation of 3,400 feet of 30-inch, 24-inch, and 16-inch new pipeline and replacement of cast iron pipelines totaling 3,960 feet. Other features include a masonry building, generator enclosure, valves, water main abandonment, appurtenances, security fencing, vehicle access gates, retaining walls, landscaping, irrigation, site work, ADA pedestrian ramps, and sidewalks.

Agua Hedionda Sewer Lift Station and Carlsbad/Vista Interceptor Sewer, Reaches 11B-15, Carlsbad and Vista, CA
Observation and testing of wall backfill, utility trench backfill, subgrade, aggregate base material, and asphalt concrete during construction of a new 33 gallon per day sewage lift station to replace the existing station, which was the City of Carlsbad’s largest lift station. The project has been funded through the Sweetwater Authority, City of San Diego, US Bureau of Reclamation, and State of California DWR Propositions 50 and 84.

City of San Diego Mohawk Pump Station, San Diego, CA
Observation and testing of utility trench backfill and grading during construction for this new $15 million pump station, which was designed to handle a minimum of 18 MGD. The project features include installation of 3,400 feet of 30-inch, 24-inch, and 16-inch new pipeline and replacement of cast iron pipelines totaling 3,960 feet. Other features include a masonry building, generator enclosure, valves, water main abandonment, appurtenances, security fencing, vehicle access gates, retaining walls, landscaping, irrigation, site work, ADA pedestrian ramps, and sidewalks.
THOMAS HIGGINBOTHAM
OPERATIONS/PROJECT MANAGER

EXPERIENCE & RESPONSIBILITIES

Higgy has been in the construction industry for over 19 years. He has worked on a wide range of projects, including municipal, commercial, and residential. He has performed soils laboratory testing procedures, and has experience with drilling and quality assurance/quality control inspection. He performs all aspects of earthwork observation and testing, including grading, backfill, fill slope keyways, subgrade preparation, aggregate base placement and asphalt testing.

PROJECT EXPERIENCE

Richard A. Reynolds Desalination Facility Phase II Expansion, Sweetwater Authority, Chula Vista, CA
Project manager during construction of this $42 million project, which expanded the existing plant to add 5 million gallons per day of production capacity. Other project benefits include expansion of local resources, reducing dependence on imported water, providing a drought-proof source of water, alleviating potential impacts of planned/emergency water supply interruption, achieving an energy savings of 68%, and an operating lifetime of at least 30 years. Work includes construction of the new buildings for five new brackish groundwater wells, and equipping them with pumps and motors. Upgrades at the Desalination Facility included installation of exterior piping and an additional iron and manganese removal system. The project has been funded through the Sweetwater Authority, City of San Diego, US Bureau of Reclamation, and State of California DWR Propositions 50 and 84.

City of San Diego Mohawk Pump Station, San Diego, CA
Project manager during construction for a new $15 million pump station, which was designed to handle a minimum of 18 MGD. The project features include installation of 3,400 feet of 30-inch, 24-inch, and 16-inch new pipeline and replacement of cast iron pipelines totaling 3,960 feet. Other features include a masonry building, generator enclosure, valves, water main abandonment, appurtenances, security fencing, vehicle access gates, retaining walls, landscaping, irrigation, site work, and sidewalks.

Agua Hedionda Sewer Lift Station and Carlsbad/Vista Interceptor Sewer, Reaches 11B-15, Carlsbad and Vista, CA
Director of field services during testing and inspection for the $64.2 million project consisted of construction of a new 33 gallon per day sewage lift station to replace the existing station, which was the City of Carlsbad’s largest lift station. The new structure houses eight pumps, an emergency generator, bypass motors, an electrical control building, and odor control facilities. This increases the station’s capacity by 50 percent to meet future demand. The project featured the construction of a new 30-inch parallel force main, which provides 4,000 linear feet of HDPE pipe parallel to an existing line, and 7,000 linear feet of 54-inch gravity sewer line. These pipes provide increased capacity and reliability to the sewer system. Other features included two miles of sewer pipeline and an 11,000 foot recycled water line.
EXPERIENCE & RESPONSIBILITIES

Tom has been providing geotechnical observation and testing for over 30 years. He has previously worked as a field operations manager. His duties included providing supervision of field technicians, special inspectors, and dispatching staff, review of daily field reports and field files, purchase and maintain certifications, equipment maintenance, conduct interviews, hire employees, and perform annual reviews for field staff. As a field/laboratory technician, he provides sampling and testing services in accordance with project plans and specifications, and all federal, state, and local regulatory agencies.

PROJECT EXPERIENCE

**City of National City Las Palmas Park Storm Drain Rehabilitation, National City, CA**
Observation and testing of utility trench backfill during the replacement of 30-inch CMP with RCP, replacement of 36-inch CMP with 36-inch RCP, replacement of 36-inch CMP with 36-inch host pipe, replacement of 42-inch CMP with 42-inch host pipe, 18-inch CIPP rehabilitation, grouting of voids, reestablishment of connections, and site restoration.

**City of San Diego Mohawk Pump Station, San Diego, CA**
Observation and testing of utility trench backfill for a new $15 million pump station, which was designed to handle a minimum of 18 MGD. The project features include installation of 3,400 feet of 30-inch, 24-inch, and 16-inch new pipeline and replacement of cast iron pipelines totaling 3,960 feet. Other features include a masonry building, generator enclosure, valves, water main abandonment, appurtenances, security fencing, vehicle access gates, retaining walls, landscaping, irrigation, site work, ADA pedestrian ramps, and sidewalks.

**City of San Diego Ellen Browning Scripps Park Comfort Station and Sewer Pump Station 33, San Diego, CA**
Observation and testing of grading during construction of a $3 million comfort station northwest of La Jolla Cove in Ellen Baker Scripps Park and the demolition of pump station 33. The new comfort station is a two building facility with men’s, women’s and unisex toilets, benches, outdoor and indoor showers, ADA compliant toilets, and storage for beach equipment.

**City of National City Paradise Creek Improvements, National City, CA**
Observation and testing of utility trench backfill during improvements as part of a state funded grant to improve the flood capacity and storm water quality of the creek. The improvements will include a drop structure and storm water BMP facilities.

**City of National City Las Palmas Park Storm Drain Rehabilitation, National City, CA**
Observation and testing of subgrade, aggregate base material, and asphalt concrete during the replacement of 30-inch CMP with RCP, replacement of 36-inch CMP with 36-inch RCP, replacement of 36-inch CMP with 36-inch host pipe, replacement of 42-inch CMP with 42-inch host pipe, 18-inch CIPP rehabilitation, grouting of voids, reestablishment of connections, and site restoration.

**City of Carlsbad Drainage Master Plan Project (Tamarack, Park, and Monroe), Carlsbad, CA**
Observation and testing of subgrade, aggregate base material, and asphalt concrete during this $2.2 million project which included construction of over 3,000 linear feet of 18-inch to 36-inch reinforced concrete pipe, nine curb inlets with bioclean baskets, cleanouts, sidewalk, curb and gutter, relocation of two segments of existing sewer main, relocation of existing water and sewer services, pavement resurfacing, and reinstallation of signing and striping.
EXPERIENCE & RESPONSIBILITIES

Tony has been in the construction industry for 24 years. He has provided soils and materials testing on many of Atlas’ projects, including numerous transportation projects throughout Southern California. Tony is familiar with the standards set by OSHPD and DSA, as well as by the Cement Concrete Reference Laboratories (CCRL), American Society for Testing and Materials (ASTM), Caltrans, and the American Association of State Highway Transportation Officials (AASHTO). He provides observation and testing of all aspects of earthwork, as well as concrete testing and inspection, in accordance with project plans and specifications, and all federal, state, and local regulatory agencies.

PROJECT EXPERIENCE

City of National City Sewer Line Replacement & Upsizing, Phase I, National City, CA
Observation and testing of utility trench backfill, asphalt concrete, and subgrade during construction of new street sections, PCC curb and gutter, AC dikes, AC driveways and driveway entrances, manholes, sewer lateral replacements, PCC sidewalks, PCC curb ramps, signing and striping, as well as open trench construction of 21-inch, 12-inch, and 8-inch diameter PVC sewer main.

City of San Diego Navajo Pump Station, San Diego, CA
Observation and testing of grading during construction of a new pump station structure, five new water pump units, a one by-pass line, new piping and valves, generator, pump control system and PLC, and new connections to valves, fittings, and appurtenances. Other work included a replacement of an existing pipeline with a new 16-inch pipe, valves, fittings and appurtenances.

City of San Diego Mohawk Pump Station, San Diego, CA
Observation and testing of utility trench backfill during construction of a new $15 million pump station, which was designed to handle a minimum of 18 MGD. The project features include installation of 3,400 feet of 30-inch, 24-inch, and 16-inch new pipeline and replacement of cast iron pipelines totaling 3,960 feet. Other features include a masonry building, generator enclosure, valves, water main abandonment, appurtenances, security fencing, vehicle access gates, retaining walls, landscaping, irrigation, site work, and sidewalks.

Agua Hedionda Sewer Lift Station and Carlsbad/Vista Interceptor Sewer, Reaches 11B-15, Carlsbad and Vista, CA
Observation and testing of asphalt concrete, subgrade, and aggregate base material observation and testing during construction of a new 33 gallon per day sewage lift station to replace the existing station, which was the City of Carlsbad’s largest lift station. The new structure houses eight pumps, an emergency generator, bypass motors, an electrical control building, and odor control facilities. This increases the station’s capacity by 50 percent to meet future demand. The project featured the construction of a new 30-inch parallel force main, which provides 4,000 linear feet of HDPE pipe parallel to an existing line, and 7,000 linear feet of 54-inch gravity sewer line. These pipes provide increased capacity and reliability to the sewer system. The new gravity sewer was constructed within the right-of-way of Avenue Encinas and a portion of the new sewer required installation by microtunneling. Other features included two miles of sewer pipeline and an 11,000 foot recycled water line.

University of California San Diego Reclaimed Water System Phase II, La Jolla, CA
Observation and testing of asphalt concrete, aggregate base material, and subgrade during construction of a $1.9 million project consisting of the installation of reclaimed water piping and appurtenances using cut and cover and horizontal directional drilling (HDD) methods.
ADAM THOMAS
FIELD TECHNICIAN

EXPERIENCE & RESPONSIBILITIES

Adam has 18 years of experience in the testing and inspection industry. He has served as soils special inspector, laboratory manager, and field/laboratory technician. His duties as a soils inspector included verifying materials are satisfactory for their intended use; conducting field testing, sampling, inspection, and analysis; ensuring each service is performed in accordance with project plans and specifications; and preparation of daily reports and data sheets. He is familiar with interpreting soils reports. As laboratory manager, he prepared and distributed laboratory testing reports, supervised laboratory and field technicians, and provided testing in conformance with ASTM, AASHTO, Caltrans, and Greenbook specifications. His other duties included working with clients and contractors to implement testing plans for quality control managers in accordance with project documents, and maintenance of laboratory accreditations from various regulating agencies including AMRL, CCRL, DSA, and Caltrans. As a field/laboratory technician, he provides sampling and testing services, and batch plant inspection.

PROJECT EXPERIENCE

Richard A. Reynolds Desalination Facility Phase II Expansion, Sweetwater Authority, Chula Vista, CA
Observation and testing of utility trench backfill, as well as footing excavation observation during construction for this $42 million project, which expanded the existing plant to add 5 million gallons per day of production capacity. Other project benefits include expansion of local resources, reducing dependence on imported water, providing a drought-proof source of water, alleviating potential impacts of planned/emergency water supply interruption, achieving an energy savings of 68%, and an operating lifetime of at least 30 years. Work includes construction of the new buildings for five new brackish groundwater wells, and equipping them with pumps and motors. Upgrades at the Desalination Facility included installation of exterior piping and an additional iron and manganese removal system. The project has been funded through the Sweetwater Authority, City of San Diego, US Bureau of Reclamation, and State of California DWR Propositions 50 and 84.

City of San Diego Mohawk Pump Station, San Diego, CA
Observation and testing of grading during construction of a new $15 million pump station, which was designed to handle a minimum of 18 MGD. The project features include installation of 3,400 feet of 30-inch, 24-inch, and 16-inch new pipeline and replacement of cast iron pipelines totaling 3,960 feet. Other features include a masonry building, generator enclosure, valves, water main abandonment, appurtenances, security fencing, vehicle access gates, retaining walls, landscaping, irrigation, site work, and sidewalks.

Agua Hedionda Sewer Lift Station and Carlsbad/Vista Interceptor Sewer, Reaches 11B-15, Carlsbad and Vista, CA
Observation and testing of utility trenching, grading, and wall backfill, as well as concrete quality control during construction of a new 33 gallon per day sewage lift station to replace the existing station, which was the City of Carlsbad's largest lift station. The new structure houses eight pumps, an emergency generator, bypass motors, an electrical control building, and odor control facilities. This increases the station’s capacity by 50 percent to meet future demand. The project featured the construction of a new 30-inch parallel force main, which provides 4,000 linear feet of HDPE pipe parallel to an existing line, and 7,000 linear feet of 54-inch gravity sewer line. These pipes provide increased capacity and reliability to the sewer system. The new gravity sewer was constructed within the right-of-way of Avenue Encinas and a portion of the new sewer required installation by microtunneling. The new force main construction utilized a combination of standard construction methods and Horizontal Directional Drilling to avoid existing utilities. Other features included two miles of sewer pipeline and an 11,000 foot recycled water line.
RON BAUDOUR
PROJECT MANAGER/DIRECTOR OF FIELD SERVICES

EXPERIENCE & RESPONSIBILITIES

Ron has over 36 years of industry knowledge and a solid base of construction expertise as it relates to materials testing and special inspection services. He started his career with Atlas in 1983. Ron is responsible for the oversight of construction projects that include the testing and/or inspection of soils, foundations, reinforced and post-tensioned concrete, masonry, structural steel, fireproofing and asphalt pavement. He provides technical support, monitors project process, performance and budgetary conditions, assists with proposal preparation, and attends project site meetings.

PROJECT EXPERIENCE

Richard A. Reynolds Desalination Facility Phase II Expansion, Sweetwater Authority, Chula Vista, CA
Director of field services during testing and inspection for the construction of this $42 million project, which expanded the existing plant to add 5 million gallons per day of production capacity. Other project benefits include expansion of local resources, reducing dependence on imported water, providing a drought-proof source of water, alleviating potential impacts of planned/emergency water supply interruption, achieving an energy savings of 68%, and an operating lifetime of at least 30 years. Work includes construction of the new buildings for five new brackish groundwater wells, and equipping them with pumps and motors. Upgrades at the Desalination Facility included installation of exterior piping and an additional iron and manganese removal system. The project has been funded through the Sweetwater Authority, City of San Diego, US Bureau of Reclamation, and State of California DWR Propositions 50 and 84.

City of San Diego Catalina 12-Inch Cast Iron Main and Catalina Sewer Main, San Diego, CA
Director of field services during testing and inspection for the $64.2 million project consisted of construction of a new 33 gallon per day sewage lift station to replace the existing station, which was the City of Carlsbad’s largest lift station. The new structure houses eight pumps, an emergency generator, bypass motors, an electrical control building, and odor control facilities. This increases the station’s capacity by 50 percent to meet future demand. The project featured the construction of a new 30-inch parallel force main, which provides 4,000 linear feet of HDPE pipe parallel to an existing line, and 7,000 linear feet of 54-inch gravity sewer line. These pipes provide increased capacity and reliability to the sewer system. The new gravity sewer was constructed within the right-of-way of Avenue Encinas and a portion of the new sewer required installation by microtunneling. The new force main construction utilized a combination of standard construction methods and Horizontal Directional Drilling to avoid existing utilities. Other features included two miles of sewer pipeline and an 11,000 foot recycled water line.

City of Del Mar Professional Consulting Services Agreement, Del Mar, CA
Director of field services during testing and inspection services for this on-call contract. Projects include sewer and water projects, pipelines, paving, drainage, and slope repair.

Agua Hedionda Sewer Lift Station and Carlsbad/Vista Interceptor Sewer, Reaches 11B-15, Carlsbad and Vista, CA
Director of field services during testing and inspection for the $64.2 million project consisted of construction of a new 33 gallon per day sewage lift station to replace the existing station, which was the City of Carlsbad’s largest lift station. The new structure houses eight pumps, an emergency generator, bypass motors, an electrical control building, and odor control facilities. This increases the station’s capacity by 50 percent to meet future demand. The project featured the construction of a new 30-inch parallel force main, which provides 4,000 linear feet of HDPE pipe parallel to an existing line, and 7,000 linear feet of 54-inch gravity sewer line. These pipes provide increased capacity and reliability to the sewer system. The new gravity sewer was constructed within the right-of-way of Avenue Encinas and a portion of the new sewer required installation by microtunneling. The new force main construction utilized a combination of standard construction methods and Horizontal Directional Drilling to avoid existing utilities. Other features included two miles of sewer pipeline and an 11,000 foot recycled water line.

OFFICE LOCATION
San Diego, CA

CERTIFICATIONS
American Concrete Institute (ACI)
Concrete Field Testing Technician Grade 1, Adhesive Anchor Installer, Piston-Plug and Retaining Cap Systems, #997818
US Army Corps of Engineers Construction Hazard Awareness Safety Training
EM 385-1-1 40-Hour
OSHA 10-Hour Construction Safety and Health Certificate
OSHA 30-Hour Construction Safety and Health Certificate
First Aid CPR AED Nuclear Gauge Operator Certification

YEARS WITH FIRM
36
4. PROJECT STAFF

DAN BROYLES
SPECIAL INSPECTOR

EXPERIENCE & RESPONSIBILITIES

Dan has been in the construction industry for 38 years. He provides structural steel welding inspections and non-destructive testing for pipelines, bridges, educational institutions, healthcare facilities, municipal facilities, and commercial and residential developments. He holds certifications from AWS and ICC.

PROJECT EXPERIENCE

City of San Diego Catalina 12-Inch Cast Iron Main and Catalina Sewer Main, San Diego, CA
Field structural steel welding inspection during construction of the $20.8 million project. Work consisted of the replacement of 16,000 linear feet of cast iron water main of various sizes with new 24-inch Cement-Mortar Lined and Coated Steel (SMLCS) pipe and 16-inch PVC; replacement of 14,500 linear feet of sewer main; relocation of 5,000 linear feet of sewer main from the easement to the right-of-way; re-plumbs; abandonment of 1,500 linear feet of existing sewer main; and construction of 1,200 linear feet of 18-inch RCP storm drain. The project also included installation of 3-inches of fiber optic conduit 18-inches deep with pull stations in Catalina Boulevard from the reservoir to the standpipe.

City of San Diego Navajo Pump Station, San Diego, CA
Field structural steel welding inspection during construction of a $7.3 million project, consisting of a new pump station structure, five new water pump units, a one by-pass line, new piping and valves, generator, pump control system and PLC, and new connections to valves, fittings, and appurtenances. Other work included a replacement of an existing pipeline with a new 16-inch pipe, valves, fittings and appurtenances.

City of San Diego Mohawk Pump Station, San Diego, CA
Field structural steel welding inspection during construction for a new $15 million pump station, which was designed to handle a minimum of 18 MGD. The project features include installation of 3,400 feet of 30-inch, 24-inch, and 16-inch new pipeline and replacement of cast iron pipelines totaling 3,960 feet. Other features include a masonry building, generator enclosure, valves, water main abandonment, appurtenances, security fencing, vehicle access gates, retaining walls, landscaping, irrigation, site work, ADA pedestrian ramps, and sidewalks.

City of San Diego 30th Street Pipeline Replacement, San Diego, CA
Field structural steel welding inspection and non-destructive testing during construction of a $22.3 million replacement of 26,968 linear feet of existing water mains with new 8-inch, 12-inch, 16-inch, 24-inch, 30-inch, 36-inch, and 42-inch water mains. Other features include the removal of an existing pressure regulating station and installation of a new station, installation of concrete vaults within the Caltrans right-of-way, trenchless construction within the MTS Limits of Operation, street resurfacing, curb ramps, and new storm inlets and pipes associated with curb ramp improvements on 30th Street and Redwood Street.

City of San Diego University Heights Water Tower Seismic Retrofit, San Diego, CA
Field structural steel welding inspection during $2.1 million project which consisted of repair and replacement of exterior structural elements which include replacing corroded anchor bolt washers, investigation column footing depth, and new tie rod bracing and installation of new Gusset plates and pin connectors.

City of Carlsbad Tri Agencies Water and Transmission Pipelines Reach 2 - Phase 1, Carlsbad, CA
Field structural steel welding inspection during this $1.2 million project which consisted of the construction of 1,860 feet of 18-inch potable water steel pipe and a pressure reducing station.
4. Project Staff

Resumes

Eric Murray
Special Inspector

Experience & Responsibilities

Eric has over 20 years of materials testing and inspection experience. As a special inspector, Eric provides structural steel, welding and fireproofing inspection in accordance with project plans and specifications, and with regulatory agency requirements.

Project Experience

City of San Diego Catalina 12-Inch Cast Iron Main and Catalina Sewer Main, San Diego, CA
Field structural steel welding inspection during construction of the $20.8 million project. Work consisted of the replacement of 16,000 linear feet of cast iron water main of various sizes with new 24-inch Cement-Mortar Lined and Coated Steel (SMLCS) pipe and 16-inch PVC; replacement of 14,500 linear feet of sewer main; relocation of 5,000 linear feet of sewer main from the easement to the right-of-way; re-plumbs; abandonment of 1,500 linear feet of existing sewer main; and construction of 1,200 linear feet of 18-inch RCP storm drain. The project also included installation of 3-inches of fiber optic conduit 18-inches deep with pull stations in Catalina Boulevard from the reservoir to the standpipe.

City of San Diego 30th Street Pipeline Replacement, San Diego, CA
Field structural steel welding inspection and non-destructive testing during construction of a $22.3 million replacement of 26,968 linear feet of existing water mains with new 8-inch, 12-inch, 16-inch, 24-inch, 30-inch, 36-inch, and 42-inch water mains. Other work included a replacement of an existing pipeline with a new 16-inch pipe, valves, fittings and appurtenances. Other work included a replacement of an existing pipeline with a new 16-inch pipe, valves, fittings and appurtenances.

Rainbow Municipal Water District Moosa Crest Pipeline Replacement, Bonsall, CA
Field structural steel welding inspection during the replacement of a 16-inch water transmission pipeline across Moosa Creek due to storm damage. The pipeline was moved to a higher elevation and used a small truss bridge to span the creek so that no piers were required for support. This will prevent future damage to the pipeline from high flows in Moosa Creek.

San Marcos Vent Desal Modifications Project, San Marcos, CA
Field structural steel welding inspection during this design-build project consisting of the design and construction of a water-tight, reinforced concrete Wier Structure on Pipeline 4, which will accommodate flows of up to 450 cubic feet per second of treated water. Additional project features include the design and construction of a pipeline interconnect tying into Pipelines 3 and 4. The connection to Pipeline 4 will be upstream of the Wier Structure. The interconnect will be 54 inches in diameter, cement lined and coated, and accommodate flows up to 100 cubic feet per second. It will also include a 54 inch triple offset metal-seated butterfly valve housed within a vault. The project will also consist of repairs or modification of existing facilities as necessary to complete the connections to Pipelines 3 and 4, including the design and installation of an internal bulkhead on Pipeline 3 once P3/P4 interconnect is in service.
EXPERRIENCE & RESPONSIBILITIES

Gary has over 40 years of experience in the testing and inspection industry. His experience includes work as a special inspector, non-destructive testing technician and an inspector of record. He has provided these services on a varied range of project types, including high-rise structures, public transit systems, hospitals, educational facilities, commercial and office buildings, water projects and recreational facilities. In his role as a special inspector, Gary provides special inspection of welding and structural steel.

PROJECT EXPERIENCE

Richard A. Reynolds Desalination Facility Phase II Expansion, Sweetwater Authority, Chula Vista, CA
Reinforced concrete and field structural steel welding inspection during construction of this $42 million project, which expanded the existing plant to add 5 million gallons per day of production capacity. Other project benefits include expansion of local resources, reducing dependence on imported water, providing a drought-proof source of water, alleviating potential impacts of planned/emergency water supply interruption, achieving an energy savings of 68%, and an operating lifetime of at least 30 years. Work includes construction of the new buildings for five new brackish groundwater wells, and equipping them with pumps and motors. Upgrades at the Desalination Facility included installation of exterior piping and an additional iron and manganese removal system. The project has been funded through the Sweetwater Authority, City of San Diego, US Bureau of Reclamation, and State of California DWR Propositions 50 and 84.

City of San Diego Navajo Pump Station, San Diego, CA
Field structural steel welding inspection during construction of a $7.3 million project, consisting of a new pump station structure, five new water pump units, a one by-pass line, new piping and valves, generator, pump control system and PLC, and new connections to valves, fittings, and appurtenances. Other work included a replacement of an existing pipeline with a new 16-inch pipe, valves, fittings and appurtenances.

Tri-Agencies Water Transmission Pipelines Reach 2, Phase 1, Carlsbad, CA
Field structural steel welding inspection during this $12 million project which consisted of the construction of 1,860 feet of 18-inch potable water steel pipe and a pressure reducing station.

NAVFAC SW P-1046B Reclaimed Water Conveyance, Camp Pendleton, CA
Field structural steel welding and cast-in-place concrete inspection during construction of this design-build project, consisting of 11 miles of 8-inch diameter pipeline, two pump stations and three steel reservoirs. The project will provide higher capacity reclaimed water systems to support military quality of life services and reduce dependency on potable water throughout the base. The project encompasses both the northern and southern area reclaimed water conveyance facilities. The Northern Pump Station, Pipeline, and Reservoir will contain several elements, including the replacement of a pump station inside the Northern Regional Tertiary Treatment Plant. The Southern Pump Station and Pipeline will feature a pump station located inside the Southern Regional Tertiary Treatment Plant.

Otay Water District Treatment Plant Upgrades, Chula Vista, CA
Concrete inspection during construction of one brine tank and three sodium hypochlorite tanks. The proposed brine tank will be approximately 23 feet high and 10 feet in diameter. Each of the three sodium hypochlorite tanks will be 16 feet high and 10 feet in diameter. The sodium hypochlorite tanks will be constructed on 12-foot by 12-foot, 1-foot thick reinforced concrete pads. The brine tank will be constructed on a 14-foot by 14-foot, 1-foot thick reinforced concrete pad. The brine tank and the sodium hypochlorite tanks will be located on the south and north sides of an existing Chlorine Feed and Storage Building.
CERTIFICATIONS
American Concrete Institute (ACI)
Concrete Field Testing Technician Grade I,
Concrete Strength Testing Technician,
Concrete Laboratory Testing Technician Level 1,
Aggregate Base Testing Technician, and
Aggregate Testing Technician Level 1
#01152495
Nuclear Gauge Operator Certification

YEARS WITH FIRM
12

DARREN HICKS
DIRECTOR OF LABORATORY SERVICES

EXPERIENCE & RESPONSIBILITIES
Darren has 13 years of industry experience. As laboratory manager, Darren is responsible for the supervision of all testing to ensure tests are being performed according to standards set by Caltrans, the Association of State Highway Transportation Officials (AASHTO), the American Society for Testing and Materials (ASTM), the Cement Concrete Reference Laboratories (CCRL) and other regulatory agencies. He is responsible for maintenance and procurement of any equipment required for certifications and/or approval by the various licensing agencies. Darren also provides ACI concrete inspection and Caltrans testing.

PROJECT EXPERIENCE

Richard A. Reynolds Desalination Facility Phase II Expansion, Sweetwater Authority, Chula Vista, CA
Laboratory manager during testing and inspection services for this $42 million project, which expanded the existing plant to add 5 million gallons per day of production capacity. Other project benefits include expansion of local resources, reducing dependence on imported water, providing a drought-proof source of water, alleviating potential impacts of planned/emergency water supply interruption, achieving an energy savings of 68%, and an operating lifetime of at least 30 years. Work includes construction of the new buildings for five new brackish groundwater wells, and equipping them with pumps and motors. Upgrades at the Desalination Facility included installation of exterior piping and an additional iron and manganese removal system. The project has been funded through the Sweetwater Authority, City of San Diego, US Bureau of Reclamation, and State of California DWR Propositions 50 and 84.

Agua Hedionda Sewer Lift Station and Carlsbad/Vista Interceptor Sewer, Reaches 11B-15, Carlsbad and Vista, CA
Laboratory manager during testing and inspection services for the construction of a new 33 gallon per day sewage lift station to replace the existing station, which was the City of Carlsbad’s largest lift station. The new structure houses eight pumps, an emergency generator, bypass motors, an electrical control building, and odor control facilities. This increases the station’s capacity by 50 percent to meet future demand. The project featured the construction of a new 30-inch parallel force main, which provides 4,000 linear feet of HDPE pipe parallel to an existing line, and 7,000 linear feet of 54-inch gravity sewer line. These pipes provide increased capacity and reliability to the sewer system. The new gravity sewer was constructed within the right-of-way of Avenue Encinas and a portion of the new sewer required installation by microtunneling. The new force main construction utilized a combination of standard construction methods and Horizontal Directional Drilling to avoid existing utilities. Other features included two miles of sewer pipeline and an 11,000 foot recycled water line.

City of San Diego Navajo Pump Station, San Diego, CA
Laboratory manager during testing and inspection services for the construction of a $7.3 million project, consisting of a new pump station structure, five new water pump units, a one-by-pass line, new piping and valves, generator, pump control system and PLC, and new connections to valves, fittings, and appurtenances. Other work included a replacement of an existing pipeline with a new 16-inch pipe, valves, fittings and appurtenances.

City of San Diego Catalina 12-Inch Cast Iron Main and Sewer Main, San Diego, CA
Laboratory manager during testing and inspection services for the $20.8 million project which consisted of the replacement of 16,000 linear feet of cast iron water main of various sizes with new 24-inch Cement-Mortar Lined and Coated Steel (SMLCS) pipe and 16-inch PVC; replacement of 14,500 linear feet of sewer main; relocation of 5,000 linear feet of sewer main from the easement to the right-of-way; re-plumbs; and construction of 1,200 linear feet of 18-inch RCP storm drain.
EXPERIENCE & RESPONSIBILITIES

Dave has over 30 years of drilling experience. He also has experience coordinating safety programs, maintaining equipment, managing office personnel and payroll, sales and marketing, negotiating contracts, and project management.

PROJECT EXPERIENCE

City of National City Paradise Creek Improvements, National City, CA
Drilling services during a geotechnical investigation for improvements as part of a state funded grant to improve the flood capacity and storm water quality of the creek. The improvements will include a drop structure and storm water BMP facilities.

City of San Diego Murphy Canyon Road Trunk Sewer Repair/Rehabilitation, San Diego, CA
Drilling services during geotechnical reconnaissance for the design of a $16 million project consisting of the installation of 2,389 linear feet of 8-inch and 12-inch new sewer mains, as well as sewer rehabilitation consisting of 27,266 linear feet (5,164 miles) of 12-inch, 15-inch, 18-inch, 21-inch, 24-inch, 27-inch, 30-inch, 33-inch, and 36-inch of existing vitrified clay (VC) mains. 3,197 linear feet of existing sewer main will be abandoned. The project will also feature ADA improvements and street resurfacing.

City of San Diego Otay 2nd Pipeline Phase 2 and AC Woodman Street Pipeline Replacement, San Diego, CA
Drilling services during a geotechnical investigation for this $16 million design-build project consisting of 1.5 miles (7,913 linear feet) of new 48-inch CMLCS pipe. The new pipeline will replace and abandon the existing 36-inch steel pipe and 48-inch CMLCS pipe. The abandonment will need to be slurry filled and easements vacated. Additional work will include the replacement of 1.3 miles (6,913 linear feet) of 8-inch to 16-inch diameter AC pipeline.

City of San Diego Catalina 12-Inch Cast Iron Main and Sewer Main, San Diego, CA
Drilling service for the $20.8 million project which consisted of the replacement of 16,000 linear feet of cast iron water main of various sizes with new 24-inch Cement-Mortar Lined and Coated Steel (SMLCS) pipe and 16-inch PVC; replacement of 14,500 linear feet of sewer main; relocation of 5,000 linear feet of sewer main from the easement to the right-of-way; re-plumbs; and construction of 1,200 linear feet of 18-inch RCP storm drain.

Helix Water District Cast-Iron Pipeline Replacement Project 4624, La Mesa, CA
Drilling services during a geotechnical investigation for the design of the replacement of 7,600 linear feet of existing cast-iron pipelines between multiple paved streets in La Mesa.

City of San Diego Mission Beach Water and Sewer Replacement, San Diego, CA
Drilling services during a geotechnical investigation for a $14.5 million project consisting of the replacement of 0.46 miles of existing sewer mains and 3.4 miles of existing water mains because of pipeline damage due to groundwater level fluctuation.

Olivenhain Municipal Water District El Camino Real Pipeline Replacement, Encinitas, CA
Drilling services during a geotechnical investigation for the installation of a new $4 million project including the design of approximately 4,700 linear feet of pipeline along El Camino Real. Additional features will include fire hydrant valves, water main connections, water service laterals, replacement of 700 linear feet of 12-inch DI water from the District water easement to Mountain Vista Road, and reconnections with sizes up to 10-inch will be replaced or relocated.

Vista Irrigation District E Reservoir and Pump Station, Vista, CA
Drilling services during a geotechnical investigation for the replacement of the existing reservoir with a contemporary reservoir and pump station. The new reservoir will have a capacity of up to four million gallons. The new pump station will provide a redundant water supply to higher pressure zones within the District’s service area when disruptions occur to primary water supplies.
CHULA VISTA, CA

OTAY WATER DISTRICT: TREATMENT PLANT SODIUM HYPOCHLORITE DISINFECTION SYSTEM UPGRADE

SCOPE OF WORK:
Geotechnical investigation for the design and construction of one brine tank and three sodium hypochlorite tanks. The brine tank is 23-feet high and 10-feet in diameter. Each of the three sodium hypochlorite tanks is 16-feet high and 10-feet in diameter. The sodium hypochlorite tanks are constructed on 12-foot by 12-foot, 1-foot thick reinforced concrete pads. The brine tank is constructed on a 14-foot by 14-foot, 1-foot thick reinforced concrete pad. The investigation consisted of exploration of subsurface conditions by drilling borings, which were then logged. Samples were collected from the borings and sent to Atlas’ in-house laboratory to evaluate pertinent soil classification and engineering properties. The results were utilized to prepare a geotechnical report with our conclusions and recommendations. Atlas also provided foundation plan review.

REFERENCE

Orion Construction Company (for the Otay Water District)
Heidi Andrews
(760) 497-0164
Heidi.Andrews@orionconstruction.com

SERVICES:
✔ Geotechnical Investigation; Observation and Testing of Utility Trench Backfill, Subgrade, and Aggregate Base Material
✔ Inspection and Testing of Reinforced Concrete, Drilled Anchors, and Rebar

CONTRACT VALUE:
✔ $16,900

6. EXISTING AND PAST FINANCIAL RELATIONSHIPS

Atlas Technical Consultants, LLC (FKA SCST, LLC) does not nor do any of our sub-consultants have existing or past financial relationships with current members of the Authority’s Governing Board and staff or with entities for which said members are employed, neither do we have an interest, both past or present.

7. REFERENCE PROJECTS

OTAY WATER DISTRICT: TREATMENT PLANT SODIUM HYPOCHLORITE DISINFECTION SYSTEM UPGRADE

CHULA VISTA, CA

REFERENCE

Orion Construction Company (for the Otay Water District)
Heidi Andrews
(760) 497-0164
Heidi.Andrews@orionconstruction.com

SERVICES:
✔ Geotechnical Investigation; Observation and Testing of Utility Trench Backfill, Subgrade, and Aggregate Base Material
✔ Inspection and Testing of Reinforced Concrete, Drilled Anchors, and Rebar

CONTRACT VALUE:
✔ $16,900

SWEETWATER AUTHORITY: ON-CALL TIME AND MATERIALS GEOTECHNICAL ENGINEERING AND TESTING SERVICES
CITY OF SAN DIEGO: NAVAJO PUMP STATION
SAN DIEGO, CA

SCOPE OF WORK:
Construction of a $7.3 million project, consisting of a new pump station structure, five new water pump units, a one by-pass line, new piping and valves, generator, pump control system and PLC, and new connections to valves, fittings, and appurtenances. Other work included a replacement of an existing pipeline with a new 16-inch pipe, valves, fittings and appurtenances.

SERVICES:
- Observation and Testing of Grading, Wall Backfill, and Utility Trench Backfill; Footing Excavation Observation
- Inspection and Testing of Cast-In-Place Concrete, Drilled Anchors, Field Structural Steel Welding, and Masonry; Non-Destructive Testing

CONTRACT VALUE:
$73,845

REFERENCE
TC Construction (for the City of San Diego)
Chad Cameron
(619) 448-4560
cameron@tcincsd.com

CITY OF NATIONAL CITY: SEWER LINE REPLACEMENT AND UPSIZING PROJECT PHASE 1
NATIONAL CITY, CA

SCOPE OF WORK:
Construction of new street sections, PCC curb and gutter, AC dikes, AC driveways and driveway entrances, manholes, sewer lateral replacements, PCC sidewalks, PCC curb ramps, signing and striping, as well as open trench construction of 21-inch, 12-inch, and 8-inch diameter PVC sewer main.

SERVICES:
- Observation and Testing of Utility Trench Backfill, Subgrade, Asphalt Concrete, and Aggregate Base Material

CONTRACT VALUE:
$48,756

REFERENCE
City of National City
Jose Lopez
(619) 336-4380
jlopez@nationalcityca.gov
7. REFERENCE PROJECTS

CITY OF DEL MAR: 2016 SEWER AND WATER GROUP
DEL MAR, CA

SCOPE OF WORK:
As part of Atlas’ (formerly known as SCST) on-call contract with the City, we performed a geotechnical investigation for the design and construction of a 6-inch high density polyethylene (HDPE) water line to replace the existing above-ground steel pipeline, as well as testing and inspection for the open trench construction of 5,065 linear feet of 6-inch, 109 linear feet of 8-inch, three point repairs for 8-inch, and one point repair for 12-inch diameter PVC sewer mains as well as rehabilitating sewer manholes and laterals. Subsurface exploration was conducted by drilling borings, logging the bluff at the top of the slope, and excavating test pits near the face of the bluff. The boring, bluff, and test pits were logged and samples collected of materials encountered for laboratory testing. A report was then prepared with geotechnical conclusions and recommendations.

SERVICES:
✓ Geotechnical Investigation; Observation and Testing of Utility Trench Backfill, Subgrade, Asphalt Concrete, and Aggregate Base Material
✓ Inspection and Testing of Cast-In-Place Concrete

CONTRACT VALUE:
✓ $7,631

REFERENCE
City of Del Mar
Joe Bride, PE
(858) 755-3294
jbride@delmar.ca.us

CITY OF SAN DIEGO: CATALINA 12-INCH CAST IRON MAIN AND SEWER MAIN
SAN DIEGO, CA

SCOPE OF WORK:
The $20.8 million project consisted of the replacement of 16,000 linear feet of cast iron water main of various sizes with new 24-inch Cement-Mortar Lined and Coated Steel (SMLCS) pipe and 16-inch PVC; replacement of 14,500 linear feet of sewer main; relocation of 5,000 linear feet of sewer main from the easement to the right-of-way; re-plumbs; abandonment of 1,500 linear feet of existing sewer main; and construction of 1,200 linear feet of 18-inch RCP storm drain. The project also included installation of 3-inches of fiber optic conduit 18-inches deep with pull stations in Catalina Boulevard from the reservoir to the standpipe.

SERVICES:
✓ Geotechnical Investigation
✓ Inspection of Field Structural Steel Welding

CONTRACT VALUE:
✓ $74,697

REFERENCE
Harris & Associates (For the City of San Diego)
Gail Masutani
(619) 236-1778 x2524
Gail.Masutani@weareharris.com
CITIES OF CARLSBAD AND VISTA: AGUA HEDIONDA SEWER LIFT STATION AND CARLSBAD/VISTA INTERCEPTOR SEWER, REACHES 11B-15
CARLSBAD AND VISTA, CA

SCOPE OF WORK:
The $64.2 million project consisted of construction of a new 33 gallon per day sewage lift station to replace the existing station, which was the City of Carlsbad’s largest lift station. The new structure houses eight pumps, an emergency generator, bypass motors, an electrical control building, and odor control facilities. This increases the station’s capacity by 50 percent to meet future demand.

The project featured the construction of a new 30-inch parallel force main, which provides 4,000 linear feet of HDPE pipe parallel to an existing line, and 7,000 linear feet of 54-inch gravity sewer line. These pipes provide increased capacity and reliability to the sewer system. The new gravity sewer was constructed within the right-of-way of Avenue Encinas and a portion of the new sewer required installation by microtunneling. The new force main construction utilized a combination of standard construction methods and Horizontal Directional Drilling to avoid existing utilities. Other features included two miles of sewer pipeline and an 11,000 foot recycled water line.

The project also included the replacement of an existing wood trestle bridge over the Agua Hedionda Lagoon with a new 140-foot long steel truss bridge to provide access to sewer facilities and support the new pipelines. The bridge is wide enough to accommodate maintenance vehicles and a future segment of the Coastal Rail Trail. After the project was complete, new pavement overlay was provided on Avenida Encinas as well as new restriping to incorporate bicycle lanes.

REFERENCE

Arcadis US, Inc.
Anthony Dazzo (formerly with Arcadis)
(951) 936-4980
adazzo@iecorporation.com

SERVICES:
- Observation and Testing of Grading, Utility Trench Backfill, Wall Backfill, Subgrade, Asphalt Concrete, and Aggregate Base Material
- Inspection and Testing of Cast-In-Place Concrete, Field Structural Steel Welding, and High-Strength Bolting Inspection and Testing; Concrete Quality Control

CONTRACT VALUE:
- $237,720
## 14. Names, Background, and Experience of Principal Members and Officers

The chart below depicts the key principal personnel who will provide services during this contract and their experience and professional licenses.

<table>
<thead>
<tr>
<th>Key Personnel: Employee Name &amp; Role</th>
<th>Qualifications and Licensing/Certifications</th>
<th>Years of Experience</th>
<th>Project Experience</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thomas B. Canady, PE</td>
<td>BS, Civil Engineering, State of CA PE, State of AZ PE, State of NV PE, ACI Certification Program Examiner for Concrete Strength Testing Tech, Aggregate Testing Tech Levels 1 and 2, Aggregate Base Testing Tech, Concrete Field Testing Tech Grade I, and Concrete Lab Testing Tech Level 2, Nuclear Gauge Operator Certification</td>
<td>31</td>
<td>City of San Diego Navajo Pump Station, City of San Diego Jean Drive Storm Replacement, Santa Fe Irrigation District Group 3 PRS Replacement Project and Government Road Pipeline Relocations, Vallecitos Water District San Elijo Hills Pump Station, Rainbow Municipal Water District Gird/Monserate Hill Waterline, Rainbow Municipal Water District Moosa Crest Pipeline Replacement</td>
</tr>
<tr>
<td>Emil Rudolph, PE, GE, Technical Advisor/Principal Engineer</td>
<td>BS, Geological Engineering, State of CA GE, State of CA PE, Nuclear Gauge Operator Certification</td>
<td>23</td>
<td>City of National City Sewer Line Replacement and Upsizing Project Phase I, City of San Diego Catalina 12-Inch Cast Iron Main and Catalina Sewer Main, City of San Diego Mohawk Pump Station, City of Del Mar 2016 Sewer and Water Group 1</td>
</tr>
<tr>
<td>Andrew Neuhaus, PG, CEG, Senior Geologist</td>
<td>BS, Geology, State of CA PG, State of CA CEG, Nuclear Gauge Operator Certification</td>
<td>16</td>
<td>Otay Water District Treatment Plant Upgrades, Otay 2nd Pipeline Phase 2 and AC Woodman Street Pipeline Replacement, City of San Diego Catalina 12-Inch Cast Iron Main and Catalina Sewer Main, Vallecitos Water District San Elijo Hills Pump Station</td>
</tr>
<tr>
<td>Gillian Carzzarella, PE, Project Engineer</td>
<td>MS, Civil Engineering, BS, Civil Engineering, State of CA PE, OSHA 40-Hour HAZWOPER Training and 8-Hour Refresher Courses</td>
<td>8</td>
<td>City of San Diego Navajo Pump Station, City of San Diego Catalina 12-Inch Cast Iron Main and Catalina Sewer Main, County of San Diego Otay Lakes Sewer Force Main, City of San Diego Harbor Drive Trunk Sewer Replacement, Vista Irrigation District E Reservoir and Pump Station</td>
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<tr>
<td>Daniel Richardson, PE, Project Engineer</td>
<td>BS, Civil Engineering, State of CA PE, Radiation Safety Officer Training, Nuclear Gauge Operator Certification</td>
<td>7</td>
<td>City of San Diego Mohawk Pump Station, County of San Diego Otay Lakes Sewer Force Main, Carlsbad Municipal Water District Recycled Water Pipeline Expansion Segments 2, 5, and 7, City of Carlsbad Simsbury Sewer Pipeline Extension</td>
</tr>
</tbody>
</table>
15. Related Project Experience with Names of Key Personnel

The chart below depicts Atlas’ related project experience and names of key personnel who will provide services during this contract.

<table>
<thead>
<tr>
<th>Employee Name</th>
<th>Richard A. Reynolds Desalination Facility Phase II Expansion</th>
<th>Vallecitos Water District San Elijo Hills Pump Station</th>
<th>City of San Diego Catalina 12-Inch Cast Iron Main and Sewer Main</th>
<th>City of San Diego Navajo Pump Station</th>
<th>City of San Diego Mohawk Pump Station</th>
<th>Carlsbad/Vista Interceptor Sewer, Reaches 1B-15 and the Agua Hedionda Sewer Lift Station</th>
<th>City of National City Sewer Line Replacement and Upsizing Project Phase 1</th>
<th>Otay 2nd Pipeline Phase 2 and AC Woodman Street Pipeline Replacement</th>
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<tr>
<td>Thomas B. Canady, PE</td>
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<td>Emil Rudolph, PE</td>
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<td>Andrew Neuhaus, PG, CEG</td>
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<td>Gillian Carzzarella, PE</td>
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<td>Daniel Richardson, PE</td>
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<td>Andrew (Drew) McPeak, GIT</td>
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<td>Ron Baudour</td>
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<td>Daniel R. Ferguson</td>
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<td>Darren Hicks</td>
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<td>Ismael Gonzalez</td>
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<td>Eric Murray</td>
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<td>Gary Pitonyak</td>
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<td>Dave Hogan (Sub-Consultant)</td>
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SWEETWATER AUTHORITY
REQUEST FOR PROPOSAL FOR ON-CALL TIME AND MATERIALS
GEOTECHNICAL ENGINEERING AND TESTING SERVICES

ATTACHMENT 2
July 1, 2020

Sweetwater Authority
Attn: Mr. Luis Valdez
505 Garrett Avenue Chula Vista, CA 91912-2328
Ol 619.420.1413
El Lvaldez@sweetwater.org

SUBJECT: RFP FOR ON-CALL GEOTECHNICAL ENGINEERING AND TESTING SERVICES 2020

Dear Mr Valdez:

Construction Testing and Engineering, Inc. (CTE) is pleased to present the following proposal to provide on-call geotechnical engineering and materials testing services for the Sweetwater Authority (Authority).

POINT OF CONTACT: Tiffany Hilborn, Business Development Manager/ Client Representative
428 Broadway, Chula Vista, CA 91910
Cell: 619-453-1393 Office: 800-576-4955 x2610 Email: tiffany@cte-inc.net

With our corporate office in Escondido and a branch in Chula Vista; CTE has the necessary LOCAL resources and technical knowledge to provide the services required for your projects within your budget, timetable and quality expectations.

Past Financial Relationships
After careful review there are no financial relationships between CTE and current members of the Authority’s Governing Board and staff, and entities for which said members are employed, or have an interest, both past and present.

We request that while considering our fee schedule; please keep in mind that our rates include the review and distribution of all reports. No additional charges for travel, mileage, or administrative work will be added. We don’t nickel and dime our clients with miscellaneous charges. CTE is small enough to be flexible to your needs yet large enough to provide quality services in a timely and efficient manner.

We thank you for the opportunity to submit our statement of qualifications and look forward to working with you. Please contact us at (619) 453-1393 if you have questions or if we may be of assistance to you, or via email at tiffany@cte-inc.net

Sincerely,

CONSTRUCTION TESTING & ENGINEERING, INC.
STATE DIR - SB 845 REGISTRATION # 1000006116

TIFFANY HILBORN
BUSINESS DEVELOPMENT

DAN T. MATH, GE #2665
Vice President / Principal Engineer

ON Call Geotechnical Engineering & Testing Services
Sweetwater Authority
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<tr>
<th>Exhibit B</th>
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<tr>
<td><strong>Time and Materials Contract (Professional Geotechnical Services) Statement of Qualifications</strong></td>
</tr>
</tbody>
</table>

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**ON Call Geotechnical Engineering & Testing Services**

Sweetwater Authority
## EXHIBIT B
### TIME AND MATERIALS CONTRACT (PROFESSIONAL GEOTECHNICAL SERVICES) STATEMENT OF QUALIFICATIONS

1. **Name of company:** Construction Testing and Engineering, Inc. (CTE)
2. **Business address:**
   - 1441 Montiel Road, Suite 115, Escondido, CA 92026
   - 428 Broadway, Chula Vista, CA 91910
3. **When organized:** 1989
4. **Where incorporated:** California C1559606
5. **Length of time the company has been in business in San Diego County:** 31 YEARS
6. **How many years has the company engaged in the consulting business under the present company name:** 31 YEARS
7. **Brief company history:**

### HISTORY
CTE commenced operations with two professional engineers and one engineering geologist, over the past 30 plus years, CTE has grown to become a large regional multi-disciplined engineering company. Locally owned and operated, from offices located in Chula Vista, Escondido, Riverside and Oxnard, California, CTE provides geotechnical, construction inspection, and materials testing services for owners, developers, contractors, and public entities within the communities we reside.

Our goal is to work closely with our clients, their project management, design and development teams to complete projects within budget and on schedule. Our staff adheres to very strict written quality assurance standards and procedures and recognizes producing a high quality product as CTE’s first and primary goal.

### PROFESSIONAL STAFF
CTE’s diversified expertise available to project owners and their representatives begins with Geotechnical Engineers and Certified Engineering Geologists that work with project owners, developers, architects, or their representatives and have performed investigations and hazard assessments for thousands of projects with literally all possible site conditions in Southern California.

Past projects have included deep foundation design, site specific seismic response development, ground modification, slope stability analyses, and typical grading control. Past project types have included high-rise and mid-rise office buildings, hotels, condominiums and apartments, casinos, universities, and various K-12 public school projects, churches, shopping malls, residential developments, industrial parks, earth and rock fill dams, as well as hundreds of US Navy, US Army Corps, Federal Highway, State, City, Municipal, and Utility projects. CTE takes an innovative approach to all of our complex projects to provide the owner’s design and development team with the best alternatives possible no matter what the site conditions may be.

CTE’s construction material testing and special structural inspection capabilities include all on and off-site field inspections and materials testing required to be performed on virtually all most construction projects.
CTE can perform all California and Uniform Building Code, Federal, State, and local municipality required inspections and construction materials testing. CTE employs a large staff of ICC- and local municipality certified inspectors for reinforced concrete, post-tension concrete, reinforced masonry, structural and high-strength steel, fireproofing, wood framing, general building, mechanical, electrical, and plumbing inspections.

**REGISTRATIONS / LICENSES / CERTIFICATIONS / ACCREDITATIONS**
RCE | CE | GE | CEG | PE | PG | REA | LS

**PERSONNEL CERTIFICATIONS**
ICC | ACI | NICET | ASTM | DSA Masonry | AWS / CWI | Hazwopper
DSA Inspector of Record / Assistant Inspector | Radiation Safety | Pile-driving Inspection

**SB 845 REGISTRATION**
Construction Testing and Engineering, Inc., is currently registered with the Department of Industrial Relations (DIR), in compliance with SB 845. CTE’s DIR SB 845 registration number is 1000006116 exp 6/2021

**GENERAL SERVICES PROVIDED**

<table>
<thead>
<tr>
<th>Professional Geotechnical Engineering</th>
<th>Materials Testing Laboratory</th>
<th>Construction Inspection</th>
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<tbody>
<tr>
<td>Geotechnical Engineering</td>
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<td>Dynamic Site Response</td>
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<tr>
<td>Soil / Formation Analysis</td>
<td>Concrete</td>
<td>Masonry</td>
</tr>
<tr>
<td>Load Bearing Determination</td>
<td>Shotcrete</td>
<td>Post Tensioning</td>
</tr>
<tr>
<td>Drainage Evaluations</td>
<td>Masonry</td>
<td>Reinforcing Steel</td>
</tr>
<tr>
<td>Seepage Evaluations</td>
<td>Grout</td>
<td>Structural Steel</td>
</tr>
<tr>
<td>Pavement Design</td>
<td>Mortar</td>
<td>Soils Compaction</td>
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<td>Slope Stability Analysis</td>
<td>Reinforcing Steel</td>
<td>Failure Analysis</td>
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<td>Foundation Design</td>
<td>Structural Steel</td>
<td>Ultrasonic Testing</td>
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<tr>
<td>Concrete Recommendations</td>
<td>Aggregates</td>
<td>Epoxy Anchors</td>
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<tr>
<td>Earthworks / Soil Density</td>
<td>Roofing</td>
<td>Pull-Testing</td>
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<td>Geotechnical Exploration</td>
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<td>Specialty Inspection</td>
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<td>Fault Evaluations</td>
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<td>Non-Destructive Testing</td>
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<td>Surface Reconnaissance</td>
<td>Soils Testing</td>
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<td>Seismic Assessments</td>
<td>Soils / Formation Analysis</td>
<td>Fire Proofing</td>
</tr>
<tr>
<td>Test Pit Excavation</td>
<td>Particle Size Distribution</td>
<td>Waterproofing</td>
</tr>
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<td>Site Borings</td>
<td>Soil / Rock Classifications</td>
<td>Roofing</td>
</tr>
<tr>
<td>Sample Collection</td>
<td>Compaction Relationships</td>
<td>Curtain Wall</td>
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<tr>
<td>Laboratory Analysis</td>
<td>Plasticity Characteristics</td>
<td>Expansion Anchors</td>
</tr>
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<td></td>
<td>Triaxial and Direct Shear</td>
<td>Coating Thickness</td>
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<tr>
<td></td>
<td>Compressive Strengths</td>
<td>Floor Flatness</td>
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<td>California Bearing Ratio</td>
<td>Coring</td>
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<tr>
<td></td>
<td>Specific Gravity</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Expansion Index</td>
<td></td>
</tr>
</tbody>
</table>

ON Call  Geotechnical Engineering & Testing Services
Sweetwater Authority
AS-NEEDED GRADING CONTROL & CONSULTATION

CTE’s geotechnical engineering department’s on-call services include providing technical assistance/evaluation of field geotechnical problems or conditions that may be encountered during construction as well as performing soil compaction observation, testing, and evaluation of compacted fills and backfills.

CTE has conducted extensive geotechnical construction monitoring services for thousands of projects. These services generally include, but are not limited to, the following:

- Perform field and office consultation during grading, excavation, and structure foundation construction.
- Field soils technicians observe, perform testing, and record pertinent data during structural fill and trench or wall backfill operations. These observations and testing are utilized to document ongoing soil compaction operations and effectiveness of grading and backfilling processes.
- Performing inspection of excavations for faulting and competence of foundation soils to support proposed structures.
- Performing inspection of shoring installation, tieback anchors or soil nailing support systems, structure underpinning, and other geotechnical construction processes.

8. List all applicable references, primarily from other public agencies that the company has had as clients: *(Confidential)*

**SOUTHWESTERN COMMUNITY COLLEGE DISTRICT**, Chula Vista, CA  
Devore Stadium Field House Building, Community Learning Center, Parking Lot O, and the Wellness and Aquatics Center Complex  
Robert DePew, Senior Construction Manager  
(619) 482-6593  rdepew@swccd.edu

**CH2M Hill**  
**Twin Oaks Water Treatment Plant Improvements Project**, San Marcos, CA &  
Southwest Division’s Project P-1044 Northern Advanced Water Treatment Plant, Camp Pendleton, CA  
Lou Resman  
(760) 484-1530  lou.resman@ch2m.com

**CITY OF CARLSBAD**  
**Alga Norte Community Park**  
Cahn Tran CM - Kitchell  
(858) 334-9414  ctran@gafcon.com  
**Fire Station No. 3**  
Carl Schneider - CM  
(888) 638-1504

**CITY OF ESCONDIDO**  
**Spruce Street Channel and Transit Center**  
Marissa Padilla  
(760) 839-4098  mpadilla@escondido.org
DOWNSTREAM SERVICES, INC (PUBLIC WORKS, IMPROVEMENTS, CALTRANS)  
ON-CALL SERVICES  
Carmel Mt. Plaza - Storm Drain Repair, San Diego, CA  
Small Grove - Storm Drain Repair, Irvine, CA  
Carlsbad High School Storm Drain Repair, Carlsbad, CA  
Kyle Wayne, Project Manager  
(760) 519-4651  kylew@downstreamservices.com  

CASS ARRIETA CONSTRUCTION, INC.  
Otay 2nd Pipeline Phase 2 and AC Woodman Street Pipeline Replacement, San Diego, CA  
(City of San Diego Water Department)  
Buzz Birney Project Manager  
O1 (619) 590-0929 x144  CI (619) 977.7796  bbirney@cassarrieta.com  

OTAY WATER DISTRICT  
Otay Water District Pipeline CT Improvement- El Cajon, CA  
Contact: M-Rae Engineering, Inc. - Joel Constance  
(619) 843-5493  mraeengineering@gmail.com  

CALIFORNIA AMERICA WATER – IMPERIAL BEACH  
Waterline: Citrus Avenue between Alabama Street and Rainbow Drive, Imperial Beach CA  
Cal American Water District, Robert Becerra  
(619) 446-5703  Robert.becerra@amwater.com  

CITY OF OCEANSIDE WATER UTILITIES DEPARTMENT  
Mesa Drive and El Camino Real Sewer  
Mabel Uyeda  
(760) 435-5819 muyeda@oceanside.org  
Pilgrim Creek Lift Station  
Ryan Morgan, PE, Project Manager  
(760) 435-5811 RMorgan@ci.oceanside.ca.us
## 9. Contracts in progress with current completion schedule (percent of work remaining) and gross dollar amount of each contract: *(Confidential)*

<table>
<thead>
<tr>
<th>Job Number</th>
<th>Project Name</th>
<th>Client</th>
<th>Contract Amount</th>
<th>Billed to Date</th>
<th>%</th>
<th>Outstanding</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-13297</td>
<td>River Run West</td>
<td>Hamann Construction</td>
<td>$95,745.00</td>
<td>$1,645.00</td>
<td>5%</td>
<td>$64,100.00</td>
</tr>
<tr>
<td>10-13277</td>
<td>Solana Vista Mod/Reconstruct Project (PW)</td>
<td>Solana Beach School District</td>
<td>$211,520.00</td>
<td>$12,500.00</td>
<td>5%</td>
<td>$199,020.00</td>
</tr>
<tr>
<td>10-13596</td>
<td>P-508 Undersea Rescue Command</td>
<td>SO Consulting</td>
<td>$182,000.00</td>
<td>$47,429.00</td>
<td>5%</td>
<td>$134,571.00</td>
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<tr>
<td>10-13571</td>
<td>P-502 MDC Facility</td>
<td>Soltec Pacific</td>
<td>$58,580.00</td>
<td>$25,070.00</td>
<td>5%</td>
<td>$33,510.00</td>
</tr>
<tr>
<td>10-13579</td>
<td>City Of Escondido 2016 Rehabilitation (PW)</td>
<td>City Of Escondido</td>
<td>$81,034.00</td>
<td>$74,850.00</td>
<td>5%</td>
<td>$6,184.00</td>
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<tr>
<td>10-13597</td>
<td>Millenium Fire Station (PW)</td>
<td>EC Construction, Inc.</td>
<td>$87,974.00</td>
<td>$53,080.00</td>
<td>5%</td>
<td>$34,894.00</td>
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<tr>
<td>10-13587</td>
<td>Palomar Community College Arboretum</td>
<td>Palomar College</td>
<td>$17,525.00</td>
<td>$6,718.00</td>
<td>5%</td>
<td>$10,807.00</td>
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<tr>
<td>10-13590</td>
<td>Penrose Research Park Campus</td>
<td>Project Management Advisors</td>
<td>$18,565.00</td>
<td>$1,400.00</td>
<td>5%</td>
<td>$17,165.00</td>
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<tr>
<td>10-13599</td>
<td>ESD 5th Fire Protection Replacement</td>
<td>Millenium Fire Protection</td>
<td>$14,700.00</td>
<td>$6,750.00</td>
<td>5%</td>
<td>$8,950.00</td>
</tr>
<tr>
<td>10-13597</td>
<td>P-501 SOF LOGGU Unit One (PS FAC 3 NAB)</td>
<td>SO Construction</td>
<td>$150,000.00</td>
<td>$71,125.00</td>
<td>5%</td>
<td>$78,875.00</td>
</tr>
<tr>
<td>10-13597</td>
<td>Local Government</td>
<td>RS Construction</td>
<td>$150,000.00</td>
<td>$71,125.00</td>
<td>5%</td>
<td>$78,875.00</td>
</tr>
</tbody>
</table>

### Totals

- **$3,317,360.00**
- **$908,385.00**
- **$2,408,975.00**
10. List projects completed for Sweetwater Authority in the past five years: None

11. Has the company ever failed to complete any work awarded to it? NO
   If so, where and why: N/A

12. Has the company ever defaulted on a contract? NO
   If so, where and why: N/A

13. Experience in consulting work similar in scope to this professional geotechnical services project:

   CTE is familiar with local geotechnical conditions, regulations, and building codes. We believe that this experience brings exceptional value to your upcoming projects. In addition, this will help expedite both technical and logistical issues during the course of your projects.

   **RAMONA MUNICIPAL WATER DISTRICT**
   Ramona, CA
   The project consisted of the replacement of approximately 6,700 feet of 18-in transmission main between 16171 Woodson Crest and 17144 South Woodson Dr. to 30” transmission main. The existing 18” transmission main was undersized and restricted the pumping flow capacity.

   CTE performed all of the water line installations and compaction testing of trench backfill materials, as well as geotechnical laboratory testing and geotechnical engineering services for the Ramona Municipal Water District. 2019

   **CALIFORNIA AMERICA WATER – IMPERIAL BEACH**
   Waterline: Citrus Ave between Alabama Street and Rainbow Drive
   Imperial Beach CA
   The $5M project consisted of nearly five miles of waterline trenching and installation through existing roadways and around multiple existing utility lines and subsurface improvements.

   CTE performed all compaction testing of trench backfill and pavement subgrade materials for the waterline installations along Citrus Avenue between Alabama Street and Rainbow Drive in Imperial Beach, California. CTE also performed all laboratory testing for soils, aggregate base, asphalt concrete materials, and provided as-needed geotechnical engineering consulting. 2017-2018

   **OTAY 2ND PIPELINE PHASE 2 AND AC WOODMAN STREET PIPELINE REPLACEMENT**
   San Diego, CA
   Approximately 1.5 miles of new 48 inch CMLCS pipe within the right-of-way beginning at the north terminus at Skyline Drive and South Woodman Street to Potomac Street and Alta View Drive. This new pipeline replaced and abandon the existing 36 inch steel pipe and 48 inch CMLCS pipe. Abandonment needed to be slurry filled and easements vacated. This project also replaced approximately 1.31 miles of AC pipeline of varying diameters along South Woodman Street and Paradise Valley Road.

   CTE performed all of the water line installations and compaction testing of trench backfill materials, as well as geotechnical laboratory testing and geotechnical engineering services. Additionally, we provided Welding Inspection and NDT/UT Testing.
OTAY WATER DISTRICT PIPELINE CT IMPROVEMENT
El Cajon, CA
The project consisted of installation of several miles of cathodic protection header wire trench along Willow Glenn in El Cajon California. Approximate Project Value: $5M
CTE performed all of the installation observation and compaction testing of trench backfill materials, as well as geotechnical laboratory testing and geotechnical engineering services for the Otay Water District. 2018-2019

NORTH VILLAGE COLLECTION SYSTEM PHASE 1
VALLEY CENTER MUNICIPAL WATER DISTRICT
Valley Center, CA
The project consisted of installing several miles of a low pressure sewer pipe and a force main in Valley Center Road, Cole Grade Road, Juba Road and Lizard Rocks Roads in Valley Center. Pipes were placed at an average depth of 4’ to the top of the pipe. Multiple laterals and appurtenances along the alignment were also installed, along with four bore and jack installation pits that were excavated and backfilled. Approximate Project Value: $5M
CTE performed all of the sewer line installations and compaction testing of trench backfill materials, as well as geotechnical laboratory testing and geotechnical engineering consulting services for the Valley Center Municipal Water District. CTE also performed observation and monitoring of the Bore and Jack pits and engineering for shoring design. CTE Contract: $47K 2018

TWIN OAKS WTP IMPROVEMENTS PROJECT
San Marcos, CA
This project included the design and installation of a new 54-inch diameter pipeline, an isolation valve facility, influent meter facility and chemical vault, and retrofit of existing clear wells associated with a new desalinated water treatment plant. The project also included the design and construction of a treated water flow control facility, membrane facility, and associated chemical facilities.
CTE provided soils backfill observation and compaction testing, as well as geotechnical engineering support, and special inspection for structural materials including concrete, masonry, structural steel NDT/UT welding, and associated or related laboratory testing services. Contract Amount $125K 2013-2015

P-1044 ADVANCED WATER TREATMENT PLANT AND CONVEYANCE FACILITY
Camp Pendleton, Oceanside, CA
This $76 Million project included the construction of a new potable water distributing system with pump stations, a water treatment plant and operations facilities. The new water treatment plant facilities include three basic treatment modules including granulated activated carbon, reverse osmosis, and a pH control chemical injection system. The project also constructed an on-site two million gallon clear well for potable water storage and a brine disposal system.
CTE provided Geotechnical Engineering Services soils backfill observation and compaction testing, and special inspection for structural materials including concrete, masonry, structural steel NDT/UT welding, and associated or related laboratory testing services. Contract Amount $182K 2015-2017
14. List names, background, and experience of the principal members of your personnel, including the officers:

CTE is owned by Tom Gaeto, PE (President / CEO), 40 years of engineering experience. Dan Math, GE (Vice President / COO), 25 years of engineering experience. Jay Lynch, CEG (Principal Engineering Geologist). 37 years of engineering experience.

15. List related project experience with names of assigned personnel:

<table>
<thead>
<tr>
<th>Firm Personnel</th>
<th>Degrees, Affiliations, Certificates and Licenses</th>
<th>Similar Project Experience</th>
</tr>
</thead>
</table>
| Dan Math, RCE, GE Principal-In-Charge | Registered Civil Engineer, State of California, #61013  
Registered Geotechnical Engineer, State of California, #2665  
Registered Civil Engineer, Guam, #1616 | Twin Oaks WTP Improvements  
P-1044 Northern Adv. WTP - Pendleton  
Sweetwater Authority On-Call Services 2000-09  
IBWC Southbay Water Treatment Plant |
| Jay Lynch, CEG, PG Senior Geologist   | Certified Engineering Geologist #1890  
Professional Geologist #5646 | Twin Oaks WTP Improvements  
P-1044 Northern Adv. WTP - Pendleton  
IBWC Southbay Water Treatment Plant |
| Gregory F. Rzonca, CEG, PG, PE, CEM Sr. Geologist | Certified Engineering Geologist #1191  
Professional Geologist CA # 3836 / AZ #26468  
PE (Geologic), AZ # 28058  
Certified Environmental Manager, NV # 1591 | Twin Oaks WTP Improvements  
P-1044 Northern Adv. WTP - Pendleton  
Sweetwater Authority On-Call Services  
IBWC Southbay Water Treatment Plant |
| Martin Siem, CEG Sr. Geologist        | Registered Geologist CA - #6992  
Certified Engineering Geologist CA - #2311 | Romona Municipal Water District  
Woodson Transmission Main Line  
Otay 2nd Pipeline Phase 2  
California America Water - Imperial Beach  
North Village Collection System Phase 1 |
| Aaron Beeby, CEG, PG Project Geologist / Project Manager | Certified Engineering Geologist, California - #2603  
Professional Geologist, California -- #8490  
Radiation Safety and Use of Nuclear Gauge (CPN & Troxler)  
40-Hour OSHA Certification with recent eight-hour transfer | Sweetwater Authority On-Call Services  
IBWC Southbay Water Treatment Plant  
Twin Oaks WTP Improvements  
Otay 2nd Pipeline Phase 2  
California America Water - Imperial Beach |
| Colm Kenny, PE Staff Engineer / Project Manager | Civil Engineer, California #84406  
ACORE Construction Quality Management for Contractors #784  
40-Hour HAZWOPER  
10-Hour Construction Safety  
CPR/First Aid  
FEMA 100, 200, 700, 800, 546 and 547; Risk Communication and Message Mapping | Twin Oaks WTP Improvements  
Woodson Transmission Main Line  
Otay 2nd Pipeline Phase 2  
California America Water - Imperial Beach  
North Village Collection System Phase 1  
Spruce Street Channel and Transit Center |
| Steve Green Sr. Special Inspector / Soil Technician | ACI Certified Technician I  
Nuclear Gauge Certified  
CALTRANS Methods # 216, 231, 375 & 125  
N.I.C.E.T. Level 1 | Sweetwater Authority On-Call Services  
IBWC Southbay Water Treatment Plant  
Twin Oaks Valley Water Treatment Plant  
Hale Avenue Wastewater Treatment Plant |
<table>
<thead>
<tr>
<th>Firm Personnel</th>
<th>Degrees, Affiliations, Certificates and Licenses</th>
<th>Similar Project Experience</th>
</tr>
</thead>
<tbody>
<tr>
<td>Erik Campbell</td>
<td>NICET Construction Materials Testing Level II Asphalt, Concrete, Soils Subfields ACI Concrete Field Testing Technician G-I Proficient in ASSHTO AMRL/CCRL</td>
<td>Twin Oaks WTP Improvements P-1044 Northern Adv. WTP - Pendleton</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Otay 2nd Pipeline Phase 2 California America Water - Imperial Beach North Village Collection System Phase 1</td>
</tr>
<tr>
<td>Josh Rogers</td>
<td>AWS/CWI Certified Welding Inspector #07110053 ICC Structural Steel/Welding &amp; Bolting Inspector</td>
<td>Various Rail Projects</td>
</tr>
<tr>
<td>NDT Level III Welding Inspector</td>
<td>ICC Reinforced Concrete Inspector \n ICC Spray Applied Fireproofing Inspector \n ASNT NDT Level 3 Certification in Ultrasonic Testing and Magnetic Particle Level 2 Dye Penetrant City of San Diego Certified Inspector #1006 ACI Concrete Technician Grade I</td>
<td>Twin Oaks WTP Improvements IBWC Southbay Water Treatment Plant P-1044 Northern Adv. WTP - Pendleton</td>
</tr>
<tr>
<td>Daniel Azlin</td>
<td>DSA Masonry Special Inspector #5960 Spray Applied Fire Proofing Special Inspector Structural Masonry Special Inspector Reinforced Concrete Special Inspector Structural Steel and Bolting Special Inspector Structural Steel and Bolting Codes Structural Steel and Bolting Plans Structural Welding Special Inspector Master of Special Inspection American Welding Society (AWS) #200040731 City of San Diego Certified Special Inspector #999 ACI Concrete Field Testing Technician - Grade 1 Fiber Reinforced Polymer Special Inspector OSHA Construction Safety and Health</td>
<td>Twin Oaks WTP Improvements P-1044 Northern Adv. WTP - Pendleton IBWC Southbay Water Treatment Plant Otay 2nd Pipeline Phase 2 California America Water - Imperial Beach North Village Collection System Phase 1 Spruce Street Channel and Transit Center</td>
</tr>
<tr>
<td>Michael Balagtas</td>
<td>San Diego State University Bachelor of Science Degree, Civil Engineering Mesa Community College Associate Degree in Engineering U.S.A.C.E. Construction Quality Management (CQM) Certification 2010, 2015 Nuclear Gauge Certified AutoCAD Certified</td>
<td>IBWC Southbay Water Treatment Plant Otay 2nd Pipeline Phase 2 California America Water - Imperial Beach North Village Collection System Phase 1 Spruce Street Channel and Transit Center</td>
</tr>
<tr>
<td>Staff Engineer / Project Manager</td>
<td></td>
<td></td>
</tr>
<tr>
<td>James Trujillo</td>
<td>ACI Certified Technician I Nuclear Gauge Certified</td>
<td>Twin Oaks WTP Improvements P-1044 Northern Adv. WTP - Pendleton Sweetwater Authority On-Call Services IBWC Southbay Water Treatment Plant</td>
</tr>
<tr>
<td>Soil Technician</td>
<td></td>
<td>Twin Oaks WTP Improvements P-1044 Northern Adv. WTP - Pendleton Sweetwater Authority On-Call Services IBWC Southbay Water Treatment Plant</td>
</tr>
<tr>
<td>Francisco Perez</td>
<td>ACI Certified Technician I Nuclear Gauge Certified</td>
<td>Twin Oaks WTP Improvements P-1044 Northern Adv. WTP - Pendleton North Village Collection System Phase 1 Spruce Street Channel and Transit Center</td>
</tr>
<tr>
<td>Soil Technician</td>
<td></td>
<td>Twin Oaks WTP Improvements P-1044 Northern Adv. WTP - Pendleton North Village Collection System Phase 1 Spruce Street Channel and Transit Center</td>
</tr>
<tr>
<td>Thomas Small NDT Level II Welding Inspector</td>
<td>AWS Certified Welding Inspector #05100761 ICC Structural Steel &amp; Bolting Inspector Non-Destructive Testing – Magnetic Particle Testing NDT Level II</td>
<td>Twin Oaks WTP Improvements P-1044 Northern Adv. WTP - Pendleton North Village Collection System Phase 1 Spruce Street Channel and Transit Center</td>
</tr>
</tbody>
</table>
16. Resumes of all related personnel.

**DAN MATH, GE**  
**CORPORATE PRINCIPAL GEOTECHNICAL ENGINEER**

Dan Math, a registered Civil and Geotechnical Engineer, he has worked on thousands of projects throughout California, the southwestern United States, and Guam. He is in constant communication with DSA and CGS staff regarding site-specific seismic design and evaluation. Dan is currently working with various school districts to update antiquated district geotechnical design policies (Grossmont, Escondido, San Ysidro, Chula Vista, Sweetwater, etc.).

Dan supervises, directs, and monitors all geotechnical engineering activities including design and construction projects involving drilled and driven deep foundations. In addition to the preparation of preliminary geotechnical investigations, he provides geotechnical documentation, testing, and inspection on construction projects, as well as geotechnical and foundation design and report preparation.

**EDUCATION:**  
Bachelor of Science, San Diego State University  
Civil & Environmental Engineering Major

**CERTIFICATIONS:**  
Registered Civil Engineer, State of California, #61013  
Registered Geotechnical Engineer, State of California, #2665  
Radiation Safety & Use of Nuclear Gauge (CPN & Troxler)

**FOUNDATION DESIGN AND PILE DRIVING INSPECTION OVERSIGHT**

**Rough Acres Basin/Reservoir, San Diego County, California:** Corporate principal professional and geotechnical engineer during preliminary investigation, geotechnical design, and in-construction evaluation of the earthen dam expansion and clay zone installation in eastern San Diego County, California. The dam is used for flood protection, irrigation, and recreational purposes. All recent work was design, evaluation, and performed in accordance with the approved construction specifications and drawings under CTE’s supervision, observation, and testing, and in accordance with the County of San Diego’s guidelines.

**Olivenhain RCC Dam:** Provided third-party geotechnical investigation review for the Olivenhain Roller-Compacted Concrete (RCC) dam. The new dam is 318 feet high and 2552 feet long. The investigation consisted of core borings along the dam and reservoir area. The geotechnical design information was analyzed and confirmed for the design team. Value engineering was also performed during preparation of the construction documents.

**SDCWA/Pipeline 4B along Jackson Drive, San Diego, California.** Provided periodic geotechnical observation services of the actual encountered subsurface conditions for the tunnel beneath an environmentally sensitive area of the San Diego River. As-built Rock Quality Designation (RQD) was performed to confirm the actual encountered conditions.
Dan Math Continued

DAMS & LEVEES

Prado Dam, San Bernardino, California: Corporate principal professional and geotechnical engineer during construction of the rock-fill dam during recent upgrades in San Bernardino, California. The dam has an approximate height of 106 feet and is used for municipal water storage. The recent construction was done in two phases. All recent work was performed in accordance with the approved construction specifications and drawings under CTE’s supervision, observation, and testing.

Santa Maria Levee, Santa Maria, California: Provided geotechnical services for cement/fly ash chemical treatment for levee reach extension. The levees were designed in accordance with Army Corps of Engineer requirements and CTE performed all quality control observation, testing, and approval during construction. The project utilized an onsite batch plant and mobile CTE laboratory that were constructed and assembled specifically for the subject work. CTE performed all sampling and testing to certify the onsite batch plant and mobile laboratory in accordance with the requirements of the Army Corps of Engineers.

Rough Acres Basin/Reservoir, San Diego County, California: Corporate principal professional and geotechnical engineer during preliminary investigation, geotechnical design, and in-construction evaluation of the earthen dam expansion and clay zone installation in eastern San Diego County, California. The dam is used for flood protection, irrigation, and recreational purposes. All recent work was design, evaluation, and performed in accordance with the approved construction specifications and drawings under CTE’s supervision, observation, and testing, and in accordance with the County of San Diego’s guidelines.

Retention Dam and Pond, Beaumont, California: Provided third-party review as requested by the City of Beaumont. The dam will be up to 50 or 60 feet high at the center and will be constructed with on-site material. The dam was designed in accordance with State of California DSOD criteria. The third-party review consisted of literature review and project design document review.

Levee Culvert Replacement, Seal Beach, California: Performed preliminary geotechnical design for replacement of the wetlands culvert systems at Seal Beach Naval Weapons Facility, in Seal Beach, California. Investigation consisted of drilled borings and onsite mapping.

Olivenhain RCC Dam: Provided third-party geotechnical investigation review for the Olivenhain Roller-Compacted Concrete (RCC) dam. The new dam is 318 feet high and 2552 feet long. The investigation consisted of core borings along the dam and reservoir area. The geotechnical design information was analyzed and confirmed for the design team. Value engineering was also performed during preparation of the construction documents.

SDCWA/Pipeline 4B along Jackson Drive, San Diego, California. Provided periodic geotechnical observation services of the actual encountered subsurface conditions for the tunnel beneath an environmentally sensitive area of the San Diego River. As-built Rock Quality Designation (RQD) was performed to confirm the actual encountered conditions.
Mr. Colm Kenny, Senior Engineer / Project Manager, has over fifteen years of on-site experience with local, state, and federal agencies. Mr. Kenny’s responsibilities include; developing and implementing geotechnical investigations; laboratory analysis review and interpretation; geotechnical testing and inspection oversite; as-built construction investigations; retaining wall design; ground improvement system design, inspection and testing; field sampling activities for storm-water, groundwater, soil, and air, including sample collection; chain of custody documentation and transportation to the lab; and supervision of sub-contractor staff. Mr. Kenny also reviews sample analysis results, site histories, and other documentation for developing environmental action and compliance reports.

In addition, Mr. Kenny performs and writes phase I and II environmental site assessments, geotechnical explorations and investigations, geotechnical observation and compaction testing during construction. Mr. Kenny’s prior experience includes; three years with the U.S. Environmental Protection Agency as an Environmental Scientist, two years with CH2MHILL as an environmental engineer and emergency planner, and ten years with CTE as a geotechnical engineer.

EDUCATION
Georgetown University, Washington, D.C.: Bachelor of Arts, Physics, May 2001
San Diego State University, SD CA, Master of Science, Civil Engineering, December, 2012
FEMA Independent Study Courses 100, 200, 700, 800, 546, 547
Risk Communication and Message Mapping

REGISTRATIONS
Registered Professional Civil Engineer; 84406
Construction Quality Control Management for Contractors # 784
California QSD/QSP
Radiation Safety and Use of Nuclear Gauges
40-Hour HAZWOPER with 2019 Refresher
EM-385-1-1 16-Hour Certification

PROJECT EXPERIENCE:
P-1306 Replace Fuel Pier, NB Point Loma
Senior Project Engineer for replacement of Fuel Pier (Pier 180) located at Naval Base Point Loma (NBPL) with a new double-deck steel pile supported T-shaped fueling pier, located in deeper water outboard of the existing structure.

Renovate Bachelor Quarters 320, 321, 323, NB Coronado
Senior Project Engineer for design & Construction of three, 4 story Barracks. Building B-320 is a 33,200 SF, 4-story Barracks that includes sixty-six (66) 2+0 housing units. Building B-321 is a 33,200 SF, 4-story Barracks that includes sixty-six (66) 2+0 housing units. Building B-323 is a 33,200 SF, 4-story Barracks that includes twenty-seven (27) 1+1E living units and seventeen (17) single units.
COLM KENNEY, P.E. continued

CA 29 MILES SECONDARY AND PRIMARY FENCE (29 MILES), US/MEXICO BORDER, CA
Senior Project Engineer/Project Manager for construction of approximately 15 miles of primary new bollard fences and approximately 14 miles of new San Diego County (SDC) secondary bollard fences including the New River pedestrian bridge, gates, drainage improvements, communications cable, demolition and disposal along the US/Mexico International Border.

SDC IMPERIAL BEACH BORDER FENCE REPLACEMENT, (14 MILES) US/MEXICO BORDER, CA
Senior Project Engineer/Project Manager removal of Primary Pedestrian Fence consisting of landing mat fence and bollard fence with the construction of new primary pedestrian Type P-3 Bollard Wall along the US/Mexico International Border in San Diego, CA.

PAVE ACCESS ROAD & PARKING LOT, CALEXICO BORDER PATROL, CA
Senior Project Engineer for construction of a paved access road over the existing dirt/gravel access road and all associated utility infrastructure as well as paving the entire developed parking area, to alleviate the existing dust control mitigation condition, at the Calexico Border Patrol Station and incidental related work. Construction of a temporary service road was implemented to shorten the construction schedule timeline.

ADDITIONAL PROJECTS:

Southwestern College Wellness & Aquatics Center, Chula Vista, CA
Oceanside High School Performing Arts Center
Air Side Expansion San Diego International Airport, San Diego, CA
Terminal 2 Expansion San Diego International Airport, San Diego, CA
Las Colinas Woman’s Detention Facility, San Diego, CA
Twin Oaks Water Treatment Plant Improvements, San Marcos, CA
Otay 2nd Pipeline Phase 2, San Diego, CA
Southwest Division Project P-1044 Northern Advanced Water Treatment Plant, Camp Pendleton, CA
JAY LYNCH, PG, CEG
PRINCIPAL ENGINEERING GEOLOGIST

Responsible for foundation design and construction consultation/inspection oversight including various deep foundation and soil stabilization projects. Experience also includes geotechnical projects involving detailed geologic mapping, trench and borehole logging, aerial photo interpretation, laboratory test data analyses and technical report writing. Geotechnical investigations include detailed fault and landslide evaluations, slope stability analyses, and evaluation of complex geologic structure and stratigraphy throughout California and Nevada.

Geophysical studies including seismic refraction rippability investigations involving field evaluation and data analyses are additional areas of experience. Hazardous waste investigation experience includes historical and regulatory research, siting and installation of monitoring wells, soil and water sampling, analysis of laboratory test results, evaluation of resultant data, and report preparation. Special inspection projects include monitoring of caisson installation, sheet pile and concrete pile installations and reinforced concrete placement activities.

EDUCATION:
B.A. Geological Sciences, University of Rochester, Rochester, New York

CERTIFICATIONS:
Certified Engineering Geologist, California
Professional Geologist, California
OSHA 29 CFR 1910.120 - 40-Hour Course Certified

PROJECT EXPERIENCE:
Foundation Design and Pile Driving Inspection

San Diego International Airport, Terminal 2 Expansion, San Diego, CA
Coordinated and inspected deep foundations for expansion improvements including pre-cast driven piles, deep CIDH foundations, and CISS piles

MCRD Building 11 Seismic retrofit and Improvements, San Diego, CA
Operations Maintenance Facility NAB Coronado, CA
Performed preliminary geotechnical investigations for design purposes. Performed inspection and oversight of continuous driven pile installation operations.

Fuel Pier Improvements, Naval Sub Base, San Diego, CA
Inspection of steel sheet pile, concrete pile and fender pile.

Quay Wall Construction, Naval Air Station North Island, Coronado, CA
Performed inspection of steel sheet piles.
GREGORY F. RZONCA, P.G., C.E.G
SENIOR ENGINEERING GEOLOGIST

Mr. Rzonca has over thirty years of progressively responsible professional geotechnical and environmental service experience. Responsible for implementation and direction of work teams performing detailed geotechnical and environmental work in southwestern United States. He successfully scopes projects, prepares proposals, implements projects and provides follow up services.

Geotechnical projects he performs are mass graded tract development, commercial structures, public facilities including water works reservoirs and pipelines, lead geotechnical consultant for multiple municipalities and dams. The work included evaluation of earth material properties, landslides and fault hazards.

Environmental work includes performance and direction of work teams performing 100s of Phase I and Phase 2 Environmental Site Assessments, environmental interface with regulatory agencies including City, County, State and Federal regulators, and remedial activities conducted for private and federal institutions. Typical environmental projects he performs are fuel dispensing facilities, dry cleaner operations, landfills, ranches and farms where past practices may lead to environmentally impacted soil and groundwater media.

EDUCATION:
Bachelor of Science  Geology
California State University Los Angeles

CERTIFICATIONS:
Professional Geologist, California PG #3836
Registered Geologist, Arizona RG #26468
Certified Engineering Geologist, California CEG #1191
Certified Environmental Manager, Nevada #1591
Professional Engineer (Geological), Arizona #28058

PROJECT EXPERIENCE:
Various Water Reservoir Projects, San Diego, California - Principal investigator for various water works projects where slope stability and adverse soil conditions were present. The work includes subsurface exploration, laboratory testing, and preparation of written reports to describe the work, and provide conclusions and recommendations for development.

Proposed San Diego County Courthouse Replacement Project, San Diego, California - Principal investigator for a subsurface investigation to detect the potential presence of the San Diego fault as it may extend beneath the proposed downtown Court House replacement project. The work included work plan preparation and implementation, direction of work teams, analyses of data and written report. The subsurface exploration included standard trenching and continuous core technologies to allow stratigraphic correlations for the purpose of detecting the presence of faults.

Multiple Mass Graded Projects Northern San Diego County – Senior Engineering Geologist and Project Manager for multiple mass graded commercial and residential properties. Responsible for budget preparation and monitoring, evaluation of geotechnical considerations prior to during grading, and preparation of post grading documents. Geologic terrain included soft alluvium and hard non rippable bedrock that individually required unique solutions and handling. Prepared reports for submittal to regulatory agencies to document site engineering geologic conditions.
AARON BEEBY, CEG, PG
PROJECT GEOLOGIST/PROJECT MANAGER

Mr. Aaron Beeby has performed geotechnical investigations and fault evaluations for residential and commercial developments, as well as government and public works projects. He is responsible for foundation design and construction consultation/inspection oversight including various deep foundation and soil stabilization projects via aggregate piers/stone columns, etc. Experience also includes observation of grout injection for subsurface stabilization, geotechnical projects involving detailed geologic mapping, trench and borehole logging, aerial photo interpretation, laboratory test data analyses and Geotechnical report writing. Geotechnical investigations include detailed fault and landslide evaluations, slope stability analyses, and evaluation of complex geologic structure.

Mr. Beeby has performed piezometer and inclinometer installation and data collection; logging of limited access solid-stem auger and truck-mounted hollow-stem auger borings; down-hole logging of large diameter borings and test pits; data collection and analysis of CPT advancements. Other areas of expertise include: testing and observation of fill placement; detailed logging of fault trenches; mapping of landslides and geologic exposures; seismic refraction studies; observation of tieback; shear pin; and underpin excavation, installation, and testing. He also assists in data analysis and report preparation.

EDUCATION:
Bachelor of Science – Geology
University of California, Santa Cruz, 2003

REGISTRATIONS:
Certified Engineering Geologist, California - #2603
Professional Geologist, California – #8490

PROJECT EXPERIENCE:

Del Mar Bluffs Stabilization, San Diego, California
Slope stabilization project adjacent to the North County Transit railway. Observed the excavation and clean-out operations for the piles, as well as prepared geologic logs for each excavation.

Road Widening of Camino Del Norte, San Diego, California
Observed the excavation and installation of 292 tiebacks beneath the bridge abutments, 99 soil nails for a slope retaining structure, and 145 piles for two sound walls.

Fault evaluation for a project involving six blocks in southeast downtown, San Diego
The project included the excavation of six fault trenches ranging in depth from approximately 6 to 20 feet with lengths from 94 feet to 215 feet and the advancement of 34 CPT’s with a maximum depth of approximately 65 feet.

All American Canal Lining Project, El Centro, California
Performed a geotechnical evaluation of the All American Canal Lining. Installed 12 inclinometers and 21 piezometers with maximum depths of approximately 60 feet.
ERIK CAMPBELL
LABORATORY MANAGER

Responsible for overseeing daily responsibilities of all laboratory business including: Geotechnical soils investigations, calibration of field and lab testing equipment, maintaining AASHTO, CCRL, and other various agency accreditations, testing proficiency samples for numerous agencies, training and staffing qualified personnel, reviewing all test reports, assisting with other CTE branch Labs, and overseeing all areas of lab testing. Special oversite pertaining to all aspects of material testing (concrete, masonry, and steel testing)

EDUCATION:
Rancho Bernardo High School, 1998
Palomar College, 2002
Sacramento City College, 2008 – 2010

CERTIFICATIONS:
NICET Construction Materials Testing No. 111224
Level II Asphalt, Concrete, Soils Subfields
ACI Concrete Field Testing Technician Grade 1
ACI Strength Testing Technician
ACI Concrete Lab Testing Technician Level 2
Caltrans Test Methods
Proficient in ASSHTO AMRL/CCRL requirements

EXPERIENCE:
P-776 Special Operations Forces LOGSU Operations, Facility #1
Silverstrand Training Complex, Imperial Beach, NB Coronado, CA
Design-Build Border Patrol Station, Boulevard, CA
Goat Canyon Enhancement Project, Border Field State Park, CA
Calexico Border Patrol Station New Access Roads and Lots, Calexico, CA
P-920 SOF LOGSU Operations Facility #2, Silverstrand Training Complex, Imperial Beach, NB Coronado, CA
San Dieguito Wetlands Restoration, Del Mar, CA
IBWC South Bay International Wastewater Treatment Plant, San Ysidro, CA
San Diego International Airport, Terminal 2 Expansion, CA
Omni Hotel, San Diego, CA
Diamond View, San Diego, CA
YMCA Camp Surf – Dining Facility, Parking Lot, and Cabins, Silver Strand, Boulevard, Imperial Beach, CA
• Sacramento International Airport, T3 overlay project, CA
• Fresno Yosemite International Airport, CA
STEVE GREEN
SENIOR SOILS INSPECTOR

Mr. Green has over 26 years of experience working as a soils technician and has been CTE’s Soils Technician Supervisor for over 15 years. Steve is over all soil technicians in the Escondido and Chula Vista offices. He oversees soils technicians on public school, commercial, local, state and federal construction projects. Confirming CTE technicians’ monitoring of construction for conformance to approved geotechnical reports, drawings, specifications, and applicable building codes and standards. He reviews and confirms technicians’ inspection and testing during construction of shallow compacted fill, aggregate base, asphalt and concrete pavements, stone columns, vibratory soil densification, pressure grouting ground improvement and other miscellaneous geotechnical engineering observation items. Supervision of geotechnical construction control includes density testing (Sand-Cone & Nuclear Density Gage methods), concrete sampling and testing. Has extensive knowledge with laboratory geotechnical and construction materials testing. Also facilitates company radiation safety program.

EDUCATION:
Graduate - Patrick Henry High School, San Diego, CA
San Diego State University- Adult Education Program
1) Plan Reading
2) ICBO Reinforced Concrete Inspections
3) ICBO Masonry Inspections

CERTIFICATIONS:
ICC Special Inspector - Soils
Radiation Safety & Use of Nuclear Gauge (CPN & Troxler)
ACI Concrete Field Testing Technician Grade I

EXPERIENCE:
Twin Oaks Water Treatment Plant Original Construction & Improvements Project, San Marcos, CA
North Village Collection System Phase I, Valley Center, CA
California America Water, Waterline Projects, Imperial Beach, CA
Airport Support Facility, San Diego, CA
Fuel Operations Building, San Diego, CA
San Diego International Airport Landside Expansion Terminal Development, San Diego, CA
Gillespie Field Taxiway Reconstruction, El Cajon, CA
Regimental Maintenance Facility, Camp Pendleton, CA
Sweetwater Authority Infrastructure/Roadway Repairs and Replacements, Chula Vista, CA
Annual Slurry Seal Project, Oceanside, CA
Point/Lakeview Links Subdivisions, Spring Valley, CA
Remington Hills Subdivision, Otay Mesa, CA
Multiple Campus, Grossmont Union High School District, La Mesa/El Cajon, CA
MICHAEL BALAGTAS
PROJECT ENGINEER / SOIL TECHNICIAN

Performs review of submittals for geotechnical, civil, and structural materials sections of work. Prepares and reviews CQC plans, testing plans, safety plans, AHAs, SWPPP plans, environmental protection plans, preliminary and as-graded geotechnical and environmental site assessment reports. Also involved in geotechnical and civil design, storm water pollution prevention, and performs on site observation, sampling, and testing of soils and structural materials.

EDUCATION:
San Diego State University
Bachelor of Science Degree, Civil Engineering
Mesa Community College
Associate Degree in Engineering

REGISTRATIONS/CERTIFICATIONS
Nuclear Gauge Certified
AutoCAD Certified
Familiar with EM 385-1-1
ICC Soils Special Inspector
OSHA 30 Certification

EXPERIENCE
P-1044 Advanced Water Treatment Plant and Conveyance Facility, Camp Pendleton, Oceanside, CA
IBWC Southbay Water Treatment Plant, Chula Vista, CA
California America Water, Imperial Beach, CA
Sweetwater Authority On-Call Services 2004-2008
P-921 SOF LOGSU ONE Operations Facility #3, NB Coronado, Coastal Campus
P-855 Basic Training Command, NB Coronado
P-949/950 Applied Training Command Facilities, NB Coronado, Coastal Campus
Temecula Health Care Center
California Highway Patrol Facility, San Diego
SDB Imperial Beach Border Fence Replacement
P-889/890 SOF Seal Team Ops Facility, NB Coronado, Coastal Campus
P-919 SOF Support Ops Facility #3, NB Coronado, Coastal Campus
P-892/964 SOF Seal Ops Facility #1 & #3, NB Coronado, Coastal Campus
JOSH ROGERS
SPECIAL INSPECTOR/MATERIALS TECHNICIAN / NDT Welding Level III

Special Inspector: Structural Steel / Welding. Monitors construction of various types of structures to ensure compliance with plans, specs, and manufacturers recommendations. Materials Technician: Concrete. Perform sampling and testing of specimens for various projects in accordance with specifications.

EDUCATION:
- Associates Degree in Construction Inspection
  Palomar Community College 2011
- College of Oceaneering, Wilmington, California, 2003-2004
  Welding; Specializing in Non-Destructive Testing (Ultrasonic, Magnetic Particle, Dye Penetrant, fluorescent) and Visual Inspection.

CERTIFICATIONS:
- AWS/CWI Certified Welding Inspector #07110053
- ICC Structural Steel/Welding & Bolting Inspector #5262302
- ICC Reinforced Concrete Inspector #5262302-49
- ICC Spray Applied Fireproofing Inspector #526302-86
- ASNT NDT Level 3 Certification in Ultrasonic Testing and Magnetic Particle Level 2 Dye Penetrant
- City of San Diego Certified Inspector #1006
- ACI Concrete Technician Grade I

EXPERIENCE:
- San Diego International Airport Terminal Development Project- Airside, TDPC-1 - Provided Field Welding / Bolting Inspection, Ultrasonic Testing, and Epoxy Inspection.
- San Diego International Airport Terminal Development Project- Landside, TDPC-2 - Provided Field Welding / Bolting Inspection, Ultrasonic Testing, and Epoxy Inspection.
- Blue Line Trolley Station Improvements Project - San Diego, CA
  High Strength Bolting inspection and NDT on various types of structures & tracks to ensure compliance with plans, specs, and manufacturers recommendations.
- Jacobs Medical Center, La Jolla, CA - Provided Welding / Bolting Inspection, Ultrasonic Testing
- PMC West New Hospital Increment 1, San Marcos, CA - Provided Field Welding, Ultrasonic Testing
- Sanford Consortium for Regenerative Medicine, La Jolla, CA - Provided Welding /Bolting Inspection, Ultrasonic Testing
- Vantage Pointe Condominiums, Mission Valley, San Diego, CA - Provided Welding / Bolting Inspection, Ultrasonic Testing, and Epoxy Inspection.
- The Lofts@707, San Diego, CA - Provided Welding / Bolting Inspection, Ultrasonic Testing, and Epoxy Inspection.
THOMAS B. SMALL  
**Certified Welding Inspector /NDT Level II**

Mr. Small has over 14 years of experience as an inspector and performs special inspection and NDT of welding for commercial, government, military, school, and college construction projects.

**CERTIFICATIONS:**

- AWS Certified Welding Inspector #05100761
- ICC Structural Steel & Bolting Inspector #8018411-S1
- Non-Destructive Testing – Magnetic Particle Testing
- Nuclear Gauge Safety & US DOT Hazmat Certification

**EXPERIENCE:**

- Otay 2nd Pipeline Phase 2 and AC Woodman Street Pipeline Replacement, San Diego, CA
- P-1044 Advanced Water Treatment Plant and Conveyance Facility, Camp Pendleton, Oceanside, CA
- Airport Support Facility, San Diego, CA
- Fuel Operations Building, San Diego, CA
- Twin Oaks Water Treatment Plant Improvements, San Marcos, CA
- San Diego International Airport Rental Car Center, San Diego, CA
- CALTRANS Maintenance Station, El Centro, CA
- Tealium Office Building Upgrade, La Jolla, CA
- Oceanside HS Performing Arts Center, Oceanside, CA
- Palomar College Learning Resource Center, San Marco, CA
- Palomar College South Education Center, Rancho Bernardo, CA
- Southwestern College Wellness and Aquatic Center, Chula Vista, CA
- Valley Middle School Alternations/Shower Locker, Carlsbad, CA
- Alesmith Brewery Expansion, San Diego, CA
- Temescal Canyon High School New Roof & Pool Equipment, Lake Elsinore, CA
- Federal Inspection Service (FIS) Facility, San Diego, CA
- Steel Canyon High School, Spring Valley, CA
- El Cajon Valley High School, El Cajon, CA
- Family Health Centers Hillcrest Renovations, Hillcrest, CA
- Palomar NEC Phase II, Interim Village Infrastructure, San Marcos, CA
**DANIEL A. AZLIN**  
**Special Inspector**

Performs special inspection of reinforcing steel, epoxy installation, concrete sampling and testing, masonry, fiber reinforced polymer application, grout and mortar sampling and testing, as well as batch plant on various types of projects.

**CERTIFICATIONS:**
- ICC Reinforced Concrete Special Inspector #5220420
- ICC Reinforced Masonry Special Inspector #5220420
- ICC Spray Applied Fireproofing Inspector #5220420-86
- ICC Structural Welding Special Inspector #5220420
- AWS Certified Welding Inspector #200040731
- City of San Diego Certified Special Inspector #999
- ACI Concrete Field Testing Technician - Grade 1
- DSA Masonry Special Inspector #5960
- Fiber Reinforced Polymer Special Inspector

**EDUCATION:**
- Construction Inspection Mira Costa College, Oceanside, CA

**PROJECT EXPERIENCE:**
- Oceanside High School Athletic Field Phase I, Oceanside, CA
- San Pasqual High School Additions, Oceanside, CA
- Orange Glen High School Expansion, Escondido, CA
- UCSD Student Center Expansion Phase II, La Jolla, California
- Rancho Bernardo High School Music Building, San Diego, California
- Garden Road Elementary School, Poway, California
- Tierra Bonita Elementary School Modernization, Poway, California
- BEQ Package 4, Area 53 Horno - Camp Pendleton, CA
- 1st Marine Logistics Group Battalion Operations Center - Camp Pendleton, CA
- Sweetwater Authority On-Call Services, Chula Vista, CA
- IBWC Southbay Water Treatment Plant, Chula Vista, CA
- Twin Oaks Valley Water Treatment Plant, San Marcos, CA
- Hale Avenue Wastewater Treatment Plant, Escondido, CA
JAMES TRUJILLO
SOILS INSPECTOR

James performs soils compaction testing, observation and inspection for public works and military projects for inspection and quality control testing on mass grading, water, sewer, and storm drain/pipeline projects, water storage facilities, roadwork, and miscellaneous site structure construction. Perform geotechnical field and laboratory testing, inspection, verification for project plans and specifications.

CERTIFICATIONS:
Certificate - Radiation Safety and Use of Nuclear Gauges

PROJECT EXPERIENCE:

Miramar Water Treatment Plant, San Diego, CA
Provided subgrade compaction services.

P-750 Rotary Hangar, NASNI San Diego, CA
Provided back fill compaction for industrial waste line.

8th Street Trolley Station, San Diego, CA
Provided Waterline repair compaction services.

Jamul Hollywood Casino Phase 1, Jamul, CA
Provided back fill compaction for main bridge abutment walls.

San Diego Airport Terminal 2 Replacement
Provided electrical trench backfill.

P-705 Fitness Center, San Diego, CA
Soil technician, provided back fill compaction multipurpose field & south field.

P-1044 Water Treatment Plant, Camp Pendleton, CA
South Bay Water Treatment Plant - San Diego, CA
Twin Oaks WTP, San Marcos, CA
Ramona Municipal Water District, Woodson Crest Transmission Main, Ramona, CA
Otay 2nd Pipeline Phase 2, San Diego, CA
California America Water - Imperial Beach
North Village Collection System Phase 1, Valley Center, CA
Escondido Police And Fire Facility - Escondido, CA
National City Police Headquarters- National City, CA
FRANCISCO PEREZ
SOILS AND MATERIALS TECHNICIAN / INSPECTOR

Mr. Perez performs materials sampling and testing on various commercial, government and military projects. Soils – ensure compliance with specifications for moisture and density testing; provide observation of grading operations. Asphalt - ensure compliance with specifications for compaction testing. Concrete- monitor, sample, and test delivered batches to job site.

EDUCATION:

La Jolla High School
Miramar Community College

CERTIFICATIONS:

ACI Field Technician Grade 1  #00139840
Radiation Safety and Use of Nuclear Gauge

PROJECT EXPERIENCE:

P-1044 Water Treatment Plant, Camp Pendleton, CA
South Bay Water Treatment Plant - San Diego, CA
Twin Oaks WTP, San Marcos, CA
Ramona Municipal Water District, Woodson Crest Transmission Main, Ramona, CA
Otay 2nd Pipeline Phase 2, San Diego, CA
California America Water - Imperial Beach
North Village Collection System Phase 1
Escondido Police And Fire Facility - Escondido, CA
National City Police Headquarters- National City, CA
Willow Elementary School- San Diego, CA
El Cajon Valley High School – El Cajon, CA
Paul Ecke Elementary School- Encinitas CA
Carlsbad High School - Carlsbad, CA
West Hills High School- Santee, CA
17. **Total number of employees:**

80 employees.

CTE has four offices in California: our corporate office is in Escondido, and branch offices in Chula Vista, Riverside, and Oxnard.

18. **How many office personnel:**

36 people work at the Escondido Corporate Headquarters:
5 (Office Manager & Admin)
1 (HR/Payroll)
4 (Business Development)
1 (Estimator)
1 (Dispatch)
1 (Lab Manager)
5 (Lab Techs)
15 (Engineers/Geologists)
3 (Field Supervisors/ Lead Inspectors)

This count does not include field employees (i.e. Special Inspectors, Soil Techs)

**Our NEW Chula Vista Location has 6 employees:**
1 (Estimator)
4 (Engineers/Geologists)
1 (Field Supervisors/ Lead Inspectors)

This count does not include field employees (i.e. Special Inspectors, Soil Techs)

19. **Statement of approach and understanding of the on-call services required under this contract, with key personnel listed:**

**PERSONNEL:**

Steve Green and/or Michael Balagtas will be the designated CTE Senior Soil Technician, Thomas Small and/or Josh Rogers will be the designated NDT Level II Welding Inspector for Sweetwater projects. Although suitable backup personnel will be available at all times, services will be primarily provided by these designated gentlemen in order to maintain the maximum degree of continuity during field work.
Sweetwater Authority
Project Management Team

Client Representative
Tiffany Hilborn

President / CEO
Tom Gaeto, RCE

Project Manager
Colm Kenny, PE

Project Dispatch
Joy Misa

Geotechnical Supervisor
Dan Math, GE

Laboratory Supervisor
Erik Campbell

Special Inspection Supervisor
Joshua Rogers

Geologists
Aaron Beeby, PG
Martin Siem, CEG
Greg Rzonca, CEG

Certified Inspectors
Joshua Rogers (NDT)
William Small (NDT)
Hal Leetham (NDT)
Neal Leetham (NDT)
James Jackson (NDT)
Daniel Azlin
Mike Sulham
Al Cacas
Bill Cooley

Certified Soil Technicians
Steve Green
Michael Balagtas
Mike Schwarberg
Francisco Perez
James Trujillo
James Jackson

Certified Laboratory Technicians
Joshua Rogers
William Small
Hal Leetham
Neal Leetham
James Jackson
Daniel Azlin
Mike Sulham
Al Cacas
Bill Cooley

ON Call Geotechnical Engineering & Testing Services
Sweetwater Authority
RESOURCES / KEY PERSONAL
Our project team members are fully committed to the successful management and completion of your future projects. To that end, team members will be available to devote as much time as necessary to fulfill project requirements. No “KEY” personal changes will be made without prior written concurrence of the Authority’s.

**Dan Math, GE - PE#61013 GE# 2665- Principal In Charge (Over 20 years with CTE)**
Mr. Math provides overall technical supervision of all professional and technical staff, providing principal review for CTE projects. He supervises, directs and monitors materials testing, special inspection and geotechnical engineering activities. Dan is well versed and experienced in all local geotechnical requirements and serves as a primary geotechnical consultant and technical and administrative advisor on numerous projects in Southern California.

**Colm Kenny, PE #84406 - Project Engineer/ Project Manager (Over 8 years with CTE)**
Mr. Colm Kenny, Project Engineer, is responsible for overseeing planning and personnel assignment, laboratory testing and results, report production, verification and validation. Mr. Kenny also reviews sample analysis results, site histories, and other documentation for developing environmental action and compliance reports.

**Josh Rogers Lead Special Inspector (Over 10 years with CTE)**
Mr. Josh Rogers is the CTE Corporate NDT Level III Manager. He provides structural steel/welding: performed visual welding inspection, high strength bolting inspection and NDT on various types of structures to ensure compliance with plans, specs, and manufacturers recommendations.

**Erik Campbell- Laboratory Manager (Over 10 years with CTE)**
Mr. Campbell is responsible for overseeing daily responsibilities of all laboratory business including: Geotechnical soils investigations, calibration of field and lab testing equipment, maintaining DSA, AASHTO, CCRL, CALTRANS and other various agency accreditations, testing proficiency samples for numerous agencies, training and staffing qualified personnel, reviewing all test reports, assisting with other CTE branch Labs, and overseeing all areas of lab testing.

**Tiffany Hilborn – Client Representative (Over 10 years with CTE)**
Ms. Hilborn is trained as a geologist, and decided she liked the personal relationship building aspects of business development better than lugging around a nuclear gauge device shortly after graduation. She has over 15 years’ experience in geotechnical engineering, material testing & special inspection services business development.

**Charece Lucas, Proposal Estimator (2 years with CTE)**
Based on our Chula Vista office; Charece Lucas is our Project Estimator has an engineering degree and over 14 years’ experience providing detailed estimates. She has worked with city/water projects and has an in depth understanding of all water project requirements to ensure CTE bids are accurate.
TESTING & INSPECTION APPROACH:
1. Selecting local inspector/technicians that is the best fit for the project
2. Providing all team members with project schedule / budget information
3. Dispatch Assignments sent and confirmed via email and text
4. Inspector/Tech have access to plans and specs electronically for review on tablets prior to arriving on site (if available).
5. Samples will be logged/labeled and scheduled for pick-up
6. Field Inspection Reports will include:
   - Date of Testing, Date Specimen Taken
   - The project number (Authority & CTE),
   - Authority’s project title
   - Name of tester / technician / inspector/ and or/ engineer
Three-dimensional location of the sample, and any non-compliant work will be addressed and reported to the Project Manager immediately.

One of our many licensed engineers reviews all reports prior to submission. This includes field testing, analyses, and laboratory test results.

GEOTECHNICAL ENGINEERING

LABORATORY TESTING

The physical and engineering properties of the soils sampled during the construction program are analyzed at our in-house geotechnical laboratory. Anticipated tests may include gradation, maximum density, consolidation, Atterberg limits, Resistance “R” value, and expansion index tests as well as additional tests determined necessary based on field and laboratory data analysis.

GRADING CONTROL & CONSULTATION

CTE’s geotechnical engineering department performs construction quality control (QC) services. These services include providing technical assistance/evaluation of field geotechnical problems or conditions that may be encountered during project pre-development and/or during construction as well as performing soil compaction observation, testing, and evaluation of compacted fills and backfills.

CTE has conducted extensive geotechnical construction monitoring services for many City and County projects throughout Southern California. These services generally include, but are not limited to, the following:
- Perform field and office consultation during grading, excavation, and structure foundation construction.
- Field soils technicians observe, perform testing, and record pertinent data during structural fill and trench or wall backfill operations. These observations and testing are utilized to document ongoing soil compaction operations and effectiveness of grading and backfilling processes.
- Perform inspection of excavations for faulting and competence of foundation soils to support proposed foundations.
- Perform inspection of shoring installation, tieback anchors or soil nailing support systems, and other geotechnical construction processes if needed.
PROJECT MANAGEMENT

CONFORMING TO PROJECT BUDGET AND SCHEDULE

CTE has a track record of successful project completion within budget and on schedule. Our proactive management methods are fundamental techniques for budget and schedule control. Schedules are used by the Project Manager and engineers to keep control of the project. If necessary, corrective action is taken early so that options can be evaluated and the proper course of action is determined and implemented. Schedules are reviewed by the project team to meet all scheduling milestones.

The project scheduling, updating, and reporting will be performed using Microsoft Project and/or other required supplied reporting format. The design process will be tracked on a bi-weekly basis by the Project Manager and Project Engineer. Then the schedules are updated and reports submitted to our client’s Program Manager at least once a month.

CTE’s budgeting is controlled by using the most recent version of Timberline accounting software. The time spent on each project is entered into the Timberline database daily. The program then updates the project budget and provides reports on demand. The accounting department and the Project Engineer work closely together and have excellent control over projects’ budgets.

REPORTING PRACTICES

At CTE, we have embraced technological advancements in reporting and data sharing. As a result, we have been able to cut down on the turnaround time for lab results and inspector report distribution. Our cloud-based information structure allows us to keep all pertinent project documents a mouse-click away. Our dedicated staff is capable of returning lab results to the project team as soon as the next business day depending on the nature of the material and testing method.

We strive to provide our clients with test results and any reports in a timely manner to aid in the forward progression of the project. Our project team will keep records readily available for the purpose of displaying completed tasks and the overall progression of the project. Such documents will include but are not limited to: Inspection requests, concrete-placement logs, and marking of contract documents, RFI’s, Submittals, and Testing Lab reports. Inspectors will be responsible for producing a daily field report to be kept available at all times to our clients.

Present on the report will be but not limited to: all construction work observed by the inspector specific to that day, any items of concern observed in the field, as well as the correction of any deviations from design. Reports will be distributed daily to all pertinent parties including the owner, contractor, and design team.

Additionally, CTE’s Inspectors have experience with some of the most current and popular Project Management Software programs; including PROCORE, PlanGrid, e-builder, CoConstruct, and CMiC.
QUALITY ASSURANCE PLAN

CTE has developed a Quality Assurance Manual that maintains the highest level of technical and managerial quality for all our services provided, as well as all RFP services indicated for materials testing, special inspection, and geotechnical engineering. Our Quality Assurance Program also meets and often exceeds the current standard of practice by State Licensed Professional Engineers and Geologists and/or the governing authorities.

Our Quality Assurance Program has also been developed based on the most stringent technical requirements of the City and the Water District. Finally, the managerial aspects of our Quality Assurance Program have been developed based on decades of experience working with virtually every type of construction in Southern California. Daily time entry into our proprietary database alerts all staff involved with the project at each 20% increment of the estimated budget amount consumed, allowing daily staffing assignments or adjustments, eliminating the occurrence of unanticipated change orders, and ensures well-coordinated and completed projects.

CTE has assembled a strong team for the Authority’s up-coming projects that consists of experienced geotechnical engineers, registered civil engineers, engineering geologists, special inspectors, and materials testing field and laboratory technicians. Dan Math, GE will serve as the Principal in Charge. Colm Kenney, PE will serve as the contract Project Manager and Engineer overseeing the daily technical operations and staff Project Level Engineers, inspectors, and technicians. While CTE’s corporate Inspection Coordinator, Joy Misa coordinate the physical assignment of daily tasks.

Although situations can vary and backup staff is always available from our corporate and satellite offices, upon award of a particular project under this contract, the Principal in Charge, and the Project Manager, will meet to review the project scope of services and determine the proper project level staff to be delegated tasks amongst. The Project Manager will next meet with the Inspection and Field Supervisors, as well as the Inspection Coordinator to assign tasks to the Project Level Engineers and/or directly to the Inspectors or Technicians. Senior-level and higher staff are anticipated to remain in place for the duration of the contract.

CTE has established and maintained strict quality assurance procedures to ensure the accuracy and reliability of its testing and inspection services. These procedures include continual reviews, inspections, and certifications from federal, state and local agencies, participation in proficiency testing programs, providing and maintaining an adequate reference library, extending support and incentives for classes, training and certifications for personnel, and constant checking, reviewing and monitoring of testing and inspection procedures, personnel and reports.

Currently, CTE has jurisdictional approvals from the American Association of State Highway and Transportation Officials (AASHTO), the United States Army Corps of Engineers (USACOE), the United States Navy – Naval Facilities Engineering Command (NAVFAC) Southwest Division, the California State Office of the Division of the State Architect (DSA), the City of San Diego, and the City of Los Angeles. CTE is proud to be one of the few testing laboratories in Southern California with AASHTO accreditation in all disciplines.

To ensure that the laboratory testing standards set by AASHTO are incorporated and maintained, CTE participates in the proficiency sampling and testing program conducted by the AASHTO Materials Reference Laboratory (AMRL).

CTE maintains an extensive reference library, with ASTM Standards, Building Codes, CALTRANS, AISC, ACI, AWS, SSPWC, and other technical publications. The reference library is constantly updated and expanded with applicable and relevant materials. Library materials are available and used by CTE testing and inspection personnel.
20. At any time during the last five (5) years, has your company or any of its owners or officers been convicted of a crime involving the awarding of a contract of a government construction project, or the bidding or performance of a government contract? NO

21. In the past five (5) years, has any insurance carrier, for any form of insurance, refused to renew the insurance policy for your company? NO

22. List the top three references: (Confidential)

**REFERENCE NUMBER 1**
CH2M HILL - Lou Resman
Pl (760) 471-2350 El lou.resman@ch2m.com
3566 N Twin Oaks Valley Rd, San Marcos, CA 92069
Geotechnical Engineering / Testing and Inspection Services
1. Twin Oaks WTP Improvements Project - $125K
2. Southwest Division’s Project P-1044 Northern Advanced Water Treatment Plant Camp Pendleton - $425K

**REFERENCE NUMBER 2**
DOWNSTREAM SERVICES, INC
Victor Roberts, Project Manager
Pl 760) 746-2544 El victorr@downstreamservices.com
2855 Progress Pl, Escondido, CA 92029
On-Call Services Geotechnical Engineering / Testing And Inspection Services (Public Works, Improvements, Caltrans)
Dollar Amount: $50-100K – yearly average

**REFERENCE NUMBER 3**
KENNEDY JENKS
Nick Kokotas, P.E. | Project Engineer
38977 Sky Canyon Drive, Suite 100, Murrieta, CA 92563
Pl  951.501.9023  El nickkokotas@kennedyjenks.com
Encina Wastewater Authority Primary Area Improvement Project
Dollar Amount: $44K

CTE has the Encina Wastewater Authority 3 year on call contract and can renew for 2 more years.

Identify all existing and past financial relationships between your firm with current members of the Authority’s Governing Board and staff, and entities for which said members are employed, or have an interest, both past and present. NONE
SUBMITTED TO:

Sweetwater Authority
505 Garrett Avenue
Chula Vista, California
91912-2328
Attn: Luis Valdez
lvaldez@sweetwater.org

Due: July 1, 2020 before 2:00 PM

PREPARED BY:

Geocon Inc.
Joe Vettel | CEO
6960 Flanders Dr
San Diego, CA 92121
Ph. 858-558-6900
Email: vettel@geoconinc.com
www.geoconinc.com
July 1st, 2020
Mr. Luis Valdez
Sweetwater Authority
505 Garrett Avenue
Chula Vista, California 91910

SUBJECT: PROPOSAL FOR ON-CALL TIME AND MATERIALS GEOTECHNICAL ENGINEERING AND TESTING SERVICES SWA FILE: (GEN) TIME AND MATERIALS CONTRACT - GEOTECHNICAL SERVICES - 2020

Dear Mr. Valdez:

Geocon Incorporated (Geocon) is pleased to submit the enclosed qualifications and fee schedule to provide as-needed, on-call materials testing and geotechnical services to the Sweetwater Authority’s (Authority) Engineering Department. Geocon understands the scope of work presented in the outlined specifications and will comply with the services requested.

Geocon’s qualifications and capabilities are uniquely suited to the services solicited in the Request for Proposals (RFP). Geocon has successfully provided geotechnical engineering, engineering geology, environmental services, and materials testing and inspection services for over 49 years. We take pride in being a service-oriented company and our staff will make every effort to perform in a manner that exceeds your expectations. Technically, Geocon’s capability and competence have been demonstrated on a multitude of water related projects, including tasks within the Authority’s Service Area. Representations of these are presented in the documentation that follows. Geocon has developed a reputation for dependability and professionalism, with an exemplary record of past performance.

Geocon is fully staffed and has a large personnel resource to seamlessly fulfill all requirements of this contract. Our proposed team represents a cross-section of staff members with a wide variety of experience in geotechnical engineering and materials testing, offering the Authority a source of comprehensive capability necessary to respond to unanticipated and difficult challenges. Based on the feedback we have received from the project managers, Geocon sets the standard for service and responsiveness. Mr. Shawn Weedon, GE, Senior Engineer, will be the point of contact for this contract. All services will be provided from our corporate office:

Geocon Incorporated: 6960 Flanders Drive, San Diego, California 92121
858.558.6900 T  858.558.6159 F  619.818.0279 M  weedon@geoconinc.com

As Vice President of Geocon Incorporated, I attest by my signature that I have the official authority to bind the company to commit our efforts and resources to fulfill the terms of this contract. This proposal will remain valid for a minimum of 90 days from the due date of June 30, 2015. Thank you for the opportunity of being considered for award of this project. Should you have any questions regarding this proposal or if we may be of further service, please contact the undersigned at your convenience.

Sincerely,

GEOCON INCORPORATED

Joseph Vettel, GE
Chief Executive Officer / Principal-In-Charge

Shawn Weedon, GE
Vice President / Project Manager
1. EXHIBIT B

**Required Information**

1. **Name of Company**
   - Geocon Inc.
2. **Business Address**
   - 6960 Flanders Drive,
     San Diego, CA 92121
3. **When Organized**
   - 1971
4. **Where Incorporated**
   - State of California
5. **Length of Time the Company Has Been in Business in San Diego County**
   - 49 years
6. **How Many Years Has the Company Engaged in Business Under the Present Company Name?**
   - 49 years

7. **Brief Company History**
   
   Geocon is a California corporation established in 1971 as a professional engineering consulting firm providing comprehensive geotechnical, geologic, construction inspection, and environmental engineering and consulting services. Please refer to Section 2. – “Company History” for further response.

8. **List all applicable references, primarily from other public agencies that the company has had as clients:**
   - Please refer to answers to Question 22

9. **Contracts in progress with current completion schedule (percent of work remaining) and contract amount:**

   Below is a table of open public works contracts:

<table>
<thead>
<tr>
<th>Contract Name</th>
<th>Agency</th>
<th>Contact Information</th>
<th>Contract Amount</th>
<th>Completion Schedule (% Work Remaining)</th>
</tr>
</thead>
</table>
   | As – Needed Geotechnical Engineering Services | Padre Dam Municipal Water District          | Contact: Michael Hindle  
   Address: 9300 Fanita Parkway  
   Santee, CA 92071  
   Phone: 619.258.4632  
   Email: mhindle@padre.org | $ 855,300 | On-Call  
   Amount To Date | Services Completed to date (100\%): As-Needed Contract |
   | As – Needed Geotechnical Services           | Otay Water District                         | Contact: Mr. Kevin Cameron  
   Address: 2554 Sweetwater Springs Boulevard  
   Spring Valley, California 91978  
   Phone: 619.670.2248  
   Email: KCameron@otaywater.gov | $ 16,025 | On-Call  
   Amount To Date | Services Completed to date (100\%): As-Needed Contract |
   | As – Needed Geotechnical Services           | City of San Diego                          | Contact: Mr. Steve Frick  
   Address: 1200 Third Avenue, Suite 200  
   San Diego, California 92101  
   Phone: 619.533.3409  
   Email: SFrick@sandiego.gov | $ 2,075,441 | On-Call  
   Amount To Date | Services Completed to date (100\%): As-Needed Contract |
   | As – Needed General Civil Consulting and Design Services Geotechnical Services | San Diego Gas & Electric | Contact: Mr. Stanislav Dekic  
   Address: 8315 Century Park Court  
   San Diego, California 92123  
   Phone: 858.654.8249  
   Email: SDekic@semprautilities.com | $ 1,484,719 | On-Call  
   Amount To Date | Services Completed to date (100\%): As-Needed Contract |
   | As – Needed Geotechnical Services           | City of Imperial Beach                     | Contact: Ms. Victoria Marid  
   Address: 495 10th Street  
   Imperial Beach, California 91932  
   Phone: 619.424.2214  
   Email: vmarid@imperialbeachca.gov | $ 399,360 | On-Call  
   Amount To Date | Services Completed to date (100\%): As-Needed Contract |
   | As – Needed Geotechnical Engineering & Materials Testing Services | San Diego Unified Port District | Contact: Mr. Kurt “Woody” Brickley  
   Address: 3165 Pacific Highway  
   San Diego, California 92101  
   Phone: 619.994.2969  
   Email: kbrickley@portofsandiego.org | $ 149,249 | On-Call  
   Amount To Date | Services Completed to date (100\%): As-Needed Contract |
**10. List projects completed for Sweetwater Authority in the past five years:**

<table>
<thead>
<tr>
<th>No</th>
<th>Description</th>
<th>Answer</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>Geocon has not performed services directly for Sweetwater Authority within the past five years.</td>
<td></td>
</tr>
</tbody>
</table>

**11. Has the company ever failed to complete any awarded work?**

<table>
<thead>
<tr>
<th>No</th>
<th>Description</th>
<th>Answer</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>If so, please explain:</td>
<td>No</td>
</tr>
</tbody>
</table>

**12. Has the company ever defaulted on a contract?**

<table>
<thead>
<tr>
<th>No</th>
<th>Description</th>
<th>Answer</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>If so, where and why:</td>
<td>No</td>
</tr>
</tbody>
</table>

**13. Experience in consulting work similar in scope to this professional geotechnical services project:**

Geocon’s experience includes work for both Public and Private clients, on large and small projects, straightforward and complex, within the County of San Diego and throughout Southern California. Over the 49 years of our practice, we have become very familiar with the unique conditions, building practices and issues impacting San Diego County on more than 20,000 projects in the County.

Specific project experience similar in scope to this contract can be found in Section 7. – “List of Reference Projects.”

**14. List names, background, and experience of the principal members of your personnel, including the officers:**

(Resumes of our key personnel assigned to this contract have been included in Section 4. – “Project Staff.”)

<table>
<thead>
<tr>
<th>Name</th>
<th>Background</th>
<th>Experience</th>
</tr>
</thead>
</table>
| **Shawn Weedon, GE**  
Project Manager | **Education:**  
B.S., Civil Engineering  
**Licenses:**  
Geotechnical Engineer, CA No. 2714  
Professional Engineer, CA No. 61803  
**Affiliations:**  
ASCE- Geotechnical Division  
ASFE / BIA / CalGeo19 years | 19 years |
| **Joseph Vettel, GE**  
Principal Engineer | **Education:**  
M.S., Civil Engineering  
B.S., Civil Engineering  
**Licenses:**  
Geotechnical Engineer, CA No. 2401  
Professional Engineer, CA No. 49827  
**Affiliations:**  
ASCE / DFI / SEAOSD / SAME | 27 years |
| **Yong Wang, GE**  
Senior Engineer | **Education:**  
M.S., Civil Engineering/Geotechnical  
B.S., Civil Engineering  
**Licenses:**  
Geotechnical Engineer, CA No. 2775  
Professional Engineer, CA No. 62819  
**Affiliations:**  
ASCE / DFI | 27 years |
| **David Evans, CEG**  
Senior Geologist | **Education:**  
B.S., Geology  
**Licenses:**  
Engineering Geologist, CA No. 1860  
Professional Geologist, CA No. 5578  
**Affiliations:**  
AEG / ASCE / BIA / SDAG | 30 years |
15. List related project experience with names of assigned personnel:

<table>
<thead>
<tr>
<th>Name</th>
<th>Similar Projects Last 5 Years</th>
</tr>
</thead>
</table>
| Shawn Weedon, GE Project Manager | • Padre Dam MWD, Five Reservoirs Retrofit Program, Phase 3, West Victoria Reservoir Roof & Pump Station - Project Manager, provided oversight of testing and observation services.  
• Padre Dam MWD, Sunrise Reservoir Improvements - Project Manager, performed engineering analyses, authored the geotechnical investigation, and provided oversight of testing and inspection services.  
• Padre Dam MWD, Alpine Pump Station No. 5 Emergency Generator - Project Manager, provided oversight of construction inspection and testing services.  
• Genesee Sewer Improvements - Project Manager, provided pavement recommendations and slope stability analysis for an 18-inch-diameter sewer.  
• City of Imperial Beach Sewer Main Line Repairs - Project Manager, performed engineering analyses and authored the geotechnical report. |
| Joseph Vettel, GE Principal Engineer | • La Mesa Phase IV Sewer Improvements - QA/QC, provided senior-level review of the geotechnical investigation.  
• Rainbow MWD, SR-76 Sewer Realignment - Project Manager, performed engineering analyses and report preparation for a geotechnical investigation for the water main and sewer realignment.  
• Loire Valley HOA Storm Drain - Provided geotechnical consultation for the design of a new storm drain. |
| Yong Wang, GE Senior Engineer | • La Mesa Phase IV Sewer Improvements - Lead Engineer, performed engineering analyses and report preparation for a geotechnical investigation.  
• Old Highway 80 Sewer Improvements - Lead Engineer, performed engineering analyses and report preparation for a geotechnical investigation prepared for a 2,500-foot sewer main line installed beneath Highway 8 in Lakeside.  
• City of San Diego, Nipoma Street Sewer & Water Group 758 - Lead Engineer, performed engineering analyses and report preparation for a geotechnical investigation prepared for the installation of a new sewer main and manholes.  
• City of San Diego, Highland & Monroe Storm Drain - Lead Engineer, performed engineering analyses and report preparation for a limited geotechnical investigation for the replacement of three storm drain lines. |
| David Evans, CEG Senior Geologist | • Wastewater Control Facility for Harmony Grove Village - Project Manager, provided QA/QC over the preliminary geotechnical investigation performed for a wastewater control facility and storage pond located over a former rock quarry.  
• Harmony Grove Sewer Lift Station - Project Manager, provided QA/QC of a report of laboratory testing services. |
| Thomas Galambos Laboratory Manager | • La Mesa Phase IV Sewer Improvements - Laboratory Manager, performed soils testing and provided QA/QC of test results.  
• City of Imperial Beach Sewer Main Line Repairs - Laboratory Manager, performed soils testing and provided QA/QC of test results.  
• Redwing Street Water Line - Laboratory Manager, provided QA/QC of test results. |
| Robert Mertz Director of Field Services | • Padre Dam MWD, West Victoria Reservoir & Pump Station - Field Services Manager, provided general oversight of field personnel and reviewed Daily Field Reports.  
• Padre Dam MWD, Santee Lakes Improvement Project - Field Services Manager, provided general oversight of field personnel and reviewed Daily Field Reports.  
• Padre Dam MWD, Flinn Springs Pump Station No. 3 - Field Services Manager, provided general oversight of field personnel and reviewed Daily Field Reports. |

16. Résumés of all related personnel to be assigned to the Authority's work.

We have carefully selected Geocon personnel for this contract. Their resumes have been included in Section 4. – “Project Staff.” Personnel will not be changed without prior authorization of the Authority.

17. Total number of employees: 249

18. How many office personnel: 88

19. Statement of approach and understanding of the on-call services required under this contract, with key personnel listed:

A statement of approach and understanding of the on-call services required under this contract has been included in Section 3. – “Technical Approach for Services.” Resumes of our key personnel assigned to this contract have been included in Section 4. – “Project Staff.”
<table>
<thead>
<tr>
<th>Reference Number 1</th>
<th>Additional Reference Number 4</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>District or Entity:</strong> Padre Dam Municipal Water District</td>
<td><strong>District or Entity:</strong> San Diego Gas &amp; Electric</td>
</tr>
<tr>
<td><strong>Phone No.</strong> 619.258.4632</td>
<td><strong>Phone No.</strong> 858.654.8249</td>
</tr>
<tr>
<td><strong>Address:</strong> 9300 Fanita Parkway, Santee, CA 92071</td>
<td><strong>Address:</strong> 8315 Century Park Court, San Diego, California 92123</td>
</tr>
<tr>
<td><strong>Name of Contact:</strong> Michael Hindle and Mark Niemiec</td>
<td><strong>Name of Contact:</strong> Mr. Stanislav Dekic</td>
</tr>
<tr>
<td><strong>Scope of Work:</strong> As – Needed Geotechnical Engineering Services</td>
<td><strong>Scope of Work:</strong> As – Needed General Civil Consulting and Design Services Geotechnical Services</td>
</tr>
<tr>
<td><strong>Dollar Amount:</strong> $ 855,300</td>
<td><strong>Dollar Amount:</strong> $ 1,484,719</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Reference Number 2</th>
<th>Additional Reference Number 5</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>District or Entity:</strong> Otay Water District</td>
<td><strong>District or Entity:</strong> City of Imperial Beach</td>
</tr>
<tr>
<td><strong>Phone No.</strong> 619.670.2248</td>
<td><strong>Phone No.</strong> 619.424.2214</td>
</tr>
<tr>
<td><strong>Address:</strong> 2554 Sweetwater Springs Boulevard, Spring Valley, California 91978</td>
<td><strong>Address:</strong> 495 10th Street, Imperial Beach, California 91932</td>
</tr>
<tr>
<td><strong>Name of Contact:</strong> Mr. Kevin Cameron</td>
<td><strong>Name of Contact:</strong> Ms. Victoria Marid</td>
</tr>
<tr>
<td><strong>Scope of Work:</strong> As – Needed Geotechnical Services</td>
<td><strong>Scope of Work:</strong> As – Needed Geotechnical Services</td>
</tr>
<tr>
<td><strong>Dollar Amount:</strong> $ 16,025</td>
<td><strong>Dollar Amount:</strong> $ 399,360</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Reference Number 3</th>
<th>Additional Reference Number 6</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>District or Entity:</strong> City of San Diego</td>
<td><strong>District or Entity:</strong> San Diego Unified Port District</td>
</tr>
<tr>
<td><strong>Phone No.</strong> 619.533.3409</td>
<td><strong>Phone No.</strong> 619.994.2969</td>
</tr>
<tr>
<td><strong>Address:</strong> 1200 Third Avenue, Suite 200, San Diego, California 92101</td>
<td><strong>Address:</strong> 3165 Pacific Highway, San Diego, California 92101</td>
</tr>
<tr>
<td><strong>Name of Contact:</strong> Mr. Steve Frick</td>
<td><strong>Name of Contact:</strong> Mr. Kurt “Woody” Brickley</td>
</tr>
<tr>
<td><strong>Scope of Work:</strong> As – Needed Geotechnical Services</td>
<td><strong>Scope of Work:</strong> As – Needed Geotechnical Engineering &amp; Materials Testing Services</td>
</tr>
<tr>
<td><strong>Dollar Amount:</strong> $ 2,075,441</td>
<td><strong>Dollar Amount:</strong> $ 149,249</td>
</tr>
</tbody>
</table>

REFERENCES
Geocon has provided geotechnical consulting services for hundreds of projects under various as – needed contracts for the following public agencies: Padre Dam Municipal Water District, San Dieguito Water District, Caltrans, Department of General Services (DGS), City of San Diego, City of La Mesa, Centre City Development Corporation (CCDC), San Diego Gas & Electric (SDG&E), and San Diego Association of Governments (SANDAG). These projects have included water lines, dams, reservoirs, water and wastewater treatment plants, storm drains, sewers, transmission lines, electrical substations, fire stations, schools, freeways, roadways, parks, rail lines, police stations and libraries.

Additional references have been included in this Section in response to Question #22.
2. COMPANY HISTORY

Geocon is a California corporation established in 1971 as a professional engineering consulting firm providing comprehensive geotechnical, geologic, construction inspection, and environmental engineering and consulting services. In addition to these services we also provide environmental remediation contracting (cleanup) services and operate soils and materials testing laboratories. We have nine regional offices across the state including Los Angeles (Burbank), San Bernardino (Redlands), Orange County (Irvine), Riverside County (Murrieta), Coachella Valley (La Quinta), San Diego, the Bay Area (Livermore), Fairfield, and Sacramento. We employ a staff of 249 technically strong, highly motivated engineers, geologists, environmental scientists, technicians, and special inspectors. Our managing principals are practicing professional geologists or engineers who actively manage projects and assign and mentor technical staff. Each office is supported by state-of-the-art inventories of field equipment and instrumentation, comprehensive technical libraries, and modern data-management systems.

The average professional staff member has more than 10 years of experience at Geocon alone and has sufficient training and experience to respond to accelerated schedules without encountering procedural problems or sacrificing the quality of work products. Our friendly company culture promotes excellent working relationships with our clients, and many clients have said that we function much like their own employees: a direct extension of their team.

Geocon is fully staffed and responsive in meeting the needs of individual clients. Our size is such that our trained professional, technical, and support staffs are able to respond quickly to varying task requirements and multiple concurrent projects. This is achievable through Geocon's unique organizational structure that permits efficient, competent, professional services for every project irrespective of the size or complexity of the task. Associate level project review and oversight are provided for all projects.

Geocon has been providing On-Call Geotechnical services for Padre Dam Municipal Water District since 2011. During this time, we have been working on emergency repairs, rockfall hazards, reservoirs (new and rehabilitations), pump stations, new pipelines, retaining walls, groundwater pumping analyses, pavements, valve and pipe repairs. We have not prepared a single change order for Padre Dam and are always under budget.

We have also recently began working with Otay Water District and have also not had any change orders as of yet or gone over budget.

3. TECHNICAL APPROACH FOR SERVICES

CAPITAL PROJECTS WORK AUTHORIZATION & EXECUTION OF TASK ORDERS

- **Initial Contact**: The Agency’s Project Manager (PM) will contact our Contract Manager, Mr. Shawn Weedon, with the details of an upcoming project and potential scope of service. Mr. Weedon will discuss the project specifics with the Agency PM to gain a complete understanding of project requirements.
Scope/Fee Estimate: After gaining a complete understanding of the project, Mr. Weedon will discuss and assign the project to the appropriate Project Manager who will develop a proposal including the proposed scope of work, cost estimate, and project team (including subcontractors). Once the proposal is complete, Mr. Weedon will review the final document to ensure that we have offered the Agency the most efficient and cost-effective approach possible. After review, Mr. Weedon will send it to the Agency PM for approval. We can send a draft version if requested during the initial contact.

Project Kick-Off: After receiving the work authorization, Mr. Weedon and the Project Manager will hold a project kick-off meeting with their established team to go over the scope of work, project schedule and budget, and subcontractor involvement.

Project Deliverables: The Project Manager will prepare the deliverables for the accepted scope. Mr. Weedon will review the reports and letter prior to issuance to the agency. We can prepare draft documents for review by the agency prior to finalization, if requested.

GEOTECHNICAL & GEOLOGIC INVESTIGATIONS
Geocon will perform geotechnical and geologic investigations for the evaluation and assessment of geotechnical parameters required for the development and construction of the proposed projects. We can also include the evaluation of storm water infiltration feasibility, as required. Investigations will include the necessary laboratory testing, geotechnical/geologic analyses and reports (including recommendations for mitigating adverse soil conditions and potential constructability issues with respect to earthwork, paving and foundation design, as necessary). Our scope of work for geotechnical and geologic investigations will typically include the following tasks:

PRE-FIELD ACTIVITIES/SET-UP
- Identify the proposed boring and test pit locations with stakes and white paint in the field.
- Coordinate proposed exploration locations with site facilities personnel, as necessary.
- Contact Underground Services Alert (USA) and a private utility locator three working days prior to performing the exploration.
- Obtain the required excavation, well, or encroachment permits, as necessary.
- Retain drilling/excavation equipment and personnel for the field exploration.

FIELD ACTIVITIES/EXPLORATION
Field activities and exploration services for the planned explorations and testing program may include, but will not be limited to, the following tasks:
- Geologic mapping
- Performing the exploratory excavations (hand auger, bucket auger, rotary wash, hollow-stem auger, etc.)
- Downhole logging of bucket auger borings
- Exploratory test pits and/or trenches
- Cone Penetration Testing
- Geophysical testing (seismic refraction/reflection, downhole geophysics, etc.)
- In-situ testing
- Fault trenching
- Excavation logging and material classification
- Collection of soil/rock samples (disturbed and undisturbed)
- Infiltration testing
- Backfilling excavations
LABORATORY TESTING

The laboratory testing program for each geotechnical investigation is tailored specifically to the needs of each project and is contingent upon the types of earth materials encountered, the weight and nature of the proposed improvement, the depth of the proposed excavation, and the requirements of the building official. Laboratory tests may include, but will not be limited to, the following:

- In-Situ Density and Moisture Content
- Shear Strength
- Consolidation (Collapse)
- Expansion (Swell)
- Classification tests (Gradation, Hydrometer, Atterberg Limits)
- Earthwork/paving related tests (Proctor, Relative Compaction, R-Value, and Sand Equivalent)
- Water-Soluble Sulfate, Chloride, pH, and Resistivity (concrete and utility pipe corrosivity design)
- Hydraulic Conductivity
- Agronomic testing for planting suitability

ENGINEERING AND GEOLOGIC ANALYSES AND REPORT PREPARATION

After completion of the field exploration and laboratory testing programs, engineering and geologic analyses will be performed to develop conclusions and determine the most cost-effective and constructible recommendations for the mitigation of geologic issues, slope instability, and/or design and construction of the proposed structures/improvements. Our analyses may include, but will not be limited to, the following:

- Evaluation of geologic conditions including slopes, nearby faults, and other geologic hazards.
- Evaluation of potential for surface fault rupture.
- Evaluation of expected ground motions from deterministic and probabilistic seismic hazard analysis.
- Static and Pseudo-static slope stability analyses for temporary and permanent slopes.
- Evaluation of soil/geologic materials and consideration of excavation difficulties.
- Assessment of excavated earth materials and suitability for reuse or disposal.
- Assessment of demolished construction materials and suitability for incorporation in engineered fills.
- Evaluation of groundwater conditions, seepage, and static groundwater table.
- Evaluation of soil conditions for suitability of stormwater infiltration.
- Liquefaction and seismic settlement potential.
- Corrosion potential for concrete and utility pipes in direct contact with site soils.
- Evaluation of shallow and deep foundation systems with appropriate soil bearing values.
- Soil compressibility and settlement characteristics under different loading conditions.
- Soil expansion potential and mitigation measures.
- Soil modulus of subgrade reaction.
- Evaluation of existing and proposed underground utilities.
- Design and construction recommendations for:
  - Shallow spread and/or deepened foundations.
  - Retaining walls and sound walls.
  - Concrete slabs, flexible and rigid paving sections including treatments for base and paving subgrade.
  - Temporary and permanent excavations including sloping and shoring measures.
  - Suitability of soils for stormwater infiltration.
  - Site drainage and any other project specific recommendations required.
PEER REVIEW OF GEOTECHNICAL AND GEOLOGIC REPORTS

Geocon will perform peer reviews of geotechnical and geologic reports prepared by other consultants, where applicable. Our California-licensed Geotechnical Engineers and Engineering Geologists will evaluate the interpretation of geologic conditions, completeness of the field investigation and laboratory testing programs, technical findings, and constructability of the proposed design recommendations. Geocon has a reputation for providing very cost-effective designs and is frequently requested to perform peer reviews of geotechnical reports.

GEOTECHNICAL & MATERIALS TESTING & INSPECTION SERVICES

Geocon will provide the Agency with multi-disciplined certified inspectors, who have been registered with the County or City for at least three years, who will perform the required as-needed soils/materials testing and inspection services. Our inspectors are seasoned, highly-qualified and maintain certifications including, but not limited to, City of San Diego, Caltrans, ICC, ACI, American Welding Society (AWS-CWI), DSA, Office of Statewide Health Planning and Development (OSHPD), and American Society for Nondestructive Testing (ASNT). Our inspection staff will be 100% available throughout the contract duration. Our standard testing and inspection procedures are as follows:

- When Geocon receives an inspection request from the Agency’s Construction Manager (Project Manager, Superintendent, Owner’s Authorized Representative, Project Inspector (IOR)), we will document the request in writing on an inspection request form, filling in the date and time of the inspection, type of inspection requested, person requesting the inspection, and the contact’s phone number.
- We will verify that the person requesting the inspection is the Agency’s Construction Manager or has been authorized by the Construction Manager to request the inspection. Once the information has been verified, our dispatcher will schedule the inspection with an appropriate inspector.
- On the day the inspection request was scheduled, Geocon’s Inspector will meet the Agency’s Construction Manager on-site to verify the type and location of inspection needed.
- Inspections will be performed in accordance with the project specifications and the Agency’s requirements.
- The inspector will provide daily written reports of inspection indicating compliance or non-compliance, which are to be signed by the Agency’s Construction Manager before the inspector leaves the project site each day. The reports will include information about the inspector’s arrival and departure time and very specific details about activities being performed each day.
- The inspector will obtain samples, as required, and transport them to our in-house laboratory for testing and analysis. Material strength verification reports will be presented to the Construction Manager via email or fax the same day strength verification breaks are performed.

Geocon will only acknowledge inspection requests from the Construction Manager or designated representative. When called for inspection, Geocon inspectors will first check in with the Construction Manager upon arrival at the jobsite. All project activities will be documented daily on field reports indicating whether the construction work and materials testing was performed was in accordance with project requirements. Any problems will be reported immediately to the Construction Manager. Copies of material delivery tickets will also be collected and maintained. The daily field reports prepared by Geocon will be signed by the Construction Manager prior to Geocon leaving the jobsite. One copy of each field report will remain at the jobsite. All material samples will be properly labeled with the project name, date the sample was collected, and sampling location. Samples will either be temporarily stored on-site in an approved location or immediately be transported to our soils and materials testing laboratory for testing and analysis.

Inspection and testing services will be performed by soils technicians, deputy inspectors, and special inspectors as required. In order to be as cost-effective as possible, it is our intent to provide simultaneous inspections and testing services for different disciplines (geotechnical/deputy/special inspections) with a single, highly-qualified inspector, eliminating the need for a second inspector whenever possible. The selected inspector will be equipped with a vehicle and sufficient field-testing equipment (including a nuclear density gauge) to collect samples and provide in-place density test results in the field. A Deputy or Special Inspector (certified by Department of Public Works Building...
and Safety) will be provided for oversight and inspection as required. Field reports will be prepared and submitted on a daily basis and will be reviewed by our Project Manager. Copies of all daily inspection reports and other required documents will be submitted with each invoice and copies of all documents will be maintained in electronic format (pdf) for emailing at any time.

**DELIVERABLES**

Geocon will prepare reports summarizing all observations, test results, analyses, and recommendations for services in a timely manner. Copies of the reports (inspection and laboratory testing) will be provided in electronic and/or hard copy format and can be emailed upon request at any time.

It is Geocon’s standard practice to have daily inspection reports signed by the on-site client designated representative or IOR. Following field inspection services, Geocon’s inspector will provide the completed field report for signature to the IOR/Construction Manager prior to departure. Geocon will submit copies of each certified written report of each inspection, test, or similar service, to all parties as coordinated with the IOR/Construction Manager. Written reports of each inspection test shall include, but not be limited to, the following information:

- Date of issuance
- Project title and number
- Consultant name and contact information
- Dates and locations of samples, tests, or inspections
- Names of individuals making the inspections or the tests
- Time of arrival and time of departure
- Designation of the work or test methods
- Identification of product, specification section, and drawing
- Complete inspection or test data
- Test results and interpretation of test results
- Ambient conditions at the time a sample is taken/tested
- Comments or professional opinion as to whether inspected or tested work complies with contract document requirements
- Name and signature of laboratory inspector
- Recommendations of re-testing

Reports will include a description of deficiencies noted and corrective action undertaken to resolve such deficiencies. Deficiencies observed will immediately be brought to the attention of the IOR/Construction Manager. In the event deficiencies are not corrected, or if an interpretation of the contract documents is required, the IOR/Construction Manager will be notified.

Geocon will maintain a deficiency list of all items not corrected and will re-inspect the area after the deficiency has been corrected. Items to be listed will include:

- Description of the deficiency
- Date and time the deficiency was observed
- Who was notified of the deficiency
- Date of the re-inspection
- Description of the corrective action taken

Geocon is prepared to attend all relevant project meetings and regularly attends project meetings at the request of the project team. It is a standard practice for Geocon that all overtime work is authorized prior to performing any work by the IOR/Construction Manager. Geocon inspectors do not perform any work without the request/approval of the client. All field work is approved on a daily basis for time and inspection services performed.

**4. PROJECT STAFF**

Section Reserved, Project Staff Resumes are included in Appendix A.
SCHEDULE OF FEES
Section Reserved, Fees are submitted in a separate document per addendum 1.

FINANCIAL RELATIONSHIPS WITH AUTHORITY’S GOVERNING BOARD MEMBERS
Geocon and its proposed subconsultants do not have any existing or past financial relationships with current and/or members of the Authority’s Board and staff.

LIST OF REFERENCE PROJECTS

PADRE DAM MUNICIPAL WATER DISTRICT AS-NEEDED GEOTECHNICAL ENGINEERING SERVICES
SAN DIEGO COUNTY, CALIFORNIA

Geocon has provided on-call geotechnical engineering services for the Padre Dam Municipal Water District (PDMWD) since July 2011. Projects completed under this contract have included reservoirs, emergency utility breaks, utility backfill, park improvements, infrastructure improvements, pump stations, etc. Geocon’s scope of work includes specialized geotechnical studies and design recommendations, geologic investigations and characterization activities, and geotechnical and materials inspection and testing services. Geocon has provided services on the following PDMWD projects:

WEST VICTORIA RESERVOIR
Geocon provided geotechnical and special inspection services during retrofitting operations for the existing West Victoria Reservoir. The improvements included a new pump station, utility lines, and roof structure for the existing concrete line reservoir. The new roof structure is composed of aluminum and a new foundation was required to resist uplift pressures. The reservoir improvements allowed the water facilities to maintain regulatory compliance, improve local water availability, and extend the lifetime of the reservoir.

SUNRISE RESERVOIR
The Sunrise Reservoir is located at the peak of a hill in Santee. Slopes on the side of the 2-million-gallon steel reservoir suffered some erosion and the access road around the tank was not accessible. Geocon performed a geotechnical investigation to provide recommendations to repair the erosion, construct a retaining wall, and provide access for the tank. Strong rock exists below the property, so it was important to evaluate the drillability of the rock for the construction of the planned soldier pile wall.

ADVANCED PURIFICATION DEMONSTRATION FACILITY
Geocon provided the geotechnical investigation and testing/observation services for the construction of the new purification facility near the north end of the Santee Lakes recreation area in Santee, California. Development includes the construction of a new visitor center consisting of a pre-manufactured trailer approximately 24 feet by 60 feet supported on a jack system on a gravel base, a demonstration facility consisting of an approximately 42-foot by 50-foot concrete pad and shade structure, approximately 17-foot by 21-foot concrete pad to support tanks, approximately 11,900 square feet of paved asphalt parking area, and several new underground utility lines.

EASTERN SERVICE AREA SECONDARY CONNECTION PROJECT
We are currently providing testing/observation services during the installation of the new reservoir, flow control facility, pump station and water lines to this large upgrade in water services. The project is currently under construction and will include a pipeline that passes below Interstate 8 and a 1.75 million gallon reservoir. We are also providing special inspection services for the utilities, retaining walls and planned structures.
Additional Padre Dam Municipal Water District projects include:

- Advanced Water Purification Demonstration Facility
- Alpine Creek Drainage Improvement Project
- Alpine Pump Station No. 5, Emergency Generator
- Arnold Way Repair
- Flinn Springs Pump Station No. 3, Standby Generator
- Furnace Creek Road & Quail Canyon Road Pavement Repair
- Mission Gorge Road Asphalt Pavement Repair
- Olde Highway 80 Pump Station and Reservoir
- Pump Stations Nos 3 and 4, Surge Tank Coating
- Ray Stoyer Water Recycling Facility, Phase 1 Expansion
- Ridge Hill Road Slope Repair (2)
- Rios Canyon Pump Station No. 2, Standby Generator
- San Diego River Trail – Walker Preserve
- Santee Lakes Pavement Improvements
- Secondary Connection Project, Grading Contract “A”, Eastern Service Area
- West Hills High School Manhole Replacement
- West Victoria Drive & Alpine Boulevard Water Main Repair Backfill

**CITY OF SAN DIEGO AS-NEEDED GEOTECHNICAL SERVICES**

**SAN DIEGO, CALIFORNIA**

Geocon has performed geotechnical services for the City of San Diego since 1974. Over the past 40 years, Geocon has performed services on more than 200 task orders for the City of San Diego. Services have included geotechnical investigations, geo-environmental investigations, environmental site assessments, underground storage tank studies, distress analyses, and geotechnical observation and testing services during construction. Some of the projects Geocon has provided services on include:

**HIGHLAND & MONROE STORM DRAIN REPLACEMENT**

Geocon performed a limited geotechnical investigation for a storm drain replacement at three separate locations in the Talmadge and Kensington area of San Diego. The improvements included the installation of new RCP storm drains, cleanouts, inlets, and dissipaters via cut-and-cover trenching methods. The scope of the investigation included a review of available published and unpublished geologic literature, field reconnaissance, soil sampling, laboratory testing, engineering analyses, and report preparation.

**NIPOMA STREET SEWER & WATER GROUP 758**

Geocon performed a geotechnical investigation for approximately 790 lineal feet of sewer main to be installed beneath Nipoma Street and three manholes. The scope of the investigation included the review of available published and unpublished geologic literature, field exploration which consisted of drilling three small-diameter borings to a maximum depth of 28 ½ feet, laboratory testing, engineering analyses, and report preparation.

Other projects include:

- **Sewer & AC Water Group**, Geotechnical Investigation
- **Hayes Avenue Storm Drain**, Limited Geotechnical Investigation
- **Toyon Road Storm Drain Replacement**, Limited Geotechnical Investigation
- **Huntington Avenue Storm Drain Replacement**, Limited Geotechnical Investigation
- **Regents Road Widening Project**, Geotechnical Investigation & Percolation Testing
- **25th Street Renaissance**, Geotechnical Investigation
- **Compton HOA Slope Distress**, Limited geotechnical Investigation
- **Rancho Mission Slope Movement**, Limited Geotechnical Investigation
- **Streamview Drive Improvements**, Geotechnical Services Report for Infiltration Characteristics
- **Midway Street Bluff**, Limited Geotechnical Investigation

**REFERENCE**

City of San Diego
525 B Street
San Diego, CA 92101

Mahyar Navizi
City Manager
619.235.1978
mnavizi@sandiego.gov

**SCOPE OF SERVICES**

Geotechnical Engineering
Testing and Inspection Services
Geotechnical Investigation

**PROJECT DURATION**

2011 - Present

**GEOCON FEES**

$2,075,441
Geocon has performed numerous geotechnical engineering services for the SDG&E On-Call contract during the last decade. Specifically, Geocon has made significant engineering inputs to the development and/or improvements of numerous power transmission lines and substations all over southern California.

The following projects have been completed under our as-needed contract:

- TL628 Z282087 Pole Foundation
- Rios Property – 2919 Prospect Street Borings
- Murray Substation
- TL695 & TL6971 Wood to Steel Pole Improvements
- TL691 Wood to Steel Pole Replacement
- L320063 Street Lights (Brandywine & Pearwood Streets)
- TL600 Compliance, Z91110 & Z91111 Pole Foundations
- Pole P414601 at North Drive
- Point Loma Wastewater Treatment Plans Substation Upgrade
- C239 Reconductor Project, Installation of P111007 Foundation
- P195227 Herschel Avenue Stub Pole
- TL13805/Pole Z718331 Drilled Pier Foundation
- Line 49-13 Relocation Chubb Lane & Cottonwood Ave
- Mobile Home Park, Rancho Laguna, 13655 Hwy 8 Business
- TL6974 Artesian to Bernardo Expansion
- TL625B & TL629E Corrosion Study
- TL13835 Wood to Steel Pole Foundations
- Circuit 928 Retaining Wall Springbrook & Springhurst Drive
- TL684 Rancho Coronado Pole Z30108
- Coast Royal 20B Conversion Project
- Vine Substation Pole Foundations
- TL690A Wood to Steel Pole Replacement
- TL697 Wood to Steel Pole Replacement
- Mesa Heights Substation
- TL698 Stub Pole Foundations
- Poles Z97124, Z96475, and Z97122 Camino Santa Fe/Miramar
- Descanso Substation Upgrade
- TL624/TL630 Compliance Project, Z371412 Steel Pole Foundation
- P678718 Slope Erosion Assessment
- TL649/Z183560 & Z169367 Pole Foundations
- TL6975 San Marcos Retaining Wall
- Mobile Home Park, Flinn Springs, 14595 Old Hwy 80
- TL13810 Compliance Pole Replacement
- Inland Rail Trail Phillips Street Foundation Pole
- Escondido Perimeter Fence
- Bay Boulevard Poles
- Highway 11 Manhole M121089
Loma Alta Creek Detention Basin
Oceanside, California

Planned for extreme flood mitigations, the Loma Alta Creek Detention Basin (also called El Camino Real Detention Basin) project is located between Oceanside Boulevard and the existing San Diego Northern Railroad (SDNR) east of El Camino Real in Oceanside, California. The detention basin is bounded on the south by the existing NCTD Sprinter Wall (designed and constructed by others). Three flood walls ranging from 6 to 25 feet in height to a total of approximately 1,500 lineal feet long were constructed for the basin. Geocon performed a multi-phased geotechnical investigation and provided geotechnical recommendations for the three wall foundations and alternatives including the use of cutoff walls. Geocon also performed engineering study and analysis to evaluate the steady-state and transient seepage flow conditions and the uplift pressures beneath the planned wall footings under varying hydraulic events. In addition, Geocon provided the geotechnical engineering testing and observation services during the ongoing constructions.

As-Needed Specialized Professional Services, Geotechnical Contract, City of La Mesa
La Mesa, California

Geocon has been providing on-call services to the City of La Mesa since the contract was awarded in 2010 and we were re-awarded the contract in 2013. Over the past 7 years, we have provided a variety of services on over 25 projects. Services have included geotechnical investigations, testing and observation services during site improvements, materials testing, special inspection and consultations. Projects have included sewer improvements, street improvements, park expansions, slope repair, recreation facilities, and storm drains.

The following projects have been completed under our current contract:

- Allison Avenue Improvements
- James Property, 9375 Fortune Lane
- Collector Street Resurfacing Project
- La Mesa Boulevard Pavement Coring
- Garfield Street Storm Drain Improvements
- King Street Drainage Improvements
- Harry Griffin Park Colonnade
- La Mesa Legacy Centennial Project
- University Avenue Median Improvements
- Culowee Street Drainage Improvements
- Sewer & Storm Drain 11-02
- Massachusetts Avenue & University Avenue Improvements
- La Mesa Concrete Roadway Replacement Project
- Olive & Seneca Sewer Main Repair
- Collier Park Expansion
- Briercrest Park Slope Repair Adult Enrichment Center
- Downtown La Mesa Improvement Project
- Downtown Village Streetscape Improvement Project
- King Street Pedestrian & Bicycle Improvement Project
- Cinthia Street & Rosita Drive Pavement Observations
- Alvarado Channel Supplemental Environmental Project
- 4389 Sheldon Drive Slope Failure
- Allison and Date Avenues Parking Lot
- Sewer & Storm Drain 11-01
- Glenn Street Sidewalk
- Grossmont Center Drive Improvements
SHAWN WEEDON, GE

PROJECT MANAGER

Mr. Weedon has over 19 years of experience in the geotechnical engineering industry and his experience encompasses a wide range of projects for both public and private sector clients. His experience and knowledge of geotechnical engineering contributes to the quality of his analyses in slope stability, liquefaction, shallow and deep foundation design, lateral pile design, and pavement design. He has the reputation for providing creative geotechnical solutions on technically challenging projects and maintaining outstanding service on projects with critical schedule and budget constraints. Mr. Weedon has provided geotechnical engineering design, construction inspection and testing oversight, and project management services for numerous water infrastructure projects and is currently managing Geocon’s on-call geotechnical services contract with the Padre Dam Municipal Water District. Some of his relevant experience includes:

PADRE DAM MUNICIPAL WATER DISTRICT, ON-CALL GEOTECHNICAL ENGINEERING & CONSTRUCTION INSPECTION SERVICES, SANTÉE, CALIFORNIA

Mr. Weedon is currently the project manager of Geocon’s on-call geotechnical services contract. His responsibilities include scope of work development, staff supervision, engineering analyses and report preparation, and client coordination. He has provided project management services for nearly 20 projects including reservoirs, pump stations, and paving improvements.

WATER UTILITIES, OTAY RANCH VILLAGE 2, CHULA VISTA, CALIFORNIA

Mr. Weedon performed a geotechnical investigation and provided project management services during design and construction of an approximately 1,000-acre multi-use planned community. The community contained miles of infrastructure (including water utilities) to be developed. Mr. Weedon worked with the City of Chula Vista and the Otay Water District during construction and installation operations.

LA MEDIA ROAD WATER MAIN, CHULA VISTA, CALIFORNIA

Mr. Weedon provided consultation services during the construction of La Media Road south of Olympic Parkway in the Otay Ranch Village 6 development. The previously installed water line encroached within the planned pavement section causing the roadway to be underutilized. Mr. Weedon worked with the City of Chula Vista and the project civil engineer to develop an appropriate pavement structural section and maintain the required cover over the existing water line. During the construction and installation operations, Geocon observed the installation of reinforcement grids within the base sections to increase the strength of the thinner pavement section and provide the necessary cover on the pipe.

SUNRISE RESERVOIR UPDATES, SANTÉE, CALIFORNIA

Significant erosion has occurred adjacent to the existing reservoir that could have potentially undermined the structure. Mr. Weedon performed a geotechnical investigation and provided recommendations for a soldier pile wall and backfill to prevent additional erosion from occurring and support the reservoir.
Meadows No. 1 Pump Station Improvements, Carlsbad, California
Mr. Weedon provided geotechnical consultation services during the design and construction of manholes and a new sewer line. The Leucadia Wastewater District installed the new sewer line using directional drilling techniques. The manholes were excavated and backfilled using cut-and-cover techniques. The sewer line was placed within compacted fill and the Santiago Formation.

Venzano Pump Station, San Marcos, California:
Mr. Weedon geotechnical design recommendations during the design and construction for a pump station located within a residential subdivision. The project site contained differential fill thicknesses beneath the planned structure and retaining walls with heights of up to approximately 15 feet. To better accommodate settlement, a portion of the pump station is supported on drilled piers. We also provided geotechnical services during the installation of the drilled piers and the construction of the foundation system.

West Victoria Reservoir Updates, Alpine, California
Mr. Weedon is providing recommendations for the testing and observations services during the construction operations for the subject reservoir as part of the geotechnical on-call services contract with Padre Dam Municipal Water District. The project consists of replacing a roof structure, installing new foundations and retaining walls, and backfill testing. Due to strong rock encountered during the excavations for new foundations, Mr. Weedon was able to provide recommendations to install rock anchors and prevent costly excavations.

As-needed Geotechnical Services Contract, City of San Diego, San Diego, California
Geocon was awarded the as-needed contract in 2010. Geotechnical and environmental engineering services were provided during both the design and construction phases of projects. Services included, pipeline studies, landslide repairs, infrastructure studies and distress studies. Mr. Weedon has provided principal review on every project.

As-needed General Civil Consulting and Design Services (Geotechnical) Contract, San Diego Gas & Electric, San Diego County, California
Geocon has performed numerous geotechnical engineering services for the SDG&E On-Call contract during last two decades. Specifically, Geocon has made significant engineering inputs to the development and/or improvements of numerous power transmission lines and substations all over southern California. Mr. Weedon provided engineering analysis for the Los Coches Substation.

As-needed Specialized Professional Services, Geotechnical Contract, City of La Mesa, La Mesa, California
Mr. Weedon is currently the contract manager of Geocon’s on-call geotechnical services contract. His responsibilities include scope of work development, staff supervision, engineering analyses and report preparation, and client coordination. He has provided project management services for nearly 35 projects including recreational facilities, park improvements, streetscapes, street improvements, storm drains, roadways and educational facilities.
JOSEPH VETTEL, GE  
PRINCIPAL-IN-CHARGE, QA/QC

Mr. Vettel began his geotechnical engineering career in 1990. Since then, he has gained extensive experience throughout San Diego and the surrounding areas, primarily with public agency clients. His experience spans a wide variety of projects including pipelines, reservoirs, pump stations, foundation design of buildings, transmission towers, and ground improvement designs for marginal sites. He has also managed construction services for stone columns, soil nails, rock anchors, compaction grouting, and underpinning. Mr. Vettel has provided technical review and quality assurance and quality control (QA/QC) services for numerous water infrastructure projects and is currently providing these services for Geocon’s on-call geotechnical services contract with the Padre Dam Municipal Water District. Some of his relevant experience includes:

PADRE DAM MUNICIPAL WATER DISTRICT, ON-CALL GEOTECHNICAL ENGINEERING & CONSTRUCTION INSPECTION SERVICES, SANTEE, CALIFORNIA
Mr. Vettel is currently the QA/QC technical director of Geocon’s on-call geotechnical services contract. His responsibilities include interim project monitoring, review of draft documents, and review of final reports, plans, and drawings. He has provided technical review for services for nearly 20 projects including reservoirs, pump stations, and paving improvements.

SAN DIEGO COUNTY WATER AUTHORITY PIPELINES, SAN DIEGO COUNTY, CALIFORNIA
Geocon has provided geotechnical services to the Authority for the past 10 years. Capital improvement projects funded by the Authority during this time have included numerous large-diameter pipelines. Mr. Vettel has provided geotechnical services on Pipelines 5EII, 4BI, 5EI, and 4EII, including geotechnical investigations, review of contractor submittals, and oversight of construction inspection and testing services.

SANTA FE IRRIGATION DISTRICT, SAN DIEGUITO RESERVOIR REHABILITATION PROJECT, RANCHO SANTA FE, CALIFORNIA
The San Dieguito Reservoir Rehabilitation Project for the Santa Fe Irrigation District included the replacement of an existing wooden flume as well as upgrades to the reservoir. In addition, a second 54-inch-diameter pipeline was planned between the San Dieguito Reservoir and the R.E. Badger Treatment Plant to provide system redundancy. Mr. Vettel managed the geotechnical investigations for all three projects. Using extensive geologic mapping and reconnaissance prior to subsurface exploration, Geocon was able to excavate significantly more borings and trenches than proposed and completed the three projects under budget.

LEUCADIA WATER DISTRICT, LA COSTA GREEN TRUNK SEWER PIPE JACKING, CARLSBAD, CALIFORNIA
The project replaced approximately 5,600 lineal feet of sewer with new 12- to 16-inch-diameter sewer pipe. To limit disruption to the La Costa Country Club Golf Course, an existing tunnel, Alga Road, and adjacent residences, pipe jacking was the preferred construction method of construction. Mr. Vettel was the project manager for this pipe jacking project that included jacking under Alga Road and portions of the Golf Course.

AS – NEEDED GEOTECHNICAL SERVICES CONTRACT, CITY OF SAN DIEGO, SAN DIEGO, CALIFORNIA
Geocon was awarded the as-needed contract in 2010. Geotechnical and environmental engineering services were provided during both the design and construction phases of projects. Services included, pipeline studies, landslide repairs, infrastructure studies and distress studies. Mr. Vettel has provided quality assurance by establishing policies and systems with the Geocon organization as well as quality control on several projects reviewing final deliverables.

EXPERIENCE
28 years of experience
20 years with Geocon

EDUCATION
- MS, Civil Engineering, San Diego State University, 1990
- BS, Civil Engineering, San Diego State University, 1988

REGISTRATIONS
- CA: Geotechnical Engineer, No. 2401
- CA: Professional Engineer, No. 49827

PROFESSIONAL ORGANIZATIONS
- ASCE
- DFI
- SEAOSD
- SAME
Geocon has performed numerous geotechnical engineering services for the SDG&E on-call contract. Mr. Vettel has provided quality assurance by establishing policies and systems with the Geocon organization as well as quality control on several projects reviewing final deliverables.

"C" WATERLINE UNDER LAKE SAN MARCOS, SAN MARCOS, CALIFORNIA
Mr. Vettel performed a geotechnical investigation for the "C" waterline under Lake San Marcos. The investigation included drilling at the portals on the north and south sides of the lake, as well as barge drilling within the lake. Directional drilling was recommended to install the waterline beneath the lake. Mr. Vettel also provided consultation during the successful construction operations.

FOUR GEE ROAD PIPE JACKING, SAN DIEGO, CALIFORNIA
A new water line under Four Gee Road on approximately the alignment of former Artesia Road required installation without traffic disruption. Pipe jacking was the preferred choice. Of concern was the presence of contact between the formation materials and overlying compacted fill and groundwater conditions. Mr. Vettel was the project engineer for the geotechnical investigation.

PIPELINE 5EI, SAN MARCOS, CALIFORNIA
Pipeline 5EI is part of the second San Diego Aqueduct System. This segment of the aqueduct includes on hard rock tunnel and several soft rock tunnels. Mr. Vettel reviewed shoring, temporary bridges and tunnel portal submittals by the contractor. He also inspected these structures during construction.

PUMP STATION AT RANCHO SANTA FE GOLF CLUB, SOLANA BEACH, CALIFORNIA
A new pump station for the local water/wastewater district was designed to replace an existing undersized pump station. The deep wet well and shallow groundwater required geotechnical recommendations for excavations, dewatering, shoring, uplift, retaining wall loads and foundation criteria. Mr. Vettel performed the subsurface exploration program as was as authored the geotechnical report.

SAN DIEGO COUNTY WATER AUTHORITY (SDCWA) PIPELINE 5, SAN DIEGO, CALIFORNIA
Mr. Vettel was the project engineer for the instrumentation of a City of San Diego water main where the new San Diego County Water Authority Pipeline 5 cross under the older water main. Mr. Vettel installed and monitored strain gauges within the 5-foot-diameter concrete pipe to evaluate movement during tunneling for the new SDCWA pipeline.

SDCWA PIPELINE SE1/BRADLEY PARK, SAN MARCOS, CALIFORNIA
Capital Improvement Projects funded by the San Diego County Water Authority included Pipeline 5E1 that extends along the northern boundary of Bradley Park. The park was formerly a landfill and the geotechnical investigation of the pipeline alignment had to be conducted with this fact in mind. Mr. Vettel was the project engineer for the investigation and provided consultation during the excavation and shoring of the trench within Linda Vista Drive.
YONG WANG, GE
LEAD ENGINEER

Mr. Wang has over 27 years of experience performing and managing geotechnical engineering studies for a wide variety of projects. His experience includes planning and supervising geotechnical investigations, laboratory testing programs, and construction inspection and testing services. Mr. Wang is responsible for performing engineering analyses and has provided geotechnical recommendations for use in the design and construction of pipeline installations, roadway pavements, dams, shallow and deep foundations, bridge foundations, power pole foundations, retaining walls, and slopes. Many of the projects he has managed have received ASCE and APWA awards. Some of his relevant experience includes:

SAN DIEGO COUNTY WATER AUTHORITY, MORENO-LAKESIDE PIPELINE & BEELER STUB PIPELINE, SAN DIEGO COUNTY, CALIFORNIA

Mr. Wang performed a comprehensive geotechnical investigation, provided detailed engineering evaluations, and prepared a final design report addressing the geotechnical aspects of the project. The project included the installation of 5.7 miles of 54- to 114-inch-diameter water transmission pipeline and the construction of tunnels using pipe jacking and/or micro-tunneling techniques, pump stations and flow control facilities.

SEVEN COURT ACCELERATED SEWER, SAN DIEGO, CALIFORNIA

Mr. Wang performed a geotechnical investigation and provided recommendations for the installation of approximately 360 lineal feet of 15-inch-diameter sewer main underneath a 100-foot-high slope between Mission Valley Road and Finch Lane using pipe jacking, and/or micro-tunneling techniques.

CITY OF OCEANSIDE, LOMA ALTA CREEK DETENTION BASIN, OCEANSIDE, CALIFORNIA

The project consisted of several flood walls ranging from 6 to 25 feet in height for a total of 1,500 lineal feet long for a flood detention basin. Geocon performed a geotechnical investigation and study to evaluate steady-state, transient seepage flows, and uplift pressures under wall footings. We provided alternative design recommendations including the use of cutoff walls under design hydraulic events. Mr. Wang was the senior engineer and project manager of Geocon.

VALLECITOS WATER DISTRICT, SAN MARCOS INTERCEPTOR SEWER REPLACEMENT, SAN MARCOS, CALIFORNIA

Mr. Wang performed a detailed geotechnical investigation and provided recommendations for the design and installation of an approximately two-mile-long, 36- to 39-inch large-diameter trenched sewer pipeline and associated micro-tunneling underneath SR-78.

CITY OF SAN DIEGO AS-NEEDED GEOTECHNICAL SERVICES CONTRACT, SAN DIEGO, CALIFORNIA

Mr. Wang has been the contract manager and senior engineer for two consecutively awarded contracts with the City of San Diego. Geocon has provided geotechnical and materials testing services on over 20 task orders. Projects have included landslide evaluation, pipeline studies, utility location services, and distress mitigation.

BUCHANAN CANYON SEWER REPLACEMENT, SAN DIEGO, CALIFORNIA

The Buchanan Canyon Sewer Replacement project is located in the Hillcrest area of San Diego. The existing sewer main within the project limits extends along the north side of Washington Street between Eighth Avenue and the bridge crossing over SR-163. Geocon and our sub-consultants performed engineering services to locate, pothole, and
verify invert elevations of the existing sewer laterals. Mr. Wang was the senior engineer and project manager of Geocon.

**SAN DIEGO GAS & ELECTRIC AS-NEEDED GENERAL CIVIL CONSULTING AND DESIGN SERVICES-GEOTECHNICAL SERVICES**
Geocon has performed numerous geotechnical engineering services for the SDG&E On-Call contract during last two decades. Specifically, Geocon has made significant engineering inputs to the development and/or improvements of numerous power transmission lines and substations all over southern California. As the contract manager, Mr. Wang has coordinated hundreds of as-needed tasks and delivered geotechnical engineering services to provide geotechnical investigation, materials testing, environmental consulting, and construction testing and inspection services. He is very familiar with the standard procedure of project development and associated criteria and guidelines for each phase. His managing principals possess a depth of practical experience and expertise in the disciplines of geotechnical engineering that enable the accomplishment of each task with a reasonable budget and within the project schedule.

**FONTAINE STREET STORM DRAIN IMPROVEMENTS, SAN DIEGO, CALIFORNIA**
The project is located in the Navajo area of San Diego. The planned improvements include removing the existing 24-inch corrugated metal pipe (CMP) and replacing with a 24-inch reinforced concrete pipe (RCP). Geocon provided a representative to observe the condition of the subgrade soil in the area planned to receive the energy dissipator and provided our opinion regarding the subgrade soil condition. Mr. Wang is the senior engineer of Geocon.

**HENSELY STREET ACCELERATED SEWER, SAN DIEGO, CALIFORNIA**
Performed a geotechnical investigation and provided recommendations for installation of approximately 2,075 lineal feet of 8-inch and 15-inch diameter trenched sewer main, and construction of numerous manholes, for the City of San Diego, Engineering and Capital Projects Department.

**5TH AVENUE – WATER GROUP JOB 945, SAN DIEGO, CALIFORNIA**
The improvement consists of a proposed 16-inch-diameter water pipeline extending along the west side of 5th Avenue between Maple Street and Laurel Street, and an existing 16-inch-diameter water pipeline along the east side of 5th Avenue between Juniper Street and Laurel Street. Geocon and our sub-consultants performed engineering services to locate, pothole, and observe the depths and locations of several pipelines. Traffic control during potholing was also performed. Mr. Wang was the senior engineer and project manager of Geocon.

**MORENO-LAKESIDE PIPELINE AND BEENER STUB PIPELINE, SAN DIEGO COUNTY, CALIFORNIA**
The project includes installation of 5.7 miles of 54- to 114-inch diameter water transmission pipeline and construction of tunnels, pipe jacking and / or micro-tunneling, pump stations and flow control facilities. Moreno Valley and the adjoining portion of the San Diego River Valley, together with the adjacent highlands, comprise the regions traversed by the proposed pipeline. In general, the valley floors are underlain by thick deposits of relatively recent alluvium formed by both stream and slopewash processes. Comprehensive geotechnical investigation including seismic refraction surveys, cone penetration tests (CPT), and exploratory borings with standard penetrations tests (SPT), were performed to assist in the optimization of pipeline alignment and the detailed engineering design. The geotechnical study was completed for San Diego County Water Authority and Parsons Engineering Science. Mr. Wang was the project manager and senior engineer for the geotechnical consultant.

**LA COSTA GREEN TRUNK SEWER REPLACEMENT, CARLSBAD, CALIFORNIA**
The La Costa Green Trunk Sewer Replacement project includes approximately 5,500 lineal feet of trenched sewer and 270-feet of associated pipe jacking beneath Alga Road. The sewer alignment traverses the area of Alga Road, several single-family residences and the La Costa Resort and Spa Golf Course. Mr. Wang was the project geotechnical engineer for the Geocon team.
Mr. Love recently joined Geocon as a project engineer with over 7 years of geotechnical engineering experience throughout Southern and Northern California. He has spent the majority of that time as a project level engineer and manager for preliminary evaluations through construction stages of residential and commercial development and provided oversight of laboratory operations and field personnel. Mr. Love has the reputation for providing practical geotechnical solutions and maintaining reliable and timely consultation services for clients and design professionals. His recent professional and project experience includes:

**As – Needed Geotechnical Engineering Services Contract, Padre Dam Municipal Water District, San Diego County, California**
Mr. Love is currently the senior project engineer of Geocon’s on-call geotechnical services contract. His responsibilities include field staff supervision, engineering analyses and report preparation, and client coordination. He recently provided engineering services for the Santee Lakes Pavement Improvement project.

**City of Imperial Beach, As-Needed Specialized Professional Services, Geotechnical Engineering, Imperial Beach, California**
Mr. Love has recently assisted as a Project Engineer for Geocon’s on-call geotechnical services contract with the City of Imperial Beach. He has provided geotechnical support to City personnel and design consultants for the Elm Avenue and Citrus Avenue Roadway Improvement projects.

**As – Needed General Civil Consulting and Design Services (Geotechnical) Contract, San Diego Gas & Electric, San Diego County, California**
Geocon has performed numerous geotechnical engineering services for the SDG&E On-Call contract during last two decades. Specifically, Geocon has made significant engineering inputs to the development and/or improvements of numerous power transmission lines and substations all over southern California. Mr. Love provided engineering analysis for TL631 Group 19 Poles Z476098 & Z476100 and TL663 Reconductor project.

**City of Dana Point Public Works Departments, Contract Engineer, Dana Point, California**
Mr. Love worked as a contract engineer for the City of Dana Point between 2014 through 2015. His responsibilities included review of geotechnical reports, grading and structural plans for residential and commercial developments, and performing site inspections on behalf of the City. During that time he gained a reputation with the City employees as a knowledgeable resource for geotechnical concerns and a dependable interface between the City and the community.

**Experience**
- 7 years of experience
- 3 years with Geocon

**Education**
- BS/Civil Engineering, Cal Poly, San Luis Obispo, 2011

**Registrations**
- CA: Professional Engineer, No. 84154
- Nuclear Density Gauge

**Professional Organizations**
- ASCE
DAVID EVANS, CEG

LEAD GEOLOGIST

Mr. Evans began his engineering geology career with Geocon in 1986. Specializing in technically challenging landslide mitigation, Mr. Evans focuses on geotechnical exploration, project management, and the technical support needs of Geocon’s clients in the large master-planned community development field. He has contributed to the development of large master-planned communities throughout San Diego County including 4S Ranch, Black Mountain Ranch, Evans Point, Fanita Ranch, Scripps Northridge Business Park, and Rancho Carrillo. Having “down-hole” logged over 500 exploratory borings, most of which were in problematic geologic formations and landslides, our clients trust and have confidence in Mr. Evans’ real life “field” experience. Some of his relevant experience includes:

4S RANCH RECLAIMED WATER RESERVOIR AND WASTEWATER TREATMENT FACILITY, SAN DIEGO, CALIFORNIA

Part of the 4S master-planned development included water and wastewater infrastructure for the community. Mr. Evans managed the field investigation and construction operations for this project. He was the liaison with the California Department of Water Resources, Division of Safety of Dams (DSOD) on behalf of the client. His efforts led to acceptance of a reservoir for the DSOD permit. He also provided quality control oversight during construction of the reservoir, digester, secondary clarifiers, and appurtenances.

JOHNSON CANYON SEWER, OTAY MESA, CALIFORNIA

Mr. Evans managed a geotechnical investigation for a 2-mile-long, 18-inch sewer connecting the Otay Mesa Generating Plant with the Otay Mesa Trunk Sewer. Topographic evidence suggested the possibility of significant landslide impacts. Mr. Evans evaluated several potential geologic hazards, including landslides, and determined that they did not impact the proposed construction.

BLACK MOUNTAIN RANCH RECLAIMED WATER RESERVOIR, SAN DIEGO, CALIFORNIA

Mr. Evans managed and performed field investigation activities associated with a 1,000-acre-foot embankment reservoir and alternatives. He discovered during the site evaluation that the initial site was not suitable because of the existence of an ancient landslide complex and the presence of bedrock shear zones. His study resulted in an alternative safer site selection.

MOOSA CANYON CREEK DIVERSION STRUCTURE, BONSALL, CALIFORNIA

As the lead geologist, Mr. Evans was responsible for implementing geotechnical recommendations and confirming anticipated geologic conditions for a large diversion dike. He also confirmed grading and compaction specifications during construction.

CHICARITE CREEK SEWER MAIN, SAN DIEGO, CALIFORNIA

A new sewer main was designed and constructed to support the development of the Carmel Mountain Ranch master planned community. The new sewer generally followed the alignment of Chicarita Creek along the east side of Interstate 15 and then passed under the freeway. Geocon performed the geotechnical investigation and provided testing and observation services during construction. Mr. Evans was the staff geologist during both the design and construction phases of the project.

EXPERIENCE
33 years of experience
33 years with Geocon

EDUCATION
- BS, Geology, University of New Mexico, 1986

REGISTRATIONS
- CA: Certified Engineering Geologist, No. 1860
- CA: Professional Geologist, No. 5578

PROFESSIONAL ORGANIZATIONS
- AEG
- ASCE
- BIA
- SDAG
Mr. Haase has been with Geocon for 6 years. He has spent the majority of that time as a Field Technician performing compaction testing and field observations during site grading, trench backfill, wall backfill and paving operations. He has spent time in our soil and materials laboratory preparing and testing samples to ASTM procedures. Mr. Haase also assists with geotechnical field exploration programs. Recent experience includes:

**As – Needed General Civil Consulting and Design Services (Geotechnical) Contract, San Diego Gas & Electric, San Diego County, California**

Geocon has performed numerous geotechnical engineering services for the SDG&E on-call contract. Mr. Haase has provided laboratory testing services, field observations, geotechnical field explorations, and assisted the preparation of geotechnical investigation reports. Recent SDG&E projects he has worked on under this contract have induced the following:

- SDG&E Murray Substation Control Shelter, La Mesa
- SDG&E Bay Boulevard Substation, Chula Vista
- SDG&E San Luis Substation Expansion Project, Oceanside
- SDG&E Los Coches Substation Modification & Phase 2, Lakeside
- SDG&E Point Loma Wastewater Treatment Plan Substation Upgrade Improvements
- SDG&E Boulevard Substation to East County Substation, San Diego County

As one of Geocon’s senior laboratory technicians, Mr. Haase conducts various laboratory tests and field observations for many projects in San Diego county. His additional project experience is summarized below.

- Banning Alola Substation, Banning
- Sewer and AC Water Group Job 785, San Diego
- Downtown Village Streetscape, La Mesa
- Annual Main Line Repairs W12-201, Imperial Beach
- Otay Ranch Village, San Diego
- Black Mountain Ranch, San Diego
- Spectrum 2-Parking Structure, San Diego
- Santee Station, Santee
- The Park-2850 Sixth Avenue, San Diego
- Olive Hill, Bonsall
- Parkview at Dennery Ranch, San Diego
- Shell Building-10290 Campus Point Drive, San Diego
- Liberty Station East Hotel, San Diego
- High Tech High-Liberty Station, San Diego
- 1035 Stratford Court, Del Mar
- Rancho Cielo Estates, San Diego County
THOMAS GALAMBOS
LABORATORY MANAGER

Mr. Galambos is the laboratory manager of Geocon’s AMRL certified soils and materials testing laboratory in San Diego, which is the largest and most extensive testing laboratory of Geocon. He has 31 years of laboratory testing and field inspection experience and has been with Geocon for 32 years. As the laboratory manager, Mr. Galambos is responsible for: the hiring, training, and supervision of laboratory staff; monitoring and analyzing test results; maintaining accreditations by various certifying agencies such as the American Materials Reference Laboratory, American Association of State Highway and Transportation Officials, State of California Department of Transportation, and City of San Diego; maintaining the quality control manual; ensuring that all calibration and maintenance records are complete and accurate; and assisting with weekly billing and budget review of laboratory testing services. His experience includes:

PADRE DAM MUNICIPAL WATER DISTRICT, ON-CALL GEOTECHNICAL ENGINEERING & CONSTRUCTION INSPECTION SERVICES, SANTEE, CALIFORNIA

Mr. Galambos is the laboratory manager for Geocon’s on-call geotechnical services contract. His responsibilities include monitoring and analyzing test results, maintaining laboratory accreditations, performing laboratory testing, and assisting with weekly budget review of laboratory testing services. He has provided laboratory testing and management services for nearly 20 projects including reservoirs, pump stations, and paving improvements.

CITY OF OCEANSIDE, LOMA ALTA CREEK DETENTION BASIN, OCEANSIDE, CALIFORNIA

The project consisted of several flood walls ranging from 6 to 25 feet in height for a total of 1,500 lineal feet long for a flood detention basin. Geocon performed a geotechnical investigation and study to evaluate steady-state, transient seepage flows, and uplift pressures under wall footings. We provided alternative design recommendations including the use of cutoff walls under design hydraulic events. Mr. Galambos was the laboratory manager and provided quality control over the laboratory testing program.

LEUCADIA WATER DISTRICT, LA COSTA GREEN TRUNK SEWER PIPE JACKING, CARLSBAD, CALIFORNIA

The project replaced approximately 5,600 lineal feet of sewer with new 12- to 16-inch-diameter sewer pipe. To limit disruption to the La Costa Country Club Golf Course, an existing tunnel, Alga Road, and adjacent residences, pipe jacking was the preferred construction method of construction. Mr. Galambos was the laboratory manager during the multi-phased geotechnical investigation performed on the roadway throughout the golf course. He provided quality control over the laboratory testing services and ensured that testing was completed in accordance with the project’s schedule and budget.

AS – NEEDED GEOTECHNICAL SERVICES CONTRACT, CITY OF SAN DIEGO, SAN DIEGO, CALIFORNIA

Geocon was awarded the as-needed contract in 2010. Geotechnical and environmental engineering services were provided during both the design and construction phases of projects. Services included, pipeline studies, landslide repairs, infrastructure studies and distress studies. Mr. Galambos has provided laboratory management, laboratory staff oversight, and laboratory testing services.
Robert Mertz
Director of Field Services

Mr. Mertz has 31 years of experience with Geocon and is responsible for the general oversight of our field personnel, daily review of inspection reports, quantity calculations, and materials sampling. Since 2001, he has been certified by the International Code Council to inspect reinforced masonry and American Concrete Institute to inspect reinforced concrete. His experience includes inspection and testing services for pump house structures, retaining walls, slab foundations, cast-in-place walls, shotcrete box culverts, and tie-back walls. In addition, Mr. Mertz has extensive experience performing soils and materials laboratory testing services. His experience includes:

Vallecitos Water District, High Point Pump House, Escondido, California
Mr. Mertz performed inspection and testing of reinforced masonry during construction of the new pump house.

Rancho Santa Fe Irrigation District, Crosby Estates, San Diego, California
Mr. Mertz performed reinforced masonry and reinforced concrete inspection and testing services during construction of the pump house.

Cast-In-Place Storm Drains, San Diego & Riverside Counties, California
Mr. Mertz performed reinforced concrete inspection and testing services on 42-inch and 92-inch cast-in-place storm drains for the Scripps Ranch North project in San Diego and the Railroad Canyon project in Lake Elsinore.

Crosby Estates Pump House, San Diego, California
Mr. Mertz performed reinforced masonry and reinforced concrete inspection on the pump house for the Rancho Santa Fe Irrigation District at the Crosby Estates project in San Diego, California

High Point Pump House, Escondido, California
Mr. Mertz performed reinforced masonry inspection on pump houses for the Vallecitos Water District at the High Point project in north Escondido, California.

As – Needed Geotechnical Engineering Services Contract, Padre Dam Municipal Water District, San Diego County, California
Geocon has provided on-call geotechnical engineering services for the Padre Dam Municipal Water District (PDMWD) since July 2011, projects have included reservoirs, emergency utility breaks, utility backfill, park improvements, infrastructure improvements, pump stations, etc. Our scope of work includes specialized geotechnical studies and design, geological investigation and characterization activities, and geotechnical and materials inspection and testing services. Mr. Mertz has provided field staff management and oversight, scheduling, and testing and inspection services.

As – Needed Geotechnical Services Contract, City of San Diego, San Diego, California
Geocon was awarded the as-needed contract in 2010. Geotechnical and environmental engineering services were provided during both the design and construction phases of projects. Services included, pipeline studies, landslide repairs, infrastructure studies and distress studies. Mr. Mertz has provided field staff management and oversight, scheduling, and testing and inspection services.
JAMES ATKINSON, C.E.T.
SENIOR FIELD TECHNICIAN & INSPECTOR

Mr. Atkinson has over 22 years of professional experience performing the duties of a senior field technician including inspection and testing of: shallow foundation, deep foundation, pavement subgrades, chemical stabilization of soil, mass grading, MSE wall construction, heavy highway construction, asphalt, structural masonry and reinforced concrete construction. His recent experience includes:

**AS – NEEDED GEOTECHNICAL ENGINEERING SERVICES CONTRACT, PADRE DAM MUNICIPAL WATER DISTRICT, SAN DIEGO COUNTY, CALIFORNIA**

Geocon has provided on-call geotechnical engineering services for the Padre Dam Municipal Water District (PDMWD) since July 2011. Projects have included reservoirs, emergency utility breaks, utility backfill, park improvements, infrastructure improvements, pump stations, etc. Our scope of work includes specialized geotechnical studies and design, geological investigation and characterization activities, and geotechnical and materials inspection and testing services. As Geocon’s Senior Inspector, Mr. Atkinson provides various special inspections for many projects for Padre Dam Municipal Water District, including the following:

- Rios Canyon Pump Station No. 2
- Advanced Water Purification Demonstration Project
- Magnolia improvements
- ESA Secondary Connection Project
- Pecan Park Water Line Repair
- Mast Park Improvements
- 42-in Los Coches Reservoir Pipe
- Camino Canada Water Repair

**AS – NEEDED GENERAL CIVIL CONSULTING AND DESIGN SERVICES (GEOTECHNICAL) CONTRACT, SAN DIEGO GAS & ELECTRIC, SAN DIEGO COUNTY, CALIFORNIA**

Geocon has performed numerous geotechnical engineering services for the SDG&E on-call contract. Mr. Atkinson has provided special inspections for many of Geocon’s SDG&E projects which include the following:

- SDG&E Descanso Substation Upgrade
- SDG&E Descanso Lower Yard
- SDG&E Escondido Perimeter Fence REG 1541
- SDG&E TL663 Reconstructor
- SDG&E Bay Boulevard Substation, Chula Vista
- SDG&E Los Coches Substation Modification, Lakeside
- SDG&E Middleton Substation Transformer, San Diego
TOBEY WALKER

SENIOR FIELD TECHNICIAN / SPECIAL INSPECTOR

Mr. Walker has 12 years of experience in construction, has been certified by the International Code Council to inspect reinforced masonry, and is certified by the American Concrete Institute to test concrete since 2009. He has inspected reinforced masonry projects including residential and commercial structures and retaining walls. Reinforced concrete projects have included residential and commercial slab foundations, paving, and cast-in-place walls. Recent experience includes:

**AS – NEEDED GEOTECHNICAL ENGINEERING SERVICES CONTRACT, PADRE DAM MUNICIPAL WATER DISTRICT, SAN DIEGO COUNTY, CALIFORNIA**

Geocon has provided on-call geotechnical engineering services for the Padre Dam Municipal Water District (PDMWD) since July 2011. Projects have included reservoirs, emergency utility breaks, utility backfill, park improvements, infrastructure improvements, pump stations, etc. Our scope of work includes specialized geotechnical studies and design, geological investigation and characterization activities, and geotechnical and materials inspection and testing services. As Geocon’s Senior Inspector, Mr. Walker provides special inspections for many projects for Padre Dam Municipal Water District, including the following:

- West Victoria Reservoir Roof and Pump Station
- Santee Lakes Improvements
- ESA Secondary Connection Project
- Mast Blvd & Prospect Ave Bridges Pipeline Repairs
- Mast Park Improvements

**AS – NEEDED GENERAL CIVIL CONSULTING AND DESIGN SERVICES (GEOTECHNICAL) CONTRACT, SAN DIEGO GAS & ELECTRIC, SAN DIEGO COUNTY, CALIFORNIA**

Geocon has performed numerous geotechnical engineering services for the SDG&E on-call contract. Mr. Walker has provided special inspections for many of Geocon’s SDG&E projects which have induced the following:

- SDG&E San Luis Rey Sub - Curbs T&O
- SDG&E Vine Substation Pole Foundations
- SDG&E Wabash Substation-Access Road
- SDG&E Los Coches Sub Rebuild - Ph 2&3 Geo
- SDG&E Los Coches Ph 2 Below Grade
- SDG&E Los Coches Ph 2 Ti631 Pole Observation.
- SDG&E Los Coches Ph 2 Ti632 Pole Observation.
- SDG&E Los Coches Sub - Phase 3 Below Grade
- SDG&E - Los Coches Substation Rebuild-Ph. 4
- SDG&E - Lincoln Substation Drainage Repair
- SDG&E - Pt Loma Substation Rebuild Phase 2
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SWEETWATER AUTHORITY
Engineering Department
505 Garrett Avenue
Chula Vista, California 91910

Attention: Mr. Luis Valdez, Engineering Manager | lvaldez@sweetwater.org

Response to Request for Proposal
STATEMENT OF QUALIFICATIONS

ON-CALL TIME AND MATERIALS GEOTECHNICAL ENGINEERING & TESTING SERVICES
Time & Materials Contract, Geotechnical Services - 2020

Debbie Brock, Project Manager
Stephen Coover, P.E., G.E., Principal Geotechnical Engineer & Project Manager
MTGL, INC | 6295 FERRIS SQUARE, SUITE C, SAN DIEGO, CALIFORNIA 92121
O: 858.537.3999 | F: 858.537.3990 | C: 949-637-1414

“Providing Value in Quality”
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July 1, 2020

Mr. Luis Valdez  
Sweetwater Authority  
505 Garrett Avenue  
Chula Vista, California 91910

Via E-Mail: lvaldez@sweetwater.org

Subject: Response to Request for Proposals  
Sweetwater Authority  
On-Call Time & Materials Geotechnical Engineering & Testing Services  
Time & Materials Contract, Geotechnical Services - 2020

MTGL, Inc., appreciates this opportunity to submit our Statement of Qualifications in response to your Request for Proposal. MTGL is very interested in being part of your team, helping to ensure your construction quality goals are met. Our staff has the capabilities and proven track record of providing geotechnical engineering, special inspection, materials testing, environmental services. Over the years, MTGL has successfully provided our service in San Diego to Otay Water District, Santa Fe Irrigation District, Helix Water District, San Diego County Water Authority, and Metropolitan Water District.

Established 26 years ago, MTGL continues to be a certified WBE, MBE, SBE and DBE firm under CUCP 33843, and registered as a public works contractor with the State of California under DIR 1000006646. MTGL has a clear understanding of Safety Compliance on all projects, with policies in place that provided a desirable EMR Rating of 0.68 for 2019. MTGL is insured to $10 Million and can meet Sweetwater Authority insurance requirements.

MTGL offices in San Diego, Anaheim, and Riverside are fully staffed with 77 full-time employees. Our laboratories operate in strict accordance with ISO 17025 and are certified by CCRL, ASTM/AASHTO, Caltrans and USACE, OSHPD, and DSA. We are 1 of 12 test companies on the Caltrans authorized laboratory list, and we are one of few facilities that provides testing services for materials that use the latest methods of analysis adopted by Caltrans (Hot Mix Asphalt via Superpave and Smoothness Testing via an Inertial Profiler).

We shall provide geotechnical engineering (soils), special construction inspection & materials testing services as requested to fulfill contract compliance on-call basis scheduled by Sweetwater Authority representative. Our inspectors and technicians are experienced and multi-certified to reduce cost, enhance communication and administration support, providing a greater value for quality oversight in overlapping disciplines, and to provide the continuity needed to successfully execute this project. Our engineers are registered in the State of California. They are the primary contact for all the technical questions for the Sweetwater Authority projects.

The Sweetwater Authority’s On-Call contract supports projects in their service identified in vicinity map provide in RFP. We understand the projects are the Sweetwater Reservoir lands and dam, the Robert A. Perdue Water Treatment Plant, the Richard A. Reynolds Desalination Facility, and Loveland Reservoir lands and dam. MTGL will provide service to these area from our San Diego office located at 6295 Ferris Square, San Diego, CA 92121, less than 25 miles away from the Authority and project locations. We are available and will respond within a 24-hour notice.
MTGL thoroughly reviewed all the contents outlined in the RFQ, and Addendum No. 1 dated June 26, 2020 and we fully understand its intent. MTGL is willing to enter into an agreement under the terms and conditions for the Authority’s Professional Services Agreement without exception. We received and incorporated the information from Addendum No. 1 into our proposal. As requested, our Statement of Qualifications and Hourly/Unit Rate Schedule proposal will be honored for duration of 90-days.

MTGL provided our Hourly & Unit Rate Schedule under a separate proposal. The rates provided at Prevailing Wage rates and are effective through July 1, 2021.

MTGL does not have any existing or past financial relationship between your firm or proposed sub-consultants with current members of the Authority’s Governing Board and Staff, and entities for which said members are employed, or have an interest, both present or past.

MTGL will invoice each project at the Authority separately. Our invoices include full back-up for documentation reports for transparency. MTGL’s monthly invoice is accompanied by a running total of the contract balance tracking budget and progress from month to month. Authorized signatures are required for each inspection report on site by Authority’s representative.

MTGL is integrating a cloud based, real time reporting system to allow off site monitoring of presence. A GPS tracker identifies when the inspector is on site to record time. Real time reports can be obtained anytime throughout the day by our clients. Inspectors will use I-pads, or computers for communications as well as plans and specs for our inspections.

Ms. Debbie Brock will serve as your Project Manager/Coordinator. She will be responsible for coordinating the project team’s efforts, ensuring reliability, responsiveness, communication within MTGL and extended out to your staff at Sweetwater Authority.

Debbie along with the rest of the project team will work closely with MTGL’s San Diego branch under the direction and Project Management of our Civil Engineer, Principal Geotechnical Engineer, Stephen Coover, P.E., G.E. Debbie and Steve are both authorized to represent and contractually bind our firm.

It is my hope we provided you a complete, well qualified and cost-efficient proposal. Please contact me with any questions at dbrock@mtglinc.com, or office (858) 537-3999 x3115, or cell phone (949) 637-1414.

Warmest regards,
MTGL, Inc.

Debbie Brock
Project Manager/Coordinator

Stephen Coover, P.E., G.E.
Principal Geotechnical Engineer & Project Manger
MTGL, Inc. is incorporated under the laws of the State of California and has been in business since 1993. With a staff of over 77 Engineers, Inspectors, Technicians and support staff, MTGL can provide services throughout Southern California.

MTGL has extensive experience in providing materials testing, special inspection and laboratory services to numerous municipalities, agencies, school districts and contractors throughout Southern California.

MTGL is an SBE (LA Metro 1199/DGS 1758925), Minority and Women Owned Business Enterprise (M/WBE), and DIR #1000006646.

Our laboratories are certified by the Division of the State Architect for Title 24, OSHPD, ISO 170 CCRL, AASHTO/AMRL, the U.S. Army Corps of Engineers, the City of San Diego, the County of San Diego, and Caltrans.

LOCAL FIRM – MTGL’s San Diego office at 6295 Ferris Square, Suite C, San Diego, California 92121 is a fully certified laboratory. We have local staff to assist for short response times when needed. We have well established multi-jurisdictional relationships with key agencies tasked to Public Works projects, which affords seamless project management delivery to our clients.

FACILITIES - MTGL is a fully certified by numerous agencies to provide Materials Testing, Inspection, and Geotechnical Engineering services. Our testing laboratories are fully certified and can provide virtually any tests required.

Certifications Include:
- ISO/IEC 17025 Certified
- DSA LEA #198
- ASTM D3666, E329, E543, and E548 (higher degree of traceability is required for these Standards)
- AASHTO Materials Reference Laboratory (AMRL)
- Cement and Concrete Reference Laboratory (CCRL)
- US Army Corps of Engineer (USACE)
- Caltrans for Source Materials – 1 of 12 Laboratories in California; Caltrans DBE – Superpave Certified for Hot Mix Asphalt 25%

INSURANCE - MTGL maintains a $10 Million insurance policy well above industry standard, from a licensed insurance company throughout a contract period. We can meet Sweetwater Authority insurance needs.
SAFETY - MTGL has been providing Materials Testing Services for Public Agencies and Municipalities for more than 26 years. MTGL has a company policy for Annual Driver Safety as well as a requirement for annual certification in Transportation of Nuclear Devices. MTGL has a clear understanding of Safety Compliance on projects and has policies in place that have provided a desirable 2019 EMR rating of 0.68. MTGL is also proficient with the labor and reporting responsibilities.

MATERIALS TESTING CAPABILITIES – MTGL, as an independent party can validate and verify the compliance of all quality standards and code regulation. MTGL furnishes field, site, and plant inspection at the source for construction materials. We conduct physical testing on materials that are placed during these inspections. Within a team framework, MTGL provides our clients with confidence that is essential for on-call services provided to successfully complete their construction projects on time. Plant inspection personnel that routinely travel to shop locations are certified for Ultrasonic / Magnetic Particle and AWS Visual Inspection.

PERSONNEL EXPERIENCE/QUALIFICATIONS/ORGANIZATION CHART
MTGL has a qualified, team of Engineers, Geologists, Inspectors, Technicians and Support Staff who can provide adequate coverage to handle virtually any project. Our project team of professionals and inspection staff is provided in the Firm Staff Capabilities & Proposed Team section of this proposal.
Our approach to performing geotechnical services begins with an evaluation of the project’s needs. For a new project, we consider at what stage the design development has progressed to. For example, preliminary studies might require only evaluation of geologic hazards and geotechnical design challenges, to facilitate ranking of several sites under consideration. After a site is selected for the project, more extensive site work, including exploration, laboratory testing and design-level analysis and design recommendations, is performed.

For a design-level study, our approach is as follows:

- Review of geologic hazard literature such as fault mapping, mapping of liquefaction-susceptible areas, review of geologic maps, review of aerial photographs;
- Review of available geotechnical reports prepared for the site or nearby sites;
- Geologic site reconnaissance to view conditions such as evidence of slope instability, bluff retreat, etc.
- If possible, geotechnical site reconnaissance to look for evidence of distress to existing structures on or adjacent to the site;
- Subsurface exploration including drilling of borings, performing cone penetrometer (CPT) tests, and obtaining samples of subsurface materials. Large-diameter borings are performed, where warranted, to explore for features such as failure surfaces and shear zones indicating the possible presence of landslides.
- Laboratory testing of samples obtained from the explorations. Testing can include classification, and evaluation of shear strength, expansion potential, corrosion potential and collapse potential;
- Geotechnical and geologic analysis of the data developed;
- Preparation of a written report presenting the data developed, analysis performed, subsurface profiles of conditions encountered, and recommendations for design and construction.
FIRM STAFF CAPABILITIES & PROPOSED TEAM

As illustrated in the Authority’s vicinity map, the Authority covers an expansive area. MTGL assigned a qualified team of professionals to provide on-call services for geotechnical (soils), construction inspection and materials testing. Our project team will be available for the duration of the Authority’s contract.

We understand the Authority’s need for personnel consistency. MTGL allocated a team of 2 Principal Geotechnical Engineers, a Geologist, a Staff Engineer, and 4 inspectors who are multi-licensed and capable of successful completing the scope of work outlined in your RFQ/P. It is our experience that allocating a specific team creates consistency, efficiency, contract budget control along with streamlined communications with the Authority and its representatives. Once approved, this team will not be removed or replaced without the prior written concurrence of the Authority. MTGL is fully staffed with 77 employees in our firm who will be provided as support.

We understand the Authority requires a response time of 24-hour during the consultant’s contract. MTGL’s proposed team is local to San Diego allowing last minute scheduling requests to be supported. In addition to our proposed team, MTGL has allocated additional support inspector and technician to ensure adequate staffing for concurrent running projects within Sweetwater Authority.

MTGL utilizes a Project Manager as an “one point of contact” to the Authority to streamline communications. The Project Manager reviews contract rates, budgets, and invoices monthly communicating this information to the Authority ensuring contract budget control. The Project Manager acts as a liaison between MTGL Team and Authority’s team. Any changes in procedures, processes, rates, fees as it relates to the Authority will be coordinated by the Project Manager. The Project Manager will work closely with our Fields Operation Manager concerning any potential personnel changes. The proposed inspector and/or technician change would be communicated directly to the Authority. No changes will be made unless the Authority approves such change. If a personnel change is not approved, MTGL will integrally resolve the change needed and maintain inspector consistency.

Our Fields Operation Manager along with our Central Dispatch Team will ensure the approved Authority team of inspectors and technicians are scheduled. The approved multi-licensed inspector will be utilized to inspect various disciplines while on site, if inspection coverage is not too thin, and possible. MTGL has found this approach to support the Authority in reducing budget and producing cost saving the Authority.

Our in-house materials laboratory is staffed with full-time personnel and a Laboratory Manager, John Hutalla. John brings to MTGL and the Authority years of experience with hands on accurate materials testing. He is an expert in Laboratory Management ensuring our laboratory remains current on all our certifications. He manages the flow and custodial control of all materials in our laboratory while he ensures staff is available to support early morning or weekend testing. John’s resume and certifications can be found in Resume Section of our proposal.
MTGL has assigned a qualified team of professionals, inspectors, technicians, and support staff to provide services to Sweetwater Authority with value driven quality services. MTGL’s project team are full-time employees and they will be available for the duration of the On-Call Contract.

### Key Personnel

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<tr>
<th>Titles</th>
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<tr>
<td>Stephen Coover, P.E., G.E.</td>
<td>Principal Engineer</td>
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<tr>
<td>Bruce Hick, P.E., G.E.</td>
<td>Principal Engineer</td>
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<tr>
<td>Peter Anderson</td>
<td>Principal Geologist</td>
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<tr>
<td>Frank Melo.</td>
<td>Staff Engineer</td>
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<tr>
<td>John Hutalla</td>
<td>Laboratory Manager</td>
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<tr>
<td>Benjamin Warren</td>
<td>Special Inspector/Field Technician</td>
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<tr>
<td>Darlino Ebuengan</td>
<td>Special Inspector/Field Technician</td>
</tr>
<tr>
<td>Derek Tipps</td>
<td>Special Inspector/Field Technician</td>
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Listed below are MTGL’s proposed key personnel that will be assigned to the District. Specific resumes with licenses and certifications can be found in Resume section of our proposal.


Steve’s responsibilities will be to supervise and manage all field and laboratory testing services. He will be responsible for ensuring compliance with construction documents and applicable codes and regulations. He will review all laboratory testing procedures, test results, and daily reports prior to distribution. He is the authorized signatory for all the reports provided to the Authority. Our other Principal Engineers will provide support in reviewing our field and laboratory testing services ensuring compliance with construction documents and applicable codes and regulations. Mr. Coover is the primary point of contact for the Authority.

**Debbie Brock | Project Manager/Coordinator**

She will be the Project Manager/Coordinator. She will coordinate and communicate with the Authority’s Representatives regarding progress and overall MTGL team activities. She will oversee all the contracts, MTGL’s accounting and billing procedures for accuracy and completeness.

**John Hutalla | Operations-Laboratory Manager**

He will be responsible for all aspects of the laboratory material testing services for each project. He will ensure that all samples are received properly and prepared and tested in accordance with the project requirements.

**Special Inspectors**

MTGL has the capabilities and staff resources to fulfill all the requirements for the project scope of work. If needed, MTGL will provide subconsultants if the project requires related services that are outside of our fee schedule, with all subconsultants being pre-approved.

**Field Technicians**

MTGL field staff are trained in accordance with accepted standard test methods and procedures. They conduct field tests of soil properties (moisture/density tests on subgrade, aggregate base, asphalt concrete, fill placement and they compaction). They prepare reports of all on-site activities daily.
ORGANIZATIONAL CHART

The chart below illustrates our staff that would be assigned to provide services to the Sweetwater Authority.

SWEETWATER AUTHORITY
Providing safe, reliable water

ON-CALL TIME & MATERIAL GEOTECHNICAL ENGINEERING & TESTING SERVICES
2020 GEOTECHNICAL SERVICES

PRINCIPAL GEOTECHNICAL & ENGINEER PROJECT MANAGER
STEPHEN COOVER, P.E., G.E.

GEOLOGIST
PETER ANDERSON, R.E., C.E.G.

GREGG, DRILLING LLC
BRIAN SAVELA

PROJECT ENGINEER
FRANK MELO

LABORATORY MANAGER
JOHN HUTALLA

LABORATORY TECHNICIAN

FIELD TECHNICIANS
Please See Inspector/Technician Matrix

PRINCIPAL GEOTECHNICAL ENGINEER
BRUCE HICK, P.E., G.E.

ENVIRONMENTAL MANAGER
CARL TUCKER, CAC, LIA

"Providing Value in Quality Services"
MTGL provided geotechnical investigation services as a Subconsultant for the following projects.

- **Avocado Sewer Flow Control Vault**
  *Project Manager:* Mr. Daniel Kay, P.E. Associate Engineer
  *(619) 670-2248 email: KevinC@otaywater.gov*
  *Project Task Order Cost:* $6,030
  *Description of Task Order:* Geotechnical Investigation for the Flow Control Vault for the Avocado Sewer Replacement.
  *Project Scope:* MTGL provided a traffic control plan, two (2) boring investigations drilled at depths of 22 and 25 feet. Laboratory testing of samples. Geotechnical engineering review of data and engineering recommendations and preparation of report summarizing our findings and recommendations.

- **Ralph W. Chapman Water Recycling Facility; Proposed Filter Backwash Blower Building**
  *Project Manager:* Mr. Daniel Kay, P.E. Associate Engineer
  *(619) 670-2248 email: KevinC@otaywater.gov*
  *Project Task Order Cost:* $8,470
  *Description of Task Order:* Geotechnical Investigation for the proposed Filter Backwash Blower Building.
  *Project Scope:* MTGL provided three (3) boring investigations drilled at depths of 31, 20 and 13 feet. Laboratory testing of samples. Geotechnical engineering review of data and engineering recommendations and preparation of report summarizing our findings and recommendations.

- **30” Steel Water Main Hunte Parkway**
  *Project Manager:* Mr. Gary Silverman, P.E. Senior Civil Engineer
  *(619) 670-2725 email: Gary.Silverman@otaywater.gov*
  *Project Task Order Cost:* $6,960
  *Description of Task Order:* Geotechnical Investigation for the proposed 30” diameter steel pipe Water Main on Hunte Parkway.
  *Project Scope:* MTGL provided a Traffic Control Plan, provided three (3) boring investigations drilled at depths of 10, 10 and 10 feet. Laboratory testing of samples. Geotechnical engineering review of data and engineering recommendations and preparation of report summarizing our findings and recommendations.
• Geotechnical Investigation for Challenge / Louisa Sewer
Project Manager: Mr. Kevin Cameron
(619) 670-2248 email: KevinC@otaywater.gov
Project Task Order Cost: $8,430
Description of Task Order: Perform two (2) test borings to a minimum depth of 12 feet on Challenge Boulevard and 20 feet on Louisa Drive.
Project Scope: MTGL provided a traffic control plan, provided 2 boring investigations drilled at depths of 15 and 20-feet. Laboratory testing of samples. Geotechnical engineering review of data and engineering recommendations and preparation of report summarizing our findings and recommendations.

• Coring and Testing AC Along 36-inch Pipeline Alignment
Project Manager: Mr. Daniel Kay, P.E. Associate Engineer
(619) 670-2247 email: Daniel.Kay@otaywater.gov
Project Task Order Cost: $23,175
Description of Task Order: Destruction of five (5) monitoring wells
Project Scope: MTGL provided in accordance with the County of San Diego SAM Manual, a well destruction report from 5 Monitoring Wells. The wells were previously installed by others in support of the Otay Water District Pipeline Project.

• Geotechnical Investigation for CIP P2504 Regulatory Site Access Road
Project Manager: Mr. Kevin Cameron
(619) 670-2248 email: KevinC@otaywater.gov
Project Task Order Cost: $6,130
Description of Task Order: Perform two (2) test borings to a minimum depth of 10-feet near OWD's Regulatory Site
Project Scope: MTGL provided two (2) borings investigations drilled at depths of 10-feet. Laborat testing of select soil samples. Geotechnical engineering review of data and engineer recommendations and preparation of report summarizing our findings and recommendations.
The project will replace the existing 870-1 High-Head and 571-1 Low-Head Pump Stations with a new pump station, including new recirculating pumps with chlorination injection capabilities.

The project will remove and replace the existing 571-1 Reservoir liner and cover with a new liner and cover and install new inlet/outlet piping for the reservoir.

571-1 Reservoir Capacity: 36.7 million gallons.

MTGL is performing special inspection and materials testing services during construction. MTGL’s services include observation and testing of earthwork and pavement construction, utility installation, observation and sampling of concrete placement, and laboratory testing of soil, asphalt and concrete.
The South Bay International Plant is a 25 million gallon per day secondary treatment facility that treats waste water from Tijuana and discharges it through an ocean outfall.

MTGL performed special inspection and materials testing services during construction. MTGL’s services included observation and testing of earthwork and pavement construction, utility installation, observation and sampling of concrete placement, and laboratory testing of soil, asphalt and concrete.
Owner:
Otay Water District
2554 Sweetwater Springs Boulevard
Spring Valley, CA 91978

Contractor:
Pacific Hydrotech Corporation
314 East 3rd Street
Perris, California 92570

Contact:
Mr. Jeff Baxter
(951) 830-9960

Total Cost:
$30 Million

The 640-1 and 640-2 reservoirs project consisted of the installation of 3,600 linear feet of 42-inch diameter pipeline, two 10 MG drinking water reservoirs, the demolition of an existing 1.6 MG reservoir, and the paving of an access road leading to the site.

The reservoirs, located near the intersection of Jamacha and Campo Roads in San Diego County, are partially buried in order to minimize the visual impact to nearby residents of Rancho San Diego.

MTGL provided the Geotechnical, Materials Inspection and Laboratory Testing Services for the 640-1 and 640-2 Reservoirs including soils testing during construction, concrete, masonry and welding, as well as structural steel testing and inspection.
The project consisted of replacing approximately 3,500 linear feet of existing water main with new 12” PVC water main pipeline.

During construction a temporary highline pipe was utilized to maintain service to all existing connections with minimal service interruption. Traffic control, trench resurfacing and site restoration was also included in the project.

MTGL provided all the geotechnical testing and observation. Testing included soil backfill and compaction inspection services with maximum density curves on this project.
MTGL provided soils testing services during construction to the following projects:

**Pipeline Project #4004; Chris McRae – 619.667.6277**
- Vista Way
- Crestview Drive
- Challenge Boulevard
- Lariat Lane
- Alta Mira Drive
- Calavo Drive
- Rancho Road
- Louisa Drive
- Avocado Boulevard

**Pipeline Project #4004; Scott Hamren**
- Lemon Grove Way
- Grove Street
- Broadway
- Lemon Grove Way
- Quarry Road

**Pipeline Project #3862; Chris McRae**
- Alley #1 Acacia Ave. to Nebo Dr.
- Alley #2 Lemon Ave. to Fresno Ave.
- Alley #3 Lemon Ave. to Pasadena Ave.

**Pipeline Project #4439; Darrel Williams**
- South Magnolia Avenue

**Operations Department**

**Pipeline Project #4439; Jim Tomasulo**
- Chase Avenue at Magnolia

**CLIENT:**
City of La Mesa
8180 Allison Avenue
La Mesa, CA 91941

**Pipeline Project #3862; Hamed Hashemian**
- Subsurface Investigation
- Center Dr. between Jackson and Timikin
SAN VICENTE PIPELINE 3 AND 4

The Pipeline 3 and Pipeline 4 projects consist of rehabilitating and extending the life of aging water delivery pipelines.

The relining process involves inserting steel lining into existing pipelines reinforcing the pipes to help prevent water leaks and pipeline breaks.

MTGL provided soils testing, ultrasonic testing and liquid penetrant testing inspection services during construction.
Owner:
San Diego County Water Authority
4677 Overland Avenue
San Diego, CA 92123-1233
(858) 522-6790

Client:
Erreca’s, Inc.
12570 Highway 67
Lakeside, CA 92040

Contact:
Mr. Broc Wilde
(619) 390-6400

Construction Schedule:
September 2008 – 2009

SAN VICENTE INTERCONNECT PIPELINE

This project connected the San Vicente Reservoir to the San Vicente Pumping Facilities. Fifteen hundred feet of pipe were used to build the Interconnect Pipeline.

MTGL rock density testing and electrical isolation testing to prove that the pipe is sufficiently electrically isolated from the rebar.
The Robert A. Skinner Water Treatment Plant Oxidation Retrofit Program & Washwater Reclamation Plant No. 3 project consisted of performing all work necessary to retrofit the plant. The retrofit enables the Water Treatment Plant to treat water with an oxygen/ozone system. This project also entailed the construction of a new washwater reclamation plant, along with construction improvements to Washwater Reclamation Plant No. 2.

The work performed included the construction of buildings, water treatment structures, the washwater reclamation plant, chemical/liquid oxygen facilities, a cooling water pump station, a power substation and a switch gear building. Additionally, the installation of yard conduits and piping along with the modifying of plant utilities was also addressed. Rounding out the scope of the project was the installation of MWD-furnished equipment such as fabricated steel pipe and fittings, liquid oxygen tanks and vaporizers, ozone generators and related systems, gates and valves, and all other accessories, appurtenances and work.

MTGL provided the Geotechnical, Materials Inspection and Laboratory Testing Services for this project. This included soil testing during construction as well as testing and inspection for concrete, welding and structural steel.
EXHIBIT B

TIME AND MATERIALS CONTRACT
(PROFESSIONAL GEOTECHNICAL SERVICES)
STATEMENT OF CONSULTANT’S QUALIFICATIONS

1. Name of company: MTGL, Inc.
2. Business address: 6255 Ferris Square, Suite C, San Diego, CA 92121
3. When organized: 1993
4. Where incorporated: Anaheim, CA
5. Length of time the company has been in business in San Diego County: 26 years
6. How many years has the company engaged in business under the present company name? 26 years
7. Brief company history: MTGL was formed in 1993 by a group of seasoned professionals. MTGL is incorporated under the laws of the State of California and has been in business since 1993. In addition to our headquarters located in Anaheim, we have offices in the cities of San Diego, Riverside and Indio. With a staff of over 80 Engineers, Inspectors, Technicians and support staff, MTGL, Inc. can provide services throughout Southern California.
8. List all applicable references, primarily from other public agencies that the company has had as clients: 1) Otay Water District 2) Pacific Hydrotech Corporation 3) Santa Fe Irrigation District 4) Helix Water District 5) San Diego County Water Authority 6) Metropolitan Water District 7) Lakeside Water District 8) Encina Wastewater Operations Maintenance Facilities 9) Halix Water District 10) Joint Water Pollution Control Plant 11) Pomona Water Reclamation Plant 12) Valencia Water Reclamation Plant 13) Robert A. Skinner Water Treatment Plant 14) San Vicente Marina Districts
9. Contracts in progress with current completion schedule (percent of work remaining) and contract amount:
   See Project Reference Section
10. List projects completed for Sweetwater Authority in the past five years: None
11. Has the company ever failed to complete any awarded work? No
    If so, please explain: N/A
12. Has the company ever defaulted on a contract? No
    If so, where and why: N/A
13. Experience in consulting work similar in scope to this professional geotechnical services project:
    See Project Reference Section
14. List names, background, and experience of the principal members of your personnel, including the officers:
    See Firm Staff Capabilities & Proposed Team and Resume Section

1 of 2

Exhibit B
EXHIBIT B

TIME AND MATERIALS CONTRACT
(PROFESSIONAL GEOTECHNICAL SERVICES)
STATEMENT OF CONSULTANT’S QUALIFICATIONS

15. List related project experience with names of assigned personnel:
   See Technical Approach Section

16. Résumés of all related personnel to be assigned to the Authority’s work.
17. Total number of employees: 77
18. How many office personnel: 19
19. Statement of approach and understanding of the on-call services required under this contract, with key personnel listed:
   See Technical Approach Section
20. At any time during the last five (5) years, has your company, or any of its owners or officers been convicted of a crime involving the awarding of a contract of a government construction project, or the bidding or performance of a government contract?
   Yes ☐ or No ☒
21. In the past five (5) years, has any insurance carrier, for any form of insurance, refused to renew the insurance policy for your company? Yes ☐ or No ☒ If the answer is “Yes,” explain on a separate signed page, the name of the insurance carrier, the form of insurance and the year of the refusal.

22. Reference Number 1
   District or Entity: Dudek & Associates
   Phone No.: (619) 980-7048
   Address: 605 3rd Street Encinitas, CA 92024
   Name of Contact: George Litzinger
   Scope of Work: Geotechnical, Inspection and Materials Testing
   Dollar Amount: $8.2 Million

Reference Number 2
   District or Entity: Metropolitan Water District of Southern California c/o AECOM
   Phone No.: (213) 217-7229 / (714) 567-2400 (AECOM)
   Address:
   Name of Contact: Yolanda Casillas (MWS) / Chris Mockus (AECOM)
   Scope of Work: Geotechnical, Inspection and Materials Testing
   Dollar Amount: $75,000

Reference Number 3
   District or Entity: Otay Water District
   Phone No.: (951) 830-9960
   Address: 2554 Sweetwater Springs Blvd, Sperng Valley, CA 91973
   Name of Contact: Jeff Baxter
   Scope of Work: Geotechnical, Inspection and Materials Testing
   Dollar Amount: $30 Million
RESUMES

STEPHEN J. COOVER, PE, GE
GEOTECHNICAL AND PRINCIPAL ENGINEER

EDUCATION
B.S. Civil Engineering, University of Washington, WA
M.S. Civil Engineering, University of Washington, WA

CERTIFICATIONS /REGISTRATIONS
State of California Registered Geotechnical Engineer, GE #2057
State of California Registered Civil Engineer, CE #41404

PROFESSIONAL SUMMARY
Stephen Coover has over 30 years of experience in geotechnical engineering consulting. Project experience includes residential tract development, commercial, industrial, public works and education projects. Projects include deep foundations, soil improvement, tailing and water storage dams, landslide mitigation, street and airport pavements, including preparation of pavement service life evaluations and maintenance programs, and water and sewer pipelines. Projects are in located Southern California, the Pacific Northwest, Southeast Alaska, and the Rocky Mountain Region, Florida, British Columbia and Sonora, Mexico.

AREAS OF PRACTICE:
- Geotechnical Engineering – Design and Construction
- Material Testing
- Special Inspection Oversight
- Geotechnical Instrumentation
- Program / Branch Management
- Deficiency Analysis

PROJECT EXPERIENCE
870-2 Pump Station Replacement
Performing technical oversight of geotechnical observation and testing of earthwork and materials testing construction for this new pump station project. The project includes new recirculating pumps with chlorination injection capabilities.

Microtunnel Crossing Under Interstate 5, Santa Clarita
Directed a geotechnical investigation for the design of a microtunnel undercrossing of Interstate Highway 5. The proposed sewer crossing is under a major highway and beneath petroleum pipelines. Construction would involve advancing a pipe casing between two launch pits.

Microtunnel Crossing Under Interstate 405, Santa Monica
Directed a geotechnical investigation for the design of a microtunnel undercrossing of Interstate Highway 405, a major transportation corridor. Construction would involve advancing a pipe casing between two launch pits.

Stormwater Retention Pond, Stevenson Ranch Development, Santa Clarita
Provided geotechnical parameters for design of an earth dam structure and retention pond for stormwater runoff from a large residential and commercial development. The project included interacting with the Division of Safety of Dams of the State of California, which had purview of the design of the project.

City of Lynnwood Sewage Treatment Plant, Edmonds, Washington
Performed construction observations and a subsurface investigation to verify enhancement of soft soils beneath a proposed settlement basin, using stone columns. Standard penetration tests (SPTs) demonstrated the densification of settlement-prone soils after installation of stone columns placed by vibro-replacement methods.

Water Storage Dams, Proposed Oil Shale Mining and Processing Sites, Western Colorado
Performed geotechnical, including earth dam design, for storage dams for raw water supply to proposed oil shale projects near Anvil Points, Grand Valley and Meeker, Colorado.

BRUCE A. HICK, P.E., G.E.
PRINCIPAL AND GEOTECHNICAL ENGINEER

EDUCATION
B.S. Civil Engineering, University of Cincinnati, Cincinnati, OH
M.S. Civil Engineering (Geotechnical Engineering), University of Cincinnati, Cincinnati, OH

CERTIFICATIONS / REGISTRATIONS
State of California Registered Civil Engineer, CE #45784
State of California Registered Geotechnical Engineer, GE #2284

PROFESSIONAL SUMMARY
Bruce A. Hick has over 30+ years of experience as a Geotechnical Engineer providing services across the entire spectrum of Geotechnical Engineering. He has managed geotechnical engineering and earthwork operations for a variety of projects that include educational facilities, recreational facilities, hospitals, mass grading developments, landfills, commercial facilities, stadiums, towers, structures, and wastewater facilities.

Mr. Hick’s extensive experience and wide knowledge base includes geotechnical investigations, specialty pile design, seismic hazard mitigation, resource evaluation and characterization, slope stability analysis, settlement analysis, seepage analysis, performance testing, post construction stability analysis, distress mapping and characterization. His geotechnical construction experience includes specification review and augmentation, earthwork related remediation, deep pile inspection, CIDH inspection, observation of ground improvement construction, and regulatory agency compliance.

As a Managing Engineer, Mr. Hick has vast experience with devising and administering geotechnical investigation programs. He has been responsible for the technical accuracy, organization, and presentation of a wide variety of technical data and professional recommendations. He has been the professional signatory on hundreds of geotechnical reports, submittals, memo, directives, construction procedures, work statements, and various other documents requiring a professional geotechnical opinion/analysis. He has managed a staff of up to 35 professionals, providing an array of geotechnical and professional engineering services across Southern California.

Mr. Bruce A. Hick is also an experienced quality assurance provider and construction engineering administrator. He has overseen geotechnical testing and inspection services for several projects with construction budgets of up to $100 - $200 Million. His expertise in quality administration extends to projects administered through: DSA, FAA, FHWA, USBR, USACE, Greenbook, OSHPD, and various other city, governments, and local regulatory agencies.

- City of Riverside Harvey Lynn Substation Geotechnical Investigation
- City of Menifee – Slurry Seal Testing Project
- Juniper and Sierra Grade – Fontana, CA
- City of Lancaster – Avenue I, 50th Street East (Sub-Pavement Remediation Strategy Analysis)
- City of Palmdale – Avenue S, California State Highway 14 (Antelope Valley Freeway) to 20th Street East (Subbase Characterization and Pavement Design)
Peter G. Anderson has over 14 years of professional geologic consulting experience throughout southern California. His geotechnical role on land development projects includes feasibility studies, due diligence, environmental impact reports, preliminary investigations, grading plan reviews, landslide and slope stability evaluation and mitigation, specific design studies, seismic risk and fault hazard analysis, percolation testing, groundwater modeling and liquefaction studies and mitigation for residential, commercial, retail and public projects. He has taken part in numerous geotechnical projects from the design phase through grading and construction.

Mr. Anderson has experience working under the review of numerous cities, counties, the State of California and with public agencies such as local water districts, school districts and Southern California Edison.

M.S. Geological Sciences, University of California, Santa Barbara
B.A. Geology, The Colorado College, Colorado

State of California Registered Professional Geologist, PG #8804
State of California Certified Engineering Geologist, CEG #2596
Green Building Certification Institute, GBCI #10442549 (LEED AP)
Qualified SWPPP Practitioner (QSP), #21016
OSHA 40-Hour HAZWOPER Training #100409129342
Nuclear Gauge Operator Training #16008

Tonner Hills, Brea-Olinda Oil Field, County of Orange
Geotechnical observation, testing and geologic mapping during grading of an 800-acre residential development and calculation of remedial quantities (including hydrocarbon impacted material) within the operating Brea-Olinda oil field.

Irvine Campus Housing Authority, University of California, Irvine
Geotechnical investigation, grading plan reviews, and observation and testing during rough grading for the 30-acre planned community in the foothills of the San Joaquin Hills, within the University of California, Irvine. Including an extensive subsurface exploration, and up to approximately 170,000 cubic yards of hillside earthwork and construction of a Verdura retaining wall up to 13 feet high. Development included construction of a community center and 72 single-family homes.

Montebello Hills Development, Montebello, California
Geotechnical investigation including extensive subsurface exploration and preliminary grading plan review for the approximately 500-acre Montebello Hills Planned Community in Los Angeles County. Project constraints include deep fill settlement, slope stabilization measures, seismic exposure, coordination with oil field facilities, and native habitat protection/restoration. Additionally, performed observation and testing and vibration monitoring during drainage improvement and slope repair operations adjacent to existing occupied residences.
FRANK MELO, E.I.T.
SENIOR STAFF ENGINEER

EXPERIENCE

Years of Experience: 18
Years with MTGL: 18

Frank Melo has over 18 years of experience with a solid background in quality oversight services for the transportation sector. Extensive technical background in construction engineering, including construction quality assurance / quality control, materials testing, geotechnical engineering, construction materials engineering, structural inspection and engineering design and analysis. Frank’s experience also providing materials reviews, materials designs, quality plan development, and third party / referee testing. Frank has in-depth laboratory and field testing of all roadway and structure materials including: Superpave HMA, Jointed Plain Concrete Pavement, Rapid Strength Concrete, Rebar Splices, Base Courses, and many other materials.

Frank Melo has advanced proficiency with building codes, agency specifications, government publications, and industry directives that deal with nearly every type of vertical and horizontal construction project.

He assists the MTGL’s Principal and Geotechnical Engineers for any related in geotechnical and materials testing services. He will be responsible and overseeing especially in materials testing and inspection services. He will also be responsible for preparing and submitting completed reports of all on-site activities on daily basis. His work in materials and testing extends to materials evaluation of structural materials, design/characterization of materials, non-destructive methods of examination, field “mock-up” construction evaluation, destructive testing, materials suitability analysis, and more testing services.

Education:

B.S. Civil Engineering, San Diego State University, San Diego State of California, Civil Engineer in Training (EIT) 120422

Licenses/Certifications:

ACI (Concrete Field-Testing Grade I); Caltrans Certified (CT 105, 106, 125 AGG, 125 GEN, 125 HMA, 201); PCI 1812199 (Level II QC Technician/Inspector)

RELEVANT PROJECT EXPERIENCE

Airports:

- Los Angeles Airport (LAX) – 7R-25L Runway and RSA Improvements
- Los Angeles Airport (LAX) – South West Terminal Project, Apron Pavement
- Los Angeles Airport (LAX) – West Aircraft Maintenance Area, Los Angeles
- Los Angeles Airport (LAX) – Qantas Hangar
- Ontario Airport – FedEx Expansion Project
- Ontario Airport – Runway 8L-26R
- Ontario Airport – FedEx Ontario Gate 701 Development
- San Bernardino Airport – Blast Fence Ramp Repair
- San Diego Airport – South Side Improvements
- San Diego Airport – Replace T2W to Green Building
- San Diego Airport – FBO Taxiway
- San Diego Airport – Washington Street Improvement Project
- French Valley Airport – Airport Repave and Helicopter Pad Replace
- Chiriaco Airport – CHR Runway Pavement

City-Governments:

- City of Menifee Slurry Testing
- City of Vernon Downey Road Street and Traffic Improvements
RELEVANT PROJECT EXPERIENCE continued

City-Governments continued
- City of Anaheim Residential Street Improvements Group 6 – Largest City Government Pavement project in Southern California for 2016
- City of Brea Glenbrook Track Waterline and Street Rehabilitation
- City of Fountain Valley – Ward Street Resurfacing
- City of Laguna Beach – Street Rehabilitation Projects FY 2012-2013
- City of Bell – Alamo Street Rehabilitation

Highways:
- Interstate 215 Central Widening Scott Road and Nuevo Road
- State Route 74/Interstate 215 Interchange Improvement
- OCTA DB I-405 Improvement
- San Diego River Bridge Double Track
- I-5 at Carmenita Boulevard, Santa Fe Springs, CA (07-2519C4)
- SR 94 Pavement Rehabilitation in Jamul (11-29404) – Largest Pavement Project in San Diego for 2014
- Route 40 Pavement Rehabilitation in Needles (08-OK2704) – Largest Pavement Project in San Bernardino County for 2013
- I-15 Cajon Pass Design Build, Hesperia, CA (08-007404)
- I10/Route 605 Connector Design Build (07-245404) – First Design Build Project in Caltrans District 07
- I-110/SR-47 Connector, San Pedro, CA (07-260604)
- I-5 at Weldon Canyon, Burbank, CA (07-252614) – First Roller Compacted Concrete Project, First Precast Prestressed Concrete Pavement Project
- Route 805 Direct Access Ramps, Chula Vista, CA (11-2T1824)
- Route 14 Direct Access Ramps, Mira Mesa, CA (11-2T0954)
- Route 805/Route 54 Separation, National City, CA (11-1814)
- R7 Border Crossing in Calexico, Calexico, CA (11-238404)
- I-5 at Genesee Overcrossing, La Jolla, CA (11-0223U4)
- Route 98 in Calexico, Calexico, CA (11-275204) – First Caltrans District 11 Superpave Project
- Route 98 Near Broder Crossing, Calexico, CA (11-238404) – First Caltrans Large Stone Superpave Project
- Route 138 Hathaway Creek Bridge (08-336304) – First Bridge Deck with Fiber Reinforced Concrete
JOHN HUTALLA
LABORATORY MANAGER

EDUCATION
B.S. Computer Information System, California State University, Los Angeles

CERTIFICATIONS
ACI (Concrete Field-Testing Grade II, Concrete Laboratory Testing); Caltrans Certified (Section 39 Superpave Test Methods, Asphalt, Concrete, Soil, Aggregate); NICET Level III (Construction Materials Testing: Soils, Concrete, Asphalt); CPN/Troxler Nuclear Gauge Safety; Radiation Safety Officer; Los Angeles International Airport Security Clearance

PROFESSIONAL SUMMARY
John Hutalla is a highly credentialed Laboratory Manager with considerable experience with all areas of Materials Testing, including geotechnical units, concrete, aggregate, soil, bridge materials, reinforcing steel, masonry units, and many more advanced structural materials. He has successfully self-performed in third party accreditation audits from agencies such as: AASHTO Materials Reference Laboratory (AMRL), Cement and Concrete Reference Laboratory (CCRL), Caltrans, Division of the State Architect (DSA), and the United States Army Corps of Engineers (USACE).

With over 26 years of experience in the materials testing, geotechnical engineering, and inspection fields, he brings practiced management and administration experience to the laboratory. He has expert knowledge and practice with Regional and National standards for testing and analysis including ASTM, AASHTO, and Caltrans.

He has devised and administrated custom laboratory test programs for high volume test projects including highways, airports, and mass earthwork. He has also devised laboratory test programs for critical construction operations requiring rapid result testing analysis and reporting including highway slab replacements, hospital light weight composite slabs, bridge piles, road rehabilitations, runway overlays.

John Hutalla also has significant experience with related technical services including construction quality assurance/quality control, field testing, performance testing, special inspection, field observation, construction administration, and geotechnical related inspection, geotechnical field testing, pavement mapping, and sub surface pavement testing.

PROJECT EXPERIENCE
- Otay Water District – As-Needed Geotechnical Investigation Contract
- 870-2 Pump Station Replacement (CIP P2083 & P2562)
- Lakeside Water District – Pipeline/Waterline Replacement Projects
- Lakeside Water District – Reservoir Rehabilitation Projects
- South Bay International Wastewater Treatment Plant
- Fallbrook Public Utility District – Fallbrook Water Replacement Plant
- San Vicente Marina Facilities
- 640-1 & 640-2 Reservoir; Otay Water District
- San Vicente Dam Pipeline Projects, San Diego
- Metropolitan Water District of Southern California – Skinner Water Treatment Plant
Ben Warren has been in the soils and materials testing industry since 2004. His work experience consists of testing and observation of soils, base compaction, field and laboratory testing of concrete, field and laboratory testing and inspection of asphaltic concrete and concrete batch plant inspections, tag and sample reinforcing steel, ceiling and splay wire testing, torque testing, pull testing, pachometer/locating rebar, and wood moisture testing. He has knowledge in compliance of all applicable standard codes, project plans and specifications. He has an excellent documentation skills and communication.

**Project Experience**

- Otay Water District – As-Needed Geotechnical Investigation Contract
- 870-2 Pump Station Replacement (CIP P2083 & P2562)
- Lakeside Water District – Pipeline/Waterline Replacement Projects
- Lakeside Water District – Reservoir Rehabilitation Projects
- South Bay International Wastewater Treatment Plant
- Fallbrook Public Utility District – Fallbrook Water Replacement Plant
- San Vicente Marina Facilities
- La Presa System Improvements, Spring Valley
- Avocado Sewer Line, Spring Valley
- 30" Pipeline – Hunte Parkway; Chula Vista, CA
- Del Rio Rd. Emergency Interconnection, Spring Valley
- 640-1 & 640-2 Reservoir, Otay Water District
- Interstate 5 / State Route 133 Separation, Irvine, CA
- Glenbrook Water Line Tract, Brea, CA
- San Vicente Access Road; San Diego, CA
- San Vicente Preparatory Work Package II, San Diego
- Encina Wastewater Facility, Carlsbad
- 450-1 Recycled Water Reservoir, Chula Vista
- Helix Water District – Pipeline Projects, La Mesa
- Caltrans District 11 – On-Call Construction Management and Material Testing (11A2466 and 11A2364) Various Projects in San Diego and Imperial County
- SANDAG – Inland Rail Trail Phase II – Metrolink Passenger Train Route
- Scripps Hospital Critical Care Building, Encinitas
- Scripps Hospital Central Energy Plant, Encinitas
- Seacrest Retirement Communities, Encinitas
- Padre Dam Customer Service Center, Santee
Darlino Ebuengan has been in the construction business since 1995 with experience on a variety of construction projects that include water treatment facilities, dams, pipelines, and sewer replacement. His unique experience gives him a deep understanding of the construction process from beginning to project completion; and the ability to work with numerous contractors, sub-contractors and client representatives. He is experienced and has knowledge of individual project applicable standard codes, and project plans, specifications and soils reports. He performs standard testing method both in the field and laboratory, that include soils and materials testing services.

**PROJECT EXPERIENCE**

- Otay Water District – As-Needed Geotechnical Investigation Contract
- 870-2 Pump Station Replacement (CIP P2083 & P2562)
- Lakeside Water District – Pipeline/Waterline Replacement Projects
- Lakeside Water District – Reservoir Rehabilitation Projects
- South Bay International Wastewater Treatment Plant
- Fallbrook Public Utility District – Fallbrook Water Replacement Plant
- San Vicente Marina Facilities
- I-215 Central Widening Scott Road, Menifee and Nuevo Road, Perris
- 11th Avenue BRT Improvements
- 1272 OC Great Park Western Sector Road, Irvine
- 4215 Sorrento Valley Boulevard Alum Welding
- Carlsbad Double Track
- City of Santee Citywide Pavement Repair
- MTA Mid Coast Corridor North, San Diego
- I-8W Border Patrol Checkpoint Facility
- Camino Del Sur Widening Temporary Rebar, San Diego
- Buena Vista and Railroad Avenue Improvement, Santee
- Bogert Trail Bridge Rehabilitation, Palm Springs
- East County Bus Maintenance Facility, San Diego
- Calexico International Airport Runway Pavement, Calexico
- California Air Resource Board, Riverside
- Laurel Elementary School Slope Remediation and Flood Control, Oceanside
- Oceanside High School Music Building, Oceanside
- Oceanside High School Classroom Building and Parking Lot, Oceanside
- San Elijo Elementary School – 2-Story Classroom Building, San Marcos
- Grossmont USD District Office, San Diego
- La Costa Canyon Parking Lot Solar, La Costa
- Rancho Bernardo High School Alterations, San Diego
- Lifetime Montessori School, San Diego
- Palomar College Learning Center; San Marcos, CA
- Palomar College Humanities Building, San Marcos
- Grossmont College Modular Village, El Cajon

**CERTIFICATIONS**

ICC (Soils); ACI (Concrete Field-Testing Grade I); CPN Nuclear Gauge Safety
CERTIFICATIONS
ICC (Soils); ACI (Concrete Field-Testing Grade I); CPN Nuclear Gauge Safety; ETAC Hazardous Material & Waste Transportation; OSHA Certified; FACE Floor Flatness & Levelness Testing; USACE CQC Certificate #784; Caltrans Certified (CTM 105, 125AGG, 201, 202, 205, 216, 217, 226, 504, 518, 521, 539, 540, 543, 556, 557); Los Angeles International Airport Security Clearance; MTA Rail Safety Certification; NCTD RWP Bombardier Coaster/Sprinter B1125

PROFESSIONAL SUMMARY
Derek Tipps has been in the construction industry performing Material Testing and Inspection since 1999. His experience extends to wastewater facilities, dams, pipelines, water treatment plant, bridges, tunnels, airports, highways, channels, roads, rail (heavy and light), and various other vertical and horizontal construction projects. He is proficient in mass-grading observation and testing, identification of formational materials, soil classification, AC placement, Marshall, Maximum Density, Batch Plant Inspection, pull and torque testing of anchor bolts and ceiling wires. He also performs laboratory testing on soils and compressive strength testing of structural materials. He is also experienced and has knowledge in compliance of DSA Title 24, all other applicable standard codes, project plans and specifications. He has an excellent documentation skills and communication.

PROJECT EXPERIENCE
• 870-2 Pump Station Replacement (CIP P2083 & P2562)
• Lakeside Water District – Pipeline/Waterline Replacement Projects
• Lakeside Water District – Reservoir Rehabilitation Projects
• South Bay International Wastewater Treatment Plant
• San Vicente Marina Facilities
• La Presa System Improvements, Spring Valley
• Avocado Sewer Line, Spring Valley
• 30” Pipeline – Hunte Parkway, Chula Vista
• Del Rio Road Emergency Interconnection, Spring Valley
• Interstate 8 West Border Station, Pine Valley
• Interstate 5 / State Route 133 Separation, Irvine
• Glenbrook Water Line Tract, Brea
• San Vicente Access Road, San Diego
• San Vicente Preparatory Work Package II, San Diego
• Encina Wastewater Facility, Carlsbad
• 450-1 Recycled Water Reservoir, Chula Vista
• Helix Water District – Pipeline Projects, La Mesa
• Magnolia Avenue On-ramp Highway 67, Santee
• Metropolitan Water District of Southern California – Skinner Water Treatment Plant
• San Vicente Marina Facilities, San Diego
• Helix Water District – Pipeline Projects, La Mesa
• Carlsbad Sewer and Stormdrain Relocation, Carlsbad
• Encina Wastewater Facility, Carlsbad
• San Vicente Package II Preparatory Work, Lakeside
• San Luis Rey River Crossing, Oceanside
• Interstate 215 Central Widening Scott Road and Nuevo Road
• State Route 74/Interstate 215 Interchange Improvement
“Providing Value in Quality Control”
Proposal to Provide

On-Call Time and Materials

Geotechnical Engineering and Testing Services

July 1, 2020
Proposal No. P02-02172
July 1, 2020
Proposal No. 02-02172

Mr. Luis Valdez
Sweetwater Authority
505 Garrett Avenue
Chula Vista, California 91912-2328

Subject: Proposal to Provide On-Call Time and Materials Geotechnical Engineering and Testing Services

Dear Mr. Valdez:

Ninyo & Moore is pleased to submit our proposal to the Sweetwater Authority (Authority) for the Authority's evaluation and consideration to provide On-Call Geotechnical Engineering and Testing Services. We have reviewed the Request for Proposal (RFP) dated June 12, 2020, and Addendum No. 1 dated June 26, 2020, and have organized our response per these requirements. Specific strengths that are included in our response include:

Proven Success on Sweetwater Authority Projects – Ninyo & Moore has provided on-call support to the Authority on multiple contracts for over 23 years. These contracts have included identical services to those specified in the facilities within the Authority's service area. As a result of over 219 task orders, we are familiar with Authority facilities and procedures, improving our understanding and responsiveness to assignments. In addition, Ninyo & Moore has successfully performed similar on-call services for over 18 local water agencies and municipalities.

Successful Approach to Providing On-Call Services – We understand the nature of the work required and the importance of offering a comprehensive range of services, in a responsive manner, using project-proven methods. We provide all services, including laboratory testing, from one location – our San Diego corporate headquarters. This improves our response time and allows quick turnaround on geotechnical engineering and materials testing services assignments. We have designed the team with maximum flexibility for demanding project requirements or the assignment of concurrent task orders.

Highly Qualified Local Staff – Our Project Manager, Mark Cuthbert, PE, leads a team of 43 technical, field, and laboratory staff members, all experienced on Authority or local water agency task order-based contracts. Most have worked together on Authority projects and have a long tenure with Ninyo & Moore – ensuring consistent quality results in accordance with Authority and proven company standards. All staff members identified for this contract are San Diego-based and available for the duration of the assignment.

Our proposal is presented in the format requested in the RFP and includes all information required in Exhibit B. The proposal is in effect for a period of 90 days, as required. Our Project Manager, Mark Cuthbert, a California-registered civil engineer with 41 years of experience, is the primary point of contact for this contract. Mr. Cuthbert’s contact information follows:

<table>
<thead>
<tr>
<th>Contact Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mark Cuthbert, PE, Principal Engineer</td>
</tr>
<tr>
<td>5710 Ruffin Road, San Diego, California 92123</td>
</tr>
<tr>
<td>(858) 576-1000 x11237</td>
</tr>
<tr>
<td><a href="mailto:mcuthbert@ninyoandmoore.com">mcuthbert@ninyoandmoore.com</a></td>
</tr>
</tbody>
</table>

We look forward to the opportunity to continue our professional relationship with the Sweetwater Authority on this important contract.

Sincerely,

NINYO & MOORE

Kai Vedenoja, PE, AWS
Senior Project Engineer

Mark Cuthbert, PE
Principal Engineer

Distribution: (1) Electronic Submission
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Hourly Billing Rate Schedule (Separate Submittal)

6
Existing and Past Financial Relationships / 19

7
Project References / 19

Appendix

Resumes / A1
Exhibit B – Statement Of Consultants Qualifications

As requested in the RFP, Ninyo & Moore has provided the required qualifications in the Exhibit B format. Additional requested information follows Exhibit B. Resumes of the proposed project team are included as an attachment.

1. Name of Company
Ninyo & Moore Geotechnical and Environmental Sciences Consultants

2. Business address
5710 Ruffin Road, San Diego, California 92123

3. When organized
Ninyo & Moore was organized on September 2, 1986.

4. Where incorporated

5. Length of time the company has been in business in San Diego County
Ninyo & Moore has been in business in San Diego County for 34 Years.

6. How many years has the company engaged in business under the present company name?
Ninyo & Moore has been engaged in business under the present name for 34 years.

7. Brief company history
Ninyo & Moore was established in San Diego, California, on September 2, 1986, and incorporated as an “S” Corporation in the State of California on March 3, 1987. In 1990, we established our first branch office in Irvine. This led to the opening of our San Bernardino County office in 1993 and, in 1995, the Los Angeles office was established. Ninyo & Moore opened its Las Vegas office in 1996 and, in 1998, opened offices in Oakland and Phoenix. In 2000, a San Francisco office was established and, in 2005, the Prescott Valley office was established. In 2006, a Denver office was opened and, in 2007, a third Arizona office was opened in Tucson. Sacramento joined the California group of offices in 2009 and, in 2010, the Houston office opened its doors. The San Jose office was opened in 2012 and our newest office, Broomfield, was established in 2014. 2017 saw the re-establishment of our Salt Lake City office. We opened our second Los Angeles County office in Monterey Park in January 2018, and our third Colorado office in Fort Collins in 2019.

Ninyo & Moore was established to provide geotechnical, environmental, and materials testing and inspection services to public works clients. These services include seismic and geologic hazards investigations, foundation investigations, pavement design, pile design, slope stability evaluations, soil classification, geophysical evaluations, subsurface explorations, evaluation of liquefaction potential, preparation of earthwork and foundation specification, water resource development planning, SWPPP/SUSMP and Best Management Practices planning, construction management support, earthwork and grading studies, field instrumentation and monitoring, and plans and specifications review. Ninyo & Moore’s 450 professionals include registered geotechnical and civil engineers, geologists, hydrogeologists, engineering geologists, environmental scientists, certified field and laboratory technicians and other specialists.
8. List all applicable references, primarily from other public agencies that the company has had as clients

<table>
<thead>
<tr>
<th>Client/Contact Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sweetwater Authority</strong></td>
</tr>
<tr>
<td>P.O. Box 2328, San Diego, California 91912-2328</td>
</tr>
<tr>
<td>Mr. Mike Wallace, Principal Engineer</td>
</tr>
<tr>
<td>(619) 639-5372; <a href="mailto:mwallace@sweetwater.org">mwallace@sweetwater.org</a></td>
</tr>
<tr>
<td><strong>City of Chula Vista, Public Works Department</strong></td>
</tr>
<tr>
<td>1800 Maxwell Road, Chula Vista, California 91911</td>
</tr>
<tr>
<td>Mr. Kalani Camacho, Public Works Superintendent</td>
</tr>
<tr>
<td>(619) 397-6113; <a href="mailto:kalicamacho@chulavistaca.gov">kalicamacho@chulavistaca.gov</a></td>
</tr>
<tr>
<td><strong>Otim Water District</strong></td>
</tr>
<tr>
<td>2554 Sweetwater Springs Boulevard</td>
</tr>
<tr>
<td>Spring Valley, California 91978</td>
</tr>
<tr>
<td>Mr. Kevin Cameron, Project Manager</td>
</tr>
<tr>
<td>(619) 670-2222; <a href="mailto:kcameron@otaywater.gov">kcameron@otaywater.gov</a></td>
</tr>
<tr>
<td><strong>Ramona Municipal Water District</strong></td>
</tr>
<tr>
<td>105 Earhart Street, Ramona, California 92065-1599</td>
</tr>
<tr>
<td>Mr. Ricardo E Soto, Project Manager</td>
</tr>
<tr>
<td>(760) 789-1330; <a href="mailto:rsoto@rmwd.org">rsoto@rmwd.org</a></td>
</tr>
<tr>
<td><strong>City of Carlsbad</strong></td>
</tr>
<tr>
<td>1635 Faraday Avenue, Carlsbad, California 92008</td>
</tr>
<tr>
<td>Mr. Jonathan Schauble, Associate Engineer</td>
</tr>
<tr>
<td>(760) 602-2762; <a href="mailto:jonathan.schauble@carlsbadca.gov">jonathan.schauble@carlsbadca.gov</a></td>
</tr>
<tr>
<td><strong>Olivenhain Municipal Water District</strong></td>
</tr>
<tr>
<td>1966 Olivenhain Road, Encinitas, California 92024</td>
</tr>
<tr>
<td>Mr. Jason Hubbard, Engineering Manager</td>
</tr>
<tr>
<td>(760) 753-6466; <a href="mailto:jhubbard@olivenhain.com">jhubbard@olivenhain.com</a></td>
</tr>
<tr>
<td><strong>City of National City</strong></td>
</tr>
<tr>
<td>1243 National City Boulevard, National City, California 91950-4397</td>
</tr>
<tr>
<td>Roberto Yano, PE, Deputy City Engineer</td>
</tr>
<tr>
<td>(619) 336-4380; <a href="mailto:ryan@nationalcityca.gov">ryan@nationalcityca.gov</a></td>
</tr>
<tr>
<td><strong>City of Coronado</strong></td>
</tr>
<tr>
<td>1825 Strand Way, Coronado, California 92118</td>
</tr>
<tr>
<td>Mr. Ed Walton, City Engineer</td>
</tr>
<tr>
<td>619/522-7300; <a href="mailto:ewalton@coronado.ca.us">ewalton@coronado.ca.us</a></td>
</tr>
<tr>
<td><strong>City of Poway</strong></td>
</tr>
<tr>
<td>13325 Civic Center Drive, Poway, California 92074</td>
</tr>
<tr>
<td>Mr. Jeff Beers, Special Project Engineer</td>
</tr>
<tr>
<td>(858) 668-9629; <a href="mailto:jbeers@ci.poway.ca.us">jbeers@ci.poway.ca.us</a></td>
</tr>
<tr>
<td><strong>Olivenhain Municipal Water District</strong></td>
</tr>
<tr>
<td>6200 Avenida Encinas, Carlsbad, California 92011-1009</td>
</tr>
<tr>
<td>Lindsey Stephenson, PE, Engineering Services Manager (Formerly with Carlsbad Municipal Water District)</td>
</tr>
<tr>
<td>(760) 438-3941; <a href="mailto:lstephenson@encinajpa.com">lstephenson@encinajpa.com</a></td>
</tr>
</tbody>
</table>

9. Contracts in progress with current completion schedule (percent of work remaining) and contract amount

<table>
<thead>
<tr>
<th>Client Name</th>
<th>Contract Name</th>
<th>Contract Completion Dates</th>
<th>Contract Dollar Amount</th>
<th>% of Work Remaining</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sweetwater Authority</td>
<td>On-Call Geotechnical Services</td>
<td>8/26/2020</td>
<td>Open ended</td>
<td>5%</td>
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<tr>
<td>City of Chula Vista</td>
<td>On-Call Geotechnical and Materials Testing</td>
<td>12/31/2020</td>
<td>$750,000</td>
<td>20%</td>
</tr>
<tr>
<td>Port of San Diego</td>
<td>As-Needed Geotechnical Engineering and Materials Testing Services</td>
<td>12/13/2021</td>
<td>$133,333</td>
<td>5%</td>
</tr>
<tr>
<td>City of San Marcos</td>
<td>As-Needed Geotechnical Services</td>
<td>9/30/2021</td>
<td>$300,000</td>
<td>95%</td>
</tr>
<tr>
<td>San Diego Housing Commission</td>
<td>On-Call Services</td>
<td>10/10/2020</td>
<td>$100,000</td>
<td>90%</td>
</tr>
<tr>
<td>City of Poway</td>
<td>As-Needed Geotechnical Services</td>
<td>2/20/2021</td>
<td>$100,000</td>
<td>30%</td>
</tr>
<tr>
<td>Olivenhain Municipal Water District</td>
<td>As-Needed Geotechnical Services</td>
<td>6/30/2021</td>
<td>$300,000</td>
<td>30%</td>
</tr>
<tr>
<td>Otay Water District</td>
<td>As-Needed Geotechnical Services</td>
<td>6/30/2021</td>
<td>$175,000</td>
<td>40%</td>
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<tr>
<td>County of San Diego</td>
<td>On-Call Materials Testing and Geotechnical Services</td>
<td>4/30/2021</td>
<td>$1,250,000</td>
<td>85%</td>
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<tr>
<td>Carlsbad Municipal Water District</td>
<td>On-Call Engineering (2018-2021)</td>
<td>11/30/2021</td>
<td>$100,000</td>
<td>90%</td>
</tr>
<tr>
<td>City of Carlsbad</td>
<td>On-Call Engineering (2018-2021)</td>
<td>11/30/2021</td>
<td>$200,000</td>
<td>90%</td>
</tr>
<tr>
<td>City of La Mesa</td>
<td>As-Needed Specialized Professional Services</td>
<td>7/1/2020</td>
<td>$70,000</td>
<td>80%</td>
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<tr>
<td>City of Oceanside</td>
<td>As-Needed Geotechnical Services</td>
<td>1/1/2021</td>
<td>$450,000</td>
<td>85%</td>
</tr>
<tr>
<td>Client Name</td>
<td>Contract Name</td>
<td>Contract Completion Dates</td>
<td>Contract Dollar Amount</td>
<td>% of Work Remaining</td>
</tr>
<tr>
<td>-------------------------------------</td>
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<td>---------------------------</td>
<td>------------------------</td>
<td>---------------------</td>
</tr>
<tr>
<td>Rainbow Municipal Water District</td>
<td>As-Needed Geotechnical Services</td>
<td>11/15/2022</td>
<td>$100,000</td>
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<tr>
<td>City of El Cajon</td>
<td>On-Call Geotechnical Services</td>
<td>10/22/2021</td>
<td>$100,000</td>
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<tr>
<td>City of Coronado</td>
<td>On-Call Geotechnical Engineering</td>
<td>11/1/2022</td>
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<tr>
<td>City of National City</td>
<td>On-Call Soils and Materials Testing</td>
<td>3/18/2023</td>
<td>$100,000</td>
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<tr>
<td>County of San Diego</td>
<td>On-Call Geotechnical Material Testing FHWA</td>
<td>9/23/2022</td>
<td>$2,500,000</td>
<td>100%</td>
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10. List projects completed for Sweetwater Authority in the past five years

<table>
<thead>
<tr>
<th>Sweetwater Authority Projects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Third Avenue and D Street Water Main</td>
</tr>
<tr>
<td>Reynolds Desalination Facility</td>
</tr>
<tr>
<td>West 22nd and Hoover Water Main</td>
</tr>
<tr>
<td>Bonita and Frisbie Water Main</td>
</tr>
<tr>
<td>Briarwood Road and Bonita Woods Drive Water Main</td>
</tr>
<tr>
<td>2nd Avenue Water Main</td>
</tr>
<tr>
<td>Perdue Waste Water Treatment Plant Upgrades</td>
</tr>
<tr>
<td>First Avenue and Glenhaven Way Water Main</td>
</tr>
<tr>
<td>30th and Highland Water Main</td>
</tr>
<tr>
<td>Sylvia Street and Nannette Street Water Main</td>
</tr>
<tr>
<td>Bonita Road and Willow Street</td>
</tr>
<tr>
<td>Sweetwater Reservoir</td>
</tr>
<tr>
<td>Buttermilk Hollow and Kenelworth Lane Water Main</td>
</tr>
<tr>
<td>Carvalos Drive Water Main</td>
</tr>
<tr>
<td>Woodlawn Avenue and F Street Water Main</td>
</tr>
<tr>
<td>Calmoor Street and Sweetwater Road Water Main</td>
</tr>
<tr>
<td>Sweetwater Road Water Main</td>
</tr>
<tr>
<td>4th and Moss Water Main</td>
</tr>
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</table>

11. Has the company ever failed to complete any awarded work?, If so, please explain
Ninyo & Moore confirms that we have not failed to complete any work awarded to the firm.

12. Has the company ever defaulted on a contract?, If so, where and why
Ninyo & Moore confirms that we have not defaulted on a contract.
13. Experience in consulting work similar in scope to this professional geotechnical services project

<table>
<thead>
<tr>
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<tr>
<td><strong>Sweetwater Authority</strong></td>
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<tr>
<td>Robert A. Perdue Water Treatment Plant</td>
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<tr>
<td>Palm Avenue Pipeline</td>
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<tr>
<td>Bonita Road and Palm Drive</td>
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<tr>
<td><strong>Oway Water District</strong></td>
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<tr>
<td>Alta Road Water Line Repair</td>
<td>X</td>
<td>X</td>
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<tr>
<td>Grand Avenue and Apple Street Water Repair</td>
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<tr>
<td>Sangamon Avenue Pavement Repair</td>
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<tr>
<td>Operations and Administration Facilities Remodel</td>
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<tr>
<td>Avenida La Posta HOA Recycled Water Pipeline</td>
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<tr>
<td>Vales I Pressure Reducing Station Replacement</td>
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<tr>
<td>Nob Hill Improvements</td>
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<tr>
<td>Pipeline 3 Desalination Relining San Marcos Oaks</td>
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<td>Pipeline 3 Relining Sweetwater to Lower Oway</td>
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<td>Broadway Drainage Improvements</td>
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<td>Telegraph Canyon Road Erosion</td>
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<td>Chula Vista Civic Center Renovation</td>
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<tr>
<td><strong>City of Coronado</strong></td>
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<tr>
<td>Pomona, Seventh, and Adella Improvements</td>
<td>X</td>
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<td>X</td>
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<tr>
<td>Alley Improvements and Sewer Replacement</td>
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<tr>
<td>Coronado Street, Curb, and Gutter Improvements</td>
<td>X</td>
<td>X</td>
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<td>X</td>
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</tbody>
</table>
14. List names, background, and experience of the principal members of your personnel, including the officers

<table>
<thead>
<tr>
<th>Personnel Name and Background</th>
<th>Years of Exp.</th>
<th>Project Experience</th>
</tr>
</thead>
</table>
| Avram Ninyo, PE, GE          | 50           | • San Diego County Water Authority Tri-Agency Pipeline  
                               |               | • City of Coronado Transbay Sewer |
| M.S., Geotechnical Engineering, 1974, Syracuse University  
B.S., Civil Engineering, 1971, Robert College          |               |                     |
| Gregory Farrand, PG, CEG     | 48           | • Rainbow Municipal Water District Moosa Canyon Pipeline  
                               |               | and Laterals  
                               |               | • Olivenhain Municipal Water District Village Park Recycled  
                               |               | Water Project |
| Masters in City Planning, 1976, San Diego State University  
B.S., Geology, 1969, California State University, Northridge          |               |                     |
| Stephan A. Beck, PG, CHG, CEG, CEM, QSD/QSP  
M.A., Geology, 1981, California State University, Fresno  
B.A., Geology, 1976, University of California at Santa Barbara  
Professional Certificate, Hazardous Materials Management, 1989, University of California at San Diego          | 42           | • Sweetwater Authority Chula Vista Bayfront RV Resort  
                               |               | • Sweetwater Authority Bonita Road and Willow Street  
                               |               | Improvements  
                               |               | • Otay Water District Otay Ranch Village 3 Development |
| Ronald Halbert, PE           | 43           | • Otay Water District Fuerte Drive Sewer Relocation  
                               |               | • City of San Diego Pacific Beach Pipeline |
| B.S., Civil Engineering, 1983, San Diego State University          |               |                     |
| Mark Cuthbert, PE           | 41           | • Sweetwater Authority On-Call Geotechnical and Materials  
                               |               | Testing Services  
                               |               | • Olivenhain Municipal Water District As-Needed  
                               |               | Geotechnical Services |
| M.E., Geotechnical Engineering, 1983, Brigham Young University  
B.S., Civil Engineering, 1982, Brigham Young University          |               |                     |
| Mark Reeser                  | 37           | • IEUA 930 Zone Recycled Water Pipeline  
                               |               | • CCWRF Recycled Water Pump Station Expansion |
| B.S., Business Administration, 1984, Point Loma College          |               |                     |
| Kenneth Mansir, Jr., PE, GE | 24           | • Sweetwater Authority Richard Reynolds Desalination  
                               |               | Facility  
                               |               | • Ramona Municipal Water District Rio Verde Sewer  
                               |               | Replacement Project |
| B.S., Bioresource and Agricultural Engineering, 1996,  
California Polytechnic State University, San Luis Obispo          |               |                     |
| Jeffrey T. Kent, PE, GE     | 19           | • Sweetwater Authority Bonita Road and Acacia Avenue  
                               |               | Pipeline  
                               |               | • Otay Water District Vista Vereda Water Line  
                               |               | Replacement |
| M.S., Geotechnical Engineering, 2001,  
University of California at Los Angeles  
B.S., Civil and Environmental Engineering, 2000,  
University of California at Los Angeles          |               |                     |
15. List related project experience with names of assigned personnel

<table>
<thead>
<tr>
<th>Assigned Personnel Name</th>
<th>Assigned Role</th>
<th>1</th>
<th>2</th>
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<tbody>
<tr>
<td>Mark Cuthbert, PE</td>
<td>Project Manager</td>
<td>X</td>
<td>X</td>
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<tr>
<td>Kenneth Mansir, Jr., PE, GE</td>
<td>Technical Advisor</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<tr>
<td>Gregory Farrand, PG, CEG</td>
<td>Technical Advisor</td>
<td>X</td>
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<tr>
<td>Stephen Waide, CIH, CSP, CMC, CiEC</td>
<td>Health and Safety Advisor</td>
<td>X</td>
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<tr>
<td>Jeffrey T. Kent, PE, GE</td>
<td>Project Engineer</td>
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<tr>
<td>Kai Venedoja, PE</td>
<td>Project Engineer</td>
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<tr>
<td>Ronald Halbert, PE</td>
<td>Engineering Task Manager</td>
<td>X</td>
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<tr>
<td>William Morrison, PE, GE</td>
<td>Engineering Task Manager</td>
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<tr>
<td>Madan Chirumalla, PE, GE</td>
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<tr>
<td>Gabriel Smith, PE, GE</td>
<td>Engineering Task Manager</td>
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<tr>
<td>Christy Kuhns, PE</td>
<td>Engineering Task Manager</td>
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<tr>
<td>Jeremiah Harrington</td>
<td>Engineering Task Manager</td>
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<td>Todd Schmitz, PG, CEG</td>
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<td>Christina Tretinjak, PG, CEG</td>
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<td>Nissa Morton, PG, CEG</td>
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<tr>
<td>Zachary Hasten, PG</td>
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<tr>
<td>Peter Nowicki, ACI, AWS, ICC</td>
<td>Special Inspector</td>
<td>X</td>
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<tr>
<td>Julio Guzman, ACI, ICC, DSA</td>
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<tr>
<td>Daniel Lindsay, ACI, AWS, ICC</td>
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<tr>
<td>Emad Beshay, ACI, AWS, DSA, ICC</td>
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<tr>
<td>Patrick Simmons, ACI, ICC, DSA</td>
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<td>Ivan Guajardo, AWS, ASNT</td>
<td>Special Inspector</td>
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<td>Timothy Timmerman, ACI, ICC</td>
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<tr>
<td>Alex Gutierrez, ACI, ICC, Caltrans</td>
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<tr>
<td>James Contino, ACI, ICC</td>
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<td>Mark MacCarthy, OSHA</td>
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<tr>
<td>Matt Ecker, ACI, ICC</td>
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<tr>
<td>Mario Palacios, ACI, ICC</td>
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<tr>
<td>Justin Smolenski, ACI, Caltrans</td>
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<td>Thomas Whelan, ACI</td>
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<td>Everardo Rico, ACI, ICC</td>
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<td>Dalton McCune, ACI</td>
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<td>Ilia Irby, ACI, WAQTC</td>
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<td>Roman Aranda, ACI, Caltrans</td>
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</table>
Ninyo & Moore is performing as-needed geotechnical and materials testing services for the Sweetwater Authority for various sites in Chula Vista and National City, California. Services include trench soil compaction, asphalt compaction, and concrete compressive strength testing services to support the Authority's pipeline replacement, street improvement, and other design and construction projects. Representative projects include:

**Halsey Street Pipeline:** Performed geotechnical observation and materials testing services during the construction phase for the Halsey Street Water Pipeline Replacement Project at Sweetwater Road. Services during the construction phase included the field density testing of trench backfill operations, field density testing of street subgrade, and field density testing of paving operations.

**Hilltop Drive Water Main Replacement Project:** Performed geotechnical observation and materials testing services during the construction phase for the Hilltop Drive Water Main Replacement Project. The project included the installation of approximately 4400 lineal feet of 12-inch diameter PVC water main piping.

**Ralph W. Chapman Water Reclamation Facility Replacement Surge Tank Foundation Pad Inspection (CIP P2559):** Performed geotechnical observation, materials testing, and special inspection services during construction of the new surge tank project for the Ralph W. Chapman Water Reclamation Facility. The project included the installation of a new surge tank structure and construction of a new concrete foundation support system.

**Campo Road Sewer Replacement Project:** Performed a geotechnical evaluation during design of the Campo Road Sewer Replacement project. The project involved a new 15-inch sewer pipeline for approximately 30 feet in depth and installed by open trench construction methods. The section of pipeline replacement extends approximately 875 feet northwesterly from the north side of the right-of-way for Campo Road (SR-94).
3. Olivenhain Municipal Water District As-Needed Geotechnical Services, California
In 2017, Ninyo & Moore was retained to provide as-needed geotechnical and materials testing services for pressure reducing stations, potable water, recycled water and sewer pipelines, pump stations, reservoirs, structures, utility relocations and/or the modification, improvement or repair of existing Olivenhain Municipal Water District facilities. Specific projects included:

**Vales I Pressure Reducing Station Replacement:** Performed geotechnical observation and materials testing services for the Vales I PRS Replacement Project. The projects consisted of the installation of a new prefabricated pressure reducing system and appurtenances, construction of a concrete pad, and approximately 180 feet of 10-inch PVC water pipe and appurtenances. The project also included pavement section reconstruction in the trench zone area followed by a grind and overlay extending.

**Avenida La Posta and Villanitas HOA Recycled Water Pipeline Projects:** Performed geotechnical observation and materials testing services for the Avenida La Posta and Villanitas HOA Recycled Water Projects. The projects consisted of the installation of approximately 575 feet of new 4-inch recycled water main and approximately 155 feet of 8-inch recycled water main and appurtenances. The project also included pavement section reconstruction in the trench zone area followed by a grind and overlay extending 3 to 6 feet beyond the limits of the trench.

4. San Diego County Water Authority As-Needed Construction Support Services Contracts, San Diego County, California
Ninyo & Moore is providing geotechnical, materials testing and special inspection services to Butler Engineering in support of as-needed construction management services for the San Diego County Water Authority. The project involved improvements to flow control facilities, pump stations, pipeline relining, meter vaults, asset management, pipeline, tunnel, and hydroelectric facilities. A specific project included:

**Pipeline 5 Relining Delivery Point to Sage Road:** Provided geotechnical observation, special Inspection, and materials testing services for the Pipeline 5 Relining Delivery Point to Sage Road located in Fallbrook. The Pipeline 5 Relining Project involved rehabilitating approximately 2.3 miles of pipeline in 8 separate segments along a 9.5-mile stretch of pipeline traversing the Fallbrook community. Most of the work was performed underground, inside the pipe. The pipeline was accessed by excavating, establishing, and entering the pipeline through 9 access sites, or portals that were approximately 25 by 60 foot wide.

5. City of Chula Vista As-Needed Geotechnical, Materials Testing, And Special Inspection Services, Chula Vista, California
Ninyo & Moore is currently providing geotechnical, materials testing and special inspection services for the City of Chula Vista on an as-needed basis for various projects throughout the city limits. Representative projects include:

**East H Street Bike Lane Project:** Performed geotechnical observation and testing services during the construction phase of the East H Street Bike Lane project in Chula Vista. The project included the widening of both sides of East H Street near Regulo Place to accommodate the new bike lane. As part of the widening, various concrete masonry unit (CMU) retaining walls were constructed. Additional improvements included installation of storm drain systems, placement of asphalt concrete (AC) paving, and construction of concrete gutters, curbs, and sidewalks.

**Chula Vista Citywide Pavement Rehabilitation Phase II:** Performed geotechnical observation and testing services for Phase II of the Measure P Pavement Rehabilitation project for the City of Chula Vista. The project involved the rehabilitation of the existing AC pavements for over 190 streets through the City of Chula Vista. The rehabilitation efforts varied from using 2-inch AC overlays, AC overlays with an ARAM layer underneath, to full depth AC pavement reconstruction.
16. Résumés of all related personnel to be assigned to the Authority’s work
Ninyo & Moore’s assigned personnel resumes are included in Appendix A.

17. Total number of employees
Ninyo & Moore has 450 employees.

18. How many office personnel
Ninyo & Moore’s San Diego office has 92 employees.

19. Statement of approach and understanding of the on-call services required under this contract, with key personnel listed
Ninyo & Moore understands the Authority requirements and the scope of work may include trench soils compaction testing; asphalt paving compaction density testing; concrete compressive strength testing; grading operations support; welding inspection and testing; and geotechnical investigations and other work as assigned by task order. Ninyo & Moore also understands the contract agreement will be for one-year of services to the Authority. Following the first year, the agreement may be renewed on an annual basis for a total contract duration of up to five years, subject to satisfactory performance by the consultant.

Mr. Mark Cuthbert, a California registered civil engineer with 41 years of experience, has been assigned to this project as the Project Manager to ensure that the needs of the Authority are met in a timely and cost efficient manner. His anticipated work schedule is such that he will be available throughout the duration of the project; twenty-four-hours-a-day, seven-days-a-week in order to address the needs of the Authority. Together, with the Ninyo & Moore project team, Mr. Cuthbert will formulate the most appropriate project approach in order to meet the project objective. Mr. Cuthbert will be answerable to the Authority on all contracted services. In-house communication has been streamlined with our local and wide-area computer networks to facilitate sharing of electronic files and documents such as reports, engineering analysis using geotechnical software, CAD, Microsoft project schedules, and personnel schedules and meeting coordination using Microsoft Outlook. Additionally, the project team assembles regularly to discuss project progress, issues, findings, and results.

Having served as the consultant for the Authority on this contract for two previous terms spanning a total of 23 years, Ninyo & Moore has extensive geotechnical design and construction experience relative to the type of Capital Improvement Projects (CIPs) which the Authority will be involved. It is our understanding that the CIPs will primarily include pipeline transmission repair and replacements. Occasional CIP’s may also include storage and treatment facilities such as pump stations, retention structures, settling tanks, biosolids structures, and associated improvements. Ninyo & Moore has scoped, investigated, analyzed, designed, specified and provided construction observation and materials testing services on these exact same projects for the Authority and other water/wastewater public agencies. Our offices are staffed with qualified personnel, that are experienced and able to provide the scope of services requested by the Authority in a timely and efficient manner.

At Ninyo & Moore, our approach to each project is based on the specific project requirements (needs of the Authority), budget and schedule. The first step undertaken by Ninyo & Moore is to provide a Task Manager as a central point-of-contact for each project related task. For example, one Task Manager would be tasked with pipeline replacement projects. Our Task Manager is trained in the proposed services and project objectives. They provide our technicians with a unified interpretation of the geotechnically related project specifications during construction, including a comprehensive field file containing project specifications, laboratory data results, and special instructions. This organization provides the Authority with more qualified field personnel. All project activities are done in accordance with our established Ninyo & Moore in-house Quality Assurance Program.

In addition to first hand involvement with the project, many of our staff live in the Authority’s district and can be available on a moment’s notice, day or night, for material sampling, suitability evaluations, or to aid in the resolution of contract disputes. As a fast
point-of-contact for the Authority field personnel and staff, the project manager can also provide updates of budgets and utilization of man-hours by verbal or email communication, as appropriate.

During project construction, Ninyo & Moore will provide a full range of construction quality control/quality assurance services to evaluate compliance with the Standard Specifications for Public Works Construction (Green Book), Water Agency Standard Specifications, and the project plans and specifications. Our certified field technicians will perform relative compaction testing services on trench backfill, pavement base and asphalt concrete, using nuclear density or thin-lift gauges standardized daily to specific field conditions. In addition, each of our technicians, which are certified by the American Concrete Institute are fully qualified and experienced in preparation of concrete specimens, slump testing, and drying shrinkage bars.

Our technicians, inspectors and project engineers work closely with our San Diego laboratory where laboratory testing is done in strict accordance with the ASTM and Caltrans, standard procedures. The laboratory equipment and technicians hold current certifications through AASHTO, ACI, City of San Diego, City of Los Angeles, and Caltrans. Staggered work hours for laboratory technicians means we can provide exceptionally expedited turn-around on testing. Laboratory data reduction, analysis, and reporting is automated with our geotechnical software applications and then reviewed for accuracy and consistency with field results by a laboratory manager and registered engineer.

Projects are delivered on time and within budget while meeting the quality standards and specifications established by the Scope of Services document, Authority needs, and the in-house Quality Assurance Program. The services will be performed using the standard of care and skill consistent with members of the profession currently practicing under similar conditions and in similar locations.

Scope of Services
Utilizing our intimate knowledge of the site conditions, we propose to provide the following scope of services led by our Project Manager, Mark Cuthbert, with the support of our registered engineers and geologist, and certified inspectors and field technicians.

• Attendance at project team meetings with the Authority’s representatives, to develop a project understanding and to review site conditions prior to the start of any project assignment.
• Preparation of detailed scope of services including services to be provided, estimated duration of services, and estimated fees for those services.
• Expedient review and execution of task order agreements.

Geotechnical Engineering

• Review of preliminary project plans, geologic and seismic hazard maps, and available geotechnical reports, to evaluate possible geologic hazards that may impact the proposed project.
• Acquisition of permits necessary to proceed with our subsurface evaluation, if required.
• Geotechnical site reconnaissance to document the site conditions and to select and mark the proposed excavation locations for underground utility location. Geophysical surveys of underground utility lines can be performed.
• Drilling, sampling, and logging of small-diameter or Cone Penetrometer Tests (CPT), and/or excavation of exploratory test pits and fault trenches. The depth of the excavations will depend on the details of the proposed project and site location and fault study trenches. Geologic mapping of fault trenches would be performed by a California Certified Engineering Geologist. Traffic control will be performed, as appropriate, in accordance with local agency requirements.
• Laboratory testing of representative soil samples to evaluate the soils characteristics. Laboratory testing may include in-situ moisture and dry density, gradation, maximum density and optimum moisture content, consolidation and expansion potential, expansion index, shear strength, corrosivity and sulfate content, and R-value testing.
• Data compilation and geotechnical analysis of field and laboratory data. Our analyses will address suitability of the site for the proposed construction; description of the site geology and on-site soils anticipated during construction, including an evaluation of geologic hazards that might be present; excavation and compaction requirements, including suitability of the on-site soils for reuse; analysis of the temporary stability of the trench excavations and shoring pressures; depth to the groundwater table; evaluation of potential settlement and the potential for liquefaction; evaluation of the corrosion potential of the on-site soils; and evaluation of pavement design for the proposed roadway sections, as applicable.

• Preparation of a written report presenting the results of our field exploration, laboratory testing, and engineering analyses, as well as our conclusions and recommendations relative to the geotechnical aspects of project design and construction. We anticipate that we will also prepare a response letter to agency review comments, as required.

• Upon substantial completion of the project plans and specifications, Nyno & Moore can perform a geotechnical and geologic plan review to evaluate whether the conclusions and recommendations presented in our report were correctly interpreted and incorporated into the project plans and specification.

Geotechnical Quality Assurance Services
• Provision of recommendations for over-excavation and replacement of trench materials, when necessary.
• Field technician services including observation, sampling and density testing during subgrade preparation, trench and wall backfill, and aggregate base placement.
• Inspection and testing during asphalt paving and slurry seal operations.
• Preparation of daily field reports and memoranda to document the earthwork operations observed, and the results of the field density tests.

Materials Testing and Field Inspection Services
• Field sampling and testing services for construction materials such as reinforcing steel, concrete, concrete masonry units, high strength bolts and structural steel.
• Laboratory testing including aggregate conformance testing, steel conformance testing, compressive strength testing of portland cement concrete, mortar, masonry units, masonry prisms, and grout specimens.
• Preparation and submittal of the results of our laboratory testing.
• Preparation of daily field reports and sample test data sheets.

Special Inspection Services
• Special inspection during concrete placement, including sampling and testing fresh structural concrete for slump, temperature, air content, unit weight, and casting of cylinders.
• Inspection during field structural steel welding, and as-needed non-destructive testing (ultrasonic, dye penetrant, magnetic particle, and radiographic testing).
• Special inspection of masonry construction including preparation of masonry prisms, and grout and mortar samples.
• Load and torque testing of expansion bolts and epoxy anchors.
• Preparation of progress daily inspection reports to document the items inspected.
• Review of selected contractor project submittals.
• Review of selected contractor reports and records.
• Review of excavation system worker protection (shoring) plans.
• Provision of technical support in the negotiations of change orders with the contractor.
• Provision of support on claims and litigation associated with the construction of the project.
• Provision of assistance to district personnel in preparation of Board memorandums, change orders, status reports, agreements or amendments.
• Allocate task order budgets among work elements.
• Document findings, decisions, recommendations, and conclusions.
• Prepare the engineering portion of the technical reports.
• Report to the Project Manager.
## Key Personnel Responsibilities

<table>
<thead>
<tr>
<th>Key Personnel</th>
<th>Responsibilities</th>
</tr>
</thead>
</table>
| **Project Manager**  
Mark Cuthbert, PE | • Act as the liaison with the Authority’s Project Manager and Inspector.  
• Staff the project with qualified, experienced personnel who are familiar with the main elements of each assignment and have an understanding of the technology required to attain the project goals.  
• Assure that key personnel are available as planned.  
• Organize, direct and oversee project tasks and provide QA/QC oversight.  
• Establish and enforce work element milestones.  
• Establish and periodically review and monitor budgets, and implement cost control procedures.  
• Prepare cost and performance reports, and manage funds for labor and materials procurement, as necessary.  
• Assure compliance with regulatory agency protocol.  
• Assure that work is completed within the required timeframe and approved cost. |
| **Technical Advisor**  
Kenneth Mansir, Jr, PE, GE  
Gregory Farrand, PG, CEG | • Provide preliminary and final review of findings, conclusions and recommendations and project deliverables.  
• Issue internal memoranda concerning current guidelines, regulations and technologies.  
• Maintain channels of communication with sources of technical information both inside and outside the firm, and technical fields for new products, processes and techniques. |
| **Project Engineers**  
Jeffrey T. Kent, PE, GE  
Kai Venedoja, PE, AWS | **During Design**  
• Develop the field and laboratory testing programs.  
• Perform field reconnaissance and mapping.  
• Review the boring logs.  
• Assign laboratory tests, and review test results.  
• Perform and oversee geotechnical analysis.  
• Prepare the engineering portion of geotechnical reports.  
**During Construction**  
• Attend preconstruction and site meetings, as requested.  
• Coordinate and develop the testing and inspection program in accordance with the project plans and specifications along with the governing building code.  
• Review submittals, ASIs, RFIs, and other pertinent construction documents pertaining to materials testing and special inspection items.  
• Provide engineering consultation and project management of field technicians, laboratory technicians, and inspectors, including distribution of test reports and communication with the project team.  
• Review laboratory and field test results for conformance with the project documents.  
• Review and preparation of closeout reports. |

20. At any time during the last five (5) years, has your company, or any of its owners or officers been convicted of a crime involving the awarding of a contract of a government construction project, or the bidding or performance of a government contract? Yes or No

Ninyo & Moore confirms that our company, owner, or officers have not been convicted of a crime involving the award of a contract of a government construction project, or the bidding or performance of a government contract.

21. In the past five (5) years, has any insurance carrier, for any form of insurance, refused to renew the insurance policy for your company? Yes or No. If the answer is “Yes,” explain on a separate signed page, the name of the insurance carrier, the form of insurance and the year of the refusal.

Ninyo & Moore has successfully renewed the company’s insurance policy with our insurance carrier since the inception of the firm.
22. List the top three references in the following format

<table>
<thead>
<tr>
<th>Reference Number 1</th>
</tr>
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<tbody>
<tr>
<td><strong>District or Entity:</strong> Olivenhain Municipal Water District</td>
</tr>
<tr>
<td><strong>Phone No.:</strong> (760) 753-6466; <a href="mailto:jhubbard@olivenhain.com">jhubbard@olivenhain.com</a></td>
</tr>
<tr>
<td><strong>Address:</strong> 1966 Olivenhain Road, Encinitas, California 92024</td>
</tr>
<tr>
<td><strong>Name of Contact:</strong> Mr. Jason Hubbard, Engineering Manager</td>
</tr>
<tr>
<td><strong>Scope of Work:</strong> Geotechnical and Materials Testing</td>
</tr>
<tr>
<td><strong>Dollar Amount:</strong> $300,000</td>
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<tr>
<td><strong>District or Entity:</strong> City of Chula Vista, Public Works Department</td>
</tr>
<tr>
<td><strong>Phone No.:</strong> (619) 397-6113; <a href="mailto:kalanic@chulavistaca.gov">kalanic@chulavistaca.gov</a></td>
</tr>
<tr>
<td><strong>Address:</strong> 1800 Maxwell Road, Chula Vista, California 91911</td>
</tr>
<tr>
<td><strong>Name of Contact:</strong> Mr. Kalani Camacho, Public Works Superintendent</td>
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<tr>
<td><strong>Scope of Work:</strong> Geotechnical Engineering, Materials Testing and Special Inspection</td>
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<td><strong>Dollar Amount:</strong> $750,000</td>
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<tr>
<td><strong>District or Entity:</strong> City of National City</td>
</tr>
<tr>
<td><strong>Phone No.:</strong> (619) 336-4380; <a href="mailto:ryano@nationalcityca.gov">ryano@nationalcityca.gov</a></td>
</tr>
<tr>
<td><strong>Address:</strong> 1243 National City Boulevard, National City, California 91950-4397</td>
</tr>
<tr>
<td><strong>Name of Contact:</strong> Mr. Roberto Yano, PE, Deputy City Engineer</td>
</tr>
<tr>
<td><strong>Scope of Work:</strong> On-Call Soils and Materials Testing</td>
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<tr>
<td><strong>Dollar Amount:</strong> $100,000</td>
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</table>
Firm History and Expertise

Ninyo & Moore, an ENR Top 500 Design firm, was established in San Diego, California, on September 2, 1986, incorporated in the State of California on March 3, 1987. Ninyo & Moore is extremely qualified, experienced, and capable to provide the required services for the following reasons:

Expertise: Ninyo & Moore specializes in geotechnical engineering; engineering geology; materials testing and inspection; construction support services; engineering design; environmental engineering; asbestos, lead-based paint and mold evaluations; regulatory compliance; hazardous waste management; soil and groundwater remediation; stormwater management; geophysical studies; value engineering; forensic studies; and expert witness testimony.

Personnel: Ninyo & Moore has drawn from its staff of approximately 450 professionals, a carefully selected and qualified team of registered geotechnical and civil engineers, and geologists as well as field technicians and inspectors, who are certified by the ICC, AWS, ASNT, ACI, and DSA. Our team will be led by Mark Cuthbert, PE, with 41 years of experience. The experience of our team is detailed in the resumes that are presented in Appendix A.

Laboratory: Ninyo & Moore’s fully equipped, in-house testing laboratories offer full-service field and laboratory testing services for geotechnical design, and soil and materials testing projects. Our testing facilities have been independently accredited by the State of California Department of General Services, DSA, AMRL/AASHTO, City of San Diego, City of Los Angeles, Caltrans, and U.S. Army Corps of Engineers.

Insurance: Ninyo & Moore carries professional liability insurance with coverage limits of $5 million and general liability insurance with coverage limits of $2 million.

Health and Safety Program: Ninyo & Moore has a Health and Safety Program in place that addresses field and office safety protocols, including recent Covid-19 safety protocols which have been distributed to all employees and are monitored to ensure that all staff are adhering to these important procedures.

Technical Approach

Ninyo & Moore’s detailed technical approach is included in Exhibit B, Item No. 19. The following flowchart is a representation of our geotechnical and materials testing services process.
Ninyo & Moore’s project organization chart indicates the chain-of-command and personnel that will be utilized to manage contract requests. Detailed resumes are included in Appendix A.
Existing and Past Financial Relationships

Ninyo & Moore does not have an existing or past financial relationships with current members of the Authority's Governing Board.

Project References

Ninyo & Moore's key personnel have successfully completed numerous geotechnical engineering projects for government and private industry clients, and have earned a reputation for providing quality services while working within strict schedules and budgets. Much of our experience includes providing services as part of an on-call or as-needed contract. We are thoroughly familiar with the needs of agencies relative to the servicing of on-call contracts. Some of these contracts are listed below.

<table>
<thead>
<tr>
<th>Client Reference</th>
<th>Contact Reference</th>
<th>Completion Dates</th>
<th>Project Value</th>
<th>Services Provided</th>
</tr>
</thead>
</table>
| Sweetwater Authority | Mr. Mike Wallace  
P.O. Box 2328  
San Diego, California 91912-2328 | 8/2020 | $1,684,548  
219 Task Orders | Geotechnical Observation and Materials Testing |
| Otay Water District | Mr. Kevin Cameron  
2554 Sweetwater Springs Blvd.  
Spring Valley, California 91978 | 6/2021 | $505,000  
14 Task Orders | As-Needed Geotechnical Engineering |
| Olivenhain Municipal Water District | Mr. Jason Hubbard  
1966 Olivenhain Road  
Encinitas, California 92024 | 6/2020 | $171,000  
10 Task Orders | Geotechnical and Materials Testing |
| City of Chula Vista, Public Works Department | Mr. Kalani Camacho  
1800 Maxwell Road  
Chula Vista, California 91911 | 12/2020 | $2,826,000  
99 Task Orders | Geotechnical Engineering, Materials Testing and Special Inspection |
| City of National City | Mr. Roberto Yano  
1243 National City Boulevard,  
National City, California 91950 | 3/2023 | $276,398  
13 Task Orders | On-Call Geotechnical and Materials Testing Services |
| City of Coronado | Mr. Ed Walton  
1825 Strand Way  
Coronado, California 92118 | 11/2022 | $719,000  
41 Task Orders | Geotechnical Engineering, Materials Testing and Special Inspection |
| City of Carlsbad | Mr. Jonathan Schauble  
1635 Faraday Avenue  
Carlsbad, California 92008 | 11/2021 | $1,748,000  
105 Task Orders | Geotechnical Engineering and Environmental Consulting |
On-Call Contract References

<table>
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<tr>
<th>Client Reference</th>
<th>Contact Reference</th>
<th>Completion Dates</th>
<th>Project Value ~ No. of Task Orders</th>
<th>Services Provided</th>
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</thead>
<tbody>
<tr>
<td>City of Poway</td>
<td>Mr. Jeff Beers</td>
<td>2/2021</td>
<td>$1,724,000 ~ 86 Task Orders</td>
<td>Geotechnical Engineering, Materials Testing and Special Inspection</td>
</tr>
<tr>
<td>13325 Civic Center Drive</td>
<td>Special Project Engineer (858) 668-9629 <a href="mailto:jbeers@ci.poway.ca.us">jbeers@ci.poway.ca.us</a></td>
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<tr>
<td>Poway, California 92074</td>
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<tr>
<td>City Lemon Grove</td>
<td>Mr. Mike James</td>
<td>4/2020</td>
<td>$953,000 ~ 53 Task Orders</td>
<td>Geotechnical Engineering, Materials Testing and Special Inspection</td>
</tr>
<tr>
<td>3232 Main Street</td>
<td>Public Works Director (619) 825-3800 <a href="mailto:mjames@lemongrove.ca.gov">mjames@lemongrove.ca.gov</a></td>
<td></td>
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<tr>
<td>Lemon Grove, California 91945</td>
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<tr>
<td>Port of San Diego</td>
<td>Mr. Mark McIntire</td>
<td>12/2021</td>
<td>$310,000 ~ 11 Task Orders</td>
<td>Geotechnical Engineering, Materials Testing and Special Inspection</td>
</tr>
<tr>
<td>P.O. Box 120488</td>
<td>Capital Project Manager II (619) 686-6200 <a href="mailto:mmcintire@portofsandiego.com">mmcintire@portofsandiego.com</a></td>
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<tr>
<td>3165 Pacific Highway</td>
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<tr>
<td>San Diego, California 92101</td>
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<tr>
<td>County of San Diego Public Works Materials Lab</td>
<td>Mr. David Gasaway</td>
<td>3/2021</td>
<td>$1,606,904 ~ 48 Task Orders</td>
<td>Geotechnical and Materials Inspection and Testing</td>
</tr>
<tr>
<td>5252 Kearny Villa Way</td>
<td>Civil Engineer (858) 560-2124 <a href="mailto:edgar.gasaway@sdcounty.ca.gov">edgar.gasaway@sdcounty.ca.gov</a></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>San Diego, California 92123</td>
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</table>

Commendations from select clients are provided below.

“The Carlsbad Municipal Water District (CMWD) would like to thank Ninyo & Moore for their recent work to complete borings on a prominent and privately-owned golf course. The entire process took a few years to secure the appropriate access, and the property owner had many questions and coordination needs to feel comfortable with the work. Mr. Chirumalla and his team supported us through the entire process and met the high expectations of the golf course. CMWD is grateful for the high level of professionalism, care and coordination that Mr. Chirumalla and his team brought to this challenging and lengthy project. We look forward to future projects together.” - Carlsbad Municipal Water District, Encina Wastewater Authority Lindsey Stephenson, PE, Engineering Services Manager (Formerly with Carlsbad Municipal Water District) (760) 438-3941; lstephenson@encinajpa.com

“Ninyo and Moore has been providing exceptional service to the Olivenhain Municipal Water District (District) for Geotechnical related services for more than four years. Ninyo and Moore’s team of geotech professionals are prompt to respond to inquiries and follow through on every task. To date, there has not been a task too big, or too small for Ninyo and Moore. They provide a high level of service at a competitive cost, and Ninyo and Moore’s team brings with them a positive and partnering attitude. Ninyo and Moore has integrated very well with the District's personnel and procedures, and we look forward to working with them for many years to come.” – Olivenhain Municipal Water District, Mr. Chad Williams, CIP Project Manager (Formerly with Olivenhain Municipal Water District) (760) 728-1178, cwilliams@rainbowmwd.com

“I wish to take this opportunity to commend Ninyo & Moore on the quality services they have provided on multiple projects for the City of Poway. The Development Services staff have been very pleased with the manner in which your company has performed these services. The City currently has an as-needed consultant agreement with Ninyo & Moore. Your staff has consistently produced outstanding work and is responsive to the City’s needs for soil and material testing on a variety of types of construction projects. Our inspection staff can easily schedule soils technicians and/or soils engineers to come to a project site and availability is never a problem. Your staff has also been very helpful on preliminary geotechnical work for design projects. We are pleased to recommend your firm to others and look forward to working with you on future projects and contracts.” – City of Poway, Melody Rocco, PE, City Engineer; (858) 668-4400; mrocco@poway.org
Mark Cuthbert, PE
Project Manager

Mr. Cuthbert has extensive experience providing geotechnical, special inspection and materials testing services for a variety of projects and clients. Mr. Cuthbert’s projects have included schools, roadways, storm drains, pipelines, treatment plants, reservoirs, tunnels, bridges, and other structures. As a Principal Engineer with Ninyo & Moore, he is responsible for overseeing geotechnical engineering, and material testing and inspection services. His duties include construction management support coordination and QA/QC, supervision of inspection and technical staff in the compilation of data, and analyses of geotechnical considerations for a variety of construction projects.

EXPERIENCE

Sweetwater Authority On-Call Geotechnical and Materials Testing Services, National City and Chula Vista, California: Project Manager during on-call geotechnical and materials testing services for the Sweetwater Authority. Services during design included review of background documents; performance of subsurface explorations consisting of borings and test pits; performance of geotechnical laboratory testing; analysis of the data obtained; and preparation of geotechnical evaluation reports. Services during construction included geotechnical observation, field density testing, and laboratory testing of materials used during earthwork and paving operations. Materials testing services included the sampling and testing of concrete used for retaining walls and various structures at Sweetwater Treatment Plant, utility pipe encasements, and cellular grout for pipe infills.

Olivenhain Municipal Water District As-Needed Geotechnical Services, Encinitas, California: Principal Engineer during as-needed geotechnical and materials testing services for pressure reducing stations, potable water, recycled water and sewer pipelines, pump stations, reservoirs, structures, utility relocations and/or the modification, improvement or repair of existing Olivenhain Municipal Water District facilities. Specific projects included Vales I Pressure Reducing Station Replacement, Avenida La Posta and Villanitas HOA Recycled Water Pipeline Projects, Fuel Pump & Wash Bay Relocation, and Operations Facility Building D.

Ramona Municipal Water District Valve Replacement Project, Ramona, California: Principal Engineer during geotechnical observation and testing services for the Ramona Municipal Water District Valve Replacement project. The project included replacement of several valve clusters, associated piping, and thrust blocks for domestic water service at two separate sites.

San Diego County Water Authority Nob Hill Improvements, San Diego, California: Principal Engineer during geotechnical, special inspection and materials testing services for the construction of the Nob Hill Improvements Project. The project consisted of the construction of an access road from Scripps Lake Drive to the tunnel location with off shoot access points along the route, construction of tunnel portal entrances with temporary shoring and soil nails/rock dowels, excavation of an approximately 10-foot diameter, 600-foot long, drill and blast tunnel for the installation of a 96-inch steel pipe, and interconnection with existing SDCWA Pipelines 3 and 4.

Valley Center Municipal Water District Country Club Reservoir Construction, Valley Center, California: Principal Engineer for a geotechnical design, geotechnical observation and materials testing of Valley Center Municipal Water District’s Country Club Reservoir Project. The Country Club Reservoir is an approximately 10 million gallon earthen reservoir.

Otay Water District As-Needed Geotechnical Services, Various, California: Technical Advisor for as-needed geotechnical services related to planning, design, and construction administration of potable water, recycled water and sewer pipelines, pump stations, pressure reducing stations, reservoirs, structures, utility relocations and/or the modification, improvement or repair of existing Otay Water District facilities. Specific projects included Rancho San Diego Basin Sewer; Campo Road Sewer Replacement Project; Reservoir 870-2 Pump Station Outlet Pipe Project; and Ralph W. Chapman Water Reclamation Facility Replacement Surge Tank Foundation Pad Inspection.
Mr. Mansir coordinates and supervises all administrative and technical functions of the San Diego Geotechnical Operations. He provides geotechnical design parameters and recommendations for shallow and deep foundations, retaining structures, in-situ ground remediation and earthwork; reviews laboratory results and project plans and specifications; and provides supervision and technical support to staff-level engineers and geologists. For the construction services division, Mr. Mansir provides supervision and technical guidance to field and laboratory personnel; oversees field observation, testing, and inspection services; supervises laboratory testing; analyzes and reviews field and laboratory data; and authors and reviews materials testing and inspection reports.

EXPERIENCE

Sweetwater Authority Richard A. Reynolds Desalination Facility, National City, California: Principal-in-Charge for geotechnical design services, which included the performance of a geotechnical evaluation for the HDD portion of the pipeline project. Services also included background review; subsurface exploration with a soil boring; geotechnical laboratory testing; permeability testing; data compilation; and preparation of a report.

Otay Water District Campo Road Sewer Replacement Project, La Mesa, California: Principal Engineer for a geotechnical evaluation during design of the Otay Water District's Campo Road Sewer Replacement project. The project involved a new 15-inch sewer pipeline for approximately 30 feet in depth and installed by open trench construction methods. The section of pipeline replacement extended approximately 875 feet northwesterly from the north side of the right-of-way for Campo Road (SR-94), through the shopping center parking lot to a connection with a sewer in Avocado Boulevard.

Olivenhain Municipal Water District, Village Park Recycled Water Project, Encinitas, California: Technical Advisor during geotechnical and materials testing services for the Village Park Recycled Water project. The project consisted of approximately 7 miles of 4 to 12-inch diameter pipelines. Services included review of trench and foundation conditions; recommendations for over-excavation and replacement of trench materials; monitoring and testing of backfill placement and compaction; inspection and review of asphalt paving and slurry seal operations; inspection of the paving; on-site sampling of materials, laboratory testing of soil materials, concrete, reinforcing steel, and asphalt, and on-site testing of compaction; review of contractor’s groundwater dewatering methods, settling methods, water quality, and discharge/disposal; and preparation final geotechnical and materials testing project reports.

National City, On-Call Geotechnical and Material Testing Services, National City, California: Principal-in-Charge during on-call geotechnical and material testing services for various CIP projects. Geotechnical services included review of background data; field reconnaissance to observe site conditions and to locate and mark exploratory borings; subsurface evaluations consisting of drilling, logging, and sampling of exploratory borings; geotechnical laboratory testing; and preparation of reports. Material testing services included field observation and density testing of earthwork operations including remedial grading, utility trench backfill, and subgrade preparation; laboratory testing of soils during the earthwork operations; special inspection during stone column installation, structural steel assembly, reinforced masonry construction, and reinforced concrete construction; and laboratory testing for compressive strength of concrete and masonry components.
Mr. Farrand’s professional experience includes geologic and geotechnical investigations for treatment plants, reservoirs, dams, tunnels, pipelines, highways, bridges, power plants, quarries, groundwater resources, and environmental impact reports. Mr. Farrand has authored scientific papers on fault and landslide hazards, and coastal bluff stability in southern California and Baja California. He has performed extensive field mapping, analyses of borings and trenches, seismic refraction surveys, remote sensing surveys, and environmental studies. His responsibilities consist of technical direction to the staff of geologists and field personnel, and in-house Quality Assurance/Quality Control review of investigations and analyses on geologic, hydrogeologic, and geotechnical projects.

**EXPERIENCE**

**Sweetwater Authority 36-Inch Transmission Main Replacement, Bonita, California:** Principal Geologist during a geotechnical evaluation for the 36-inch Transmission Main Replacement Project. The project includes replacement of approximately 16,000 lineal feet of 24-and 36-inch water main pipeline made up of eight discrete segments. The proposed pipeline will be constructed at invert depths of up to approximately 15 feet below the existing ground surface. The pipeline alignment extends from Bonita Road at Sandalwood Drive in Chula Vista to the north side of the Bonita Golf Course in Bonita, California. A jack-and-bore section is planned where the alignment crosses Interstate 805.

**Rainbow Municipal Water District Moosa Canyon Pipeline and Laterals, Bonsall, California:** Principal Geologist during geotechnical consulting services for the Rainbow Municipal Water District’s pipeline and laterals located in the vicinity of Moosa Canyon and San Luis Rey River. The purpose of our services was to perform a subsurface geotechnical evaluation for design of a 16,000-foot long, 16-inch diameter water pipeline. In addition, a geotechnical evaluation was performed for two lateral pipelines. One lateral runs southwest along Golf Club Drive from Camino Del Rey and under Moosa Creek, a distance of approximately ½ mile. The crossing under Moosa Creek in Golf Club Drive was performed by trenchless construction.

**Olivenhain Municipal Water District Village Park Recycled Water Project, Encinitas, California:** Principal Geologist during geotechnical and materials testing services for the Olivenhain Municipal Water District Village Park Recycled Water, which involved expanding recycled water service to portions of the Village Park community of Encinitas to serve the greenbelts, HOA maintained areas, schools and a small executive golf course. The project consisted of approximately 7 miles of 4- to 12-inch diameter pipelines that were installed in existing street right-of-ways and existing OMWD easements. There is one buried pump station located in a planter adjacent on North El Camino Real. The pipelines generally were installed in 5-to 6-foot deep trenches and the surface areas were returned to their pre-construction state.

**Otay Water District Campo Road Sewer Replacement Project, La Mesa, California:** Principal Geologist during a geotechnical evaluation for design of the Campo Road Sewer Replacement project. The project involved a new 15-inch sewer pipeline for approximately 30 feet in depth and installed by open trench construction methods.

**San Diego County Water Authority Nob Hill Improvements, San Diego, California:** Principal Geologist for geotechnical, special inspection and materials testing services during the construction of the Nob Hill Improvements Project. The project consisted of the construction of an access road from Scripps Lake Drive to the tunnel location with off shoot access points along the route, construction of portal entrances with temporary shoring and soil nails/rock dowels, blasting an approximately 10-feet diameter tunnel for the installation of a 96-inch steel pipe, and interconnecting pipelines to existing pipelines 3 and 4.
Stephen J. Waide, CIH, CSP, CMC, CIEC
Health and Safety Advisor

EDUCATION

B.S., Occupational Safety and Health, 1989, California State University
B.S., School and Community Health, 1987, California State University

REGISTRATIONS/CERTIFICATIONS

American Board of Industrial Hygiene in Comprehensive Practice, CIH No. CP7005
Board of Certified Safety Professionals in Comprehensive Practice, CSP No. 15532
American Indoor Air Quality Council, Certified Microbial Consultant, CMC No. 0608087
American Indoor Air Quality Council as a Certified Indoor Environmental Consultant, CIEC No. 0611042

PROFESSIONAL AFFILIATIONS

American Board of Industrial Hygiene
American Society of Safety Engineers
Board of Certified Safety Professionals

Mr. Waide has extensive experience in the development and implementation of industrial hygiene, health physics, and industrial safety programs. His background encompasses projects within private industry- and government-funded environmental projects such as large-scale remedial investigations, waste characterization programs and remedial actions. He has extensive project management experience in the design of industrial hygiene programs; asbestos and lead surveys, abatement, and abatement oversight; mold/microbial testing and risk assessments; indoor air quality investigations; radiological characterization and remediation; hazardous waste site activities; emergency response planning; and designing and implementing hearing conservation and respiratory protection programs. Mr. Waide is highly knowledgeable in all forms of industrial hygiene, industrial safety, and health physics program development. He currently manages a team of industrial hygienists and construction safety professionals who specialize in asbestos, lead, mold/microbial, and indoor air quality (IAQ) issues.

EXPERIENCE

Sweetwater Authority On-Call Geotechnical and Materials Testing Services, National City and Chula Vista, California: Health and Safety Advisor during on-call geotechnical and materials testing services for the Sweetwater Authority. Services during design included review of background documents; performance of subsurface explorations consisting of borings and test pits; performance of geotechnical laboratory testing; analysis of the data obtained; and preparation of geotechnical evaluation reports. Services during construction included geotechnical observation, field density testing, and laboratory testing of materials used during earthwork and paving operations. Materials testing services included the sampling and testing of concrete used for retaining walls and various structures at Sweetwater Treatment Plant, utility pipe encasements, and cellular grout for pipe infalls.

Olivenhain Municipal Water District As-Needed Geotechnical Services, Encinitas, California: Health and Safety Advisor during as-needed geotechnical and materials testing services for pressure reducing stations, potable water, recycled water and sewer pipelines, pump stations, reservoirs, structures, utility relocations and/or the modification, improvement or repair of existing Olivenhain Municipal Water District facilities. Specific projects included Vales I Pressure Reducing Station Replacement, Avenida La Posta and Villanitas HOA Recycled Water Pipeline Projects, Fuel Pump & Wash Bay Relocation, and Operations Facility Building D.

Otay Water District As-Needed Geotechnical Services, Various, California: Health and Safety Advisor for as-needed geotechnical services related to planning, design, and construction administration of potable water, recycled water and sewer pipelines, pump stations, pressure reducing stations, reservoirs, structures, utility relocations and/or the modification, improvement or repair of existing Otay Water District facilities. Specific projects included Rancho San Diego Basin Sewer; Campo Road Sewer Replacement Project; Reservoir 870-2 Pump Station Outlet Pipe Project; and Ralph W. Chapman Water Reclamation Facility Replacement Surge Tank Foundation Pad Inspection.

San Diego County Water Authority As-Needed Construction Support Services Contracts, San Diego County, California: Health and Safety Advisor for construction inspection, nondestructive examination of welds, materials testing, soils testing, and geotechnical engineering services to Butler Engineering in support of as-needed construction management services for the San Diego County Water Authority. The project involved improvements to flow control facilities, pump stations, pipeline relining, meter vaults, asset management, pipeline, tunnel, and hydroelectric facilities. Specific projects included Pipeline 5 Relining Delivery Point to Sage Road, Twin Oaks DAF Treatment Plant Upgrades, Mission Trails Flow Regulatory Structure II and Flow Control Facility, and Red Mountain Reservoir.
Jeffrey T. Kent, PE, GE
Project Engineer

Mr. Kent coordinates and conducts geotechnical evaluations for commercial, educational, and public/municipal facilities, including schools, highways, railroads, pipelines, public and private buildings, and bridges; performs slope stability analyses, flexible and rigid pavement design, and underground pipeline design; and prepares and reviews geotechnical reports. He also provides geotechnical design parameters and recommendations for shallow and deep foundations, retaining structures, in-situ ground remediation and earthwork; reviews laboratory results and project plans and specifications; provides supervision and technical support to staff-level engineers and geologists; and performs project administration and management. Mr. Kent also develops the scope of work for materials testing and inspection projects; provides supervision and technical guidance to field and laboratory personnel; oversees field observation, testing, and inspection services; supervises laboratory testing; analyzes and reviews field and laboratory data; and authors and reviews materials testing and inspection reports.

EXPERIENCE

Sweetwater Authority Palm Avenue Pipeline, National City, California: Project Engineer for geotechnical observation and materials testing services during the construction phase for the Palm Avenue Water Pipeline Replacement Project from 16th Street to 20th Street. The project included the installation of approximately 764 lineal feet of 12-inch diameter PVC piping. Services during the construction phase included the field density testing of trench backfill operations, field density testing of street subgrade, field density testing during aggregate base placement, field density testing of paving operations, and laboratory testing of soils and AC materials used by the contractor during earthwork and paving operations.

Otay Water District As-Needed Geotechnical Services, Spring Valley, California: Project Manager during as-needed geotechnical services related to planning, design, and construction administration of potable water, recycled water and sewer pipelines, pump stations, pressure reducing stations, reservoirs, structures, utility relocations and/or the modification, improvement or repair of existing Otay Water District facilities. Specific projects included Rancho San Diego Basin Sewer, Campo Road Sewer Replacement Project, and Hillsdale Road Water Line.

City of Chula Vista, On-Call Geotechnical and Material Testing and Special Inspection Consulting Services, Chula Vista, California: Project Manager during on-call geotechnical and material testing services for various CIP projects. Geotechnical services included review of background data; field reconnaissance to observe site conditions and to locate and mark exploratory borings; subsurface evaluations consisting of drilling, logging, and sampling of exploratory borings; geotechnical laboratory testing; and preparation of reports. Material testing services included field observation and density testing of earthwork operations including remedial grading, utility trench backfill, and subgrade preparation; laboratory testing of soils during the earthwork operations; special inspection during stone column installation, structural steel assembly, reinforced masonry construction, and reinforced concrete construction; and laboratory testing for compressive strength of concrete and masonry components.

City of Chula Vista, On-Call, Geotechnical, Materials Testing and Special Inspection Consulting Services, Chula Vista, California: Project Manager during on-call geotechnical observation, materials testing, and special inspection services for various types of construction projects. The projects varied from construction of new retaining walls, slope protection of stream embankments, pavement construction of roadways, and underground utility installations. Services included field observation and density testing of earthwork operations including remedial grading, utility trench backfill, and subgrade preparation; observation and testing of paving operations; laboratory testing of soils during the earthwork operations; special inspection during secant pile installation, structural steel assembly, reinforced masonry construction; and laboratory testing for compressive strength of concrete and masonry.
Kai Vedenoja, PE
Project Engineer

Mr. Vedenoja conducts geotechnical investigations, engineering analysis, and material testing/inspection for construction projects. He assists in the preparation of geotechnical reports and specifications. His position also includes obtaining soil samples for geotechnical laboratory testing, performing soil classification and borehole logging. His professional experience includes inspecting and observing construction activities, reviewing plans and specifications, and providing field support services for preliminary and in-grading geotechnical evaluations.

EXPERIENCE

Sweetwater Authority Briarwood Road and Bonita Wood Drive Water Main, Bonita, California: Project Engineer for geotechnical observation and materials testing services during the construction phase for the Briarwood Road and Bonita Woods Drive watermain project. The project included the installation of approximately 2,200 lineal feet of 12-inch diameter PVC water main piping. Services included the field density testing of trench backfill operations, field density testing of street subgrade, field density testing during aggregate base placement, field density testing of paving operations, and laboratory testing of soils and asphalt concrete materials used by the contractor during earthwork and paving operations.

Olivenhain Municipal Water District Village Park Recycled Water Project, Encinitas, California: Project Manager during geotechnical and materials testing services for the Olivenhain Municipal Water District Village Park Recycled Water. Services included monitoring and testing of backfill placement and compaction; inspection and review of asphalt paving and slurry seal operations; inspection of the paving; on-site sampling of materials, laboratory testing of soil materials, concrete, reinforcing steel, and asphalt, and on-site testing of compaction; and preparation and review of daily and final geotechnical and materials testing project reports.

San Diego County Water Authority Nob Hill Improvements, San Diego, California: Project Engineer for geotechnical, special inspection and materials testing services during the construction of the Nob Hill Improvements Project. The project consisted of the construction of an access road from Scripps Lake Drive to the tunnel location with off shoot access points along the route, construction of portal entrances with temporary shoring and soil nails/rock dowels, blasting an approximately 10-feet diameter tunnel for the installation of a 96-inch steel pipe, and interconnecting pipelines to existing pipelines 3 and 4. Access points were constructed as well as vacuum/air release valves.

Valley Center Municipal Water District Country Club Reservoir Construction, Valley Center, California: Project Manager during a geotechnical design, geotechnical observation and materials testing for Valley Center Municipal Water District’s Country Club Reservoir Project. Services included conformance testing of import soil materials, Proctor maximum density and optimum moisture content of on-site and import soils used during construction, sampling and testing of fresh concrete used for the pump house foundation and retaining wall, and compressive strength testing of concrete samples.

Ramona Municipal Water District Valve Replacement Project, Ramona, California: Project Manager during geotechnical observation and testing services for the Ramona Municipal Water District Valve Replacement project. The project included replacement of several valve clusters, associated piping, and thrust blocks for domestic water service at two separate sites. During earthwork operations, Ninyo & Moore provided geotechnical observation and testing of pipeline trench backfill, and subgrade and pavement section preparation. Geotechnical laboratory testing of the materials used for trench backfill and pavement construction, including aggregate base and asphalt concrete (AC). The tests performed included Proctor density/ optimum moisture content relationships and Hveem unit weight and stability.
Ronald S. Halbert, PE  
Engineering Task Manager

Mr. Halbert’s professional experience includes performing geotechnical investigations, engineering analysis of laboratory and field testing, and materials testing and special inspections for municipal, commercial, industrial, and military projects. His project experience includes commercial subdivisions, residential subdivisions, retail shopping centers, public schools, roadways, wastewater treatment facilities, pipelines, and other public and private works. Mr. Halbert’s responsibilities at Ninyo & Moore include overseeing and managing geotechnical and construction engineering projects, performing third-party reviews, participating in value engineering studies, and preparing and reviewing geotechnical, construction inspection and materials testing reports and specifications.

EXPERIENCE

Sweetwater Authority Hilltop Drive Water Main Replacement Project, Chula Vista, California: Project Engineer for geotechnical observation and materials testing services during the construction phase for the Hilltop Drive Water Main Replacement project. The project included the installation of approximately 4,400 lineal feet of 12-inch diameter PVC water main piping. Services during the construction phase included field density testing of trench backfill operations, field density testing of street subgrade, field density testing during aggregate base placement, field density testing of paving operations, and laboratory testing of soils and AC materials used by the contractor during earthwork and paving operations.

Otay Water District 980-3 Reservoir, Chula Vista, California: Project Engineer during a geotechnical evaluation for the 980-3 Reservoir project. The 980-3 Reservoir is a 10-million gallon, 290 feet in diameter, concrete or steel, above grade reservoir. The reservoir site is located on the northern portion of an existing Otay Water District facility at the northern end of the Auld Golf Course. Two existing reservoirs (980-1 and 980-2) and a storage pond are located to the south of the reservoir site.

City of Chula Vista Pavement Rehabilitation Program, Chula Vista, California: Technical Advisor during geotechnical observation and materials testing services for the City of Chula Vista pavement rehabilitation program. The project consisted of the application of a chip seal and fog coat to 2,138,380 square feet of existing roadway, the application of a Type II slurry seal to 422,000 square feet of existing roadway, and the removal and replacement of 6,022 tons of existing asphalt concrete (AC) pavement at various locations within the City of Chula Vista.

Meadow Lark/Health Center Drive Water Main, San Diego, California: Principal Engineer during special inspection services for the Meadow Lark/Health Center Drive Water Main project, which consisted of jack-and-bore operations to construct approximately 265 linear feet of 36-inch steel casing underneath State Route 163. Steel casing was added in 20-foot sections and welded under the continuous inspection of our certified welding special inspector. The steel casing was constructed with the purpose of housing a 16-inch polyvinyl chloride pipe connecting water services between the Linda Vista Hills Community and the Cabrillo Palisades Community.

Pacific Beach Pipeline and South Ingraham Street Bridge, San Diego, California: Principal Engineer during special inspection and materials testing services for the Pacific Beach Pipeline project. Services included inspection and testing services during construction of a 20-inch diameter welded steel cement lined (WSCL) water pipeline along North Ingraham Street Bridge (approximately 790 lineal feet) and along South Ingraham Street Bridge (approximately 1,190 lineal feet), and a 6-inch diameter polyvinyl chloride (PVC) sewer pipeline along North Ingraham Street Bridge (approximately 790 lineal feet). The new 20-inch WSCL water pipeline and the new 6-inch diameter PVC sewer pipeline were supported by brackets attached to the existing bridge girders with post-installed anchors.

EDUCATION

Graduate Studies, Civil Engineering, San Diego State University
B.S., Civil Engineering, 1983, San Diego State University

REGISTRATIONS

PE 42204 (California)
PE 9292 (Nevada)
PE 30607 (Arizona)
FAA Pilot License 4115375

PROFESSIONAL AFFILIATIONS

American Council of Engineering Companies, President San Diego Chapter
American Society of Civil Engineers
Transportation
Associated General Contractors, San Diego Chapter
Public Liaison
Government Liaison
Airport Authority Liaison
Unified Port District Liaison
William R. Morrison, PE, GE
Engineering Task Manager

Mr. Morrison has experience in a variety of commercial, public works and infrastructure, education, health care, telecommunications, and military sector projects throughout California, Arizona and Nevada. He is knowledgeable and experienced in analysis and design of both soil and rock slopes; stability buttress design, deep and shallow foundation design, pavement structural section design; seismicity analysis including ground motion analysis, liquefaction, seismic settlement and lateral spreading evaluation and mitigation; and consolidation evaluations. His responsibilities include project management, mentoring and directing staff and project engineers, supervising and conducting subsurface investigations, reviewing laboratory test results, monitoring and analysis of slope inclinometer data and authoring geotechnical reports. Mr. Morrison has also been retained as a Subject Matter Expert by the California Board for Professional Engineers, Land Surveyors and Geologists during the development, grading and standard setting of the 1999-2019 Geotechnical Engineering registration examinations.

EXPERIENCE

San Diego County Water Authority Fallbrook 4/Rainbow 7 FCF, Fallbrook, California: Senior Engineer during a geotechnical evaluation for the construction of a new flow control facility between Pipelines 4 and 5. The new flow control facility includes a new above-grade concrete masonry unit (CMU) structure to house flow control valves, piping, and instrumentation.

Rainbow Municipal Water District Beck Reservoir UV Disinfectant Facility, Fallbrook, California: Project Engineer during a geotechnical evaluation for the Beck Reservoir UV Disinfectant Facility project. The facility included a UV building, electrical building, chemical facility, generator pad, and interconnecting vaults.

San Diego County Water Authority Carlsbad 6 Flow Control Facility, San Marcos, California: Project Engineer during a geotechnical evaluation for the San Diego County Water Authority Carlsbad 6 Flow Control Facility (FCF) project. The project included the design and construction of a new flow control facility, which is located west of the existing Carlsbad 1 FCF building and City of Carlsbad Water System Connection Vault. The project included a new FCF building, piping and valves, and vaults and other associated improvements. The project also included construction of an approximately 4½-foot tall retaining wall on the southwest portion of the project site.

Rockhoff Pump Station Replacement, Escondido, California: Project Manager during a geotechnical evaluation for the Rockhoff Pump Station Replacement project. The project consisted of the construction of a new pump station, piping, an associated pump station building, asphalt concrete paved driveways and parking, and other improvements. The pump station building and most of the other structures are founded on shallow spread foundations, while various equipment pads and smaller structures are supported on mat foundations. The project grading consisted of fills of up to 6 feet along the south side of the new pump station building to create a level building pad.

Coast Highway 101 Sewer Pump Station Rehabilitation, Encinitas, California: Project Manager during a geotechnical evaluation for the Coast Highway 101 Sewer Pump Station. The project will involve the rehabilitation of an existing pump station, along with the installation of associated pipelines. The pump station is largely below grade and includes a wet well that is approximately 20 in depth. A new 4-inch diameter sewer force main will be will extend from the pump station east to a connection located at Dublin Drive and Newport Avenue. A majority of the pipeline will be installed using trenchless methods and will extend beneath Highway 101, the San Elijo Creek Channel, railroad tracks that parallel Highway 101, San Elijo Avenue and a portion of Dublin Drive. The remainder of the pipeline will be constructed using open trench methods.

EDUCATION

M.S., Geological Engineering, 1990, University of Nevada Reno
B.S., Geology, 1985, Illinois State University

REGISTRATIONS

GE 2468 (California)
PE 52618 (California)
PE 29013 (Arizona)
PE 19274 (Nevada)

PROFESSIONAL AFFILIATIONS

American Society of Civil Engineers
Madan Chirumalla, PE, GE
Engineering Task Manager

Mr. Chirumalla manages geotechnical projects; prepares geotechnical reports and reviews plans and specifications; provides supervision of field investigations; assigns and reviews geotechnical laboratory testing data; evaluates field compliance with written earthwork specifications. Mr. Chirumalla has provided geotechnical and construction phase services for a variety of projects including bridges, roadways, railroads, transmission lines, power plants, reservoirs, levees, pipelines, parking structures, recreational park facilities, schools, government facilities, commercial facilities, and industrial facilities.

EXPERIENCE

Olivenhain Municipal Water District Village Park Recycled Water Project, Encinitas, California: Project Engineer during provided geotechnical and materials testing services for the Olivenhain Municipal Water District (OMWD) Village Park Recycled Water project. The project involved expanding recycled water service to serve the greenbelts, HOA maintained areas, schools and a small executive golf course. The project consisted of approximately 7 miles of 4 to 12-inch diameter pipelines that was installed in existing street right-of-ways and existing OMWD easements. Ninyo & Moore’s geotechnical services included excavation, logging, and sampling of one exploratory borings; geotechnical laboratory testing; performance of geotechnical analysis of the data; and preparation of a geotechnical report.

City of Escondido Lindley Reservoir Replacement Project, Escondido, California: Project Manager during a geotechnical evaluation for the Lindley Reservoir Replacement Project. The project consists of construction of two new water storage tanks with a combined capacity of 2.5 to 3.0 million gallons (mg). The two new reservoir tanks are located approximately 200 to 400 feet west of the existing above-ground water tank. The tanks each have a storage capacity of 1.0 or 1.5 mg and will either be partially or fully buried. As part of construction of the tanks into the hillside, cuts of up to roughly 50 feet were proposed. The tanks are prestressed and post-tensioned concrete structures. The project included construction of above-grade inlet and outlet valves and drain valves. Retaining walls up to approximately 10 feet in height were constructed at the valve locations. An asphalt concrete access road was also constructed.

Ramona Municipal Water District Poway Pump Station, Poway, California: Project Engineer during a geotechnical evaluation and observation, and materials testing services for the improvements to the existing Ramona Municipal Water District (RMWD) Poway Pump Station. The pump station is located on a hillside that descends to the north towards Green Valley. The pump station currently consists of an above-ground water tank, and associated buildings, pumps, and smaller tanks. The improvements included the construction of an approximately 15-foot tall retaining wall, aligned adjacent to the toe of the existing slope that separates the existing water storage tank to the east, and the existing pumps and engines to the west. In addition, a new engine pad approximately 10 feet by 23 feet in dimension, was constructed atop the compacted backfill of the new retaining wall, and east of the existing surge tanks.

City of Poway Oak Knoll Sewer Siphon, Poway, California: Project Engineer for observation and materials testing services during the construction of the proposed sewer siphon air jumper project on Oak Knoll Road in Poway, California. The project will consist of the installation of 740 linear feet of relatively shallow, concrete-encased 10- to 14-inch diameter pipe and two associated manhole structures in the road. Roadway improvements included a 4-inch asphalt concrete (AC) overlay over a 175-foot long portion of the project.

EDUCATION

M.S., Civil/Geotechnical Engineering, 2005, University of Alabama in Huntsville
B.S., Civil Engineering, 2003, Osmania University, India

REGISTRATIONS

GE 3047 (California)
PE 74186 (California)

PROFESSIONAL AFFILIATIONS

American Society of Civil Engineers
Gabriel Smith, PE, GE
Engineering Task Manager

Mr. Smith develops scope of work for materials testing and inspection projects, provides supervision and technical guidance to field and laboratory personnel; oversees geotechnical field observation, testing, and inspection of compacted fills, concrete, reinforced concrete, post-tensioned concrete, asphalt concrete, structural masonry, steel welds, bolting, spray-applied fireproofing, and other building materials; analyzes and reviews field and laboratory data; and authors and reviews materials testing and inspection reports.

EXPERIENCE
San Diego County Water Authority Vista 1/Vallecitos 2 Flow Control Facility, Escondido, California: Project Engineer during a geotechnical evaluation for the San Diego County Water Authority Vista 1/Vallecitos 2 Flow Control Facility (FCF) project, which included the design and construction of a new FCF located approximately 50 feet northeast of the existing facility. The project included a new FCF building, piping and valves, vaults, and perimeter fence among other associated upgrades. The new FCF building consists of a concrete or masonry structure extending below grade and is supported by a mat foundation.

San Diego County Water Authority Carlsbad 6 Flow Control Facility, San Marcos, California: Project Engineer during a geotechnical evaluation for the San Diego County Water Authority SDCWA Carlsbad 6 Flow Control Facility (FCF) project, which included design and construction of a new flow control facility located west of the existing Carlsbad 1 FCF building and City of Carlsbad Water System Connection Vault. The project included a new FCF building, piping and valves, and vaults and other associated improvements. The project also included construction of an approximately 4½-foot tall retaining wall on the southwest portion of the site.

Otay Water District Campo Road Sewer Replacement Project, La Mesa, California: Project Engineer for geotechnical evaluation during design of the Campo Road Sewer Replacement project. The project involved a new 15-inch sewer pipeline for approximately 30 feet in depth and installed by open trench construction methods.

Valley Center Municipal Water District Country Club Reservoir Reconstruction, Valley Center, California: Project Engineer during a geotechnical evaluation for design of Valley Center Municipal Water District’s Country Club Reservoir Project. The Country Club Reservoir is an approximately 10 million gallon (mg) earthen reservoir. The project included demolition of the existing reservoir roof and lining, construction of an earthen berm to split the existing reservoir into two cells, and reconstruction of the reservoir embankments. In addition, the reservoir will receive a new hypalon lining and cover. The cover is supported by a new ring wall to be constructed around the perimeter of the reservoir.

Rockhoff Pump Station Replacement, Escondido, California: Project Engineer for construction observation and testing services during the construction of the Rockhoff Pump Station Replacement project. The involved the construction of a single-story, masonry structure with steel deck roof supported by steel beams. The structure was founded on shallow foundations and concrete slab-on-grade. The project includes the removal of an existing 8-inch waterline and replacement with a 12-inch waterline. Additional improvements included landscaping, concrete flatwork, decomposed granite surfacing on the north, east and south sides of the pump house, and asphalt concrete driveways and parking areas.
Christy M. Kuhns, PE
Engineering Task Manager

Ms. Kuhn’s responsibilities include performance of geotechnical investigations, calculations, laboratory testing, construction observation, and preparation of geotechnical reports.

EXPERIENCE

Sweetwater Authority 36-Inch Transmission Main Replacement, Bonita, California: Project Engineer during a geotechnical observation and testing for the 36-inch Transmission Main Replacement Project. The project includes replacement of approximately 16,000 lineal feet of 24-and 36-inch water main pipeline made up of eight discrete segments. The proposed pipeline will be constructed at invert depths of up to approximately 15 feet below the existing ground surface. A jack-and-bore section is planned where the alignment crosses Interstate 805.

Olivenhain Municipal Water District VALES I Pressure Reducing Station Replacement, Carlsbad, California: Project Engineer during geotechnical observation and materials testing services for the Vales I PRS Replacement Project. The projects consisted of the installation of a new prefabricated pressure reducing system and appurtenances, construction of a concrete pad, and approximately 180 feet of 10-inch PVC water pipe and appurtenances. The project also included pavement section reconstruction in the trench zone area followed by a grind and overlay extending per City of Carlsbad trench repair standards.

Otay Water District 5 Potable Water Pipeline Replacement Projects, Chula Vista/Spring Valley, California: Project Manager during a geotechnical evaluation for the 5 Potable Water Pipeline Replacement P2608, P2609, P2612, and P2616 project. The project includes the installation of new water pipelines in order to replace the existing aging water lines. In general, traditional cut-and-cover trenching techniques are anticipated for the installation of the new water lines. The project spans four alignment segments that are generally identified as the P2608, P2609, P2612, and P2616 Alignments.

Otay Water District Concepcion Avenue Pipeline, Spring Valley, California: Project Manager during a geotechnical evaluation for the Desalination Flow Control Facility (FCF) 5 Project located on Orion Road between El Camino Real and Faraday Avenue. The project consists of installation of approximately 2,200 lineal feet of buried pipeline, an above-grade FCF structure, buried pressure reducing station, concrete masonry unit (CMU) retaining wall, and associated site grading.

City of Coronado Storm Drain Inlet Improvement Project, Coronado, California: Project Engineer for geotechnical observation and testing services during the Storm Drain Inlet Improvement project. The project consisted of replacing the concrete in the vicinity of the storm drain inlets at two sites. The first site is located at Tenth Street and Alley (between F and G Avenue) and the second site is located at Eighth Street and Alley (between F and G Avenue). Our services included geotechnical observation and testing of earthwork and paving operations, concrete placement, laboratory testing, project coordination, and project management.

Carlsbad Desalination Flow Control Facility 5 Project, Carlsbad, California: Project Manager during a geotechnical evaluation for the Desalination Flow Control Facility (FCF) 5 Project located on Orion Road between El Camino Real and Faraday Avenue. The project consists of installation of approximately 2,200 lineal feet of buried pipeline, an above-grade FCF structure, buried pressure reducing station, concrete masonry unit (CMU) retaining wall, and associated site grading.

EDUCATION

M.S., Civil Engineering, 2015, University of New Orleans
B.S., Civil Engineering, 2012, Lafayette College

REGISTRATIONS/CERTIFICATIONS
PE 90982 (California)
PE 41958 (Louisiana)

PROFESSIONAL AFFILIATIONS
American Society of Civil Engineers, San Diego Chapter
Jeremiah Harrington
Engineering Task Manager

Mr. Harrington has over 10 years of experience in the construction and engineering industry including managing and overseeing projects in both the public and private sectors with projects ranging from grading for subdivisions to pipeline replacement. His experience has included project management of CIP projects, review of grading and improvement plans and engineering studies, coordination with utility agencies and other project team members, performance of geotechnical field investigation and soil sampling, field inspection of grading operations, monitoring drilling of piles and micropiles, preparation of compaction and as-graded reports, field and laboratory inspection and testing, and performance of slope stability and pile analyses.

EXPERIENCE

Meadow Lark Health Center Drive Water Main, San Diego, California: Project Manager during special inspection services for the Meadow Lark/Health Center Drive Water Main project, which consisted of jack-and-bore operations to construct approximately 265 linear feet of 36-inch steel casing underneath State Route 163. Steel casing was added in 20-foot sections and welded under the continuous inspection of our certified welding special inspector. The steel casing was constructed with the purpose of housing a proposed 16-inch PVC pipe connecting water services between the Linda Vista Hills Community and the Cabrillo Palisades Community.

Port of San Diego Sweetwater Bicycle Path and Promenade, Chula Vista, California: Senior Staff Engineer for geotechnical observation and testing services during construction of the Sweetwater Bicycle Path & Promenade within the Chula Vista Bayfront. The Sweetwater Bicycle Path & Promenade consists of a multi-use paved path that will connect the Port District’s future Sweetwater and Harbor Parks, and is approximately ½ mile in length. The project includes a pre-manufactured bridge that spans an existing channel, along with landscaping, signage, and other associated improvements.

City of San Diego Old Otay Mesa Road Improvements, San Diego, California: Senior Staff Engineer during geotechnical observation, materials testing, and special inspection services for the Old Otay Mesa Road Improvements, which consisted of the widening of Old Otay Mesa Road from its intersection with Hawken Drive to a distance of approximately 4,000-feet east along the roadway. Further improvements included construction of new pavements, sidewalks, storm drain systems, and infiltration basins. Services included the observation of the stability of temporary and permanent cut slopes, observation of the foundation subgrade for retaining walls, and performance of general grading observations. Materials testing services were performed on the soil nail and tieback grout, the structural concrete, and the shotcrete materials.

San Ysidro Land Port of Entry Construction Observation, San Diego, California: Senior Staff Engineer during geotechnical services at the San Ysidro Land Port of Entry, which included construction observation services for 450 cast-in-drilled-hole (CIDH) piles; surface water infiltration testing in 18 bio-ponds and 6 bio-swales basins; consultation for design of retaining wall stabilization measures; forensic evaluation support for redesign of foundations and pile caps, shoring evaluation, emergency measures in conjunction with stabilization of international border fence; evaluation and recommendations for dewatering and ground stabilization; assistance in redesign of permanent dewatering system for tunnel structures; consultation and evaluation of gamma-gamma test results and consultation for repair of non-conforming piles, and environmental testing and consultation services. The project involved construction of new border station structures, which included a multi-floor parking structure, a below grade vehicle tunnel, and primary and secondary inspection canopies in conjunction with the expansion and realignment of the international border crossing into Tijuana, Mexico.
Todd Schmitz, PG, CEG
Geology Task Manager

Mr. Schmitz has provided geotechnical and construction services for a variety of projects such as educational facilities, hospitals, geologic and fault studies, dams, pump stations, roadways and bridges, and other public and private works. Responsibilities at Ninyo & Moore include managing geotechnical evaluations, supervising field technicians and staff-level geologists and engineers, conducting geologic hazards evaluations, performing geologic mapping and research, analyzing field and laboratory data, and authoring and reviewing geotechnical and geologic reports.

EXPERIENCE

Otay Water District Concepcion Avenue Pipeline, Spring Valley, California: Project Manager during a geotechnical evaluation for the Desalination Flow Control Facility (FCF) S Project located on Orion Road between El Camino Real and Faraday Avenue. The project consists of installation of approximately 2,200 lineal feet of buried pipeline, an above-grade FCF structure, buried pressure reducing station, concrete masonry unit (CMU) retaining wall, and associated site grading.

San Diego County Water Authority Nob Hill Improvements, San Diego, California: Senior Project Geologist for geotechnical, special inspection and materials testing services during the construction of the Nob Hill Improvements Project. The project consists of the construction of an access road from Scripps Lake Drive to the tunnel location with off shoot access points along the route, construction of tunnel portal entrances with temporary shoring and soil nails/rock dowels, excavation of an approximately 10-foot diameter, 600-foot long, drill and blast tunnel for the installation of a 96-inch steel pipe, and interconnection.

Vista Flume and Lining Pilot Project, Vista, California: Senior Project Geologist during materials testing services on the Vista Irrigation District's Vista Flume and Lining Pilot Project. The pilot project consisted of lining a curved section of the existing, rectangular shaped, concrete flume (canal) with a 42-inch diameter high density polyethylene (HDPE) pipe lining system with foam wrapping.

Standish Drive Storm Drain Improvements, Poway, California: Senior Project Geologist providing geotechnical observation and materials testing services during installation of a storm drain box culvert. Associated improvements included curb and gutter and roadway construction following culvert construction. Project obstacles that required additional attention included loose alluvial materials and shallow groundwater conditions.

Bi-Directional Recycled Water Magnetic Flow Meter and Vault, Dairy Mart Road, San Diego, California: Senior Project Geologist during geotechnical, special inspection, and materials testing services for the installation of the City of San Diego bi-directional recycled water magnetic flow meter and vault on Dairy Mart Road. The development consisted of the construction of a cast-in-place concrete vault around an existing 30-inch water line and installation of a flow meter. Services included geologic/engineering field services; field observation; and in-place density testing during wall and utility trench backfill.

City of Poway High Valley Water Line, Poway, California: Senior Project Geologist for compaction testing services during construction of the High Valley Water Line Replacement project. The project consisted of installation of 4,000 feet of 12-inch diameter cement mortar lined, tape coated (CMLTC) steel pipe transmission line. The installation of the new pipe included associated manholes and valves, backfilling of the excavations, and patching of the pavement sections for alignments in public right-of-ways. Services included laboratory testing of the materials used to backfill the trenches and patching of the pavement sections; and performing observation and testing services during placement of the trench backfill subgrade preparation, placement of the aggregate base, and placement of the asphalt concrete sections.
Ms. Tretinjak conducts geotechnical evaluations, prepares geotechnical reports, reviews plans and specifications, and coordinates and conducts field and laboratory investigations. Ms. Tretinjak has provided these services for water and wastewater facilities, schools, commercial buildings, bridges, and other public works projects.

**EXPERIENCE**

Otay Water District Rancho San Diego Basin Sewer, Rancho San Diego, California: Project Geologist during a geotechnical evaluation for the Otay Water District Rancho San Diego Basin Sewer Rehabilitation Phase I project. Services included review of background information; performance of a subsurface exploration consisting of the drilling, logging and sampling of exploratory borings to depths of up to 19 feet; performance of geotechnical laboratory testing on representative samples; compilation and engineering analysis of the data obtained; and preparation of a geotechnical report.

Rainbow Municipal Water District Beck Reservoir UV Disinfectant Facility, Fallbrook, California: Project Geologist during a geotechnical evaluation for the Beck Reservoir UV Disinfectant Facility project. The facility included a UV building, electrical building, chemical facility, generator pad, and interconnecting vaults. The buildings included mat foundations at or near existing grades and ancillary structures were supported by conventional spread footings.

Ramona Municipal Water District Water District Effluent Pipeline, Ramona, California: Project Geologist during a preliminary geotechnical evaluation for the Ramona Municipal Water District’s proposed effluent pipeline to be constructed. The project includes the design of an approximately 18,000-foot long effluent pipeline using conventional cut and cover and trenchless methods extending from the Santa Maria Treatment Plant on the east to ponds near Rangeland Road on the west. The 20-inch diameter HDPE pipeline is anticipated to be at a depth of approximately 5 feet in trenched areas up to 15 feet deep at jack-and-bore or horizontally directional drilled (HDD) locations.

San Diego County Water Authority Fallbrook 4/Rainbow 7 Flow Control Facility, Fallbrook, California: Project Manager during a geotechnical evaluation for the construction of a new flow control facility between Pipelines 4 and 5 for Pipelines 4 and 5 which are located in Fallbrook and Rainbow, California, respectively. The new flow control facility included a new above-grade concrete masonry unit (CMU) structure to house flow control valves, piping, and instrumentation.

Ramona Municipal Water District Poway Pump Station, Poway, California: Project Geologist during a geotechnical evaluation for improvements to the existing Ramona Municipal Water District Poway Pump Station. The pump station consisted of an above-ground water tank, and associated buildings, pumps, and smaller tanks. The improvements included the construction of an approximately 15-foot tall retaining wall, and a new engine pad atop the compacted backfill of the new retaining wall.

San Diego County Water Authority First Aqueduct Structures, Flow Control Facilities, and Lining Rehabilitation, Hubbard Hill North, San Diego County, California: Project Geologist during a geotechnical evaluation for the rehabilitation of pipes and flow control structures along Pipelines 1 and 2 at the Hubbard Hill North site. Improvements involved access portals, concrete vaults/turnout structures, and pipe encasements at 15 locations along Pipelines 1 and 2.
Nissa Morton, PG, CEG
Geology Task Manager

Ms. Morton conducts geotechnical evaluations, prepares geotechnical reports, coordinates and conducts field and laboratory investigations, and evaluates field compliance with earthwork specifications. Ms. Morton has provided these services for commercial buildings, schools, and airports, and various public works projects.

EXPERIENCE

Otay Water District Hillsdale Road Water and Sewer Replacement, Rancho San Diego, California: Project Geologist during a geotechnical evaluation for design of the Hillsdale Road Water and Sewer Replacement project. The project includes the replacement of approximately 4,000 lineal feet of water and sewer pipeline.

Rainbow Municipal Water District R.A. Weese Filtration Plant Pump Station Improvements, Vista, California: Project Geologist during a geotechnical evaluation for design of the Rainbow Municipal Water District’s pump station at the R.A. Weese Filtration Plant. The project involved the construction of a new pump station at the site, along with the installation of new 16-inch diameter pipelines were also part of the interconnect project. The new pipelines included a discharge pipeline section within Silverleaf Lane and a suction pipeline section on the south side of the new pump station, and were anticipated to be constructed approximately 6- to 10-feet below existing grades.

San Diego County Water Authority Nob Hill Improvements, San Diego, California: Project Geologist for geologic observation services during the construction of the Nob Hill Improvements Project. The project consisted of the construction of a new 96-inch diameter steel water pipe via tunnel in metavolcanic rock. Geotechnical/geologic services consisted of geologic observation and logging during tunneling operations, compilation of geologic data, and preparation of a final report presenting field observations.

Olivenhain Municipal Water District Village Park Recycled Water Project, Encinitas, California: Project Geologist during a geotechnical evaluation for the Village Park Recycled Water project, which included a new pump station, 12-inch diameter water pipeline roughly 8,000 feet in length, new 8-inch diameter water pipeline roughly 4,000 feet in length, and various new 6-inch diameter water pipeline roughly 19,700 feet in length. The new pump station is located on the 16-inch pipeline, on a commercial property approximately 500 feet west of El Camino Real. The pump station is a prefabricated package pump station installed behind an existing retaining wall north of the site.

City of Chula Vista Orange Avenue at Hilltop Drive Cross Gutter Rehabilitation Program: Project Geologist during pavement coring and R-value testing for the Cross Gutter Rehabilitation Program project at Orange Avenue and Hilltop Drive. The focus areas for this rehabilitation included the existing pavements along Orange Avenue west of Hilltop Drive.

Otay Water District Campo Road Sewer Replacement Project, La Mesa, California: Project Geologist for a geotechnical evaluation during design of the Campo Road Sewer Replacement project. The project involves a new 15-inch sewer pipeline for approximately 30 feet in depth and installed by open trench construction methods. The section of pipeline replacement extends approximately 875 feet northwesterly from the north side of the right-of-way for Campo Road (SR-94).
Mr. Hasten conducts geotechnical evaluations, prepares geotechnical reports, coordinates and conducts field and laboratory investigations, and evaluates field compliance with earthwork specifications. Mr. Hasten also provides field observation during construction operations including grading, temporary cuts, excavations for foundation, drilling of deep foundations, drilling and installation of soil nails and tiebacks, and pile driving installations.

EXPERIENCE

Ramona Municipal Water District Rio Verde Sewer Replacement Project, Ramona, California: Project Geologist during a geotechnical evaluation for the sewer line replacement at Rio Verde Drive. The project consists of replacing an existing sewer line along Rio Verde Drive and a portion of Pappas Road. Services included review of background information; performance of a field reconnaissance to observe existing site conditions; performance of a subsurface exploration consisting of the drilling, logging, and sampling of four exploratory borings with using a truck mounted drill rig equipped with hollow stem augers; performance of geotechnical laboratory testing on selected soil samples; performance of a seismic refraction survey; and preparation of a geotechnical report presenting.

California American Water Strand Main Replacement, Coronado and Imperial Beach, California: Project Geologist during geotechnical consulting services for the California American Water Strand Main Replacement project. The geotechnical evaluation was performed to evaluate the soil, geologic and groundwater conditions along the pipeline alignment for design and construction recommendations. The project improvements included installation of approximately 52,000 lineal feet of new 16-inch-diameter polyvinyl chloride pipe, ductile iron pipe, or earthquake resistant ductile iron pipe to replace aging or inadequate pipes. The pipeline construction was anticipated to primarily utilize traditional open-cut trench construction techniques. However, portions of the replacement may be performed using trenchless technologies where open-cut trench construction is not feasible.

Northwest Quadrant Drainage Improvements, Carlsbad, California: Project Geologist during a preliminary geotechnical evaluation for the Northwest Quadrant Drainage Improvements. The project includes curb and gutter improvements, installation of area and storm drains, and construction of green street planter blocks and infiltration BMPs along three streets that have experienced issues with storm water runoff. Ancillary improvements will include construction or replacement of sidewalks, driveways, and pavements. The project will improve drainage conditions, and reduce erosion, water ponding, and storm water overflow.
Mr. Nowicki performs inspections of the project elements including concrete, steel, masonry, spray-applied fireproofing, high-strength bolts, shotcrete, and welding both in the fabrication shop and at the site. He obtains or prepares representative specimens of these materials to be tested in our certified laboratory. His observations are documented in detail in inspection reports provided to the building official and utilized for final close-out of the project. Mr. Nowicki maintains clear communication with the Project Manager regarding all aspects of the field operations.

**Relevant Project Experience**

- Ramona Municipal Water District Poway Pump Station
- City of San Diego Scripps Ranch Pump Station
- Padre Dam Municipal Water District Mountain Top Reservoir
- Encina Wastewater Authority Phase V Expansion
- City of Chula Vista Civic Center Renovation
- City of Oceanside Loma Alta Creek UV Treatment Facility
- Southern Regional Tertiary Treatment Plant
- San Diego County Water Authority Pipelines 3 and 4 Relining

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Mr. Guzman provides field observation, and quality control services during earthwork operations to evaluate conformance with project plans and specifications, including soil characteristics, suitability, in-place density, and moisture content. Mr. Guzman documents his observations and test results in daily reports that are utilized to prepare final project close-out documents. In his role as a Special Inspector, he performs inspections of concrete and shotcrete construction. He obtains or prepares representative specimens of these materials to be tested in our certified laboratory. His observations are documented in detail in inspection reports provided to the building official and utilized for final close-out of the project.

**Relevant Project Experience**

- Sweetwater Authority Bonita Glen Terrace and Glen Verde Drive Watermain
- Sweetwater Authority First Avenue and F Street Water Main
- Olivenhain Municipal Water District Village Park Recycled Water Project
- San Diego County Water Authority Pipeline 5 Relining Delivery Point to Sage Road
- City of Chula Vista Sea Vale Street Sewer Improvements
- Otay Water District PL-20-Inch Jamacha Boulevard Pipeline
- Olivenhain Municipal Water District Palms Reservoir Pipeline Replacement
Mr. Lindsay provides field observation, and quality control services during earthwork operations to evaluate conformance with project plans and specifications, including soil characteristics, suitability, in-place density, and moisture content. Mr. Lindsay documents his observations and test results in daily reports that are utilized to prepare final project close-out documents. In his role as a Special Inspector, he performs inspections of the project elements including concrete, steel, high-strength bolts, and welding both in the fabrication shop and at the site. He obtains or prepares representative specimens of these materials to be tested in our certified laboratory. His observations are documented in detail in inspection reports provided to the building official and utilized for final close-out of the project.

Relevant Project Experience
- Sweetwater Authority Butternut Hollow and Kennelworth Lane Water Main
- Sweetwater Authority 4th and Moss Water Main Project
- San Diego County Water Authority Twin Oaks DAF Treatment Plant
- San Diego County Water Authority Nob Hill Improvements

Mr. Beshay performs inspections on the project elements including masonry, reinforced concrete, pre-stressed concrete, spray applied fireproofing material, and steel, high-strength bolts, and welding both in the fabrication shop and at the site. He obtains or prepares representative specimens of these materials to be tested in our certified laboratory. His observations are documented in detail in inspection reports provided to the building official and utilized for final close-out of the project. Mr. Beshay maintains clear communication with the Project Manager regarding all aspects of the field operations.

Relevant Project Experience
- Vista Irrigation District HB Reservoir Rehabilitation
- San Diego County Water Authority Flow Control Facility Project
- City of Oceanside El Corazon Aquatics Center
- City of Poway Mickey Cafagna Community Center

- Pacific Ridge School Library and Innovation Center
- San Diego Unified School District Point Loma High School Whole Site Modernization
- Poway Unified School District Oak Valley Middle School Classroom Addition
Patrick Simmons, ACI, ICC, DSA, CALTRANS, Special Inspector

Mr. Simmons performs inspections of the project elements including concrete, shotcrete, spray-applied fireproofing, and masonry. He obtains or prepares representative specimens of these materials to be tested in our certified laboratory. His observations are documented in detail in inspection reports provided to the building official and utilized for final close-out of the project. Mr. Simmons maintains clear communication with the Project Manager regarding all aspects of the field operations.

Relevant Project Experience
- Sweetwater Authority Briarwood Road and Bonita Woods Water Main
- San Diego County Water Authority Flow Control Facility Project
- City of San Diego Pacific Beach Pipeline
- San Diego County Water Authority Pipeline 5 Relining Delivery Point to Sage Road
- San Elijo Joint Powers Authority Land Outfall Replacement Project
- Rockhoff Pump Station Replacement

Ivan Guajardo, ASNT, AWS, Special Inspector

Mr. Guajardo performs inspections of the project elements including steel, high-strength bolts, and welding both in the fabrication shop and at the site. He obtains or prepares representative specimens of these materials to be tested in our certified laboratory. His observations are documented in detail in inspection reports provided to the building official and utilized for final close-out of the project. Mr. Guajardo maintains clear communication with the Project Manager regarding all aspects of the field operations.

Relevant Project Experience
- San Diego County Water Authority Twin Oaks DAF Treatment Plant
- City of Poway Buehler Reservoir Rehabilitation Project
- City of San Diego Rancho Penasquitos Pump Station
- Port of San Diego Sweetwater Bicycle Path and Promenade
- Casa De Las Campanas Skilled Nursing Facility
- Southwestern College Math, Science, and Engineering Building
Mr. Timmerman provides field observation, and quality control services during earthwork operations to evaluate conformance with project plans and specifications, including soil characteristics, suitability, in-place density, and moisture content. Mr. Timmerman documents his observations and test results in daily reports that are utilized to prepare final project close-out documents. In his role as a Special Inspector, he performs inspections of concrete and spray-applied fireproofing construction. He obtains or prepares representative specimens of these materials to be tested in our certified laboratory. His observations are documented in detail in inspection reports provided to the building official and utilized for final close-out of the project.

Relevant Project Experience
- Sweetwater Authority Bonita Road 12-Inch Water Main Installation
- Sweetwater Authority L Street 12-Inch Water Main
- Olivenhain Municipal Water District Village Park Recycled Water
- San Diego County Water Authority Nob Hill Improvements
- Otay Water District Grand Avenue and Apple Street Waterline Repair
- Olivenhain Municipal Water District Vales I Pressure Reducing Station Replacement
- City of Chula Vista Citywide Pavement Rehabilitation
- City of Chula Vista Cross Gutter Rehabilitation Program

Alex Gutierrez, ACI, ICC, CALTRANS, Special Inspector/Field Technician

Mr. Gutierrez provides field observation, and quality control services during earthwork operations to evaluate conformance with project plans and specifications, including soil characteristics, suitability, in-place density, and moisture content. Alex documents his observations and test results in daily reports that are utilized to prepare final project close-out documents. Additionally, he is responsible for performing materials testing for concrete strength testing, steel reinforcement, and concrete and masonry testing in accordance with applicable ASTM, AASHTO, ACI, and CALTRANS standards. He provides proper, thorough, and complete files of field and laboratory data, reports, letters, and other pertinent project data. Alex maintains clear communication with the Project Manager regarding all aspects of the field operations.

Relevant Project Experience
- Sweetwater Authority Fourth Avenue and H Street Water Main
- Sweetwater Authority Bonita Glen Terrace and Glen Verde Drive Watermain
- Otay Water District Fuerte Drive Sewer Relocation
- San Diego County Water Authority Pipeline 5 Relining Delivery Point to Sage Road
- City of Chula Vista Cross Gutter Rehabilitation Program
- San Diego County Water Authority Val-Vista Flow Control Project
Kevin Tran, ACI, ICC, DSA, CALTRANS, Special Inspector/Field Technician

CERTIFICATIONS

ACI Concrete Field Testing Technician Grade I
ICC Special Inspector Spray-Applied Fireproofing, Structural
Masonry, Structural Steel and Bolting
DSA Masonry Special Inspector
Caltrans Test Methods Certification
Caltrans Concrete Test Methods Certification
Radiation (Nuclear Gauge) User Safety

Mr. Tran provides field observation, and quality control services during earthwork operations to evaluate conformance with project plans and specifications, including soil characteristics, suitability, in-place density, and moisture content. Mr. Tran documents his observations and test results in daily reports that are utilized to prepare final project close-out documents. In his role as a Special Inspector, he performs inspections of the project elements including concrete, steel, masonry, spray-applied fireproofing, high-strength bolts, shotcrete, and welding both in the fabrication shop and at the site. He obtains or prepares representative specimens of these materials to be tested in our certified laboratory. His observations are documented in detail in inspection reports provided to the building official and utilized for final close-out of the project.

Relevant Project Experience

- Sweetwater Authority Valley Vista and Mesa Vista Way Water Main
- Sweetwater Authority L Street 12-Inch Water Main
- San Diego County Water Authority Val-Vista Flow Control Project
- City of Chula Vista Cross Gutter Rehabilitation Program
- San Diego County Water Authority Flow Control Facility
- City of Chula Vista Citywide Pavement Rehabilitation
- Olivenhain Municipal Water District Operations and Administration Facilities Remodel Project

James V. Contino, ACI, ICC, CALTRANS, Field Technician

EDUCATION

B.A., Political Science, 1982, University of California Santa Cruz

CERTIFICATIONS

ICC Soils Special Inspector
ACI Concrete Field Testing Technician Grade I
Caltrans Test Methods Certification
Radiation (Nuclear Gauge) User Safety
OSHA Excavation Competent Person

Mr. Contino provides field observation, and quality control services during earthwork operations to evaluate conformance with project plans and specifications, including soil characteristics, suitability, in-place density, and moisture content. Mr. Contino documents his observations and test results in daily reports that are utilized to prepare final project close-out documents. He provides proper, thorough, and complete files of field and laboratory data, reports, letters, and other pertinent data. Mr. Contino maintains clear communication with the Project Manager regarding all aspects of the field operations.

Relevant Project Experience

- Sweetwater Authority 16th Street and N Avenue Water Main
- Sweetwater Authority Carvalos Drive Watermain
- Otay Water District Alta Road Water Line Repair
- Olivenhain Municipal Water District Village Park Recycled Water Project
- San Diego County Water Authority Nob Hill Improvements
- City of Chula Vista Broadway Street Improvements
- San Diego County Water Authority Twin Oaks DAF Treatment Plant
- City of Chula Vista Otay Lakes Road Widening Construction
Mark MacCarthy, Field Technician

CERTIFICATIONS
Radiation (Nuclear Gauge) User Safety
OSHA Excavation Competent Person

Mr. MacCarthy provides field observation, and quality control services during earthwork operations to evaluate conformance with project plans and specifications, including soil characteristics, suitability, in-place density, and moisture content. Mr. MacCarthy documents his observations and test results in daily reports that are utilized to prepare final project close-out documents. He provides proper, thorough, and complete files of field and laboratory data, reports, letters, and other pertinent project data. Mr. MacCarthy maintains clear communication with the Project Manager regarding all aspects of the field operations.

Relevant Project Experience
- Sweetwater Authority Calmoor Street and Sweetwater Road Watermain
- Sweetwater Authority First Avenue & F Street Water Main
- Otay Water District Sangamon Avenue Pavement Repair
- Otay Water District Olympic Parkway Pavement Improvements
- San Diego County Water Authority Nob Hill Improvements
- Olivenhain Municipal Water District Palms Reservoir Pipeline Replacement
- Olivenhain Municipal Water District Village Park Recycled Water Project
- City of Chula Vista Citywide Pavement Rehabilitation

Matt A. Ecker, ACI, ICC, Field Technician

CERTIFICATIONS
ACI Concrete Field Testing Technician Grade I
ICC Soils Special Inspector
Radiation (Nuclear Gauge) User Safety

Mr. Ecker provides field observation, and quality control services during earthwork operations to evaluate conformance with project plans and specifications, including soil characteristics, suitability, in-place density, and moisture content. Mr. Ecker documents his observations and test results in daily reports that are utilized to prepare final project close-out documents. He provides proper, thorough, and complete files of field and laboratory data, reports, letters, and other pertinent project data. Mr. Ecker maintains clear communication with the Project Manager regarding all aspects of the field operations.

Relevant Project Experience
- Sweetwater Authority 21st and Harding Water Main
- Sweetwater Authority 16th and N Street Water Main
- Otay Water District Otay Lakes Road Slope Reconstruction
- Olivenhain Municipal Water District El Camino Real Pipeline Replacement and Green Bike Lane Project
- City of Chula Vista Citywide Pavement Rehabilitation
- San Diego County Water Authority Twin Oaks DAF Treatment Plant Upgrades
- City of Coronado Street, Curb and Gutter Improvements
- City of La Mesa Inflow and Infiltration Phase 5
Mario Palacios, ACI, ICC, CALTRANS, Field Technician

CERTIFICATIONS
ACI Concrete Field Testing
Technician Grade I
ICC Soils Special Inspector
Caltrans Test Methods Certification

Mr. Palacios provides field observation, and quality control services during earthwork operations to evaluate conformance with project plans and specifications, including soil characteristics, suitability, in-place density, and moisture content. Mr. Palacios documents his observations and test results in daily reports that are utilized to prepare final close-out documents. He provides proper, thorough, and complete files of field and laboratory data, reports, letters, and other pertinent data. Mr. Palacios maintains clear communication with the Project Manager regarding all aspects of the field operations.

Relevant Project Experience
- Sweetwater Authority Bonita Road 12-Inch Water Main Installation
- Sweetwater Authority 16th and N Street Water Main
- Olivenhain Municipal Water District San Dieguito Road Water Lateral
- Ramona Municipal Water District Santa Maria Sewer Replacement
- Olivenhain Municipal Water District Village Park Recycled Water Project
- San Dieguito Water District Waterline Improvements and Transmission Main Abandonment Project
- City of National City Street Resurfacing Project
- City of Chula Vista Citywide Pavement Rehabilitation

Justin Smolenski, ACI, CALTRANS, Field Technician

CERTIFICATIONS
ACI Concrete Field Testing
Technician Grade I
Caltrans Soils Test Methods Certification

Mr. Smolenski provides field observation, and quality control services during earth-work operations to evaluate conformance with project plans and specifications, including soil characteristics, suitability, in-place density, and moisture content. Mr. Smolenski documents his observations and test results in daily reports that are utilized to prepare final project close-out documents. He provides proper, thorough, and complete files of field and laboratory data, reports, letters, and other pertinent project data. Mr. Smolenski maintains clear communication with the Project Manager regarding all aspects of the field operations.

Relevant Project Experience
- Sweetwater Authority Pavement Observation and Testing
- Olivenhain Municipal Water District El Camino Real Pipeline Replacement and Green Bike Lane Project
- Olivenhain Municipal Water District Valve Replacement Project
- City of Chula Vista Citywide Pavement Rehabilitation
- City of Coronado Third, Fourth, and I Avenue Storm Drain Improvements
- City of Poway Martincoit Road Sewer Project
- San Diego County Water Authority Val-Vista Flow Control Project
Thomas Whelan, ACI, Field Technician

**CERTIFICATIONS**
ACI Concrete Field Testing
Technician Grade I

Mr. Whelan provides field observation, and quality control services during earthwork operations to evaluate conformance with project plans and specifications, including soil characteristics, suitability, in-place density, and moisture content. Mr. Whelan documents his observations and test results in daily reports that are utilized to prepare final project close-out documents. He provides proper, thorough, and complete files of field and laboratory data, reports, letters, and other pertinent project data. Mr. Whelan maintains clear communication with the Project Manager regarding all aspects of the field operations.

**Relevant Project Experience**
- Sweetwater Authority Pavement Observation and Testing
- Olivenhain Municipal Water District Operations and Administration Facilities Remodel Project
- San Diego County Water Authority Flow Control Facility Project
- City of Chula Vista Citywide Pavement Rehabilitation
- City of Poway Martincoit Road Sewer Project
- City of Coronado Transbay Pump Station Evaluation and Repairs
- City of Lemon Grove FY2017-18 Sewer Project

Aaron Frederick, ACI, CALTRANS, Field Technician

**CERTIFICATIONS**
ACI Concrete Field Testing
Technician Grade I
Caltrans Test Methods Certification
OSHA 30-Hour Construction Certification
Radiation (Nuclear Gauge) User Safety

Mr. Frederick provides field observation, and quality control services during earthwork operations to evaluate conformance with project plans and specifications, including soil characteristics, suitability, in-place density, and moisture content. Mr. Frederick documents his observations and test results in daily reports that are utilized to prepare final project close-out documents. He provides proper, thorough, and complete files of field and laboratory data, reports, letters, and other pertinent project data. Mr. Frederick maintains clear communication with the Project Manager regarding all aspects of the field operations.

**Relevant Project Experience**
- Sweetwater Authority Pavement 4th and Moss Water Main
- Sweetwater Authority 21st Street and Harding Avenue Water Main
- Olivenhain Municipal Water District San Dieguito Road Water Lateral
- San Diego County Water Authority Nob Hill Improvements
- Otay Water District Grand Avenue and Apple Street Water Repair
- City of Chula Vista Citywide Pavement Rehabilitation
Mr. Rico provides field observation, and quality control services during earthwork operations to evaluate conformance with project plans and specifications, including soil characteristics, suitability, in-place density, and moisture content. Mr. Rico documents his observations and test results in daily reports that are utilized to prepare final project close-out documents. He provides proper, thorough, and complete files of field and laboratory data, reports, letters, and other pertinent project data. Mr. Rico maintains clear communication with the Project Manager regarding all aspects of the field operations.

**Relevant Project Experience**
- Sweetwater Authority 5th Avenue and L Street Watermain
- Sweetwater Authority Bonita Glen Terrace and Glen Verde Drive Watermain
- San Diego County Water Authority Red Mountain Reservoir
- San Diego County Water Authority Pipeline 5 Relining/Delivery Point to Sage Road Olivenhain Municipal Water District Valve Replacement Project
- City of Chula Vista Cross Gutter Rehabilitation Program
- City of Poway Pomerado Road Sewer Line Repair

Mr. McCune provides field observation, and quality control services during earthwork operations to evaluate conformance with project plans and specifications, including soil characteristics, suitability, in-place density, and moisture content. Mr. McCune documents his observations and test results in daily reports that are utilized to prepare final project close-out documents. He provides proper, thorough, and complete files of field and laboratory data, reports, letters, and other pertinent project data. Mr. McCune maintains clear communication with the Project Manager regarding all aspects of the field operations.

**Relevant Project Experience**
- Sweetwater Authority Chula Vista Water Main Upgrades Project
- Sweetwater Authority Bonita Road and Otay Lakes Road Watermain
- San Diego County Water Authority Twin Oaks DAF Treatment Plant Upgrades
- San Diego County Water Authority Flow Control Facility Project
- City of Poway 2018-2019 Street Maintenance Slurry Seal Project
- City of Oceanside Condition Assessment and Access Improvements Project
Ilias Irby, ACI Field Technician

CERTIFICATIONS
- ACI Concrete Field Testing Technician Grade I
- Caltrans Soils Test Methods Certification
- Caltrans Sampling Highway Materials Test Methods Certification
- Radiation (Nuclear Gauge) User Safety

Mr. Irby provides field observation, and quality control services during earthwork operations to evaluate conformance with project plans and specifications, including soil characteristics, suitability, in-place density, and moisture content. Mr. Irby documents his observations and test results in daily reports that are utilized to prepare final project close-out documents. He provides proper, thorough, and complete files of field and laboratory data, reports, letters, and other pertinent project data. Mr. Irby maintains clear communication with the Project Manager regarding all aspects of the field operations.

Relevant Project Experience
- City of San Diego Pure Water Program
- Port of San Diego Sweetwater Bicycle Path and Promenade
- County of San Diego Countywide Asphalt Overlay “B” FY2018-19 Project
- Casa De Las Campanas Skilled Nursing Facility
- Montgomery Field Taxiway H Emergency Project
- San Diego Unified School District Innovations Academy
- Vista Magnet Middle School Modernization Project

Roman Aranda, ACI, CALTRANS, Field Technician

CERTIFICATIONS
- ACI Concrete Field Testing Technician Grade 1
- Caltrans Concrete Test Methods Certification
- Radiation (Nuclear Gauge) User Safety
- OSHA 40 Hour Hazwoper Certification

Mr. Aranda provides field observation, and quality control services during earthwork operations to evaluate conformance with project plans and specifications, including soil characteristics, suitability, in-place density, and moisture content. Mr. Aranda documents his observations and test results in daily reports that are utilized to prepare final project close-out documents. He provides proper, thorough, and complete files of field and laboratory data, reports, letters, and other pertinent project data. Mr. Aranda maintains clear communication with the Project Manager regarding all aspects of the field operations.

Relevant Project Experience
- Sweetwater Authority Bonita Glen Terrace & Glen Verde Drive Watermain
- Sweetwater Authority 16th and N Street Water Main
- San Diego County Water Authority Val-Vista Flow Control Project
- City of San Diego Pure Water Program
- San Diego County Water Authority Pipeline 5 Relining Delivery Point to Sage Road
- Olivenhain Municipal Water District Operations and Administration Facilities Remodel Project
Mr. Harn provides field observation, and quality control services during earthwork operations to evaluate conformance with project plans and specifications, including soil characteristics, suitability, in-place density, and moisture content. Mr. Harn documents his observations and test results in daily reports that are utilized to prepare final project close-out documents. He provides proper, thorough, and complete files of field and laboratory data, reports, letters, and other pertinent project data. Mr. Harn maintains clear communication with the Project Manager regarding all aspects of the field operations.

Relevant Project Experience

- San Diego County Water Authority Val-Vista Flow Control Project
- San Diego County Water Authority Flow Control Facility Project
- Vista Irrigation District HB Reservoir Rehabilitation
- Port of San Diego Sweetwater Bicycle Path and Promenade City of San Diego Crown Point North Park Improvements
- County of San Diego Countywide Asphalt Overlay "B" FY2018-19 Project

Mr. Vojtaskovic is responsible for performing and overseeing physical and chemical analyses of soil and rock. He also performs and oversees laboratory testing including consolidation, plasticity index, maximum density, sand equivalent, direct shear, moisture and density, gradation and hydrometer, California Impact Test, California Bearing Ratio, and cleanness value. He is responsible for the calibration, certification and maintenance of all laboratory equipment; coordination with project management staff to ensure deadlines are met on a regular basis; training of new personnel on laboratory methods; and provision of technical support for laboratory staff.

Relevant Project Experience

- Sweetwater Authority 36-Inch Transmission Main Replacement
- Sweetwater Authority 2nd Avenue Watermain
- Otay Water District Vista Vereda Water Line Replacement
- San Diego County Water Authority Nob Hill Improvements
- Olivenhain Municipal Water District Village Park Recycled Water Project
- Otay Water District Hillsdale Road Water Line
- City of National City Pedestrian Ramps Improvements
- City of Chula Vista East H Street Bike Lane
Mr. Tapia assists the laboratory manager with testing, calculations, and handling of soil and aggregate samples for various projects; tests masonry block, concrete cylinders, shotcrete, grout blocks, mortar cubes, and beams for flexural strength for compressive strength; tests steel rebar for tensile strength, elongation, and bending capabilities; tests for asphalt content, extraction, gradation, Marshall, Theoretical Maximum Density (Rice), and sand equivalent; performs conformance testing of high strength bolts for tensile strength and hardness; and maintains moist room for concrete curing.

Relevant Project Experience

- Sweetwater Authority 4th and Moss Water Main
- Sweetwater Authority Stockman Street & Cagle Street Water Main
- Otay Water District Vista Vereda Water Line Replacement
- San Diego County Water Authority Pipeline 5 Relining Delivery Point to Sage Road
- Ramona Municipal Water Authority Rio Verde Sewer Replacement
- City of Chula Vista Cross Gutter Rehabilitation Program
- City of National City Pedestrian Ramps Improvements
- City of Poway Martincoit Road Sewer Upsize

Mr. Gutierrez performs testing, calculations and handling of soil, aggregate and concrete samples for various projects; performs physical and chemical analyses of soil and rock; performs laboratory tests, including consolidation, plasticity index, maximum density, sand equivalent, direct shear, moisture and density, gradation and hydrometers, California Impact test, cleanness value, and expansion index; and performs testing of soils for sulfate content, chloride content, pH and resistivity.

Relevant Project Experience

- Sweetwater Authority Chula Vista Watermain Upgrade
- San Diego County Water Authority Red Mountain Reservoir
- Otay Water District Otay Lakes Road Slope Reconstruction
- City of Chula Vista Citywide Pavement Rehabilitation
- Ramona Municipal Water District Rangeland Road Pipeline
- Olivenhain Municipal Water District San Dieguito Road Water Lateral
- City of San Diego Pure Water Program
- City of Poway Pomerado Road Sewer Line Repair
Mr. Van Ginder assists the laboratory manager with testing, calculations, and handling of soil and aggregate samples for various projects; tests masonry block, concrete cylinders, shotcrete, grout blocks, mortar cubes, and beams for flexural strength for compressive strength; tests steel rebar for tensile strength, elongation, and bending capabilities; tests for asphalt content, extraction, gradation, Marshall, Theoretical Maximum Density (Rice), and sand equivalent; performs conformance testing of high strength bolts for tensile strength and hardness; and maintains moist room for concrete curing.

Relevant Project Experience

- Sweetwater Authority Pavement Observation and Testing
- Olivenhain Municipal Water District Operations Facility Remodel and Addition
- Otay Water District Oleander Pressure Reducing Station
- San Diego County Water Authority Pipeline 5 Relining Delivery Point to Sage Road
- City of Chula Vista Citywide Pavement Rehabilitation
- San Diego County Water Authority Red Mountain Reservoir
- City of Coronado Second and Orange Street Improvements
SWEETWATER AUTHORITY
Request for Proposals for On-Call Time and Materials
Geotechnical Engineering and Testing Services

Due:
July 1, 2020 by
2:00 PM

Submitted To:
Sweetwater Authority
Luis Valdez
505 Garrett Avenue, PO Box 2328
Chula Vista, CA 91912-2328
lvaldez@sweetwater.org
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July 1, 2020

Sweetwater Authority
Luis Valdez
505 Garrett Avenue
PO Box 2328
Chula Vista, CA 91912-2328

Subject: Response to Request for Proposals (RFP)
On-Call Time and Materials Geotechnical Engineering and Testing Services

Dear Mr. Valdez,

NOVA Services (NOVA) is pleased to submit this proposal to provide on-call Geotechnical Engineering and Materials Testing Services to the Sweetwater Authority. NOVA is a State of California Small Business Enterprise (SBE), a State of California Disabled Veteran Business Enterprise (DVBE), and a Service-Disabled, Veteran-Owned Small Business (SDVOSB).

NOVA has a staff of engineers, geologists, inspectors, and technicians who are certified through various agencies including the state of California, International Code Council (ICC), American Concrete Institute (ACI), and American Welding Society (AWS). Our laboratory maintains the required degree of certification and accreditation for equipment, methodology, quality control, and technical training. We are inspected and accepted by the Division of the State Architect. We undergo regular assessments and participate in Proficiency Sample Programs with the Cement and Concrete Reference Laboratory (CCRL) and AASHTO re:source (formerly AMRL). In addition, our laboratory is approved by the City of San Diego and has been validated by the US Army Corps of Engineers. NOVA will self-perform all inspection and testing work requested through this contract with our own staff.

To demonstrate NOVA’s qualifications, we have provided a list of differentiators that set us apart from our competition, including:

- **NOVA’s Milestone Report:** The Milestone Report is a formalized reporting system that allows for NOVA to communicate with the Authority and design team throughout the design and construction process allowing for constructive interaction between NOVA, Authority staff, the design team, contractors, and other team members.

- **MetaField:** NOVA has implemented MetaField®, a subscription-based Software-as-a-Solution (SaaS) platform. This software is used by project managers, engineers, field staff, laboratory technicians, and administrators to schedule, dispatch, test, collect, and assemble results to accurately deliver information to clients in real time.

- **Professional Appearance:** NOVA provides our inspection and testing personnel with NOVA uniforms. Our inspectors and technicians arrive at your jobsite with a professional appearance which also allows for easy identification by Authority staff, project team members, and building officials.

- **Project Management:** On too many occasions, testing laboratories have made very little effort to stay within the established project budget. We have tackled this problem in two ways. First we take greater care in our responsibility to create a realistic scope of work and cost estimate. During the proposal process we ask to talk with as many team members as possible to gather feedback regarding durations and quantities. Second, Project Managers have access to project costs on a daily basis, and project budgets are reviewed on a weekly basis. We will notify the Authority when a project has reached 50% of the total budget, or at other milestones as designated. If requested by the Authority, NOVA can provide you with cost control/budget information in a variety of formats (e.g., earned value, cost-to-complete, etc).

NOVA is able to meet the insurance requirements as listed in the RFP. We are in receipt of Addendum No. 1, dated June 26, 2020.
This proposal is in effect for 90 days from the due date of July 1, 2020.

Should you have any questions regarding our qualifications or the materials contained in this submittal, please do not hesitate to contact Wail Mokhtar at 858.292.7575 x 409, 619.718.1007 (cell), or via email at wmokhtar@usa-nova.com. NOVA appreciates your time and consideration on our behalf. As NOVA Services President, Danny Barnett is the person authorized to bind the firm contractually. Danny can be reached at 858.292.7575 x 403, 816.289.0131 (cell), or via email at djbarnett@usa-nova.com.

Respectfully submitted,

NOVA Services, Inc.

Wail Mokhtar
Senior Project Manager

Danny J. Barnett
President
1. **STATEMENT OF CONSULTANT'S QUALIFICATIONS**

   **EXHIBIT B**

   TIME AND MATERIALS CONTRACT  
   (PROFESSIONAL GEOTECHNICAL SERVICES)  
   STATEMENT OF CONSULTANT’S QUALIFICATIONS

   1. **Name of company:** Barnett Quality Control Services dba NOVA Services, Inc.

   2. **Business address:** 4373 Viewridge Avenue, Suite B, San Diego, CA 92123

   3. **When organized:** 4/1/2008

   4. **Where incorporated:** California

   5. **Length of time the company has been in business in San Diego County:** 12 Years

   6. **How many years has the company engaged in business under the present company name?** 8 Years (As NOVA Services, Inc.)

   7. **Brief company history:** Please see Section 2, Company History, on page 8 of this submittal.

   8. **List all applicable references, primarily from other public agencies that the company has had as clients:** Please see Section 7, References, on pages 32-35 and page 3 of this questionnaire.

   9. **Contracts in progress with current completion schedule (percent of work remaining) and contract amount:** NOVA currently has over 200 projects in progress. Some of this work includes: USD Hogan West Tennis Facility, $9,800, 33% / Del Mar Heights School, 18,800, 89% / Hope Elementary School, $65,900, 91% / Wilson Middle School Joint-Use Field, $5,000, 80% / Hoover High School, $575,562, 99% / NASSCO Basin N1 Graving Doc Modification, $50,568, 84% / Crown Air Aviation FBO and Hanger 40/41, $55,510, 32% / Directors Place, $27,800, 16% / Zoo Safari Park Elephant Passage, $25,800, 46%

   10. **List projects completed for Sweetwater Authority in the past five years:** None

   11. **Has the company ever failed to complete any awarded work?** No
1. STATEMENT OF CONSULTANT'S QUALIFICATIONS

EXHIBIT B

TIME AND MATERIALS CONTRACT
(PROFESSIONAL GEOTECHNICAL SERVICES)
STATEMENT OF CONSULTANT'S QUALIFICATIONS

If so, please explain: _____________________________________________________________
____________________________________________________________________________

12. Has the company ever defaulted on a contract? **No**

If so, where and why: __________________________________________________________
____________________________________________________________________________

13. Experience in consulting work similar in scope to this professional geotechnical
   services project: NOVA has 12 years of experience providing professional geotechnical
   services for all types of public and private projects. Please see projects listed on page 3
   of this questionnaire and in Section 7, References on pages 32-35.

14. List names, background, and experience of the principal members of your personnel,
    including the officers: Please see Section 4, Project Staff on pages 12-27 of this submittal.

15. List related project experience with names of assigned personnel: Please see Section 7,
    References on pages 32-35 of this submittal.

16. Résumés of all related personnel to be assigned to the Authority's work. See pages 13-27.

17. Total number of employees: 70

18. How many office personnel: 16

19. Statement of approach and understanding of the on-call services required under this
    contract, with key personnel listed: Please see Section 3, pages 9-11, for the statement of
    approach and understanding, and please see Section 4, pages 12-27 for key personnel.

20. At any time during the last five (5) years, has your company, or any of its owners or
    officers been convicted of a crime involving the awarding of a contract of a
    government construction project, or the bidding or performance of a government
    contract? Yes [ ] or No [x]

21. In the past five (5) years, has any insurance carrier, for any form of insurance, refused to
    renew the insurance policy for your company? Yes [ ] or No [x]. If the answer is "Yes,"
    explain on a separate signed page, the name of the insurance carrier, the form of
    insurance and the year of the refusal.
1. STATEMENT OF CONSULTANT'S QUALIFICATIONS

EXHIBIT B

TIME AND MATERIALS CONTRACT
(PROFESSIONAL GEOTECHNICAL SERVICES)
STATEMENT OF CONSULTANT'S QUALIFICATIONS

22. List the top three references in the following format (this is an example only):

(a) Work for XYZ Water District
(b) Phone number (222) 123-4567
(c) 999 Holly Drive, L.A., CA 92000
(d) Contact: J.Q. Jones III at above phone number
(e) Pipeline replacement in 1990
(f) $1.3 million

Reference Number 1
District or Entity: Richard Brady & Associates for Vista Irrigation District
Phone No.: 858.496.0500
Address: 2655 Camino Del Rio North, Suite 100, San Diego, CA 92108
Name of Contact: Jim Bowen
Scope of Work: Retrofitting Existing Reservoir in 2016
Dollar Amount: $9,900

Reference Number 2
District or Entity: PSOMAS for City of Poway
Phone No.: 619.961.2812
Address: 401 B Street, Suite 1600, San Diego, CA 92101
Name of Contact: Sean Diaz
Scope of Work: Sewer Upsize in Martincoit Road in 2017
Dollar Amount: $19,900

Reference Number 3
District or Entity: LEGOLAND/Merlin Entertainments
Phone No.: 858.334.8938
Address: One LEGOLAND Drive, Carlsbad, CA 92008
Name of Contact: Thomas Storer
Scope of Work: New Bioretention Basin from 2017-2019
Dollar Amount: $16,500
2. COMPANY HISTORY

NOVA Services, Inc. (NOVA) is a State of California Certified Disabled Veteran Business Enterprise (DVBE), State of California Small Business (SB), Service-Disabled Veteran-Owned Small Business (SDVOSB), and City of San Diego Small Local Business Enterprise (SLBE). The firm was formed in 2008. Our team of over 70 employees consists of experienced, technical professionals who bring quality, expertise, and leadership skills to the areas of Geotechnical Engineering, Construction Materials Engineering, Materials Testing, and Construction Special Inspection.

NOVA specializes in providing a large variety of pre-construction, in-construction, and post-construction services for any size project whether new construction, renovations of existing structures, or site improvements.

NOVA Services has a staff of over 70 engineers, geologists, inspectors, project managers, and technicians as well as support personnel committed to providing our clients with exceptional service. Our staff holds various certifications, including HAZWOPER, HAZMAT, ICC, ACI, and AWS. Our laboratory maintains the highest degree of certification and accreditation for equipment, methodology, quality control, and technical training. We undergo regular assessments and participate in Proficiency Sample Programs with the Cement and Concrete Reference Laboratory (CCRL) and AASHTO re:source (formerly AMRL). We are accredited by AASHTO in the testing of soils, asphalt, concrete, aggregate, masonry, fireproofing, and reinforcing. In addition, our laboratory is approved by the City of San Diego, has been validated by the US Army Corps of Engineers, and is inspected and accepted by the Division of the State Architect (DSA).

We have provided services for all types of projects, including:

- Reservoirs
- Pipelines
- Bioretention Basins
- Streets
- Parks
- Libraries
- Municipal Administrative Buildings
3. TECHNICAL APPROACH

NOVA Services has experience efficiently managing concurrent tasks during on-call contracts. By customizing our approach to suit the specific project, we are able to maximize our value while minimizing cost. We provide a proactive approach in advising our clients on budget, reporting, and issues which enables us to create solutions before problems arise.

Upon receiving a task order proposal request for either geotechnical engineering or testing and inspection work, NOVA will prepare a proposal for the Authority outlining the project requirements, proposed scope of work, and budget. We will then work with the Authority to develop the most efficient and cost-effective solutions.

GEOTECHNICAL SERVICES
Our typical scope of services for geotechnical engineering consists of:

| REQUEST FOR PROPOSAL | • Prepare a proposal outlining the scope of work and budget.  
|                      | • Work with the Authority to develop the most efficient and cost-effective solutions.  
| NOTICE TO PROCEED    | • Review of available and relevant geotechnical data pertaining to the site, including geologic maps, topographic maps, prior geotechnical reports, and other pertinent literature.  
|                      | • Scheduling dig alert and utilities clearance as well as scheduling the drill rig or other necessary equipment.  
| FIELD AND LABORATORY SERVICES | • Perform a site investigation to observe the subsurface conditions. Explorations may include drilling, cone penetrometer (CPT) soundings, test pits, and/or coring. One of our geologists will log the borings and collect soils samples for laboratory testing.  
|                      | • The design team will be provided with a preliminary description of our findings the following day. If the findings include unforeseen conditions or potentially cost inhibiting conditions, NOVA will immediately notify the Authority.  
|                      | • Assign appropriate laboratory testing and analysis for the collected soils samples. Within the week after the field investigation, the laboratory testing results will be communicated to the design team providing further clarification and recommendations.  
|                      | • Conduct engineering analysis utilizing the field and laboratory data to develop geotechnical recommendations.  
|                      | • When our geotechnical report reaches the draft stage, we will send it out to the design team for review. This allows the team to review our findings and proposed recommendations and provide any feedback they deem necessary before we finalize our report.  
| FINAL REPORT         | • Once we hear from the design team, we will incorporate their feedback into our report, finalize it, and send it out to the Authority.  

During the design process, after submitting our geotechnical report, we fully expect to be partially involved throughout the remaining design stage. We call this time our Design Development stage. We do not dictate the design schedule but will provide timely responses to questions related to the geotechnical engineering.

MILESTONE PROGRAM
NOVA Services has developed what we call our Milestone Program. The Milestone Program was designed to speed up the process of delivering the necessary geotechnical data to the design team throughout the development of our geotechnical report, rather than waiting until the final report is submitted.
3. TECHNICAL APPROACH

The Milestone Program is a product of NOVA's commitment to keeping its clients informed and involved in the geotechnical process. These Milestones are designed to give clients a step-by-step path to on-time delivery while eliminating unnecessary construction risks. Information conveyed by the Milestones is intended to be informative, not final. Analysis of data and recommendations are preliminary pending the completion of the final report. NOVA will notify the Authority once the phases listed below are completed:

- Scope and Objective
- Preliminary Geotechnical Findings
- Summary of Lab Analysis
- Executive Summary
- Final Report

- Notice of Site Preparation
- Results and Recommendations
- Preliminary Recommendations
- Draft Report

NOVA will maintain contact with the Authority during the course of any geotechnical investigations to keep you informed of our work by a series of Milestone reports that describe the progress and findings of the work.

### MILESTONE NOTIFICATION

June 22, 2020

Milestone Notification 1: Subsurface Exploration
NOVA Project No. 2020123
Elm Avenue, La Jolla, CA 92037
Attention: Joe Smith, Director

Thank you for choosing NOVA Services.

The Milestone Program is a product of NOVA's commitment to keep its Clients informed and involved in the geotechnical process, providing notifications when NOVA has completed milestones identified in the proposal for the work. Information conveyed by the Milestones is intended to be informative, not final. The information and recommendations provided in the Milestone notifications are preliminary, pending completion of the final report.

NOVA has undertaken its work in accordance with its June 2, 2020 revised proposal, as authorized by you on June 2. The Task 2 Subsurface Exploration was completed on June 18. This milestone describes the work completed for the Task 2 Subsurface Exploration, the completion dates of which are summarized below.

<table>
<thead>
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<th>Task 2 Subsurface Exploration</th>
<th>Completion Date</th>
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<td>Subtask 2-1: Recon. &amp; Utility Observe.</td>
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<td>Subtask 2-2: Permitting Complete</td>
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<tr>
<td>Subtask 2-3: Engineering Borings</td>
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<tr>
<td>Subtask 2-4: Percolation Testing</td>
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</table>

### Task 2 Subsurface Exploration

**General**

The objectives of the subsurface exploration are threefold:

- Characterize the occurrence of soil, rock, and groundwater in the subsurface;
- Characterize the mechanical characteristics (e.g., strength and compressibility) of the subsurface materials; and
- Collect subsurface geotechnical related data sufficient to support design for stormwater infiltration BMPs.

#### Subtask 2-3, Engineering Borings

**Objective**

To accomplish the above objectives, NOVA undertook the scope of work described below at the locations shown on Figure 1.

- **Subtask 2-3-1, Engineering Borings:** Completed four (4) engineering borings within the limits of the planned building on June 17 and 18.
- **Subtask 2-4, Percolation Testing:** Constructed two (2) percolation test wells and performed percolation testing in areas of prospective permanent stormwater infiltration BMPs (stormwater BMPs) on June 18.

#### Subtask 2-3, Engineering Borings

**Drilling**

A NOVA geologist directed drilling and sampling of four (4) engineering borings (B-1 through B-4) to depths between 22.5 feet and 41 feet below ground surface (Bgs) on June 17-18, 2020. Samples recovered from the borings were delivered to NOVA’s materials laboratory for analysis. The engineering borings were advanced by a truck-mounted drilling rig utilizing hollow-stem auger drilling techniques. Borings locations were determined by the geologist based on the proposed building configuration. Table 1 provides an abstract of the engineering borings.

![Figure 1. Locations of Task 2 Subsurface Exploration](image1)

#### Testing and Inspection

During testing and inspection services we are completely dependent on the schedule of the construction team. When construction commences, our project management team will meet with the Authority to review the scope of services and obtain plans and specifications in order to prepare a proposal.

**Our typical scope of services for testing and inspection includes:**

- Prepare a proposal outlining the scope of work and budget.
- Work with the Authority to develop the most efficient and cost-effective solutions.
- Attend pre-construction meeting.
- Our project management and dispatch team will communicate with the Authority’s staff regarding the schedule.
3. TECHNICAL APPROACH

FIELD AND LABORATORY SERVICES

- Inspector or technician will arrive on-site and check in with the designated Authority representative. They will discuss the day's activities and review the project plans and specifications to assure the documents are clearly understood and the Authority's needs are fully addressed.
- Conduct all services to ensure that the recommendations of the geotechnical report are being met during soils inspection and testing, and that all special inspection and materials testing services are performed in accordance with the project plans and specifications, and in compliance with the various regulatory agencies and local, state, or federal regulations.
- Leave daily field report describing the work inspected on-site at the end of each day. The report will also be distributed to the team for review. Notification of any non-compliant work will be noted and immediately reported to the Authority's representative.
- Any laboratory testing will be delivered to NOVA's in-house laboratory for processing. Our laboratory staff will dispense testing results regularly and accurately. If there are any failed tests, the designated Authority contact will be notified immediately with a request for information (RFI) regarding how to proceed.

FINAL REPORT

- Attend a project completion meeting and prepare and submit a final report.

QUALITY ASSURANCE

It is important to NOVA that we maintain our Quality Systems Manual (QSM). This provides continuing checks and balances to confirm we are meeting the high standard of quality the Authority has come to expect and to ensure well coordinated and completed projects. Our QSM ensures our team performs work accurately, thoroughly, and in conformance with all project requirements, codes, and standards.

Our Project Manager, James Parker, PE is responsible for ensuring that the assigned technicians are adequately trained, certified, and experienced to perform all necessary testing services. All of NOVA’s technicians and professional staff are certified by the appropriate local, state, national, or international agencies, including the American Concrete Institute (ACI), American Welding Society (AWS), City of San Diego, Division of the State Architect (DSA), International Code Council (ICC), the National Institute for Certification in Engineering Technologies (NICET), and/or the State of California.

To ensure accurate laboratory testing results, NOVA is accredited and/or assessed by nationally recognized agencies and accreditation programs, including DSA, AASHTO re:source (formerly AMRL), the Cement and Concrete Reference Laboratory (CCRL), the City of San Diego, and the US Army Corps of Engineers. Our laboratory quality systems, as well as our facilities and proficiency at laboratory testing are evaluated on a regular basis as specified in ASTM standards for laboratories performing construction testing and inspection.

All reports are reviewed by several members of our team, including a state of California registered Professional Engineer, prior to submittal. All data in the reports, including testing results, analyses, subconsultant's work, and calculations, are reviewed along with budget control and conformance to the task order. Reviews throughout the life of the project will assist in the preparation of a final report.
Wail Mokhtar will serve as NOVA’s Project Manager. Wail will be the contact for the Authority for the duration of this contract. Our proposed team is listed in the organization chart below and key personnel resumes are marked with an asterisk (*). Additional staff members who would be available to the Authority are also included on this organizational chart. Their resumes are available upon request.
WAIL MOKHTAR
PROJECT MANAGER

BACKGROUND

Wail has 20 years of experience with general civil engineering, geotechnical engineering, and project management. He has performed site reconnaissance observations and geotechnical investigations, including geotechnical consultation during construction. He is experienced with earthwork, mass grading, slope stability analysis, evaluation of liquefaction potential, lateral spread potential, and settlement analysis. He also has an in depth knowledge of lab testing techniques. His duties include project management and coordination, preparation of geotechnical reports, performing geotechnical analyses, and review of civil, grading, and structural plans.

EDUCATION

- BS, Civil Engineering, London City University, London, UK

REGISTRATIONS & CERTIFICATIONS

- 24-Hour HAZWOPER Training and 8-Hour Refresher Course
- Nuclear Gauge Operator Certification

ADDITIONAL TRAINING

- Confined Space Entry
- Trenching/Shoring Safety Training

PROJECT EXPERIENCE

City of Poway Martincoit Road Sewer Upsize Project, Poway, CA: Project Engineer during a geotechnical investigation for the replacement of pipes along Martincoit Road. Approximately 1,870 feet of 8-inch diameter pipe will be replaced with 12-inch diameter pipe and 2,970 feet of 10- and 12-inch pipeline will be replaced with 15-inch diameter pipe.

Vista Irrigation District HP Reservoir, Vista, CA: Project Engineer during a geotechnical investigation for retrofitting of an existing water reservoir that is 25 foot tall and 150 foot in diameter. Other features will include a mechanical building with an antennae tower, associated paved driveways, and a security fence.

P-079 CPEN Water Distribution Improvements, MCB Camp Pendleton, Oceanside, CA: Project Engineer during a geotechnical investigation for 29,050 feet of water transmission main improvements, to be completed in two segments. Both segments include of installation of 24-inch diameter PVC lines and segment one includes the removal of an existing 18-inch transmission line. Supporting infrastructure will include a 50-foot diameter elevated reservoir structure to be supported on drilled caissons/piling, two booster stations including new steel framed concrete masonry unit buildings with standing seam metal roofs, and abandonment of existing water transmission mains.

Moreno Avenue and Vigilante Road Sewer Main Extension, Lakeside, CA: Project Manager during earthwork observation and testing, as well as providing pavement section design recommendations, for the installation of 10-inch diameter polyvinyl sewer main along 3,000 linear feet of sewer main extension along Moreno Avenue and Vigilante Road, as well as pavement resurfacing.

Slaughterhouse Canyon Road and Old Vigilante Road Sewer and Water Improvements, Lakeside, CA: Project Manager for pavement section recommendations and during earthwork observation and testing for the extension of 3,300 feet of sewer and water mains. The sewer line is 10 inch diameter pipe and the water line is 12-inch diameter pipe. With the exception of parcels located between the project site and SR-67, all other parcels which could be served by the extension of sewer and water lines are located with the Lakeside Sanitation District Service Area, the Lakeside Water District Service Area, and the Padre Dam Service District Boundary.
JOHN O’BRIEN, GE, PE
PRINCIPAL GEOTECHNICAL ENGINEER

BACKGROUND
As a board certified Diplomat of Geotechnical Engineering, John is recognized as an engineer with an advanced degree of knowledge and expertise in the specialized field of Geotechnical Engineering. He has a broad base of experience focused on technologies associated with geotechnical, foundation, and geoenvironmental engineering. With 30 years of experience in design and consulting engineering as well as 10 years in environmental construction, he is broadly founded in geoenvironmental engineering and construction. John has acted as a Project Engineer, Project Manager, or Principal Engineer on over 1,000 geoenvironmental projects.

EDUCATION
- MBA, Emory University, Atlanta, GA
- MS, Geotechnical Engineering, University of California Berkeley, Berkeley, CA
- BS, Civil Engineering, University of Santa Clara, Santa Clara, CA

PROJECT EXPERIENCE

City of Poway Martincoit Road Sewer Upsize Project, Poway, CA: Principal Geotechnical Engineer during a geotechnical investigation for the replacement of pipes along Martincoit Road. Approximately 1,870 feet of 8-inch diameter pipe will be replaced with 12-inch diameter pipe and 2,970 feet of 10- and 12-inch pipeline will be replaced with 15-inch diameter pipe.

P-079 CPEN Water Distribution Improvements, MCB Camp Pendleton, Oceanside, CA: Principal Geotechnical Engineer during a geotechnical investigation for 29,050 feet of water transmission main improvements, to be completed in two segments. Both segments include of installation of 24-inch diameter PVC lines and segment one includes the removal of an existing 18-inch transmission line. Supporting infrastructure will include a 50-foot diameter elevated reservoir structure to be supported on drilled caissons/piling, two booster stations including new steel framed concrete masonry unit buildings with standing seam metal roofs, and abandonment of existing water transmission mains.

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LEGOLAND Bioretention Project, Carlsbad, CA: Principal Geotechnical Engineer during a geotechnical investigation during the design and construction of drainage and biofiltration structures within an existing channel/basin area. There are two basin areas including a 320 foot by 70 foot east basin and a 1,110 foot by 100 foot west basin. Existing headwall and drainage structures were incorporated into the overall design. The project included construction of French drains and related piping, forebays, biofilters, retaining walls, and inlet structures.
JAMES E. PARKER, PE
PRINCIPAL ENGINEER

BACKGROUND

James has 40 years of experience, with 30 years providing the management of construction materials testing and inspection services for both public and private projects throughout California. His duties include management of all testing and inspection personnel to ensure technical quality of tests and inspections, providing engineering services, and supervising testing and inspection of concrete, masonry and steel structures. He is responsible for maintaining testing laboratory accreditations including AASHTO re:source (formerly AMRL), CCRL, DSA, and the US Army Corps of Engineers. He prepares cost estimates and proposals and manages budgets. For ten years prior to entering the testing and inspection business, James performed structural engineering for various public works projects.

EDUCATION

- BS, Civil Engineering, Carnegie Mellon University, Pittsburgh, PA
- Graduate Studies, Business Administration, University of Pittsburgh, Pittsburgh, PA
- Graduate Studies, Engineering Management and Arctic Engineering, University of Alaska, Anchorage, AK
- Turner School of Construction Management

PROJECT EXPERIENCE

University of San Diego North Utility Road Improvements, San Diego, CA: Project Manager and Principal Engineer during construction of upsizing of utilities along the north road to support planned future facilities. Work included upsizing of chilled water piping, replacement of aged natural gas piping, and providing underground chilled water, heating hot water, steam, and condensate piping.

University of California San Diego SIO Storm Water Outfall, San Diego, CA: Principal Engineer during testing and inspection services after NOVA provided soil-cement recommendations for restoration of the ground in the vicinity of the outfall project which consisted of storm drain system improvements, installing storm water treatment systems and landscape to remove pollutants and to reduce the velocity and volume of runoff to prevent erosion, as well as improving urban runoff media filters above the beach to increase pollutant removal effectiveness.

County of San Diego Crime Lab, San Diego, CA: Project Manager and Principal Engineer during construction of a $107 million project which is part of Phase 3 of the County Operations Center development project. The 158,000 SF building includes several county departments. The facility is four-stories with a basement level. Power supply will come in part from two large solar arrays. The project is designed to achieve LEED Gold certification.

County of San Diego Borrego Springs Library, Park, and Sheriff’s Office, Borrego Springs, CA: Project Manager and Principal Engineer during construction of a $11.2 million design-build project consisted of construction of a 14,100 SF single-story library, 2,000 SF sheriff’s office, a 16 acre county park, and associated sitework. The library was designed to achieve LEED Gold certification and Zero Net Energy performance certification and the park portion of the project implemented low impact development (LID) standards and used sustainable design principles.

County of San Diego Sheriff’s Technology and Information Center (STIC), San Diego, CA: Project Manager and Principal Engineer during construction of a two-story, 45,330 SF wireless and data administration building, technology building, and a 150 foot radio communications tower. Site improvements include site utility infrastructure, access and roadway improvements, parking, loading areas, and a generator yard. The administration building includes administrative office and specialty space for the sheriff’s wireless and data services divisions. Other features include conference/meeting space, media/training center, and storage/warehouse.
JESSE BEARFIELD, PE
SENIOR ENGINEER

BACKGROUND

Jesse has 16 years of experience providing geotechnical services. He has a broad base of experience focused on geotechnical consulting and providing technical recommendations for site remediation, foundation design, earth stabilized walls and pavements. Jesse has vast experience performing work in the field and as an office and geotechnical manager, having acted as Project Engineer, Project Manager, and as a Field Engineer on numerous small to large geotechnical projects. He provides senior review on all NOVA projects.

EDUCATION

- BS, Civil Engineering, South Dakota State University at Brookings, SD

REGISTRATIONS & CERTIFICATIONS

- State of California Professional Engineer #84335
- Radiation Safety Officer
- Nuclear Gauge Operator Certification

ASSOCIATIONS

- American Society of Civil Engineers (ASCE)
- American Public Works Association (APWA)

ADDITIONAL TRAINING

- Fall Protection

PROJECT EXPERIENCE

Vista Irrigation District HP Reservoir, Vista, CA: Senior Engineer during a geotechnical investigation for retrofitting of an existing water reservoir that is 25 foot tall and 150 foot in diameter. Other features will include a mechanical building with an antennae tower, associated paved driveways, and a security fence.

P-079 CPEN Water Distribution Improvements, MCB Camp Pendleton, Oceanside, CA: Senior Engineer during a geotechnical investigation for 29,050 feet of water transmission main improvements, to be completed in two segments. Both segments include of installation of 24-inch diameter PVC lines and segment one includes the removal of an existing 18-inch transmission line. Supporting infrastructure will include a 50-foot diameter elevated reservoir structure, two booster stations, and abandonment of existing water transmission mains.

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Slaughterhouse Canyon Road and Old Vigilante Road Sewer and Water Improvements, Lakeside, CA: Project Engineer during earthwork observation and testing, as well as for pavement section recommendations, for the extension of 3,300 feet of sewer and water mains. The sewer line is 10 inch diameter pipe and the water line is 12-inch diameter pipe. With the exception of parcels located between the project site and SR-67, all other parcels which could be served by the extension of sewer and water lines are located with the Lakeside Sanitation District Service Area, the Lakeside Water District Service Area, and the Padre Dam Service District Boundary.
MATT HEE C, PE
PROJECT ENGINEER/FIELD TECHNICIAN/SPECIAL INSPECTOR

BACKGROUND
Matt has 22 years of experience in the testing and inspection industry. As a Professional Engineer, he has reviewed and certified submittals for civil grading and utilities sections of work. He has prepared Construction Quality Control (CQC) plans, test plans, SWPPP plans, and environmental protection plans. He has been involved in civil design, storm water pollution prevention, and has supervised field testing of soils and concrete to ensure conformance with project plans and specifications. He has provided CQC and alternate CQC services on large projects for various agencies including Caltrans and NAVFAC. In his current role, Matt provides observation and testing of all aspects of earthwork, as well as testing and inspection of concrete.

EDUCATION
- BS, Civil Engineering, San Diego State University, San Diego, CA

PROJECT EXPERIENCE

University of California San Diego SIO Stormwater Outfall Project, La Jolla, CA: Observation and testing of subgrade and backfill, as well as concrete sampling and testing for the project which consisted of storm drain system improvements, installing storm water treatment systems and landscape to remove pollutants and to reduce the velocity and volume of runoff to prevent erosion, as well as improving urban runoff media filters above the beach to increase pollutant removal effectiveness.

South Bay International Wastewater Treatment Plant, San Ysidro, CA: Quality Control Manager during construction of expansions and upgrades including construction of two large cast-in-place concrete tanks, an activated sludge tank (AST), and a secondary sedimentation tank. Other features included new gravity thickeners, a new chlorine injection system, and a new non-potable water system.

Poseidon Carlsbad Desalination Project Pipeline, Carlsbad, CA: Observation and testing of utility trench backfill during construction of a 10 mile, 54-inch conveyance pipeline connecting the Carlsbad Desalination Plant to the San Diego County Water Authority’s regional water distribution system.

City of Escondido El Norte Parkway, Escondido, CA: Concrete and rebar sampling and testing during improvements in the area of the Escondido Creek Channel. A bridge was constructed over the creek, an additional lane was added in each direction on El Norte Parkway, signalized pedestrian crossings were added to increase pedestrian safety, and landscaped and irrigated medians were installed along the parkway. Other project features included removal and replacement of existing pavement, curbs, gutters, pedestrian ramps, sidewalks, and driveways.

Silver Strand Improvements, Coronado, CA: Observation and testing of soils and asphalt concrete, inspection and testing of concrete, as well as Caltrans testing for the entryway to the new military base. Features included a guard shack, guard towers, gates, roads, and driveways. The project also included Caltrans work on Highway 75.

Interstate 805 HOV Lanes, San Diego, CA: Quality Control Manager during construction of the $119 million project consisting of HOV lanes and a new ramp onto southbound Interstate 805 directing motorists directly into the HOV lanes.

REGISTRATIONS & CERTIFICATIONS
- State of California Professional Engineer #70301
- American Concrete Institute (ACI) Concrete Field Testing Technician Grade 1 #00012245
- International Code Council (ICC) Reinforced Concrete #5080112
- City of San Diego Reinforced Concrete, Pile Driving #1029
- Nuclear Gauge Operator Certification
- USACE/NAVFAC Construction Quality Management (CQM) for Contractors
MELISSA STAYNER, PG, CEG
SENIOR ENGINEERING GEOLOGIST

BACKGROUND
Melissa has over 10 years of experience in the geotechnical consulting field. Her strengths are proactive project management, anticipating geotechnical challenges that may arise in the field through preliminary investigations, ingrating mapping of structural geology, and providing quick cost-effective solutions when geotechnical challenges arise. She is an efficient and organized project manager, and is passionate about teaching and developing staff. Her specialty is taking projects from investigation through completion, and working with other consultants on the client’s technical team to provide value engineering and cost savings to the client whenever possible.

EDUCATION
- BS, Geology, University of California Santa Barbara, Santa Barbara, CA

PROJECT EXPERIENCE
University of California San Diego SIO Stormwater Outfall Project, La Jolla, CA: Senior Engineering Geologist during a geotechnical investigation for the project which consists of storm drain system improvements, installing storm water treatment systems and landscape to remove pollutants and to reduce the velocity and volume of runoff to prevent erosion, as well as improving urban runoff media filters above the beach to increase pollutant removal effectiveness.

P-079 CPEN Water Distribution Improvements, MCB Camp Pendleton, Oceanside, CA: Senior Engineering Geologist during a geotechnical investigation for 29,050 feet of water transmission main improvements, to be completed in two segments. Both segments include of installation of 24-inch diameter PVC lines and segment one includes the removal of an existing 18-inch transmission line. Supporting infrastructure will include a 50-foot diameter elevated reservoir structure, two booster stations, and abandonment of existing water transmission mains.

Hope Elementary School Modernization, Carlsbad Unified School District, Carlsbad, CA: Project Manager during a geohazard and landslide investigation for proposed modernizations would include improvements to various buildings, classrooms, and toilet facilities. Additions would include new classroom buildings, a kitchen, playground and equipment, a lunch shelter, and an amphitheater.

Del Mar Heights School Redevelopment, Del Mar Union School District, Del Mar, CA: Senior Engineering Geologist during a geotechnical investigation for a proposed project that would include the complete tear-down of existing facilities and construction of a new, 65,000 SF, campus to support 500 students with classrooms, a kindergarten, multi-use room, administrative spaces, an amphitheater, and enlarged parking lots with safer drop-off zones.

Del Mar Heights School Redevelopment, Del Mar Union School District, Del Mar, CA: Proposed East Pacific Highlands Ranch School, Del Mar Union School District, Del Mar, CA: Senior Engineering Geologist during a geotechnical investigation for the development of a 55,000 SF campus designed to accommodate 450 students. The facilities would include classrooms, an administrative building, kitchen, multi-purpose building, play fields and a hardscape play area, parking, and access for parking, drop-off, and pick-up. In addition, a public park is being considered for future development on the site.

EDUCATION
- BS, Geology, University of California Santa Barbara, Santa Barbara, CA

REGISTRATIONS & CERTIFICATIONS
- State of California Professional Geologist #8440
- State of California Certified Engineering Geologist #2707
DARIUS MITCHELL  
SENIOR STAFF GEOLOGIST

BACKGROUND

Darius has three years of experience in the geotechnical field. As a Senior Staff Geologist, he is responsible for independent coordination and performance of geotechnical investigations, assessment/review of the geologic elements of projects, and production of geotechnical reports. Darius has provided geotechnical engineering for all types of projects including schools, universities, multi-family housing, hotels, parks, mid- and high-rise buildings, parking lots, and commercial and office buildings.

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<tr>
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**LEGOLAND Bioretention Project, Carlsbad, CA:** Staff Geologist during a geotechnical investigation during the design and construction of drainage and biofiltration structures within an existing channel/basin area. There are two basin areas including a 320 foot by 70 foot east basin and a 1,110 foot by 100 foot west basin. Existing headwall and drainage structures were incorporated into the overall design. The project included construction of French drains and related piping, forebays, biofilters, retaining walls, and inlet structures.

**P-079 CPEN Water Distribution Improvements, MCB Camp Pendleton, Oceanside, CA:** Staff Geologist during a geotechnical investigation for 29,050 feet of water transmission main improvements, to be completed in two segments. Both segments include of installation of 24-inch diameter PVC lines and segment one includes the removal of an existing 18-inch transmission line. Supporting infrastructure will include a 50-foot diameter elevated reservoir structure, two booster stations, and abandonment of existing water transmission mains.

**Slaughterhouse Canyon Road and Old Vigilante Road Sewer and Water Improvements, Lakeside, CA:** Staff Geologist during earthwork observation and testing for the extension of 3,300 feet of sewer and water mains. The sewer line is 10 inch diameter pipe and the water line is 12-inch diameter pipe. With the exception of parcels located between the project site and SR-67, all other parcels which could be served by the extension of sewer and water lines are located with the Lakeside Sanitation District Service Area, the Lakeside Water District Service Area, and the Padre Dam Service District Boundary.
HILLARY PRICE
SENIOR STAFF GEOLOGIST

BACKGROUND

Hillary has five years of experience in the geotechnical and inspection fields. In her current position as a Senior Staff Geologist, she is responsible for independent assessment/review of the geologic elements of projects, which generally consists of civil development including parking lots, paved areas, bridge, and buildings in work directed toward determination of the site setting and site-specific subsurface conditions. She has also provided special inspection of concrete and masonry.

EDUCATION

- BS, Geological Studies, San Diego State University, San Diego, CA

REGISTRATIONS & CERTIFICATIONS

- International Code Council (ICC) Reinforced Concrete #8387680
- 40-Hour HAZWOPER and 8-Hour Refresher Course
- Nuclear Gauge Operator Certification
- Radiation Safety Officer Seminar

PROJECT EXPERIENCE

University of California San Diego SIO Storm Water Outfall, San Diego, CA: Senior Staff Geologist during testing for soils-cement recommendations for restoration of the ground in the vicinity of the outfall project which consisted of storm drain system improvements, installing storm water treatment systems and landscape to remove pollutants and to reduce the velocity and volume of runoff to prevent erosion, as well as improving urban runoff media filters above the beach to increase pollutant removal effectiveness.

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County of San Diego Borrego Springs Library, Park, and Sheriff's Office, Borrego Springs, CA: Staff Geologist during construction of a $11.2 million design-build project consisted of construction of a 14,100 SF single-story library, 2,000 SF sheriff's office, a 16 acre county park, and associated sitework. The library was designed to achieve LEED Gold certification and Zero Net Energy performance certification and the park portion of the project implemented low impact development (LID) standards and used sustainable design principles.
KEVIN CONNER
LABORATORY MANAGER

BACKGROUND

Kevin has 12 years of testing laboratory experience. He has served as both a laboratory manager and laboratory technician in addition to owning his own home maintenance and repair firm. He is responsible for the supervision of all testing to ensure tests are being performed in compliance with standards set by various agencies, including Caltrans, AASHTO Re:Source, the Cement Concrete Reference Laboratories (CCRL), and the City of San Diego. He also ensures tests are performed in accordance with all applicable local, state, and federal regulations. Kevin is also responsible for maintenance, repair, and calibration of the laboratory and field equipment.

REGISTRATIONS & CERTIFICATIONS

- American Concrete Institute (ACI) Concrete Field Testing Technician Grade 1, Aggregate Testing Technician Level 1, Concrete Laboratory Testing Technician Level 1, Concrete Strength Testing Technician, Masonry Lab Testing Technician #00930177
- National Institute for Certification in Engineering Technologies (NICET) Concrete, Soils, and Asphalt Level 1 #137454
- Nuclear Gauge Operator Certification
- Radiation Safety Officer Training

PROJECT EXPERIENCE

Vista Irrigation District HP Reservoir, Vista, CA: Laboratory Manager during a geotechnical investigation for retrofitting of an existing water reservoir that is 25 foot tall and 150 foot in diameter. Other features will include a mechanical building with an antennae tower, associated paved driveways, and a security fence.

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University of San Diego North Utility Road Improvements, San Diego, CA: Laboratory Manager during construction of upsizing of utilities along the north road to support planned future facilities. Work included upsizing of chilled water piping, replacement of aged natural gas piping, and providing underground chilled water, heating hot water, steam, and condensate piping.

On-Call Street Repairs, San Diego County, CA: Laboratory Manager during testing and inspection for street repairs in various areas of San Diego County.
MICHAEL MCNAMARA
FIELD SUPERVISOR

BACKGROUND
Michael has three years of experience providing earthwork observation and testing and supervision of soils technicians in the field. He is a retired Navy Chief, and served for 20 years supervising multiple troops in the submarine force and serving as an assistant navigator. He wrote the Navigation Operations Department Organization regulation manual for all Virginia class submarines. He also has seven years of operations experience performing Control Source Electromagnetics (CSEM) and conventional seismic.

EDUCATION
- BA, Geology, San Diego State University, San Diego, CA

REGISTRATIONS & CERTIFICATIONS
- HAZMAT Certification
- Nuclear Gauge Operator Certification
- Radiation Safety Officer

ASSOCIATIONS
- South Coast Geological Society (SCGS)

PROJECT EXPERIENCE
Slaughterhouse Canyon Road and Old Vigilante Road Sewer and Water Improvements, Lakeside, CA: Field Supervisor during earthwork observation and testing for the extension of 3,300 feet of sewer and water mains. The sewer line is 10 inch diameter pipe and the water line is 12-inch diameter pipe. With the exception of parcels located between the project site and SR-67, all other parcels which could be served by the extension of sewer and water lines are located with the Lakeside Sanitation District Service Area, the Lakeside Water District Service Area, and the Padre Dam Service District Boundary.

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University of San Diego North Utility Road Improvements, San Diego, CA: Field Supervisor and observation and testing of utility trench backfill during construction of upsizing of utilities along the north road to support planned future facilities. Work included upsizing of chilled water piping, replacement of aged natural gas piping, and providing underground chilled water, heating hot water, steam, and condensate piping.

On-Call Street Repairs, San Diego County, CA: Field Supervisor, as well as observation and testing of asphalt concrete, subgrade, and aggregate base material during street repairs in various areas of San Diego County.

County of San Diego Borrego Springs Library, Park, and Sheriff’s Office, Borrego Springs, CA: Field Supervisor, as well as observation and testing of grading, subgrade, and utility trench backfill during construction of a $11.2 million design-build project consisted of construction of a 14,100 SF single-story library, 2,000 SF sheriff’s office, a 16 acre county park, and associated sitework. The library was designed to achieve LEED Gold certification and Zero Net Energy performance certification.
DAVE DANOVER
FIELD TECHNICIAN/SPECIAL INSPECTOR

BACKGROUND

Dave has over 20 years of experience in the testing and inspection industry. He has experience observing grading operations, keyway construction, removal excavations, and water and subdrain installation. He has performed soils, concrete, and asphalt field and laboratory testing as well as concrete and masonry inspection. His prior experience includes field supervision and scheduling, attending pre-construction meetings, and providing punch-list items and performing warranty inspections during project close-out. He has been a Radiation Safety Officer responsible for maintenance, calibration, and technician training of safety procedures. He reviews the approved project plans and specifications to determine the project needs and ensure that the inspections, observation, and testing services are performed in accordance with the project requirements, and in compliance with all local, state, federal or other regulatory agency ordinances.

REGISTRATIONS & CERTIFICATIONS

- American Concrete Institute (ACI) Concrete Field Testing Technician Grade 1 #00030539
- International Code Council (ICC) Reinforced Concrete, Soils, Structural Masonry #5006134
- City of San Diego Reinforced Concrete, Structural Masonry #1165
- National Institute for Certification in Engineering Technologies Asphalt, Concrete, Soils, Construction Level III; Laboratory Level II
- Nuclear Gauge Operator Certification
- OSHA 10-Hour Construction Safety Training
- Polyethylene Heat Fusion: Proper Butt Fusion Technique

PROJECT EXPERIENCE

University of California San Diego SIO Stormwater Outfall Project, La Jolla, CA: Observation and testing of subgrade, aggregate base material, grading, utility trench backfill, and soils-cement backfill as well as concrete sampling, testing, and inspection for the project which consisted of storm drain system improvements, installing storm water treatment systems and landscape to remove pollutants and to reduce the velocity and volume of runoff to prevent erosion, as well as improving urban runoff media filters above the beach to increase pollutant removal effectiveness.

University of San Diego North Utility Road Improvements, San Diego, CA: Utility trench backfill observation and testing during construction of upsizing of utilities along the north road to support planned future facilities. Work included upsizing of chilled water piping, replacement of aged natural gas piping, and providing underground chilled water, heating hot water, steam, and condensate piping.

County of San Diego Borrego Springs Library, Park, and Sheriff’s Office, Borrego Springs, CA: Observation and testing of grading, utility trench backfill, asphalt concrete, subgrade, backfill, and foundations, as well as reinforced concrete inspection and concrete sampling and testing during construction of a $11.2 million design-build project consisted of construction of a 14,100 SF single-story library, 2,000 SF sheriff’s office, a 16 acre county park, and associated sitework. The library was designed to achieve LEED Gold certification and Zero Net Energy performance certification and the park portion of the project implemented low impact development (LID) standards and used sustainable design principles.

SDG&E On-Call Street Repairs, San Diego County, CA: Asphalt concrete observation and testing during street repairs after utility installations in various areas of San Diego County.

Southwestern Community College Emergency Generator, Chula Vista, CA: Inspection of exposed soils in the floor of the excavations during installation of 1.2 MW diesel powered emergency generator and individual ATs to replace 350 kW propane powered emergency generator.
CONNIESUE DICKINSON
SPECIAL INSPECTOR/CERTIFIED WELDING INSPECTION (CWI)

BACKGROUND

ConnieSue has over 40 years in the construction industry, with 20 years as a special inspector and over 30 years as a strong and diverse welder. She works well under emergency and high-pressure situations, and has a high-quality working relationship with all contractor and client personnel. She performs all inspections in compliance with regulatory agency requirements and in accordance with all local, state, and federal regulations and codes.

EDUCATION

- Joint Apprenticeship Training School, Palomar Community College, San Marcos, CA

REGISTRATIONS & CERTIFICATIONS

- American Welding Society (AWS) Certified Welding Inspector #95070121
- International Code Council (ICC) Structural Steel and Welding, Structural Steel and Bolling, Structural Welding #1104120
- City of San Diego Structural Steel and Welding #740

PROJECT EXPERIENCE

SDG&E Rancho Bernardo Data Center Expansion, San Diego, CA: Shop welding inspection during installation of three new air cooled chillers and chilled water pump in an existing equipment yard as well as upgrades of partial existing interior lighting fixtures to LED and new lighting controls.

Sharp Metro Campus SRS MOB 12kV Switch Replacement, San Diego, CA: Field welding inspection during the replacement of a switch.

Scripps Mercy Hospital AC-73 FBU Replacement, San Diego, CA: Shop welding inspection for the project which consisted of disconnection and abandonment in place of AC-73, AC-74, RAF-73, and RAF-74 disconnected and abandoned in place, and a new air handler to be located on the roof adjacent to the existing mechanical room. The existing condensing unit was also relocated and AC-74, RAF-74, EF62, EF64, EF65, EF66, and EF67 were replaced.

County of San Diego Sheriff’s Technology and Information Center (STIC), San Diego, CA: Field welding inspection during construction of the $49 million project which is a part of Phase 3 of the County Operations Center development project. The project consisted of construction of a two-story, 45,330 SF wireless and data administration building, technology building, and a 150 foot radio communications tower. Site improvements include site utility infrastructure, access and roadway improvements, hardscape, parking, loading areas, and a generator yard. The facility features include administrative space, conference and meeting space, a media/training center, and storage/warehouse area. The new technology building provides a wireless communication and data center for the sheriff’s wireless and data services divisions. The facility is built in conformance with ADA regulations.

Pomerado Hospital 10-inch and 4-inch CHWS and CHWR Line Replacement, Poway, CA: Shop and field welding inspection for the replacement of damaged sections of existing 10-inch CHWS/10-inch CHWR and 4-inch CHWS/4-inch CHWR with new sections including seismic support for the new pipes. Installation and connection of new tees with gate valves.

Scripps Mercy Hospital Cath Lab #3 Cardio Neuro IR BiPlane, San Diego, CA: Field and shop welding inspection during installation of Siemens BiPlane. Steris booms, and minor reconfiguration of the existing Cath Lab. The project also included a remodel of existing staff restroom to upgrade to Title 24 Accessibility compliance as well as utility modifications to accommodate new equipment loads.
4. PROJECT STAFF

DUSTIN JASPER  
FIELD TECHNICIAN/SPECIAL INSPECTOR

BACKGROUND

Dustin has 14 years of experience providing earthwork observation and testing and concrete sampling and testing. He has provided observation and testing of mass and precise grading, hillside grading, fill placement and compaction, wall and utility trench backfill, aggregate base material, and asphalt placement and compaction. He has also provided foundation observation, identification of soils and removals, concrete and batch plant inspection, proof/pull testing, proof/torque testing, pacometer, and fabrication shop rebar sampling. He has served as a Laboratory Technician, and has in depth knowledge of laboratory testing methods.

REGISTRATIONS & CERTIFICATIONS

- American Concrete Institute (ACI) Concrete Field Testing Technician Grade 1 #01074688  
- International Code Council (ICC) Soils, Spray-Applied Fireproofing #8064157  
- Nuclear Gauge Operator Certification

PROJECT EXPERIENCE

LEGOLAND Bioretention Project, Carlsbad, CA: Observation and testing of aggregate base material during the design and construction of drainage and biofiltration structures within an existing channel/basin area. There are two basin areas including a 320 foot by 70 foot east basin and a 1,110 foot by 100 foot west basin. Existing headwall and drainage structures were incorporated into the overall design. The project included construction of French drains and related piping, forebays, biofilters, retaining walls, and inlet structures.

University of San Diego North Utility Road Improvements, San Diego, CA: Observation and testing of utility trench backfill during construction of upsizing of utilities along the north road to support planned future facilities. Work included upsizing of chilled water piping, replacement of aged natural gas piping, and providing underground chilled water, heating hot water, steam, and condensate piping.

NASSCO Graving Dock Cofferdam, San Diego, CA: Observation of pile driving during installation of a complete and temporary sheetpile cofferdam to fully isolate the graving dock. The cofferdam consists of steel sheetpiles with welded flange plates supported by plumb and battered HP steel piles and a steel waler system.

County of San Diego Sheriff's Technology and Information Center (STIC), San Diego, CA: Concrete sampling during construction of a two-story, 45,330 SF wireless and data administration building, technology building, and a 150 foot radio communications tower. Site improvements include site utility infrastructure, access and roadway improvements, security gate improvements, landscape, parking, loading areas, and a generator yard. The administration building includes administrative office and specialty space for the sheriff’s wireless and data services divisions.

County of San Diego Borrego Springs Library, Park, and Sheriff's Office, Borrego Springs, CA: Observation and testing of grading, subgrade, and utility trench backfill during construction of a $11.2 million design-build project consisted of construction of a 14,100 SF single-story library, 2,000 SF sheriff’s office, a 16 acre county park, and associated sitework. The library was designed to achieve LEED Gold certification and Zero Net Energy performance certification and the park portion of the project implemented low impact development (LID) standards and used sustainable design principles.
Robert Vanderpol II
SPECIAL INSPECTOR

BACKGROUND

Robert has over 20 years of experience. He has served as a Special Inspector, Staff Engineer, Project Manager and Field Technician. His past responsibilities included coordinating with project teams regarding construction activities, code and plan requirements, inspections, budgets and scheduling. He has managed up to six staff members, scheduling and coordinating their work and tracking inspection hours. Other duties included tracking of anticipated upcoming workloads and estimated costs, developing and managing a concrete maturity testing program, and devising and implementing a high strength bolt testing program meeting OSHPD requirements. His fieldwork includes testing and inspection of soils, earthwork, asphalt paving, prestressed and reinforced concrete, masonry, structural steel and welding. In his current position, Robert provides inspection and testing of concrete, masonry, and welding.

REGISTRATIONS & CERTIFICATIONS

- State of Washington Professional Engineer #37433
- American Concrete Institute (ACI) Concrete Field Testing Technician Grade 1 #01172449
- International Code Council (ICC) Reinforced Concrete, Prestressed Concrete, Structural Masonry, Structural Steel and Welding #1027936
- City of San Diego Reinforced Concrete, Prestressed Concrete, Structural Masonry, Structural Steel and Welding #1037
- Nuclear Gauge Operator Certification

PROJECT EXPERIENCE

South Bay Water Reclamation Plant (SBWRP) Demineralization Project, San Diego, CA: Reinforced concrete inspection during relocation of two Electrodialysis Reversal (EDR) units from the North City Water Reclamation Plant to the SBWRP. Other project features included structural foundations, a bulk chemical storage and feed facility, vertical turbine feed pumps, a duplex submersible process waste pump station, and a climate controlled electrical/control building. The project reduces the level of total dissolved solids in the reclaimed water.

City of National City D Avenue Community Corridor Phase II, National City, CA: Reinforced concrete inspection during construction of a new traffic roundabout and improvements to the War Memorial.

Sharp Grossmont Hospital Substation Electrical Transformers, La Mesa, CA: Reinforced concrete inspection during the replacement of substation electrical transformers.

SDG&E Rancho Bernardo Data Center Expansion, San Diego, CA: Epoxy anchor inspection during installation of three new air cooled chillers and chilled water pump in an existing equipment yard as well as upgrades of partial existing interior lighting fixtures to LED and new lighting controls.

County of San Diego Sheriff’s Technology and Information Center (STIC), San Diego, CA: Grout inspection during construction of a two-story, 45,330 SF wireless and data administration building, technology building, and a 150 foot radio communications tower. Site improvements include site utility infrastructure, access and roadway improvements, security gate improvements, landscape, parking, loading areas, and a generator yard. The administration building includes administrative office and specialty space for the sheriff’s wireless and data services divisions.

City of San Diego Fire Station No. 45, San Diego, CA: Masonry inspection during construction of an $11.1 million, two-story fire station which included a Hazardous Material (HazMat) station. Other features of the 16,300 SF facility included a five-bay double-deep apparatus bay, administrative offices, kitchen/dining room, and other support spaces.

ADDITIONAL TRAINING

- OSHA Fall Protection
- Inspection of the Application of Fiber Reinforced Polymer (FRP) Composite Systems
4. PROJECT STAFF

NOVA will be utilizing two subconsultants during this contract.

For drilling services, we will use **Baja Exploration**. Their information is as follows:

**Baja Exploration**  
Dave Hogan, President  
1915 Commercial Street  
Escondido, CA 92029  
P: 760.743.7678  
CA Water Well Driller's License (C57) #804318

For any geophysical services, we will utilize **Terra Geosciences**. Their information is as follows:

**Terra Geosciences**  
Donn Schwartzkopf, Geophysicist  
PO Box 1090  
Loma Linda, CA 92354  
P: 909.796.4667
6. RELATIONSHIPS WITH AUTHORITY

NOVA has no prior relationship with the Authority
VISTA IRRIGATION DISTRICT HP RESERVOIR

VISTA, CA

Geotechnical investigation for retrofitting of an existing water reservoir that is 25 feet tall and 150 feet in diameter. Other features will include a mechanical building with an antennae tower, associated paved driveways, and a security fence.

The geotechnical investigation was performed to characterize the subsurface conditions at the site, provide preliminary geotechnical recommendations for design and construction, and provide seismic parameters to support design of the retrofit in conformance with current seismic standards. Subsurface exploration took place by excavating, logging, and sampling borings. The samples were sent to NOVA's laboratory for testing to address soil index properties and corrosivity potential. Engineering evaluations were conducted with the field and laboratory data obtained, and a report with our findings and preliminary geotechnical recommendations was developed.

SCOPE OF SERVICES:
- Geotechnical Investigation

NOVA'S CONTRACT VALUE: $9,990

REFERENCE: Richard Brady & Associates
Jim Bowen
858.496.0500 / jbowen@rbrady.net

CITY OF POWAY MARTINCOIT ROAD SEWER UPSIZE

POWAY, CA

NOVA Services provided a geotechnical investigation for the Martincoit Road Sewer Upsize project. This CIP project for the City replaced pipes along Martincoit Road, between Espola Road and Camino del Valle. Approximately 1,870 feet of 8-inch diameter pipe were replaced with 12-inch diameter pipe and 2,970 feet of 10- and 12-inch pipeline were replaced with 15-inch diameter pipe. In addition, approximately 350 lineal feet of sewer adjacent to Green Valley Creek was upsized using pipe bursting and other trenchless methods.

The geotechnical investigation consisted of background review of pertinent documents and field exploration. The subsurface conditions were explored by conducting a site reconnaissance and drilling, logging, and sampling borings. The collected samples of disturbed and undisturbed material were sent to NOVA's laboratory for testing to evaluate soils classifications and engineering properties. Engineering evaluations were directed towards developing geologic and geotechnical recommendations for design and construction of the project. A report was prepared utilizing all the information assembled to provide geotechnical conclusions and recommendations.

SCOPE OF SERVICES:
- Geotechnical Investigation

NOVA'S CONTRACT VALUE: $19,990

REFERENCE: Psomas
Sean Diaz
619.961.2812 / sdiaz@psomas.com
7. REFERENCES

P-079 CPEN WATER DISTRIBUTION IMPROVEMENTS
CAMP PENDLETON, CA

Geotechnical investigation for 29,050 feet of water transmission main improvements, to be completed in two segments. Both segments include of installation of 24-inch diameter PVC lines and segment one includes the removal of an existing 18-inch transmission line. Supporting infrastructure will include a 50-foot diameter elevated reservoir structure to be supported on drilled caissons/piling, two booster stations including new steel framed concrete masonry unit buildings with standing seam metal roofs, and abandonment of existing water transmission mains.

Services included drilling 20 borings at different depths along approximately 7.5 miles of Vandergrift Road, Magazine Road, and Wire Mountain. The borings were logged and disturbed and undisturbed soils were sampled. The samples were sent to NOVA’s laboratory to evaluate visual classifications and determine pertinent engineering properties. A geotechnical report was then developed with our conclusions and recommendations.

SCOPE OF SERVICES:
- Geotechnical Investigation

NOVA’S CONTRACT VALUE: $83,758

REFERENCE: Brown and Caldwell
Victor Tsai
858.571.6703 / vtsai@brwncafd.com

SIO STORMWATER OUTFALL PROJECT, UNIVERSITY OF CALIFORNIA, SAN DIEGO
LA JOLLA, CA

The project consisted of storm drain system improvements, installing storm water treatment systems and landscape to remove pollutants and to reduce the velocity and volume of runoff to prevent erosion, as well as improving urban runoff media filters above the beach to increase pollutant removal effectiveness.

UCSD wanted to restore the ground in the vicinity of the SIO Storm Water Outfall to its approximate original configuration. NOVA provided preliminary recommendations for soil-cement backfilling for the project and for related slope reconstruction operations for the project. UCSD and the Contractor determined that backfill around the outfall structure and behind the headwall was to be completed using soil-cement in order to rebuild the ground that was excavated during the storm drain pipe installation operations. NOVA conducted laboratory testing to determine soil-cement mixes that would be suitable for the Contractor’s needs to place backfill on relatively steeper sloping ground. Utilizing the findings from the testing, NOVA provided recommendations for the use of soil-cement in backfilling and related slope reconstruction at the storm water outfall.

SCOPE OF SERVICES:
- Geotechnical Investigation
- Observation and Testing of Soil-Cement Backfill, Subgrade, Backfill, Asphalt Concrete, Utility Trench Backfill, and Aggregate Base Material
- Footing Excavation Observation
- Concrete Sampling, Testing, and Inspection

NOVA’S CONTRACT VALUE: $25,042

REFERENCE: University of California, San Diego
Ross Kunishige
858.822.4841 / rkunishige@ucsd.edu
MORENO AVENUE AND VIGILANTE ROAD SEWER MAIN EXTENSION
LAKESIDE, CA

The project consisted of installation of 10-inch diameter polyvinyl sewer main along 3,000 linear feet of sewer main extension along Moreno Avenue and Vigilante Road, as well as pavement resurfacing.

**SCOPE OF SERVICES:**
- Pavement Section Design Recommendations
- Observation and Testing of Utility Trench Backfill, Subgrade, Asphalt Concrete, and Aggregate Base Material

**NOVA’S CONTRACT VALUE:** $19,423

**REFERENCE:** Erreca Associates, LLC
Scott Erreca
619.922.8666 / serreca@erreca.com

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LEGOLAND BIORETENTION PROJECT
CARLSBAD, CA

NOVA provided a geotechnical investigation during the design and construction of drainage and biofiltration structures within an existing channel/basin area. There are two basin areas including a 320-foot by 70-foot east basin and a 1,110 foot by 100 foot west basin. Existing headwall and drainage structures were incorporated into the overall design. The project included construction of French drains and related piping, forebays, biofilters, retaining walls, and inlet structures.

The geotechnical investigation was provided to characterize subsurface conditions and provide recommendations for design and construction. Subsurface exploration consisted of the drilling of three borings to depths between 36 to 51 feet below ground surface. The borings were logged and sampled by our geologist. Nine test trenches were also excavated, logged, and sampled. Laboratory testing was performed to address geotechnical soil parameters and corrosivity. The information from the subsurface exploration and laboratory testing was utilized to conduct geotechnical engineering evaluations in order to develop a report with our recommendations regarding development of foundation support for the separate structural elements of the project. Separate reports were provided for retaining wall design parameters and infiltration testing.

**SCOPE OF SERVICES:**
- Geotechnical Investigation
- Observation and Testing of Retaining Wall Backfill, Grading, and Utility Trench Backfill
- Footing Excavation Observation
- Concrete Testing and Inspection

**NOVA’S CONTRACT VALUE:** $16,500

**REFERENCE:** LEGOLAND/Merlin Entertainments
Thomas Storer
858.334.8938/Tom.Storer@legoland.com
7. REFERENCES

NORTH UTILITY ROAD IMPROVEMENTS, UNIVERSITY OF SAN DIEGO

Construction of upsizing of utilities along the north road to support planned future facilities. Work included upsizing of chilled water piping, replacement of aged natural gas piping, and providing underground chilled water, heating hot water, steam, and condensate piping as well as repaving of the road.

SCOPE OF SERVICES:
- Geotechnical Investigation
- Observation and Testing of Grading, Utility Trench Backfill, Subgrade, and Aggregate Base Material
- Footing Excavation and Drilled Piers Observation
- Concrete Sampling, Testing, and Inspection

NOVA’S CONTRACT VALUE: $12,199

REFERENCE: University of San Diego
Timothy Doudna
619.260.4764 / doudnat@sandiego.edu

SLAUGHTERHOUSE CANYON ROAD AND OLD VIGILANTE ROAD SEWER AND WATER IMPROVEMENTS

The project consists extension of 3,300 feet of sewer and water mains. The sewer line is 10 inch diameter pipe and the water line is 12-inch diameter pipe. With the exception of parcels located between the project site and SR-67, all other parcels which could be served by the extension of sewer and water lines are located within the Lakeside Sanitation District Service Area, the Lakeside Water District Service Area, and the Padre Dam Service District Boundary.

SCOPE OF SERVICES:
- Pavement Section Design Recommendations
- Observation and Testing of Utility Trench Backfill, Subgrade, Asphalt Concrete, and Aggregate Base Material

NOVA’S CONTRACT VALUE: $25,170

REFERENCE: Erreca Associates, LLC
Scott Erreca
619.922.8666 / serreca@erreca.com
TO: Governing Board (Operations Committee)

FROM: Management

DATE: July 10, 2020

SUBJECT: Sweetwater and Loveland Fishing Programs – Operations pursuant to COVID-19 Pandemic

SUMMARY

The Authority owns, operates, and manages two surface water reservoirs along Sweetwater River as key components of its water supply portfolio. Limited shoreline fishing is available at both of these reservoirs. Authority staff activities related to the Fishing Programs have generally been limited to opening and closing the gates to the areas, spot-checking of fishing licenses, bait, fish counts, and fish sizes, and general compliance with posted prohibitions.

Background

The Loveland Reservoir Fishing Program was established in 1997 under a property exchange agreement with the United States Forest Service and includes a parking area on Japatul Road, a quarter-mile steep trail from the parking area to a fishing pier at the shoreline, and five miles of shoreline up to 50 feet above the high-water level measured horizontally along the shoreline. There is no cost to the public to use the Loveland Fishing Program. The Sweetwater Reservoir Fishing Program was established in 2004 and is located along the southern shoreline and is accessed from Summit Meadow Road near the County of San Diego’s Summit Park. The cost to the public to use the Sweetwater Fishing Program is $5 per person for fishing and parking and $3 per person for parking only.

Sweetwater Authority’s Fishing Programs are structured differently than other agency programs. Unlike other agencies, the Authority does not have a revenue stream and does not receive property taxes to cover the full costs of supporting the Fishing Programs or the increased costs due to County Health Order requirements. Moreover, unlike other agencies, the Authority does not have full-time or dedicated staff for the administration and implementation of the Fishing Programs.

Both the Sweetwater and Loveland Fishing Programs were closed on March 16, 2020 due to COVID-19, and the Authority has received requests from the public to reopen the programs. Whether the Authority may reopen the Fishing Programs depends on 1) the ability of the Authority to meet the requirements for reopening as set out in the County
Memo to: Governing Board (Operations Committee)  
Subject: Sweetwater and Loveland Fishing Programs– Operations pursuant to  
COVID-19 Pandemic  
July 10, 2020  

of San Diego Health Officer Order dated July 6, 2020, effective on July 7, 2020, and 2)  
identifying funding to cover the expenses associated with compliance.

COVID-19 Pandemic Health Orders

On March 19, 2020, Governor Newsom issued Executive Order 33-20 ordering every  
individual in the State of California to stay at home except as needed to continue the  
operations of the “federal critical infrastructure sectors” as outlined in the Executive  
Order. Thereafter, with the exception of “federal critical infrastructure sectors,” more  
commonly referred to as “essential businesses” in more recently issued San Diego  
County Health Officer Health Orders, all businesses were essentially required to close  
until permitted to safely reopen. The Authority falls within the definition of an “essential  
business” and its employees are considered “critical infrastructure workers” to the extent  
that the Authority and its employees are conducting essential functions. Since March  
19, 2020, numerous additional Executive Orders were issued by Governor Newsom to  
address COVID-19, and the Public Health Officer for the County of San Diego has  
issued a series of Health Officer Orders. However, while the Authority is deemed an  
essential business, the Fishing Programs are not identified as an essential function, and  
therefore can only reopen if in compliance with applicable State and Local  
Requirements as specified in the July 6, 2020 Order. Attached is a summary of the  
evolution of the requirements applicable to the Fishing Programs as set out in the  
Health Officer Orders, to which the Authority is bound.

Currently, the Authority is bound by the requirements of the San Diego County Health  
Officer Order dated July 6, 2020, effective on July 7, 2020. This Health Officer Order  
requires that public parks and recreation area or facility operate in compliance with the  
measures set forth in the State COVID-19 Industry Guidance document issued for  
“Campgrounds, RV Parks and Outdoor Recreation” and prepare a “Safe Reopening  
Plan” pursuant to Section 11 of the Order indicating how the recreation area or facility  
will implement the required measures. Further, the Order provides that parks and  
recreation areas/facilities at which the requirements cannot be effectively implemented  
may be required to close. Last, the current Order maintains language first included in  
the April 9, 2020 Health Officer Order (effective on April 10, 2020) which prohibits  
gatherings of more than one person in a single room or single indoor or outdoor space  
at the same time, unless the gathering consisted only of members of a single-family or  
household. (Sections 2 and 22(b), July 6, 2020 Health Officer Order effective July 7,  
2020)

While many recreation programs within San Diego County have reopened, the current  
trend of COVID-19 positive cases in the County is increasing, causing the County to  
 enact more restrictive measures and reverse previously allowed activities. In the
County, there have been 21 community outbreaks in the past seven days and the nature of the Fishing Programs encourages congregating (e.g., at fishing hotspots and on the fishing pier).

**Safe Reopening Requirements**

Pursuant to these requirements, in order to safely reopen the Fishing Programs the Authority would need to do the following:

- Clean restroom facilities on an accelerated schedule to keep them sanitized
- Encourage visitors to pack out what they pack in to minimize the amount of trash that Authority staff must dispose of
- Implement measures to ensure physical distancing of at least six feet between and among workers and visitors
- Monitor areas where people are likely to gather and ensure that physical distancing and other guidelines are followed

The Authority does not currently have the resources budgeted to enact the above measures.

In addition to the above requirements associated with the COVID-19 pandemic, the Fishing Programs require Authority staff to have significant face-to-face interaction with the public as a part of enforcement/education activities required to protect the Sweetwater and Loveland Reservoirs as drinking water sources. Such interaction increases exposure and risk for the public and Authority staff. The California State Water Resources Control Board, Division of Drinking Water (DDW) has primary jurisdiction over matters related to drinking water reservoirs, along with the Regional Water Quality Control Board. Together, these agencies enforce activities to protect water quality.

Enforcement activities include ensuring against the following banned activities:

- Smoking (which may cause dangerous fires)
- Fishing without a State License
- Using live bait (which could contaminate the reservoirs with quagga mussels or other invasive species)
- Entering the reservoir waters
- Trespassing into sensitive and protected habitat areas
- Consuming alcohol
- Littering
If the Fishing Programs are reopened, it will be difficult for Authority staff to fully enforce these prohibitions, as their one-on-one interactions with recreation patrons will be restricted due to COVID-19.

Authority staff is also responsible for managing 20 portable toilets, including servicing those portable toilets that are not accessible by the third-party contract environmental services (four units) and monitoring all other portable toilets (16 units). Additional staff resources are not available at this time to comply with the “accelerated” cleaning/disinfection of the portable toilets as required under the County Health Order.

Support of the Fishing Programs is an ancillary duty for Authority staff; additional focus placed on the Fishing Programs would reduce the amount of time Authority staff have to work on their mission-critical duties, such as:

- Maintain and operate the Buenger valve for water transfers between Loveland and Sweetwater Reservoirs
- Maintain the Urban Runoff Diversion System (URDS) channels, ponds, forebays, and appurtenances from vegetation overgrowth; operation of URDS gates, valves, and equipment; perform reads of electric and water meters
- Perform flow inspections at various checkpoints along the Sweetwater River
- Maintain access roads around the reservoir, mow reservoir bottom, clear vegetation from reservoir lands and maintain seasonal fire breaks as required
- Remove vegetation growth on the dams and abutments
- Maintain fall protection for work on and below Loveland Dam
- Patrol watershed and reservoir properties for trespassers and damages to property and wildlife
- Install, inspect and repair chain-link, barbed wire, and barb-less fences
- Clean watershed properties
- Maintain and operate the water filtration system at Loveland Reservoir for the fire protection system, residence, and caretaker office
- Use pesticides and herbicides; perform mosquito abatement measures and assist the County Vector control; ensure chemical and hazardous material spills are handled in accordance with State and Federal regulations
- Prepare a variety of documents and reports: Requisitions, work orders, trespassers and violations data, angler, and fish counts, weather reports, water flow and depth readings, monthly summary, watershed data, reports of damage to watershed properties, habitat, and wildlife, and other related activities
- Collect weather station data, water samples, and low flow barrier readings
- Control vegetation by using herbicides and mechanical means within the managed reservoirs limits, firebreaks, roadsides, and other areas as needed
- Monitor and install signage
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- Perform routine maintenance of vehicles, tools, equipment, and apparatus; wash and clean Authority vehicle and boats; maintain, clean, and inspect tools and equipment inventory
- Assist in the application of copper sulfate to the lake as required
- Operate Authority boats to patrol the reservoirs, collect water quality samples and data, inspect and perform data collection from the Quagga monitoring stations, and maintain log booms
- Perform borehole and well readings along the river basin; including inspection, data collection, and operation of the slide gates at Willow Lake

PAST BOARD ACTION
None

FISCAL IMPACT
Reopening the Fishing Programs would cost on the order of $3,000 per week in additional expenses associated with staff and contractor costs, and could be significantly more if staff needs to be onsite full time.

Prior to the pandemic, the Loveland Fishing Program was open 7 days per week and the typical weekly cost to operate the program is $2,700. Estimated weekly additional staff costs to operate the Loveland Fishing Program in compliance with health orders is approximately $1,000 and could be significantly more if staff needs to be onsite full time. Currently, an outside contractor services the portable toilets once per week. To service the portable toilets daily (7 days/week) would cost an additional $700 per week.

Prior to the pandemic, the Sweetwater Fishing Program was open 3 days per week and the typical weekly cost to operate the program is $1,200. Estimated weekly additional staff costs to operate the Sweetwater Fishing Program is $400 and could be significantly more if staff needs to be onsite full time. Currently, an outside contractor services the portable toilets once per week. To service the portable toilets daily (3 days/week) would cost an additional $630 per week.

As stated above, for the Loveland Fishing Program, there are no revenue sources to cover the costs to operate the program. For the Sweetwater Fishing Program, the revenue sources do not fully cover the costs to operate the program.
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POLICY
The Loveland Fishing Program was established as part of a property exchange agreement and legal analysis would need to be conducted to determine what discretion the Authority has in how it is operated.

The Sweetwater Fishing Program was established by the Authority and the Authority has full discretion how it is operated.

ALTERNATIVES
1. Direct staff to keep both Fishing Programs closed, continue to monitor current County Health Officer Orders, and re-examine potential reopening in August.

2. Direct staff to prepare and implement a Safe Reopening Plan and implement measures in compliance with the applicable State COVID-19 Industry Guidance, for one or both of the Fishing Programs utilizing current resources (may result in a reduced level of service such as hours/days of operation).

3. Direct staff to develop a Safe Reopening Plan and implement measures in compliance with the applicable State COVID-19 Industry Guidance for one or both Fishing Programs providing the pre-COVID-19 level of service, which will require resources to cover the additional costs.

COVID-19 PANDEMIC RESPONSE TEAM RECOMMENDATION
The Authority’s COVID-19 Pandemic Response Team recommends that the Authority keep both Fishing Programs closed, continue to monitor current County Health Officer Orders, and re-examine potential reopening in August.

ATTACHMENT
Summary of San Diego County Health Officer Order Provisions Applicable to Recreational Activities
The following is a summary of the evolution of the requirements applicable to the Fishing Programs as set out in the Health Officer Orders, to which the Sweetwater Authority is bound:

- Effective March 29, 2020: “Government entities shall enforce social distancing requirements at all beaches and parks; if a government entity is unable to enforce social distancing at a beach or park, it shall be closed to the public.” (Section 1(f), March 27 Health Officer Order effective March 29, 2020.)

- Effective April 3, 2020: “All public parks and recreation areas including public beaches shall comply with Section 1p above. Parking lots at such facilities shall be closed and all such facilities shall be accessible only from members of the public within walking distance of the facility. Said facilities shall be used solely for walking, hiking equestrian or bicycle riding. The public shall not congregate or participate in active sport activities at said facilities.” (Section 1(r), Addendum 1 to March 27 Health Officer Order effective April 3, 2020.)
  - Section 1(p) required a “Social Distancing and Sanitation Protocol” be prepared prior to permitting members of the public to enter the recreation facility (Section 1(p), Addendum 1 to March 27 Health Officer Order effective April 3, 2020.)
  - From April 3, 2020 through April 30, 2020 three more San Diego County Public Health Officer Orders were issued.
    - All retained the requirement that parking lots at recreational facilities be closed and recreational spaces only be available to members of public who reside within walking distance remained.
    - Additional language was included requiring closure of any recreation areas “where social distancing requirements cannot be effectively implemented.” (April 9 Health Officer Order effective April 9; April 10th Health Order effective; and April 24 Health Officer Order effective April 27.)

- Effective on April 10, 2020: Gatherings of more than one person in a single room or single indoor or outdoor space at the same time, were prohibited, unless the gathering consisted only of members of a single family or household. The previous Health Officer Orders prohibited gatherings of more than 10 people. (Sections 2 and 17(b), April 9, 2020 Health Officer Order effective March 10, 2020.)
  - Effective on May 1, 2020: Certain types of recreation areas and facilities were permitted to open parking lots to 50 percent capacity, and the public was permitted to visit parks and recreation areas for which a “Parks-Beaches-Social-Distancing Protocol” but no gatherings of more than one person was permitted unless they were members of a single family or household. (Section 12, April 30 Health Officer Order effective May 1, 2020.)
From May 1-June 30, 2020: The following additional Health Officer Orders were issued:

- May 7 (effective May 8)
- May 8 (effective May 9)
- May 9 (effective May 10)
- May 21 (effective immediately)
- May 22 (effective immediately)
- May 27 (effective May 27)
- May 29 (effective June 2)
- June 4 (effective June 4)
- June 8 (effective June 9)
- June 15 (effective June 16)
- June 18 (effective June 19)
- June 30 (effective July 1)

Effective July 6, 2020: The Health Officer Order currently in effect was issued and effective on July 7 2020.
TO: Governing Board
FROM: Management
DATE: July 17, 2020
SUBJECT: Strategic Plan Reporting – Year-end Detailed Work Plan Status Report

SUMMARY
On June 12, 2019, the Board adopted the FY 2019-20 Strategic Plan Detailed Work Plan (Work Plan) in conjunction with the annual budget. Each year, staff provides two status updates on the Work Plan – at the mid-point of the fiscal year and at the end of the year. This item is the year-end report.

The Work Plan addresses the seven goal areas of the Strategic Plan and how those goals are to be implemented. Goals are broken down into objectives and objectives are further refined into specific tasks. Tasks are identified as short-term (within the next two years), mid-term (2-5 years), or long-term (beyond 5 year) items.

A brief status update has been provided for each task. Overall, the Authority is 98 percent on target with all stated objectives. Where there are delays an explanation is provided in the comments section.

For purposes of Committee review, the Operations Committee reviews objectives pertaining to Water Quality, System and Water Supply Reliability, and Environmental Stewardship. The Finance and Personnel Committee reviews objectives and performance measures pertaining to Financial Viability, Customer Service, Workforce Development, and Administrative Effectiveness as summarized in the following table:

<table>
<thead>
<tr>
<th>Goal Areas</th>
<th>Operations Committee</th>
<th>Finance and Personnel Committee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Quality</td>
<td>X</td>
<td></td>
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<tr>
<td>System and Water Supply Reliability</td>
<td>X</td>
<td></td>
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<tr>
<td>Financial Viability</td>
<td>X</td>
<td></td>
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<tr>
<td>Customer Service</td>
<td>X</td>
<td></td>
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<tr>
<td>Workforce Development</td>
<td>X</td>
<td></td>
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<tr>
<td>Administrative Effectiveness</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Environmental Stewardship</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>
Recommendations made by the Committees have been included in the Work Plan in red strikeout font.

**FISCAL IMPACT**

Staff plans to implement the reporting component of the Strategic Plan with current resources. Therefore, there is no additional cost for this work product.

**CONCLUSION**

The following report is for informational purposes only.

**ATTACHMENT**

Strategic Plan Detailed Work Plan Status Report
<table>
<thead>
<tr>
<th>Department/Topic</th>
<th>Action Steps</th>
<th>Short Term (0-2 years)</th>
<th>Mid Term (2-5 years)</th>
<th>Long Term (+5 years)</th>
<th>Completion Date</th>
<th>% Complete</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GOAL #1 Water Quality (WQ)</strong></td>
<td><strong>Objective WQ1:</strong> Meet identified Water Quality benchmarks for Taste and Odor, Turbidity, Color, and Chlorine residual (Source: EPA National Primary Drinking Water Regulation Secondary Standard)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Quarterly</td>
<td>100%</td>
<td>On target.</td>
</tr>
<tr>
<td>Water Quality - Water Quality</td>
<td>001.00 Minimize taste and odor events to less than 2.0 complaints per thousand acre-feet of water sold and report results</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Quarterly</td>
<td>100%</td>
<td>The Authority sold 16,182 AF of water and received a total of 17 taste and odor complaints in FY 2019-20. This equates to 1.1 complaints per 1,000 AF of water sold which meets the Water Quality Objective of less than 2.0 customer complaints per 1,000 AF of water sold.</td>
</tr>
<tr>
<td></td>
<td>002.00 Achieve a combined filter effluent turbidity goal of less than 0.3 Nephelometric Turbidity Units (NTU) at least 95% of the time and report results</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Quarterly</td>
<td>100%</td>
<td>The Authority met the Division of Drinking Water (DDW) turbidity goal of less than 0.3 NTU 100 percent of the time during FY 2019-20.</td>
</tr>
<tr>
<td></td>
<td>003.00 Achieve a clearwell effluent chlorine residual SWA goal between 2.0 and 4.0 milligrams per liter (mg/L) and a Division of Drinking Water (DDW) goal between 0.2 and 4.0 mg/L, and report results</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Quarterly</td>
<td>100%</td>
<td>The Authority met the Division of Drinking Water (DDW) chlorine residual goal 100 percent of the time, and the SWA goal 56-84 percent during FY 2019-20.</td>
</tr>
<tr>
<td></td>
<td>004.00 Install a powdered activated carbon storage and feed system to improve taste and odor and cyanotoxin concentrations</td>
<td>X</td>
<td></td>
<td></td>
<td>June 2025</td>
<td>N/A</td>
<td>Completion date is beyond timeline of report. This project will be reviewed as part of the Reservoir Water Quality Improvements task in the Maximizing Reservoir Assets Study.</td>
</tr>
<tr>
<td></td>
<td>005.00 Install iron and manganese removal system at the National City Wells</td>
<td>X</td>
<td>X</td>
<td></td>
<td>December 2022</td>
<td>N/A</td>
<td>Completion date is beyond timeline of report. Design to commence in FY 2020-21.</td>
</tr>
<tr>
<td>Department/Topic</td>
<td>Action Steps</td>
<td>IMPLEMENTATION</td>
<td>% Complete</td>
<td>Status</td>
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<tr>
<td>GOAL #1 Water Quality (WQ)</td>
<td>Provide high quality water that meets regulatory requirements.</td>
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<tr>
<td>Water Quality/Distribution - Water Quality</td>
<td>Objective WQ2: Remove sediment and bacteria film build-up through unidirectional flushing of distribution pipelines (a three-year process) at 6-10 year intervals</td>
<td>X X June 2022</td>
<td>N/A 80%</td>
<td>On target.</td>
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<tr>
<td></td>
<td>001.00 Implement three-year program of unidirectional flushing of distribution system</td>
<td>X X</td>
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<td>002.00 Evaluate purchase of NO-DES equipment for future and ongoing flushing activities</td>
<td>X X</td>
<td>June 2022</td>
<td>N/A 15%</td>
<td></td>
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</tr>
<tr>
<td>Water Quality/Watershed Protection</td>
<td>Objective WQ3: Track development and manage watershed activities for the beneficial use of the Authority operations and protection of environmental resources (Source: Cal. Administrative Code, Title 22; Sweetwater Authority Board Resolution 84-8)</td>
<td></td>
<td></td>
<td>On target.</td>
<td></td>
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<tr>
<td></td>
<td>001.00 Track development in watershed for purposes of assessing Urban Runoff Diversion System Collection Fee pursuant to Resolution 84-8 (amended as Resolution 88-5)</td>
<td>X X X Annually</td>
<td>100%</td>
<td>Reviewed 168 projects received by the Planning &amp; Development Services Department of San Diego County. Of these, 11 were new projects in the Sweetwater River Watershed and 14 were modified projects in the watershed. No URDS fees were collected during this period.</td>
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<tr>
<td></td>
<td>002.00 Complete Sweetwater River Watershed Sanitary Survey</td>
<td>X</td>
<td>December 2022</td>
<td>N/A</td>
<td>Completion date is beyond timeline of report. Last survey was completed in 2017.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Goal 1: Water Quality (WQ)</td>
<td>Department/Topic</td>
<td>Action Steps</td>
<td>Short Term (0-2 years)</td>
<td>Mid Term (2-5 years)</td>
<td>Long Term (+5 Years)</td>
<td>Completion Date</td>
<td>% Complete</td>
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<tr>
<td><strong>Objective WQ4</strong>: Administer the Authority’s Standard Specifications Section 17 Cross-Connection and Backflow Prevention Ordinance to protect the public water supply from contamination (Source: Cal. Administrative Code, Title 17; Cal. Safe Drinking Water Act; AWWA)</td>
<td>Admin Services/Customer Service - Cross Contamination and Backflow Prevention</td>
<td>001.00 Review San Diego County Environmental Health well permit list and inspect sites located within the Authority’s service area</td>
<td>X X X</td>
<td>Annually</td>
<td>100%</td>
<td>All locations within the Authority service have been inspected.</td>
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<td>002.00 Review San Diego County Environmental Health hazardous materials permit list and inspect sites located in the Authority’s service area</td>
<td>X X X</td>
<td>Annually</td>
<td>30%</td>
<td>In the first three quarters, focus was on objective 3.00. In the fourth quarter, staff cross referenced information from well permits with the Authority's backflow database information for consistency. This has been done in lieu of on-site inspections due to COVID-19.</td>
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<td></td>
<td>003.00 Implement a plan to replace all existing single check valves on fire service lines with back-flow prevention devices required by current Authority standards</td>
<td>X X</td>
<td>December 2023</td>
<td>N/A 4%</td>
<td>Completion date is beyond timeline of report. The Authority has notified all customers of the requirement to replace all existing single check valves on fire service lines. It is the responsibility of the customer to meet the deadline of December 2023. Many customers have indicated that they plan to wait until 2023 to install the required equipment. Project is 4% complete.</td>
<td></td>
</tr>
<tr>
<td><strong>Objective WQ5</strong>: Implement State-mandatory lead testing program at eligible K-12 schools, and preschools if required, in the Authority’s service area (Source: State Water Resources Control Board)</td>
<td>Water Quality - Lead Testing for Schools</td>
<td>001.00 Develop lead testing sampling plan for all eligible schools that request testing (2017 permit amendments)</td>
<td>X</td>
<td>November 2019</td>
<td>100%</td>
<td>Note: Proposed revisions to the federal Lead and Copper Rule may require further testing of K-12 public and private schools within our service area in the future.</td>
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<td></td>
<td>002.00 Develop lead testing sampling plan for all eligible schools. Mandatory testing included at all public, K-12 schools and preschools and child day care facilities located on public school property. (AB 746)</td>
<td>X</td>
<td>July 2019</td>
<td>100%</td>
<td>Complete</td>
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<td></td>
<td></td>
<td>003.00 Conduct testing in accordance with sampling plan; conduct any necessary follow-up testing</td>
<td>X</td>
<td>November 2019</td>
<td>100%</td>
<td>Complete</td>
<td></td>
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<td></td>
<td></td>
<td>004.00 Report results to school and State Water Resources Control Board</td>
<td>X</td>
<td>November 2019</td>
<td>100%</td>
<td>Complete</td>
<td></td>
</tr>
</tbody>
</table>


### GOAL #1 Water Quality (WQ)

*Provide high quality water that meets regulatory requirements.*

<table>
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<th>Completion Date</th>
<th>% Complete</th>
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<tbody>
<tr>
<td><strong>Water Quality - SCADA</strong></td>
<td><strong>Objective WQ6:</strong> Maintain and improve the Supervisory Control and Data Acquisition (SCADA) system for all treatment and distribution facilities as defined in the SCADA Master Plan</td>
<td></td>
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<td></td>
<td>On target.</td>
</tr>
<tr>
<td>001.00 Replace Remote Terminal Units as recommended in study conducted in FY 2017-18 and designed in FY 2018-19</td>
<td>X</td>
<td>October 2020</td>
<td>72%</td>
<td>RTU panels fabricated and delivered to Perdue for installation by contractor. Contractor work has been tracking ahead of schedule with work anticipated to be completed within the nine-month construction contract time.</td>
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<tr>
<td>002.01 Select a SCADA integrator pursuant to the competitive selection process</td>
<td>X</td>
<td>March 2020</td>
<td>100%</td>
<td>On January 22, 2020, the Governing Board awarded an On-call SCADA System Integration Professional Services contract to Enterprise Automation with an end date of June 2021 (or whenever the last project assigned is complete).</td>
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</tr>
<tr>
<td>002.02 Implement a transition plan, if necessary, to include overlapping training of new integrator and development of a SCADA Emergency Operating Plan</td>
<td>X</td>
<td>March 2020</td>
<td>N/A</td>
<td>Transition plan was not necessary since the incumbent consultant was awarded a contract.</td>
<td></td>
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</tr>
<tr>
<td>003.00 Replace SCADA Historian Program (PAYGO)</td>
<td>X</td>
<td>December 2019</td>
<td>100%</td>
<td>Complete</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>004.00 Complete the SCADA Operating system evolution project as identified in the SCADA Master Plan to replace obsolete, unsupported SCADA operating systems</td>
<td>X</td>
<td><strong>March</strong> May 2020</td>
<td>100%</td>
<td>Deploy completed in May 2020.</td>
<td></td>
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</tr>
<tr>
<td><strong>Water Quality - Reservoir</strong></td>
<td><strong>Objective WQ7:</strong> Ensure long-term sustainable health of Sweetwater Reservoir</td>
<td></td>
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<td></td>
<td>On target.</td>
</tr>
<tr>
<td>001.01 Implement recommendations of white paper (March 2018) addressing technical and regulatory requirements permitting the discharge of filter backwash water; monitor water quality for impacts from discharges, document discharges, and evaluate potential treatment processes</td>
<td>X</td>
<td>X</td>
<td>December 2023</td>
<td>100%</td>
<td>Monitoring for solids initiated in October 2019. A solids and residuals treatment process is being evaluated as part of the Reservoir Water Quality Improvements task in the Maximizing Reservoir Assets Study.</td>
<td></td>
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<tr>
<td>001.02 Remove accumulated sludge from Sweetwater Reservoir</td>
<td>X</td>
<td>TBD</td>
<td>N/A</td>
<td>This is a proposed future project that is currently unfunded. Dredging is being evaluated as part of the Reservoir Water Quality Improvements task in the Maximizing Reservoir Assets Study.</td>
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</tbody>
</table>
## GOAL #1 Water Quality (WQ)

*Provide high quality water that meets regulatory requirements.*

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<th>Long Term (+5 years)</th>
<th>Completion</th>
<th>Date</th>
<th>% Complete</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Quality - Distribution System Storage Tanks</td>
<td>Objective WQ8: Improve water quality in distribution system storage tanks.</td>
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<tr>
<td></td>
<td>001.00 Pilot test the ability of a Residual Control System (RCS) to stabilize chlorine residual in a distribution system storage tank</td>
<td>X</td>
<td></td>
<td></td>
<td>June 2020</td>
<td>April 2021</td>
<td>75%</td>
<td>DDW permit amendment received. Pilot system on-site, system startup and training pending. Progress was delayed due to impacts from the response to the COVID-19 pandemic. Revised date was approved by the Board on 6/24/2020 in conjunction with the FY 2020-21 Strategic Plan Work Plan.</td>
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<tr>
<td>Water Quality - Laboratory Standards</td>
<td>Objective WQ9: Bring Laboratory Quality Systems, SOPs and Policies and Procedures in compliance with the NELAC Institute (TNI) Accreditation Standards, which are being adopted by SWRCB-DDW. (Compliance required within 3 years of adoption)</td>
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<tr>
<td></td>
<td>001.00 Initial onsite visit to assess current documents and practices</td>
<td>X</td>
<td></td>
<td></td>
<td>December 2019</td>
<td>100%</td>
<td>Complete</td>
<td></td>
</tr>
<tr>
<td></td>
<td>002.00 Write/rewrite current analytical SOPs, Policies and/or Procedures, and Quality System Manual to be compliant with TNI Standards</td>
<td>X</td>
<td></td>
<td></td>
<td>June 2020- November 2020</td>
<td>5%</td>
<td>Revision of SOPs initiated in January 2020. Delays were caused by increased workload and the transitional period of recruiting and bringing a new Laboratory Supervisor up to speed.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>003.00 Onsite visit to provide review and training with the new document protocols</td>
<td>X</td>
<td></td>
<td></td>
<td>August 2020 - February 2021</td>
<td>N/A 0%</td>
<td>Completion date is beyond timeline of report. Pending completion of 002.00.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>004.00 Conduct a “practice” onsite assessment against the new TNI Standards</td>
<td>X</td>
<td></td>
<td></td>
<td>March 2021 - May 2021</td>
<td>N/A 0%</td>
<td>Completion date is beyond timeline of report. Pending completion of 002.00.</td>
<td></td>
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</tbody>
</table>
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<table>
<thead>
<tr>
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<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>001.00 Complete replacement of identified portions of the 36-inch transmission main and secondary mains (Bond funded)</td>
<td>X</td>
<td></td>
<td></td>
<td>December 2020, January 2021</td>
<td>N/A 60%</td>
<td>Substantially on target. Some pipeline work on hold per Board direction.</td>
</tr>
<tr>
<td>002.00 Prepare designs, environmental documents, Work Orders, contracts, and construct main replacements in accordance with the Board-approved Capital Budget (See Capital Budget for list of approved projects) (PAYGO)</td>
<td>X</td>
<td>X</td>
<td></td>
<td>Annually</td>
<td>80%</td>
<td>As part of the FY 2020-21 Budget, the Governing Board approved the release of two projects from June 2019 hold to replace 16-inch mains in J Street and Myra Ave and to replace the water main from the Claire Vista Tank to I Street.</td>
</tr>
<tr>
<td>002.01 Complete a study on the Authority's pipeline infrastructure for consideration of Authority's FY 2019-20 Pipelines Budget of $2,809,300 which was moved to the Operating Reserve Fund (see also AE2.001.00)</td>
<td>X</td>
<td></td>
<td></td>
<td>June 2021</td>
<td>N/A 0%</td>
<td>Completion date is beyond timeline of report. Pipeline replacement criteria will be evaluated in conjunction with the next Master Plan. Consultant selection for preparation of the 2020 Water Distribution System Master Plan is planned for summer of 2020.</td>
</tr>
<tr>
<td>003.00 Prepare designs, environmental documents, Work Orders, contracts, and construct highest priority Master Plan pipelines in accordance with the Board-approved Capital Budget (see Capital Budget for list of approved projects) (PAYGO)</td>
<td>X</td>
<td>X</td>
<td></td>
<td>Annually</td>
<td>80%</td>
<td>See SR1.002.00</td>
</tr>
<tr>
<td>Department/Topic</td>
<td>Action Steps</td>
<td>IMPLEMENTATION</td>
<td>% Complete</td>
<td>Status</td>
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<tr>
<td>GOAL #2 System and Water Supply Reliability (SR)</td>
<td>Achieve an uninterrupted, long-term water supply through investment, maintenance, innovation and developing local water resources.</td>
<td></td>
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</tr>
<tr>
<td>Engineering/Distribution - Pipelines</td>
<td>004.00 Prepare design, environmental document, advertise for bids, and construct new Central-Wheeler Tank (Bond funded)</td>
<td>X</td>
<td>June 2021</td>
<td>N/A 25%</td>
<td>Completion date is beyond timeline of report. Preliminary designs for tank and pipelines developed with re-design based on survey confirmation of Wheeler Tank elevation. IS/MND is nearly ready for circulation to interested agencies. Project is 25% complete.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>005.00 Design, bid and construct additional pumps to meet fireflow requirements in accordance with the 2015 Water Distribution Master Plan, as needs dictate</td>
<td>X X X</td>
<td>June 2040</td>
<td>N/A</td>
<td>Completion date is beyond timeline of report.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>005.01 Design, bid and construct pump station at O.D. Arnold Hydro No. 17</td>
<td>X</td>
<td>March 2020</td>
<td>98%</td>
<td>Final paving and punchlist items to be completed in July 2020.</td>
<td></td>
</tr>
<tr>
<td>Engineering - Cathodic Protection</td>
<td><strong>Objective SR2:</strong> Minimize corrosion and extend service life by providing appropriate cathodic protection for metallic mains and steel storage tanks (Source: 2015 Water Distribution Master Plan)</td>
<td></td>
<td></td>
<td>On target.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>001.00 Prepare Annual Cathodic Protection Survey to identify needed repairs and improvements</td>
<td>X X X</td>
<td>Annually</td>
<td>90%</td>
<td>Project is substantially complete. Fieldwork for annual survey completed; final report pending.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>002.00 Complete the top three Cathodic Protection repairs/improvements based on the previous year's Annual Cathodic Protection Survey (PAYGO)</td>
<td>X X X</td>
<td>Annually</td>
<td>100%</td>
<td>Complete</td>
<td></td>
</tr>
</tbody>
</table>
## GOAL #2 System and Water Supply Reliability (SR)

*Achieve an uninterrupted, long-term water supply through investment, maintenance, innovation and developing local water resources.*

### Objective SR3: Develop and implement specific infrastructure preventive maintenance programs that ensure all transmission and distribution system appurtenances are functional and effective

<table>
<thead>
<tr>
<th>Action Steps</th>
<th>Short Term (0-2 years)</th>
<th>Mid Term (2-5 years)</th>
<th>Long Term (+5 years)</th>
<th>Completion Date</th>
<th>% Complete</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>001.00 Maintain approximately 283 valves 14-inch and larger annually to comply with the Valve Maintenance and Replacement Program, and provide progress reports to the Board semi-annually (Source: AWWA M44 Distribution Valves)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Annually</td>
<td>100%</td>
<td>All valves 14-inch and larger were operated and maintained in May 2020.</td>
</tr>
<tr>
<td>002.00 Maintain approximately 1,964 valves smaller than 14-inch annually to comply with the Valve Maintenance and Replacement Program, and provide progress reports to the Board semi-annually</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Annually</td>
<td>45%</td>
<td>881 valves were maintained. Task not fully completed due to allocated additional resources toward flushing program.</td>
</tr>
<tr>
<td>003.00 Replace approximately 30 valves annually that meet the established replacement criteria identified in the Valve Maintenance and Replacement Program, and provide progress reports to the Board semi-annually</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Annually</td>
<td>50%</td>
<td>14 valves were replaced within the allotted funding for this project.</td>
</tr>
<tr>
<td>004.00 Maintain approximately one third of the Authority's hydrants (approx. 862 hydrants) annually to comply with the Fire Hydrant Maintenance and Replacement Program, and provide progress reports to the Board semi-annually</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Annually</td>
<td>20%</td>
<td>173 hydrants have been maintained to date this fiscal year.</td>
</tr>
<tr>
<td>005.00 Replace hydrants that meet the established replacement criteria identified in the Fire Hydrant Maintenance and Replacement Program, and provide progress reports to the Board semi-annually</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Annually</td>
<td>100%</td>
<td>29 fire hydrants were identified and replaced based on established criteria.</td>
</tr>
<tr>
<td>006.00 Identify all transmission and distribution system air-valves (approx. 401) and develop a preventive maintenance program</td>
<td>X</td>
<td>June 2020</td>
<td>100%</td>
<td>Completed development of preventive maintenance program and began implementation May 2020.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>007.00 Identify all transmission and distribution system blow-offs (approx. 929) and develop a preventive maintenance program</td>
<td>X</td>
<td>June 2021</td>
<td>N/A 0%</td>
<td>Completion date is beyond timeline of report. On track to meet task deadline.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>008.00 Identify all plastic service laterals within the transmission and distribution systems and develop a plastic lateral replacement program</td>
<td>X</td>
<td>June 2022</td>
<td>N/A 0%</td>
<td>Completion date is beyond timeline of report. On track to meet task deadline.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>009.00 Relocate and upsize the Otay Water District Interconnect at Douglas Street to improve access/safety and increase capacity</td>
<td>X</td>
<td>June 2020</td>
<td>25%</td>
<td>Design complete. Project delay due to estimate received from On-call Contractor was significantly higher than budget; consider combining with Naples St. meter and issue for public bids in FY 2020-21. See WD5 010.00.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Department/Topic</td>
<td>Action Steps</td>
<td>Short Term (0-2 years)</td>
<td>Mid Term (2-5 years)</td>
<td>Long Term (+5 Years)</td>
<td>Completion Date</td>
<td>% Complete</td>
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</tr>
<tr>
<td><strong>GOAL #2 System and Water Supply Reliability (SR)</strong></td>
<td><strong>Objective SR4:</strong> Maintain and replace fleet vehicles and equipment in accordance with manufacturers' recognized standards and practices, and the Authority's Fleet Maintenance and Replacement Program. (Source: Vehicle and Equipment Manufacturers' service standards; Board-approved Vehicle Replacement Program)</td>
<td>X X X</td>
<td>Annually</td>
<td>100%</td>
<td>Service schedules were conducted based on manufacturers’ recommendations.</td>
<td></td>
</tr>
<tr>
<td><strong>Distribution - Fleet Management</strong></td>
<td>001.00 Service and maintain approximately 180 vehicles and equipment</td>
<td>X X X</td>
<td>Annually</td>
<td>100%</td>
<td>Vehicles and equipment identified.</td>
<td></td>
</tr>
<tr>
<td><strong>Distribution - Fleet Management</strong></td>
<td>002.00 Evaluate individual vehicle and equipment costs annually, and identify replacement schedules to be considered as part of the budgeting process</td>
<td>X X X</td>
<td>Annually</td>
<td>100%</td>
<td>Services for small equipment were conducted based on manufacturers’ recommendations.</td>
<td></td>
</tr>
<tr>
<td><strong>Distribution - Fleet Management</strong></td>
<td>003.00 Service and maintain approximately 60 pieces of small equipment in accordance with manufacturers' recognized standards and practices</td>
<td>X X X</td>
<td>Annually</td>
<td>100%</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Distribution - Fleet Management</strong></td>
<td>004.00 Complete a study of the Authority's Fleet replacement criteria and practices for lifecycle of the assets; compare the findings with current industry standards and practices. Study to be used for consideration of Authority's FY 2019-20 Fleet Budget of $1,065,000 which was moved to the Operating Reserve Fund on June 12, 2019.</td>
<td>X</td>
<td>June 2020</td>
<td>100%</td>
<td>Report presented to the Board February 2020. The Board referred the report to the Operations Committee for further consideration. The Committee reviewed and discussed the report at its March 18 and April 1 Committee meetings. At the April 15 Committee meeting, the Committee recommended returning to the prior replacement criteria. On April 22, 2020, the Board directed staff to return to the Authority's prior replacement criteria.</td>
<td></td>
</tr>
</tbody>
</table>
## GOAL #2 System and Water Supply Reliability (SR)

*Achieve an uninterrupted, long-term water supply through investment, maintenance, innovation and developing local water resources.*

<table>
<thead>
<tr>
<th>Action Steps</th>
<th>Completion Date</th>
<th>% Complete</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>001.00 Design, bid, and construct replacement stairs at Loveland Dam (Bond funded)</td>
<td></td>
<td>N/A 45%</td>
<td>On target.</td>
</tr>
<tr>
<td>002.00 Prepare design, environmental document, advertise for bids, and construct Sweetwater Dam PMF and South Spillway Improvements (Bond funded)</td>
<td></td>
<td>N/A 52%</td>
<td>Completion date is beyond timeline of report. Spillway Condition Assessment Report submitted to DSOD in Nov. 2019. Additional work on South Spillway apron and North Spillway siphons needed requiring additional year. Two separate FEMA grant applications submitted. Project is 52% complete.</td>
</tr>
<tr>
<td>Department/Topic</td>
<td>Action Steps</td>
<td>Short Term (0-2 years)</td>
<td>Mid Term (2-5 years)</td>
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</tr>
<tr>
<td>GOAL #2 System and Water Supply Reliability (SR)</td>
<td>Achieve an uninterrupted, long-term water supply through investment, maintenance, innovation and developing local water resources.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Objective SR6: Review plans submitted by Chula Vista, National City, and County of San Diego for street improvement projects to identify potential conflicts, then develop the most cost-effective facility modifications to avoid known or potential conflicts (Source: 1953 Agreement with City of Chula Vista; 1962 Agreement with County of SD; National City incorporated prior to Kimball Bros. Easement)</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>001.00 Report the number of projects reviewed for each agency</td>
<td>X</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>002.00 Submit comments on plans received from CV, NC, or County, within 3 weeks of receipt and report semi-annually on success rate</td>
<td>X</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>003.00 Report on number of water facility projects installed within pavement cutting moratorium (goal is zero)</td>
<td>X</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>004.00 Complete listing of proposed CIP projects, coordinate with CV, NC, and County by March, and resolve potential conflicts</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Department/Topic</td>
<td>Action Steps</td>
<td>IMPLEMENTATION</td>
<td>Status</td>
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</tr>
<tr>
<td><strong>GOAL #2 System and Water Supply Reliability (SR)</strong></td>
<td>Achieve an uninterrupted, long-term water supply through investment, maintenance, innovation and developing local water resources.</td>
<td></td>
<td>Substantially on target. Some delays due to reprioritization of other projects and COVID-19.</td>
</tr>
<tr>
<td><strong>Objective SR7:</strong> Review proposed development plans and install necessary infrastructure to ensure the facilities meet the required demand, achieve code compliance, avoid cross-connections, and have minimal-to-zero financial impacts to the Authority’s ratepayers (Authority Policies and Rates and Rules)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>001.00 Report on the number of submittals received and facilities installed</td>
<td>X X X</td>
<td>Annually</td>
<td>N/A</td>
</tr>
<tr>
<td>249 Total: 134 for Chula Vista, 75 for National City, and 40 for County of San Diego. 4,910 LF of 12” PVC Water main, 843 LF of 8” PVC Water Main, 124 Water Service Laterals, 26 Fire Hydrants, seven 2-inch Blow-offs, four 2-inch Air Relief, and one 1-inch Air Relief installed.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>002.00 Issue Fees and Deposit letters to developer within six weeks of approved developer plans and track achievement rate</td>
<td>X X X</td>
<td>Annually</td>
<td>N/A</td>
</tr>
<tr>
<td>49 Fees and Deposit letters were issued to developers; 13 letters were provided after the six-week target, but nine of them were due to the developers’ implementing project changes and their request to stop the letter, and four due to heavy engineering department workload.</td>
<td></td>
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</tr>
<tr>
<td>003.00 Complete construction of required water facilities within eight weeks (excluding jurisdictional permit processing time) of receiving developer funds and track achievement rate</td>
<td>X X X</td>
<td>Annually</td>
<td>N/A</td>
</tr>
<tr>
<td>29 of 32 projects were completed within eight weeks of receiving a jurisdictional encroachment permit or a deposit. Three projects were placed on hold due to COVID-19.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Objective SR8:</strong> Provide adequate security to safeguard Authority property against theft, damage, illegal entry, vandalism, abuse, terrorism, and contamination; and to protect Authority personnel during the course of their duties (Source: Various projects as identified in Departmental Work Plans and annual budget)</td>
<td>On target.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>001.00 Expand master key control program by re-keying all facility door locks and assigning authorized levels of access</td>
<td>X</td>
<td>June 2020</td>
<td>100%</td>
</tr>
<tr>
<td>Operations Center was completed. Desal tentatively scheduled for FY 2020-21 and Perdue FY 2021-22.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>002.00 Maintain the intrusion alarms, video monitoring and access card control systems to optimize performance and functionality, and ensure hardware and software compatibility across the systems and with security service providers</td>
<td>X X X</td>
<td>Annually</td>
<td>100%</td>
</tr>
<tr>
<td>Alarms and systems were maintained for optimal performance and functionality. Software updates were regularly implemented.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Department/Topic</td>
<td>Action Steps</td>
<td>IMPLEMENTATION</td>
<td>% Complete</td>
</tr>
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</tr>
<tr>
<td><strong>GOAL #2 System and Water Supply Reliability (SR)</strong></td>
<td>Achieve an uninterrupted, long-term water supply through investment, maintenance, innovation and developing local water resources.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Objective SR9:</strong> Cost-effectively maintain facilities and infrastructure to optimize their useful life and performance. (Source: Various projects as identified in Departmental Work Plans and annual budget)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>001.00 Complete rehabilitation of the Morris Starr and Bonita Highland No. 2 Tanks</td>
<td>X</td>
<td>June 2021</td>
<td>N/A 20%</td>
</tr>
<tr>
<td>002.00 Repair access road and parking lots around various Authority facilities (varies annually; see Capital Investment Budget)</td>
<td>X</td>
<td>June 2020</td>
<td>100%</td>
</tr>
<tr>
<td>003.00 Replace suction valves and inefficient pumps and motors in the distribution system</td>
<td>X</td>
<td>June 2021</td>
<td>100%</td>
</tr>
<tr>
<td>004.00 Replace various reverse osmosis (RO) membranes at the Desal Facility as needed to optimize performance of facility and water quality.</td>
<td>X</td>
<td>June 2020</td>
<td>100%</td>
</tr>
<tr>
<td>005.00 Inspect and rehabilitate San Diego Formation Well #1 to improve water production efficiency and protect pumps from burnout</td>
<td>X</td>
<td>June 2020, June 2021</td>
<td>0%</td>
</tr>
<tr>
<td>006.00 Repair URDS channels and gates and remove sediment from the upstream side of the lowflow barrier</td>
<td>X</td>
<td>June 2022</td>
<td>N/A 10%</td>
</tr>
<tr>
<td>007.00 Replace roof of Bonita Valley Reservoir Control Building</td>
<td>X</td>
<td>June 2020, June 2021</td>
<td>5%</td>
</tr>
</tbody>
</table>
### GOAL #2 System and Water Supply Reliability (SR)

*Achieve an uninterrupted, long-term water supply through investment, maintenance, innovation and developing local water resources.*

<table>
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<th>Mid Term (2-5 years)</th>
<th>Long Term (&gt;5 years)</th>
<th>Completion Date</th>
<th>% Complete</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>008.00 Replace 45’ 251’ of fencing along the northwest perimeter of the Operations Yard to improve security</td>
<td>X</td>
<td></td>
<td></td>
<td>June 2020</td>
<td>100%</td>
<td>Complete</td>
</tr>
<tr>
<td>009.00 Replace ferrous chloride bulk tanks at the Perdue Water Treatment Plant</td>
<td>X</td>
<td></td>
<td></td>
<td>June 2020</td>
<td>90%</td>
<td>Tank installation will be completed during the week of 7/6/2020. Tank delivery was delayed due to COVID-19 response and restrictions.</td>
</tr>
</tbody>
</table>

**Objective SR10:** Inspect and maintain the Authority’s easements throughout the service area to ensure access and minimize negative impacts to water system facilities

<table>
<thead>
<tr>
<th>Action Steps</th>
<th>Short Term (0-2 years)</th>
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<th>Long Term (&gt;5 years)</th>
<th>Completion Date</th>
<th>% Complete</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>001.00 Notify service area property owners of existing easements via form letters</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Bi-Annually</td>
<td>0%</td>
<td>Issuance of letters creates significant voicemail and email responses; with COVID-19 constraints, letters will be issued in the fall of 2020 once staff availability for follow-up exists.</td>
</tr>
<tr>
<td>002.00 Review Multiple Listing Service (MLS) listings (real estate for sale), notify all owners with existing easements, and request removal of any encroachments prior to transfer of property ownership</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Annually</td>
<td>100%</td>
<td>All MLS listings have been reviewed and all owners with easements have been notified of existing easements and potential encroachments. One encroachment has been resolved this FY as a result of notifications.</td>
</tr>
<tr>
<td>003.00 Resolve two major easement encroachments per year</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Annually</td>
<td>100%</td>
<td>Encroachment agreement was completed for 3880 The Hill Road; palm tree encroachment removed at 1335 Fig Ct., NC; Johnson Trust encroachment resolved at East Japatul Rd (easement pending).</td>
</tr>
</tbody>
</table>

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*Engineering - Easements*
<table>
<thead>
<tr>
<th>Department/Topic</th>
<th>Action Steps</th>
<th>Short Term (0-2 years)</th>
<th>Mid Term (2-5 years)</th>
<th>Long Term (+5 Years)</th>
<th>Completion Date</th>
<th>% Complete</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>GOAL #2 System and Water Supply Reliability (SR)</td>
<td>Achieve an uninterrupted, long-term water supply through investment, maintenance, innovation and developing local water resources.</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Management/Engineering - Water Supply/Sources</td>
<td><strong>Objective SR11</strong>: Explore options for new water sources including but not limited to: conservation, recycled water, potable reuse, stormwater retention, groundwater/desalination, and Urban Runoff Diversion Systems</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>See ES2</td>
<td>N/A</td>
<td>On target.</td>
</tr>
<tr>
<td></td>
<td>001.00 For increased water supplies through conservation, see Goal #7 Environmental Stewardship, Objective ES2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Refer to ES2</td>
</tr>
<tr>
<td></td>
<td>002.00 Implement the highest priority supplemental water supply options from the Water Resources Master Plan (see Goal #6 Administrative Effectiveness, Objective AE2 002.00)</td>
<td></td>
<td></td>
<td>X</td>
<td>June 2040</td>
<td>N/A 9%</td>
<td>Completion date is beyond timeline for report. Water Resources Master Plan to be prepared in FY 2021-22. Recommendations from this WRMP and the Feasibility Study (see Objective SR11 003.00) will be used.</td>
</tr>
<tr>
<td></td>
<td>003.00 Conduct a feasibility study including cost/benefit analyses and an evaluation of environmental impacts, for developing new water resources such as recycled water and potable reuse (See also FV5.001.00)</td>
<td></td>
<td></td>
<td></td>
<td>Sept. 2020</td>
<td>N/A 40%</td>
<td>Completion date is beyond timeline for report. Coarse screening results presented to the Governing Board at a Special meeting on 5/28/2020. Consulting team is evaluating the options selected for Fine Screening phase. Project is 40% complete.</td>
</tr>
</tbody>
</table>
### GOAL #3 Financial Viability (FV)

*Ensure long-term financial viability of the agency through best practices, operational efficiency, and maximizing assets.*

<table>
<thead>
<tr>
<th>Action Steps</th>
<th>Short Term (0-2 Years)</th>
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<th>Long Term (+5 Years)</th>
<th>Completion Date</th>
<th>% Complete</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Objective FV1:</strong> Develop an annual budget that determines yearly</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>On target.</td>
</tr>
<tr>
<td>expenditures, incorporates a five-year projection to track fiscal stability,</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>and guides rate-setting decision-making</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Annually - January</td>
<td>100%</td>
<td>FY 2020-21 Budget calendar was approved by the Board in January 2020.</td>
</tr>
<tr>
<td>001.00 Develop initial budget calendar and identify key budget issues for</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>the upcoming fiscal year</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Annually - January</td>
<td>100%</td>
<td>Staff began budget process in February 2020 as planned.</td>
</tr>
<tr>
<td>002.00 Develop department expense and capital budget detail for upcoming</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>year</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Annually - March/April</td>
<td>100%</td>
<td>Staff reviewed the Draft FY 2020-21 and all accompanying documents on May 13, May 18, May 27, and June 10, 2020.</td>
</tr>
<tr>
<td>003.00 Review draft Budget, Five-year Projection, Financial Policies and</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water Rates with the Board and public and incorporate comments</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Annually - April</td>
<td>100%</td>
<td>Staff presented a report to the Board on alternatives for funding the Rate Stabilization Reserve Fund (Fund); the Board approved to decrease funding by reducing the Wholesale Water Purchase Rate by 25 percent.</td>
</tr>
<tr>
<td>003.01 Explore the feasibility of not funding, or funding at a reduced rate,</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>the Rate Stabilization Reserve as adopted at the 2018 Proposition 218 Public Hearing, and bring back a review of the 2018 Five-year Water Rate Study based on current conditions and trends in association with the FY 2019-20 Budget (per Board action on April 24, 2019)</td>
<td>X</td>
<td></td>
<td></td>
<td>September 2019</td>
<td>100%</td>
<td></td>
</tr>
<tr>
<td>004.00 Adopt final budget and establish water rates based on current Board</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>policy and legal requirements</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Annually - June</td>
<td>100%</td>
<td>Final FY 2020-21 Budget was adopted by the Board on June 24, 2020.</td>
</tr>
<tr>
<td>005.00 Review Rates and Rules for any needed changes and present to the</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Governing Board for approval</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Annually - Sep./Dec.</td>
<td>100%</td>
<td>The revised Rate and Rules for 2020 was adopted by the Board on January 8, 2020.</td>
</tr>
</tbody>
</table>
## GOAL #3 Financial Viability (FV)

*Ensure long-term financial viability of the agency through best practices, operational efficiency, and maximizing assets.*

<table>
<thead>
<tr>
<th>Objective FV2: Identify and pursue grant funds for high priority projects and programs including, but not limited to, legislative advocacy, Integrated Regional Water Management, BuRec Title XVI, and Proposition 50</th>
</tr>
</thead>
<tbody>
<tr>
<td>001.00 Management to work with federal lobbyist to develop annual legislative strategy</td>
</tr>
<tr>
<td>002.00 Provide local community governmental and non-governmental leaders with opportunities to educate, promote, and build relationships (tours, presentations, etc.)</td>
</tr>
<tr>
<td>003.00 Apply for a grant through the FEMA Hazard Mitigation Fund for funding of the Sweetwater Reservoir Dam improvements; seek letters of support from congressional delegation</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Department/Topic</th>
<th>Action Steps</th>
<th>Short Term (0-2 Years)</th>
<th>Mid Term (2-5 Years)</th>
<th>Long Term (+5 Years)</th>
<th>Completion Date</th>
<th>% Complete</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Manager - Gov’t Affairs</td>
<td></td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Annually - Oct./Nov.</td>
<td>100%</td>
<td>On target.</td>
</tr>
<tr>
<td></td>
<td>002.00 Provide local community governmental and non-governmental leaders with opportunities to educate, promote, and build relationships (tours, presentations, etc.)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>100%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>003.00 Apply for a grant through the FEMA Hazard Mitigation Fund for funding of the Sweetwater Reservoir Dam improvements; seek letters of support from congressional delegation</td>
<td>X</td>
<td></td>
<td></td>
<td>October 2019</td>
<td>100%</td>
<td></td>
</tr>
</tbody>
</table>
## GOAL #3 Financial Viability (FV)

*Ensure long-term financial viability of the agency through best practices, operational efficiency, and maximizing assets.*

| Objective FV3: Conduct a program to replace water meters at the point a meter becomes operationally inefficient based on industry standards. (Source: AWWA M6 Manual: Water Meters—Selection, Installation, Testing, and Maintenance) |
|---|---|---|---|---|---|
| 001.00 Replace meters that have reached or will reach operational inefficiency to focus on replacement of 15-years of age or older | X | X | X | Annually - June | 75% |

1,490 meters were replaced for age. Target was not met due to impacts from COVID-19.

| Objective FV: Conduct a program to replace water meters at the point a meter becomes operationally inefficient based on industry standards. (Source: AWWA M6 Manual: Water Meters—Selection, Installation, Testing, and Maintenance) |
|---|---|---|---|---|---|
| 002.00 - Develop a meter testing program in accordance with AWWA Manual M6 to evaluate cost-effectiveness of Authority's current meter replacement criteria | X | | | June 2020 | 25% |

This project was not implemented due to staff being deployed to implement [Delayed due to SB 998 implementation](https://www.senate.ca.gov/leginfo/legislative_info/sbhssb/0998/). SB 998 is recent legislation enacted to required additional noticing and extension before water is shut off for customers below the poverty level.
<table>
<thead>
<tr>
<th>Department/Topic</th>
<th>Action Steps</th>
<th>Short Term (0-2 Years)</th>
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<th>Long Term (+5 Years)</th>
<th>Completion Date</th>
<th>% Complete</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GOAL #3 Financial Viability (FV)</strong></td>
<td><strong>Objective FV4</strong>: Implement nonrevenue water program to maximize beneficial and authorized use of water and minimize wasteful and unauthorized loss (Source: California Water Audits and Water Loss Control Reporting regulations)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>On target.</strong></td>
</tr>
<tr>
<td></td>
<td>001.00 Conduct an annual &quot;Top Down&quot; water loss audit as identified in AWWA M36 and the associated AWWA Free Water Audit Software</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Annually - October</td>
<td>100%</td>
<td>Water loss audit for FY 2019-20 was compiled, third-party validated, and submitted to the State.</td>
</tr>
<tr>
<td>Administration - Nonrevenue Water</td>
<td>002.00 Implement recommendations of the Authority staff Nonrevenue Water Work Group and third party validator where feasible and cost effective and report on outcomes annually</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Annually - October</td>
<td>100%</td>
<td>Staff has implemented recommendations of third-party auditor where feasible and cost effective to do so.</td>
</tr>
<tr>
<td></td>
<td>003.00 Conduct a Real Loss Component Analysis as identified in the Water Research Foundation Project 4372</td>
<td>X</td>
<td></td>
<td></td>
<td>October 2022</td>
<td>N/A 0%</td>
<td>Completion date is beyond timeline for report. Consultant provided a ballpark estimate of $15K for an LCA. Upon further analysis, staff determined that the data necessary to complete this analysis is not captured in the Authority's asset management program. Staff is now evaluating how to capture this data and perform this analysis in-house.</td>
</tr>
<tr>
<td></td>
<td>004.00 Implement the recommendations of ME Simpson’s meter testing report for the clearwell effluent meters at the Richard A. Reynolds Groundwater Desalination Facility and the Robert A. Perdue Treatment Plant (Source: Report titled &quot;Meter Testing Report - Master Meters at Two Production Facilities&quot;, ME Simpson Co., Inc., September 21, 2018)</td>
<td>X</td>
<td></td>
<td></td>
<td>June 2022</td>
<td>N/A</td>
<td>Master meter replacements have been programmed in the budget and are on target to be completed by the stated deadline.</td>
</tr>
<tr>
<td>Department/Topic</td>
<td>Action Steps</td>
<td>Short Term (0-2 Years)</td>
<td>Mid Term (2-5 Years)</td>
<td>Long Term (+5 Years)</td>
<td>Completion Date</td>
<td>% Complete</td>
<td>Status</td>
</tr>
<tr>
<td>------------------</td>
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<td>--------</td>
</tr>
<tr>
<td>Management/Engineering - Leverage Assets</td>
<td><strong>Objective FV5:</strong> Explore innovative opportunities for leveraging Authority assets (e.g., reservoirs, property) to reduce financial burden on Authority ratepayers</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>001.00 Conduct a feasibility study, including cost/benefit analyses and an evaluation of environmental impacts, for maximizing the Loveland and Sweetwater Reservoirs including but not limited to consideration of a pipeline between the two reservoirs and reducing the emergency storage requirement at Loveland Reservoir. (see also SR11.003.00)</td>
<td>X</td>
<td></td>
<td></td>
<td>Sept. 2020</td>
<td>N/A 40%</td>
<td>Completion date is beyond timeline of report. Coarse screening results presented to the Governing Board at a Special meeting on 5/28/2020. Consulting team is evaluating the options selected for Fine Screening phase. Project is 40% complete.</td>
</tr>
<tr>
<td></td>
<td>001.01 Form a Working Group with Otay Water District</td>
<td>X</td>
<td></td>
<td></td>
<td>June 2020</td>
<td>100%</td>
<td>Complete. A working group was established to collaborate on interagency/regional projects. On January 8, 2020 the Board considered the scope of work, meetings, and transparency for the working group and directed staff to coordinate with Otay Water District to schedule a meeting with the Ad Hoc Working Group. A meeting was scheduled for 3/23 but was canceled due to COVID-19.</td>
</tr>
<tr>
<td></td>
<td>002.00 Conduct an exploratory market analysis to determine the feasibility and interest in material dredging/sandmining opportunities in and around Authority reservoirs</td>
<td>X</td>
<td></td>
<td></td>
<td>June 2020</td>
<td>100%</td>
<td>Complete. See Tasks 002.01 - 002.03 below.</td>
</tr>
<tr>
<td></td>
<td>002.01 Bring draft Request for Letters of Interest (LOI) for material dredging/sand mining in and around Authority reservoirs to the Operations Committee and Board for consideration and input</td>
<td>X</td>
<td></td>
<td></td>
<td>October 2019</td>
<td>100%</td>
<td>Staff provided a draft Request for LOI to the Operations Committee and Board in October 2019.</td>
</tr>
<tr>
<td></td>
<td>002.02 Send Request for Letters of Interest to potential firms and conduct full-day industry forums for interested parties at each reservoir</td>
<td>X</td>
<td></td>
<td></td>
<td>November 2019</td>
<td>100%</td>
<td>Staff issued the Request for LOI in October and held an Industry Forum on November 20, 2020.</td>
</tr>
<tr>
<td></td>
<td>002.03 Conduct a Board Special meeting to review submittals received in response to the Letter of Interest</td>
<td>X</td>
<td></td>
<td></td>
<td>1st Quarter 2020</td>
<td>100%</td>
<td>Four Letters of Interest were submitted on January 9, 2020 and a Special Board meeting was conducted on January 20, 2020 to consider proposals from the four companies.</td>
</tr>
</tbody>
</table>
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### GOAL #4 Customer Service, Citizen Engagement and Community Relations (CS)
*Provide high-quality customer service based on customer feedback and serve the community through education, outreach, and partnerships.*

<table>
<thead>
<tr>
<th>Objective CS1: Develop an outreach program that includes a multi-faceted approach to communications and customer outreach - including, but not limited to, press releases, web-based communications, social media, community presentations, community events, educational opportunities, and periodically surveying customer opinion</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>001.00</strong> Coordinate and participate in community events, which may include a booth and/or water tanker</td>
</tr>
<tr>
<td>X</td>
</tr>
<tr>
<td>Completion Date</td>
</tr>
<tr>
<td>The Authority has been participating in community events and providing water. Events scheduled to be held in March of 2020 and later have been canceled because of COVID-19.</td>
</tr>
<tr>
<td><strong>002.00</strong> Distribute Customer Newsletter &quot;On Tap&quot; (bill insert-distribution for approximately 33,000 accounts) quarterly. May also further Objective ES2</td>
</tr>
<tr>
<td>X</td>
</tr>
<tr>
<td>The Authority has distributed the On Tap Newsletter.</td>
</tr>
<tr>
<td><strong>003.00</strong> Maintain partnerships with Olivewood Gardens and the Chula Vista Elementary School District for outreach and educational opportunities</td>
</tr>
<tr>
<td>X</td>
</tr>
<tr>
<td>The Authority continues to work with Olivewood Gardens on educational and outreach opportunities.</td>
</tr>
<tr>
<td><strong>004.00</strong> Complete and begin implementing Five-year Strategic Communications Plan (see also AE2.005.00)</td>
</tr>
<tr>
<td>X</td>
</tr>
<tr>
<td>The plan was completed in June of 2019 and staff has begun implementation.</td>
</tr>
<tr>
<td><strong>005.00</strong> Continue with website maintenance and e-notification and report on number of visitors monthly (via Management Dashboard); other pertinent stats will be provided semi-annually</td>
</tr>
<tr>
<td>X</td>
</tr>
<tr>
<td>Staff continues to work on website updates. Updates on communications metrics will be provided through the Management Quarterly Dashboard report.</td>
</tr>
<tr>
<td><strong>006.00</strong> Post and update the Authority’s Facebook and Twitter accounts and report on stats semi-annually</td>
</tr>
<tr>
<td>X</td>
</tr>
<tr>
<td>Updates on communications metrics will be provided through the Management Dashboard on a quarterly basis.</td>
</tr>
<tr>
<td><strong>007.00</strong> Develop a Customer Bill of Rights</td>
</tr>
<tr>
<td>X</td>
</tr>
<tr>
<td>Approved by the Board in December.</td>
</tr>
<tr>
<td><strong>008.00</strong> Provide resources to schools in the Authority’s service area through the Mini-Grant program to fund water-based education programs</td>
</tr>
<tr>
<td>X</td>
</tr>
<tr>
<td>To date, the Authority has allocated all of its Mini-Grants for the 2019-20 school year.</td>
</tr>
<tr>
<td><strong>009.00</strong> Develop a pilot program to help fund installation of water bottle filling stations in schools in the Authority’s service area</td>
</tr>
<tr>
<td>X</td>
</tr>
<tr>
<td>The pilot program was put on hold due to the COVID-19 pandemic.</td>
</tr>
<tr>
<td><strong>010.00</strong> Develop and disseminate notifications and educational information regarding the system-wide flushing program</td>
</tr>
<tr>
<td>X</td>
</tr>
<tr>
<td>Letters and support materials were produced through the Public Affairs Department for the flushing program.</td>
</tr>
<tr>
<td><strong>011.00</strong> Launch the Hydrostation at the Desalination Facility in partnership with the Chula Vista Elementary School District and Otay Water District</td>
</tr>
<tr>
<td>X</td>
</tr>
<tr>
<td>The Hydrostation launched in July of 2019 and was booked for the 2019-20 school year.</td>
</tr>
<tr>
<td>Department/Topic</td>
</tr>
<tr>
<td>------------------</td>
</tr>
<tr>
<td>Administration - AMI</td>
</tr>
<tr>
<td></td>
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<td></td>
</tr>
<tr>
<td>Department/Topic</td>
</tr>
<tr>
<td>-----------------</td>
</tr>
<tr>
<td><strong>Administration</strong>&lt;br&gt;<strong>Developer Customers</strong></td>
</tr>
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<tr>
<td></td>
</tr>
<tr>
<td></td>
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<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td><strong>Finance - Community Relations</strong></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

*The Developer’s Forum was canceled at the direction of the Board. The new Board Direction was for staff to work on a survey tool for Developers. This item is included in the FY 2020-21 Budget.*

*The Board approved change to insurance limits on Developer Agreements at its 11/13/19 Board meeting to $1M/$2M - $3M/$5M (Occurrence/Aggregate). Insurance requirements and checklists provided during staff training in December.*

*The Governing Board’s Procurement Policy was approved on May 13, 2020 and adopted by resolution on June 10, 2020. The policy includes a section that promotes local and disadvantaged businesses in the community.*
<table>
<thead>
<tr>
<th>Department/Topic</th>
<th>Action Steps</th>
<th>Short Term (0-2 Years)</th>
<th>Mid Term (2-5 Years)</th>
<th>Long Term (+5 Years)</th>
<th>Completion Date</th>
<th>% Complete</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Administration - Citizen Engagement</td>
<td><strong>Objective CS5:</strong> Establish a Citizens Advisory Committee to advise the Authority in accordance with parameters set by the Board</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>On target.</td>
</tr>
<tr>
<td></td>
<td>001.00 Board appoints members to a Citizen's Advisory Committee (CAC)</td>
<td>X</td>
<td></td>
<td></td>
<td>November 2019</td>
<td>100%</td>
<td>All seven Board members have appointed a member/and or alternate to the CAC.</td>
</tr>
<tr>
<td></td>
<td>002.00 CAC will meet on a regular basis for a period of one year</td>
<td>X</td>
<td></td>
<td></td>
<td>December 2019</td>
<td>100%</td>
<td>Meetings have been scheduled for 2020.</td>
</tr>
<tr>
<td></td>
<td>003.00 CAC will provide recommendations to the Board on operational efficiency and improvements associates with one Strategic Plan goal area</td>
<td>X</td>
<td></td>
<td></td>
<td>December 2020</td>
<td>100%</td>
<td>Dependent upon CAC input.</td>
</tr>
<tr>
<td></td>
<td>004.00 Staff will integrate recommendations into the Strategic Plan Workplan as directed by the Board</td>
<td>X</td>
<td></td>
<td></td>
<td>May 2020</td>
<td>100%</td>
<td>Dependent upon CAC input.</td>
</tr>
</tbody>
</table>
## GOAL #5 Workforce Development and Constructive Labor Relations (WD)

**Objective WD1:** Achieve professional and regulatory certifications as required by job classifications to perform assigned duties (Source: OSHA, Division of Drinking Water, DMV, and others depending on certification)

<table>
<thead>
<tr>
<th>Action Steps</th>
<th>Short Term (0-2 Years)</th>
<th>Mid Term (2-5 Years)</th>
<th>Long Term (+5 Years)</th>
<th>Completion Date</th>
<th>% Complete</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>001.00 Report to Board the number of professional certifications held by staff, and compliance with certification requirements</td>
<td>X X X</td>
<td>Quarterly</td>
<td>100%</td>
<td>155 professional certifications held. All required certifications met. A comprehensive list of all employee certifications is presented in the quarterly performance reports.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>002.00 Provide appropriate continuing education opportunities to maintain certifications and meet safety training requirements. Report to the Board the number of employee sessions and training hours</td>
<td>X X X</td>
<td>Quarterly</td>
<td>100%</td>
<td>Employees attended 4,330 hours in FY 2019-20. Training data is presented in the quarterly performance reports.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Administrative Services - Certifications**

**Objective WD2:** Implement a Leadership Development Program that engages eligible staff in Authority’s needs for leadership capacity

<table>
<thead>
<tr>
<th>Action Steps</th>
<th>Short Term (0-2 Years)</th>
<th>Mid Term (2-5 Years)</th>
<th>Long Term (+5 Years)</th>
<th>Completion Date</th>
<th>% Complete</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>001.00 Ensure all new employees are provided with DISC training, and provide opportunities for refresher training to existing employees</td>
<td>X X X</td>
<td>Annually</td>
<td>100%</td>
<td>No DISC training held in 2020 due to minimum class requirements. 11 Employees attended Foundations In Excellence Academy in March.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>002.00 Provide all managers and supervisors with Effective Manager Tools training, and provide Authority staff leaders with management and executive leader training opportunities</td>
<td>X X X</td>
<td>Annually</td>
<td>100%</td>
<td>No live Leadership training held in Q4 due to COVID-19.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>003.00 Ensure all new supervisory staff attend leadership academies appropriate for their level in the organization</td>
<td>X X X</td>
<td>Annually</td>
<td>100%</td>
<td>One Leadworker attended the Spring 2020 Supervisors Academy.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## GOAL #5 Workforce Development and Constructive Labor Relations (WD)

Attract, retain and develop a highly-skilled, adaptable workforce; Equip employees to effectively and safely perform their jobs and prepare for career advancement; Promote constructive labor relations.

<table>
<thead>
<tr>
<th>Action Steps</th>
<th>Short Term (0-2 Years)</th>
<th>Mid Term (2-5 Years)</th>
<th>Long Term (+5 Years)</th>
<th>Completion Date</th>
<th>% Complete</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Objective WD3:</strong> Implement an employee performance monitoring and reporting program to: ensure individual employee work goals are aligned with the organization's strategic goals and work plan; provide performance feedback to employees; correct deficiencies in performance; and promote career development (Source: Memoranda of Understanding between Authority and Labor Groups)</td>
<td>X X X Semi-annually</td>
<td>95%</td>
<td>On target.</td>
<td>143 due; 119 completed, 17 in process, seven pending.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>001.00 Develop performance goals and conduct a performance review for each employee on an annual basis; report to Board on success rate as defined by number of reviews due/processed</td>
<td>X X X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Objective WD4:</strong> Identify and implement expanded risk management and safety protocols to reduce experience modification and incident rates at or below industry standards (Source: Joint Powers Insurance Agency; OSHA)</td>
<td>X X X Annually (August)</td>
<td>75%</td>
<td>On target.</td>
<td>COVID-19 precautions postponed the following companywide training in Q4 - Driver Safety, Fire Safety, First Aid/ CPR, HAZCOM Right To Know, and Evacuation drills.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>001.00 Evaluate training needs and develop a schedule to address identified needs</td>
<td>X X X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>002.00 Report on the accident/injury rate quarterly (as measured by incidents reported to the Safety Committee)</td>
<td>X X X Quarterly</td>
<td>100%</td>
<td>Reported monthly and quarterly to the Board.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>003.00 Report on the selected ACWA-JPIA Commitment to Excellence program Best Management Practices</td>
<td>X X X Annually (June)</td>
<td>100%</td>
<td>On track to meet task deadline.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>004.00 Implement Safety Incentive Program, with a benchmark goal of 90 percent of eligible employees annually qualifying for award.</td>
<td>X X X Annually (October)</td>
<td>100%</td>
<td>93 percent of eligible employees qualified to receive a Safety Award as of the October recognition event.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**GOAL #5 Workforce Development and Constructive Labor Relations (WD)**

*Attract, retain and develop a highly-skilled, adaptable workforce; Equip employees to effectively and safely perform their jobs and prepare for career advancement; Promote constructive labor relations.*

<table>
<thead>
<tr>
<th>Objective WD5:</th>
<th>Action Steps</th>
<th>Short Term (0-2 Years)</th>
<th>Mid Term (2-5 Years)</th>
<th>Long Term (+5 Years)</th>
<th>Completion Date</th>
<th>% Complete</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>001.00</td>
<td>Perform or validate a minimum of four job hazard analyses to determine if hazards are present, or are likely to be present, which necessitate the use of personal protective equipment (PPE) and/or engineering or administrative controls</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Annually (June)</td>
<td>50%</td>
<td>Delayed due to shift in workload priorities regarding COVID-19.</td>
</tr>
<tr>
<td>002.00</td>
<td>Replace outdated laboratory instruments</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Annually (June)</td>
<td>100%</td>
<td>New WQ Laboratory benchtop turbidimeter and microscope purchased and installed.</td>
</tr>
<tr>
<td>003.00</td>
<td>Implement drone program for photography, including trained and certified remote operators from multiple departments</td>
<td>X</td>
<td></td>
<td></td>
<td>June 2020</td>
<td>100%</td>
<td>Certification and piloting training complete for seven staff from across agency.</td>
</tr>
<tr>
<td>004.00</td>
<td>Upgrade existing telephone system to use modern technology</td>
<td>X</td>
<td></td>
<td></td>
<td>June 2020</td>
<td>95%</td>
<td>Phone systems programs and hardware are installed and functioning; final process to convert over to new fiber-optic connection pending work by AT&amp;T.</td>
</tr>
<tr>
<td>005.00</td>
<td>Inspect, upgrade or replace personal protective equipment (such as Level A chemical suits, respiratory protection, ergonomic equipment, safety footwear, etc.) per manufacturer's specifications, or when the level of protection is compromised</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Annually</td>
<td>100%</td>
<td>Replaced In-House HAZMAT Team's radio communication system in October 2019.</td>
</tr>
<tr>
<td>006.00</td>
<td>Replace outdated calibration devices, testing equipment, and life safety supplies</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Annually</td>
<td>100%</td>
<td>Replaced old AED's in May 2020.</td>
</tr>
<tr>
<td>007.00</td>
<td>Purchase a scissor lift for the desalination facility to provide safe access to equipment</td>
<td>X</td>
<td></td>
<td></td>
<td>June 2020</td>
<td>100%</td>
<td>A new scissor lift has been purchased.</td>
</tr>
<tr>
<td>008.00</td>
<td>Replace seismic monitoring equipment for Sweetwater Reservoir main dam</td>
<td>X</td>
<td></td>
<td></td>
<td>June 2020</td>
<td>75%</td>
<td>Equipment purchased, but vendor has delayed installation due to social distancing limitations associated with COVID-19.</td>
</tr>
<tr>
<td>009.00</td>
<td>Purchase trailer-mounted burrow filling equipment to maintain the URDS and protect roads at Sweetwater Reservoir</td>
<td>X</td>
<td></td>
<td></td>
<td>June 2020</td>
<td>100%</td>
<td>Complete</td>
</tr>
<tr>
<td>010.00</td>
<td>Improve access to and protect an existing 4&quot; compound meter at the Naples Court Apartments by installing a vault with a traffic rated lid</td>
<td>X</td>
<td></td>
<td></td>
<td>June 2020</td>
<td>20%</td>
<td>Design delayed as a result of COVID-19 impacts. Consider combining with Douglas St. Interconnection and issued for public bids in FY 2020-21. See SR3 009.00.</td>
</tr>
<tr>
<td>011.00</td>
<td>Purchase two (2) electromagnetic locators to improve accuracy and efficiency in locating underground infrastructure</td>
<td>X</td>
<td></td>
<td></td>
<td>June 2020</td>
<td>100%</td>
<td>Complete</td>
</tr>
</tbody>
</table>
**GOAL #5 Workforce Development and Constructive Labor Relations (WD)**

*Attract, retain and develop a highly-skilled, adaptable workforce; Equip employees to effectively and safely perform their jobs and prepare for career advancement; Promote constructive labor relations.*

<table>
<thead>
<tr>
<th>Objective WD6: Cultivate employee performance and boost employee loyalty, morale, and productivity by implementing employee recognition and wellness programs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>001.00 Hold an Employee Recognition Event to recognize safety, health, wellness, teamwork, and other achievements</td>
</tr>
<tr>
<td>X</td>
</tr>
<tr>
<td>002.00 Host an on-boarding lunch for all new employees within one year of employment to enhance the new employee experience and to further strengthen the employees’ understanding of their role in the organization and how it relates to the mission of the Authority</td>
</tr>
<tr>
<td>X</td>
</tr>
<tr>
<td>003.00 Host semi-annual service awards luncheon to recognize various lengths of employee service (in 5 year increments)</td>
</tr>
<tr>
<td>X</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Objective WD7: Promote constructive labor relations</th>
</tr>
</thead>
<tbody>
<tr>
<td>001.00 Direct Management representatives to meet with all three labor groups on a monthly basis to discuss labor-related issues of concern to either party (Source: Memoranda of Understanding)</td>
</tr>
<tr>
<td>X</td>
</tr>
<tr>
<td>002.00 Negotiate terms of Memoranda of Understanding with each of the three labor groups.</td>
</tr>
<tr>
<td>X</td>
</tr>
<tr>
<td>003.00 Conduct a Classification and Compensation Study in accordance with the Memorandum of Understanding</td>
</tr>
<tr>
<td>X</td>
</tr>
</tbody>
</table>
### GOAL #6 Administrative Effectiveness (AE)

*Provide efficient and effective administrative systems and procedures in accordance with best management practices.*

<table>
<thead>
<tr>
<th>Action Steps</th>
<th>Short Term</th>
<th>Mid Term</th>
<th>Long Term</th>
<th>Completion Date</th>
<th>% Complete</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Objective AE1: Maintain a ready state of Emergency preparedness, response,</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Substantially on target. One project delayed as noted below.</td>
</tr>
<tr>
<td>and recovery, capable of effectively responding to emergencies as they arise <em>(Source: America's Water Infrastructure Act of 2018)</em></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>001.00 Develop an emergency preparedness/response/recovery exercise schedule,</td>
<td>X</td>
<td></td>
<td></td>
<td>Annually</td>
<td>75%</td>
<td>Emergency Response training activities in Q4 postponed due to COVID-19.</td>
</tr>
<tr>
<td>and report activities semi-annually to the Board</td>
<td>(June 2020)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>002.00 Conduct a risk and resiliency assessment pursuant to the American</td>
<td>X</td>
<td>X</td>
<td></td>
<td>March 2020 and</td>
<td>100%</td>
<td>Letter certifying completion of Risk Resilience Assessment (RRA) sent</td>
</tr>
<tr>
<td>Water Infrastructure Act</td>
<td></td>
<td></td>
<td></td>
<td>every 5 years</td>
<td></td>
<td>to USEPA in March.</td>
</tr>
<tr>
<td>002.01 Perform a comprehensive review and overhaul of the Emergency</td>
<td>X</td>
<td>X</td>
<td></td>
<td>September 2020</td>
<td>N/A 75%</td>
<td>Completion date is beyond timeline of report. Updates to ERRP on</td>
</tr>
<tr>
<td>Response and Recovery Plan (ERRP) that incorporates the findings of the</td>
<td></td>
<td></td>
<td></td>
<td>and every 5 years</td>
<td></td>
<td>schedule for completion by deadline. Project is 75% complete.</td>
</tr>
<tr>
<td>risk and resiliency assessment</td>
<td></td>
<td></td>
<td></td>
<td>thereafter</td>
<td></td>
<td></td>
</tr>
<tr>
<td>003.00 Review and update hazardous materials emergency response plans, Dam</td>
<td>X</td>
<td></td>
<td></td>
<td>Annually</td>
<td>100%</td>
<td>Rewrite of Sweetwater Dam Emergency Action Plan (EAP) completed based</td>
</tr>
<tr>
<td>Emergency Action Plans, and other interagency emergency response and</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>upon review by Cal-OES. Circulating to local public safety agencies for</td>
</tr>
<tr>
<td>recovery plans</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>buy-in/review.</td>
</tr>
<tr>
<td>003.01 Update inundation maps in accordance with dam safety regulations</td>
<td>X</td>
<td></td>
<td></td>
<td>June 2020</td>
<td>100%</td>
<td>Updated inundation maps approval received from state DWR in November and</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>December 2019.</td>
</tr>
<tr>
<td>004.00 Add a fire suppression system at the Admin server room (Year 3 of 3)</td>
<td>X</td>
<td></td>
<td></td>
<td>June 2020</td>
<td>25%</td>
<td>Designs are complete. Project delay due to On-hold pending decision</td>
</tr>
<tr>
<td>and construct Information Systems workspace improvements</td>
<td></td>
<td></td>
<td></td>
<td>March 2021</td>
<td></td>
<td>regarding installation of customer payment kiosk at Admin Building.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Currently, construction schedule is tentatively scheduled for March 2021.</td>
</tr>
</tbody>
</table>
**GOAL #6 Administrative Effectiveness (AE)**
*Provide efficient and effective administrative systems and procedures in accordance with best management practices.*

<table>
<thead>
<tr>
<th>Department/Goal</th>
<th>Topic</th>
<th>Action Steps</th>
<th>Short Term (0-2 Years)</th>
<th>Mid Term (2-5 Years)</th>
<th>Long Term (+5 Years)</th>
<th>Completion Date</th>
<th>% Complete</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Finance - Purchasing</td>
<td>Objective AE3:</td>
<td>Update the Authority's Purchasing Policy to reflect Board policy and current best practices (See also CS4.001.00)</td>
<td>X</td>
<td></td>
<td>June 2020</td>
<td>100%</td>
<td>Complete. (See also CS4.001.00)</td>
<td></td>
</tr>
<tr>
<td>Management - Governance</td>
<td>Objective AE4:</td>
<td>Seek District of Distinction accreditation through the California Special District Association</td>
<td>X</td>
<td></td>
<td>June 2020</td>
<td>95%</td>
<td>Complete.</td>
<td></td>
</tr>
</tbody>
</table>

- **Objective AE2**: Conduct master planning of major infrastructure (including Information Systems) to promote innovation, ensure sustainability, and reliably and effectively plan and allocate Authority resources.
  - 001.00 Update the Water Distribution System Master Plan, to include the incorporation of asset management tools and practices
    | Completion Date | % Complete | Status |
    | June 2021 and every five-years thereafter | N/A 0% | On target. |
  - 002.00 Update the Water Resources Master Plan
    | Completion Date | % Complete | Status |
    | June 2022 and every five years thereafter | N/A 0% | Completion date is beyond timeline for report. Consultant to be selected in summer of 2021. This Master Plan was postponed by the Board to allow for the results of the Feasibility Study to be considered. |
  - 003.00 Update the Urban Water Management Plan
    | Completion Date | % Complete | Status |
    | July 2021 and every five years thereafter | N/A 0% | Completion date is beyond timeline for report. Consultant to be selected in summer of 2020. RFP being drafted in June/July 2020. |
  - 004.00 Develop the Strategic Communications Plan (see also CS1.004.00)
    | Completion Date | % Complete | Status |
    | June 2019 and every five years thereafter | N/A | Completion date is beyond timeline for report. |
  - 005.00 Update Authority Strategic Plan to include public, employee and Board input
<pre><code>| Completion Date | % Complete | Status |
| June 2022 and every five years thereafter | N/A | Completion date is beyond timeline for report. |
</code></pre>
<table>
<thead>
<tr>
<th>Department/Topic</th>
<th>Action Steps</th>
<th>Short Term (0-2 Years)</th>
<th>Mid Term (2-5 Years)</th>
<th>Long Term (+5 Years)</th>
<th>Completion Date</th>
<th>% Complete</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Management - Records Management</td>
<td><strong>Objective AE5</strong>: Update the Authority Records Retention Policy and Retention Schedule in accordance with legal requirements and best management practices.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>001.00 Update Records Retention Policy in consultation with legal counsel and present to Board for adoption</td>
<td>X</td>
<td></td>
<td></td>
<td>June 2020</td>
<td>90%</td>
<td>The records retention policy is substantially complete; adoption is on hold pending completion of the records retention schedule.</td>
</tr>
<tr>
<td></td>
<td>002.00 Develop a records retention schedule and present to Board for adoption</td>
<td>X</td>
<td></td>
<td></td>
<td>June 2020</td>
<td>75%</td>
<td>The records retention schedule is being finalized. This project is on hold due to reprioritization of projects.</td>
</tr>
</tbody>
</table>
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### GOAL #7 Environmental Stewardship (ES)

*Provide core services while maintaining a balanced approach to human and environmental needs.*

<table>
<thead>
<tr>
<th>Department/Topic</th>
<th>Action Steps</th>
<th>IMPLEMENTATION</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Administrative Services - Water Efficiency</td>
<td><strong>Objective ES1:</strong> Revise and implement the water use efficiency plan to meet or exceed forthcoming revisions from the State for goals/reporting requirements (Source: SBx7-7; State Water Resources Control Board Regulations)</td>
<td></td>
<td>On target.</td>
</tr>
<tr>
<td></td>
<td>001.00 Implement Demand Management Measures to meet or exceed water efficiency goals listed in the 2015 Urban Water Management Plan (UWMP)</td>
<td>X X X June each year through 2035 100% Complete</td>
<td></td>
</tr>
<tr>
<td></td>
<td>002.00 Meet 2020 water use target of 115 GPCD</td>
<td>X 2020 100% On target (April 2020 GPCD was 46 GPCD)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>003.00 Incorporate State-adopted water efficiency targets into water use efficiency plans</td>
<td>X 2020 N/A Pending State rules. 4/21/2020 State mandated water use reporting. The Authority was already reporting to the State.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>004.00 Incorporate State-adopted shortage contingency requirements into the Drought Response and Recovery plan</td>
<td>X 2021 N/A Pending State rules.</td>
<td></td>
</tr>
<tr>
<td>Administration - Water Efficiency</td>
<td><strong>Objective ES2:</strong> Increase conserved water supplies through water efficiency education and assistance programs and outreach efforts, strategic partnerships with public and private agencies, and developing effective rate setting strategies (Source: State Water Resources Control Board Regulations)</td>
<td></td>
<td>On target.</td>
</tr>
<tr>
<td></td>
<td>001.00 Use a mix of outreach methods to raise customer awareness such as: &quot;On Tap&quot; customer newsletter, special bill inserts, advertising, Speakers' Bureau, and social media; report on outreach methods quarterly</td>
<td>X X X Annually 100% On track. Outreach methods included: Authority website updates, On Tap customer newsletter, Facebook, Twitter, Nextdoor, Nixel via City of Chula Vista (CV), Go Green and Clean CV newsletter, bill inserts, direct mail, envelope artwork, and Facebook ads. Reported to Board quarterly.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>002.00 Host and/or partner to provide a minimum of four customer education events per year on water efficiency topics</td>
<td>X X X Annually 25% Customer Appreciation Day event was held. Authority did not participate in Fall Garden Festival because it didn’t follow Board policy since attendees were charged for attendance. The Landscape Design Class and Spring Garden Festival were canceled due to COVID-19.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>003.00 Report on the number of regional conservation rebates issued and participants in the Sustainable Landscapes Program (SLP) through the San Diego County Water Authority</td>
<td>X X X Quarterly 100% Complete</td>
<td></td>
</tr>
<tr>
<td></td>
<td>004.00 Implement an Authority conservation rebate program, and report quarterly on the number of applications received, devices rebated, and proposed program adjustments</td>
<td>X X X Quarterly 100% Complete</td>
<td></td>
</tr>
</tbody>
</table>
## GOAL #7 Environmental Stewardship (ES)

Provide core services while maintaining a balanced approach to human and environmental needs.

<table>
<thead>
<tr>
<th>Action Steps</th>
<th>Short Term (0-2 Years)</th>
<th>Mid Term (2-5 Years)</th>
<th>Long Term (+5 Years)</th>
<th>Completion Date</th>
<th>% Complete</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>005.00 Provide a minimum of 20 customers with water efficiency audits</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Annually</td>
<td>100%</td>
<td>Complete</td>
</tr>
<tr>
<td>006.00 Develop and administer a targeted water efficiency call-to-action campaign to compliment the annual EPA-sponsored Fix a Leak Week</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Annually each spring</td>
<td>100%</td>
<td>Complete. 14 rebates were issued.</td>
</tr>
<tr>
<td>007.00 Expand the water efficiency grant program to encourage applications from a wide variety of stakeholders for innovative water efficiency partnerships and programs, and report to the Board on the grants provided</td>
<td>X</td>
<td></td>
<td></td>
<td>Annually</td>
<td>100%</td>
<td>Initially had three grant applications; two were canceled by applicant (City of Chula Vista will resubmit next fiscal year and California Native Plant Society canceled the project) and one was completed (A Reason To Survive).</td>
</tr>
<tr>
<td>008.00 Implement a program to replace customer pressure reducing valves in targeted areas</td>
<td>X</td>
<td></td>
<td></td>
<td>June 2020</td>
<td>N/A</td>
<td>PRV program was canceled due to report from Inland Empire showing that no water savings were gained by this program. Due to low water usage by Authority customers staff re-evaluated this program and determined that it would not achieve objectives desired. This has been converted to a rebate program.</td>
</tr>
</tbody>
</table>

### Administrative Services - Energy Efficiency

#### Objective ES3: Perform a systematic audit of the energy usage at Authority facilities and pursue energy saving measures.

<table>
<thead>
<tr>
<th>Action Steps</th>
<th>Short Term (0-2 Years)</th>
<th>Mid Term (2-5 Years)</th>
<th>Long Term (+5 Years)</th>
<th>Completion Date</th>
<th>% Complete</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>001.00 Monitor energy usage at each facility against historical usage trends</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>June each year through 2035</td>
<td>50%</td>
<td>Posting of monthly facility energy consumption paused at start of 2020 due to workload priorities.</td>
</tr>
<tr>
<td>002.00 Install at photovoltaic (i.e. solar) system at Loveland Lake</td>
<td>X</td>
<td></td>
<td></td>
<td>June 2020</td>
<td>10%</td>
<td>Project delayed to FY 2020-21 due to COVID-19.</td>
</tr>
</tbody>
</table>

### Distribution - Air Quality

#### Objective ES4: Comply with Heavy Equipment Replacement policies from the regulatory agencies (EPA Emissions Standards; CalEPA Air Resources Board Diesel Truck Regulations)

<table>
<thead>
<tr>
<th>Action Steps</th>
<th>Short Term (0-2 Years)</th>
<th>Mid Term (2-5 Years)</th>
<th>Long Term (+5 Years)</th>
<th>Completion Date</th>
<th>% Complete</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>001.00 Replace equipment beginning in FY 2012-13 and ending in FY 2024-25 to meet requirements of CARB (Approximately one replacement every other year)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>June 2025</td>
<td>100%</td>
<td>On target. Welder was replaced to meet air quality requirements. On track to meet task deadline.</td>
</tr>
<tr>
<td>002.00 Replace equipment beginning in FY 2018-19 and ending in FY 2024-25 to meet requirements of the Air Pollution Control District (Approximately one replacement every other year)</td>
<td>X</td>
<td></td>
<td></td>
<td>June 2025</td>
<td>100%</td>
<td>Welder was replaced to meet air quality requirements. On track to meet task deadline.</td>
</tr>
</tbody>
</table>
## GOAL #7 Environmental Stewardship (ES)

Provide core services while maintaining a balanced approach to human and environmental needs.

<table>
<thead>
<tr>
<th>Objective ESS:</th>
<th>Continue to implement the Sweetwater Reservoir Habitat Management Plan (HMP), applying adaptive management recommendations and improvements of the Conceptual Plan for the Wetlands Habitat Recovery Project (HRP) and pursue other strategies to aid in the long-term management of the area (Source: Authority Habitat Management Plan and Wetland Habitat Recovery Plan)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action Steps</td>
<td>IMPLEMENTATION</td>
</tr>
<tr>
<td>001.00 Complete Habitat Recovery Project</td>
<td>X</td>
</tr>
<tr>
<td>001.01 Re-design HRP (Integrated Regional Water Management [IRWM] Grant)</td>
<td>X</td>
</tr>
<tr>
<td>001.02 Additional HRP Environmental Review and Permitting (IRWM Grant)</td>
<td>X</td>
</tr>
<tr>
<td>001.03 HRP Implementation (IRWM Grant)</td>
<td>X</td>
</tr>
<tr>
<td>001.04 HRP Maintenance and Monitoring (IRWM Grant)</td>
<td>X</td>
</tr>
<tr>
<td>002.00 Implement the updated HMP Management Plan to be prepared and permitted as part of the HRP</td>
<td>X</td>
</tr>
<tr>
<td>Department/Topic</td>
<td>Action Steps</td>
</tr>
<tr>
<td>-----------------</td>
<td>--------------</td>
</tr>
<tr>
<td>Water Quality - Habitat Management Program</td>
<td>003.00 Assess potential opportunities for developing mitigation banks within the HMP for current and future Authority projects (e.g., solar panels at Desal Facility)</td>
</tr>
</tbody>
</table>

**Objective ES6:** Complete studies related to Groundwater Management, to include a Sustainable Groundwater Management Plan in coordination with City of San Diego (Source: Settlement Agreement between Authority and City of San Diego; Sustainable Groundwater Management Act)

<p>| Engineering - Groundwater Management | 001.00 Conduct groundwater studies by the U.S. Geological Survey to further understand the San Diego Formation and support development of the GSP | X | June 2021 | N/A 85% Completion date is beyond timeline of report. Data Report 1 submitted, Data Report 2 pending; reports on Paleontology, Geology, and Land Deformation expected in summer of 2020, followed by Professional Paper summary report late FY 2020-21. Project is 85% complete. |
|-----------------|--------------|----------------|--------|
| | 002.00 Prepare Groundwater Sustainability Plan (GSP) | X | June 2020 | 95% Preliminary Groundwater Sustainability Plan prepared. Special Board meeting scheduled for 7/21/2020 for consulting team to present results to the Governing Board. |</p>
<table>
<thead>
<tr>
<th>Department/Topic</th>
<th>Action Steps</th>
<th>Short Term (0-2 years)</th>
<th>Mid Term (2-5 years)</th>
<th>Long Term (+5 years)</th>
<th>Completion Date</th>
<th>% Complete</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Water Quality/Engineering - Operational Regulatory Requirements</strong></td>
<td><strong>Objective E57:</strong> Develop and Implement Comprehensive Operations and Maintenance Plan for Sweetwater and Loveland Reservoirs and other Authority properties and obtain permits from Regulating Agencies</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>On target.</strong></td>
</tr>
<tr>
<td></td>
<td>001.00 Prepare Property Operations and Maintenance Plan</td>
<td>X</td>
<td></td>
<td></td>
<td>December 2019</td>
<td>100%</td>
<td>Draft Property O&amp;M Plan has been completed and was used in the RFQ for consultant services related to environmental review and permitting. Statements of Qualifications are due Jan. 22, 2020.</td>
</tr>
<tr>
<td></td>
<td>002.00 Environmental Review and Permitting</td>
<td>X</td>
<td></td>
<td></td>
<td>June 2022</td>
<td>N/A 5%</td>
<td>Completion date is beyond timeline of report. ICF Jones &amp; Stokes (ICF) was selected from three firms that submitted Statements of Qualifications. Project is 5% complete.</td>
</tr>
<tr>
<td></td>
<td>003.00 Implement Plan according to permit requirements</td>
<td>X</td>
<td>X</td>
<td></td>
<td>TBD</td>
<td>N/A</td>
<td>Environmental Review and Permitting needs to be completed before implementing the Property Operations and Maintenance Plan.</td>
</tr>
<tr>
<td><strong>Administrative Services - Sustainability</strong></td>
<td><strong>Objective E58:</strong> Implement the Sustainability Action Plan (Source: Authority Sustainability Action Plan)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>On target.</strong></td>
</tr>
<tr>
<td></td>
<td>001.00 Engage Green Team to implement a minimum of five SAP initiatives</td>
<td>X</td>
<td></td>
<td></td>
<td>Annually</td>
<td>100%</td>
<td>5 initiatives implemented in Q1, Q2, and Q3.</td>
</tr>
<tr>
<td></td>
<td>002.00 Continue to monitor waste streams to ensure recyclable and reusable resources are diverted to appropriate facilities and report on the quantity of generated waste</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Quarterly</td>
<td>75%</td>
<td>Trash audits postponed in Q4 while staff is working remotely.</td>
</tr>
<tr>
<td></td>
<td>003.00 Apply for the I-Commute Bike Month 2020 Mini-Grant Program</td>
<td>X</td>
<td></td>
<td></td>
<td>January 2020</td>
<td>100%</td>
<td>The Authority was listed on the City of Chula Vista’s GO by Bike grant application. Event scheduled for May 2020 but was then postponed until May 2021.</td>
</tr>
<tr>
<td><strong>Management - Land Acquisition</strong></td>
<td><strong>Objective E59:</strong> Explore acquisition of property within the Sweetwater River Watershed when properties become available for sale of the protection of the watershed and water quality.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>On target.</strong></td>
</tr>
<tr>
<td></td>
<td>001.00 Discuss land acquisition opportunities with Board, as properties become available on the market</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>As opportunities arise</td>
<td>N/A</td>
<td>Land acquisition opportunities were discussed with the Board in Closed Session. The Authority did not acquire any properties during the fiscal year.</td>
</tr>
</tbody>
</table>
TO: Governing Board (Communications Committee)
FROM: Management
DATE: July 10, 2020
SUBJECT: Consideration of Communications/Outreach Consulting Services

SUMMARY
At its June 24 meeting, the Board moved $46,000 from the budget for communication outreach to the Expense Contingency fund and referred consideration of the use of communication outreach consultants and staffing levels to the Communications Committee. For reference on the use of consultants and staffing levels prior to the recent Board action, attached is a document that was presented to the Communications Committee in January of 2020 and details the following:

- Organization of the section, including staffing levels and consultant reporting relationships; and
- Work duties performed and managed by this section.

Recent Use of Consultants
In 2018, the General Manager executed a contract with SVPR Communications to assist with improving and enhancing the Authority’s reputation amongst its Latino customers and to amplify the Authority’s outreach efforts by increasing exposure in print and other media. In 2019, the Board approved the continuation of SVPR Communications’ services and the addition of Three-Sixty Strategies (formerly Laing Communications) for on-call crisis communications assistance as needed.

Future Needs
In 2019, the Authority completed its first Five-year Strategic Communications Plan. This plan provides a road map for a span of five years. A public opinion poll/customer survey was included in the Board-approved FY 2020-21 Budget and will be conducted in the Fall of 2020. This survey, which the Strategic Communication Plan recommended, will provide data to staff regarding outreach preferences, demographic data, and other metrics to help determine the outreach needs and resources needed to implement the Strategic Communications Plan and effective customer outreach. This data will also help staff to determine the long-term staffing levels and consulting needs for the Authority’s Public Affairs staff.
Memo to: Governing Board (Communications Committee)
Subject: Consideration of Communications/Outreach Consulting Services
July 10, 2020
Page 2 of 3

To assist with outreach efforts until the survey is completed and data has been reviewed and presented to the Board, staff is recommending two separate contracts. For translation services, staff recommends that Authority staff obtain services (through a Request for Quotes) for translation services. Following the Board-approved Financial Policies for procurement, staff would develop an RFQ to obtain translation services that meet the needs of the Authority. For assistance with outreach and communications, staff recommends that the Authority obtain services (through a Request for Proposals) for on-call Communications/Outreach services with a scope of work including the following:

- Crisis communications
- Introductions to local community groups
- Feedback on community reputation/perceptions and feedback on areas of improvement
- Assistance with written external communications and promotion
- Advice and review of materials and plans

At the conclusion of the customer survey, the findings from the study would be brought back to the Communications Committee to determine future consultant needs and resources for implementation.

**PAST BOARD ACTIONS**

- **June 24, 2020**  The Governing Board moved the $46,000 budget for communication outreach to the Expense Contingency fund, and referred consideration of use of communication outreach consultants and staffing levels to the Communications Committee.

- **June 26, 2019**  The Governing Board awarded a two-year contract, with a contract termination clause, for an amount not to exceed $36,000 annually to SVPR Communications, La Mesa, CA.

- **April 10, 2019**  The Governing Board approved to enter into an agreement with Laing Strategic Communications on an as-needed basis, not to exceed an annual amount of $10,000.

**FISCAL IMPACT**
The fiscal impact depends upon Board action.
Memo to: Governing Board (Communications Committee)
Subject: Consideration of Communications/Outreach Consulting Services
July 10, 2020
Page 3 of 3

POLICY

Strategic Plan Goal 4: Customer Service, Citizen Engagement, and Community Relations - Provide high quality customer service based on customer feedback and serve the community through education, outreach, and partnerships.

Policy 517 – Financial Policies, Procurement Policy

ALTERNATIVES

1. Provide direction on translation services:
   a. Move $5,000 from Expense Contingency to the Communications Outreach Budget for translation services; or
   b. Direct staff to stop the translation of documents.

2. Provide direction on on-call communication outreach/assistance:
   a. Move $10,000 from Expense Contingency to the Communications Outreach Budget for on-call communication/outreach assistance; and
   b. Direct staff on how to select consultant; or
   c. Direct staff to no longer use the services of on-call communication outreach/assistance.

STAFF RECOMMENDATION

Staff recommends that the Governing Board move $15,000 Expense Contingency to the Communications Outreach Budget for the following services and re-evaluate the use of on-call communication outreach/assistance after consideration of results from the customer survey.

1. Translation services in the amount of $5,000 to be procured through a Request for Quotes (RFQ); and
2. On-call Communications/Outreach Assistance in the amount of $10,000 to be procured through a Request for Proposals (RFP).

ATTACHMENT

Communications Team and Tasks (December 2019)
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OUTREACH

DIGITAL, COMMUNITY & MEDIA

Website
Social media
  • Facebook
  • Twitter
  • Next Door
  • LinkedIn
Intranet
Digital campaigns
Graphic design
Customer newsletter
Employee newsletter
Speakers Bureau
Project outreach

Programs outreach
Developer outreach
Education programs
  • Mini-grant Program
  • High School Photo Contest
  • “Water is Life” Poster Contest
Education partnerships
  • Hydro Station
  • Olivewood Gardens
  • Thrively
  • Living Coast Discovery Center
  • Splash Lab & Green Machine

Water Quality Report
Prop 218 notices
Fact sheets / outreach materials
Water tanker / cooler donations
Community events
Special events
Sponsorships
Tours
Press releases
Media relations
Advertisements
Story placement

ADMINISTRATIVE

Communications Committee
Citizens Advisory Committee
Budget planning and management
Communications plan implementation
Work plan implementation

INDUSTRY

Water Conservation Garden Marketing Committee
California Association of Public Information Officials
South County Association of Marketing Professionals
Award applications (AWWA, ACWA, SCEDC, ASCE, etc.)
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TO: Governing Board  
FROM: Management  
DATE: July 17, 2020  
SUBJECT: Consideration of Proposed Administrative Services Department Reorganization and Adoption of Resolution 20-16, Amending the Salary Schedule for All Employees Effective July 22, 2020

SUMMARY
Management is proposing a reorganization of the Administrative Services Department to realign resources to areas where they are most needed, optimize performance, maximize staff expertise, provide organizational efficiencies, and promote best practices for succession planning. The proposal is headcount neutral (the number of employees stays the same) and budget-neutral (no additional cost). The proposal changes staffing in the Programs Section (Risk Management, Safety Programs, Training, Emergency Preparedness and Response, Security, and Water Efficiency Programs), Customer Service Section, and Public Affairs. In developing the proposed reorganization, Management considered the recommendations from the Organizational Study performed by Koff and Associates, as well as data provided by Ralph Andersen, the consultant selected to conduct the recent Salary Survey.

Programs Section
The Program Manager position was vacated in December 2019, creating an opportunity to re-evaluate the position and create organizational efficiencies. The Department Head determined that the position did not need to be filled if other staffing modifications were implemented, including reassigning work to existing positions and reclassifying those positions, thereby creating promotional opportunities in alignment with Strategic Plan goals #5 (Workforce Development) and #6 (Administrative Effectiveness).

Under the proposed reorganization, some of the duties of the Program Manager would shift to the Safety Coordinator, which would be reclassified to a Safety/Risk Officer and be responsible for higher-level duties including Risk Management. The Public Affairs Manager would be reclassified to a Public Affairs and Programs Manager which would take on the additional duties of overseeing training, security, and water efficiency.

The proposed reorganization also includes modifications to the job descriptions of the Programs Analyst and Programs Specialist.
Memo to: Governing Board  
Subject: Consideration of Proposed Administrative Services Department Reorganization and Adoption of Resolution 20-16, Amending the Salary Schedule for All Employees Effective July 22, 2020  

July 17, 2020  
Page 2 of 4

Customer Service Section

The proposed reorganization also addresses deficiencies in the allocation of supervisory and management responsibilities in the Customer Service Office section. In years past, the section was comprised of a Manager, a Supervisor, and two Leadworkers. The current structure provides a Manager and two Leadworkers. Under the current structure, the Manager has a broad umbrella of supervisory responsibilities which includes the customer service field staff, cross connection and backflow staff, and the customer service office staff. The Manager does not have sufficient capacity to effectively manage all those programs as his time is frequently occupied supervising the day-to-day operations of the customer service office staff. An additional challenge is that these three workgroups reside in two different physical locations. The addition of a supervisor in the Customer Service Office section, returning it to its prior structure, will allow the Manager necessary time to effectively manage all of the programs.

The proposed reclassification improves operational efficiency by eliminating the Program Manager classification and utilizing the vacant position to reinstate the Customer Service Office Supervisor. With the addition of a Supervisor, it was determined that the Customer Service Office Leadworker position could also be reclassified to an entry-level Customer Service Office Representative, as a lead would no longer be needed.

These proposed changes will allow the Customer Service Manager to effectively manage all of the programs under his purview and be able to explore higher-level programs and innovations, such as in the area of AMI and increasing backflow prevention, that are needed within the Authority service area.

Attached is Management’s revised Staffing Document, showing the proposed changes by position. All required meet and confer obligations have been met; therefore, no additional negotiations with the represented employee groups will be necessary if approved by the Board.

PAST BOARD ACTIONS

- June 24, 2020: The Governing Board approved the FY 2020-21 Strategic Plan Detailed Work Plan.
FISCAL IMPACT

The proposed reorganization is cost neutral. The reorganization uses savings from the elimination of a Manager position to fund the creation of a Supervisor position and other changes. The reorganization stays within the FY 2020-21 approved Budget, which includes funds for 133 positions.

Summary of Proposal Costs/Savings*

<table>
<thead>
<tr>
<th>Description</th>
<th>Cost</th>
</tr>
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<tbody>
<tr>
<td>Create two positions</td>
<td>$267,191</td>
</tr>
<tr>
<td>- Customer Service Supervisor</td>
<td></td>
</tr>
<tr>
<td>- Reinstate one Customer Service Rep</td>
<td></td>
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<tr>
<td>Reclassifications/Job Modifications (3 positions)</td>
<td>$58,668</td>
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<tr>
<td>Elimination of two positions:</td>
<td>($325,356)</td>
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<tr>
<td>- Programs Manager</td>
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<tr>
<td>- Customer Service Office Leadworker</td>
<td></td>
</tr>
<tr>
<td>NET COST OF PROPOSAL</td>
<td>$503</td>
</tr>
</tbody>
</table>

*Analysis represents highest possible cost to Authority (e.g., all employees are paid at the maximum point in the salary range and enrolled in the family health care plan). Actual costs are anticipated to be lower than presented.

POLICY

Strategic Plan Goal 5 - Attract, retain and develop a highly-skilled, adaptable workforce; equip employees to effectively and safely perform their jobs and prepare for career advancement; promote constructive labor relations.
Memo to: Governing Board  
Subject: Consideration of Proposed Administrative Services Department Reorganization and Adoption of Resolution 20-16, Amending the Salary Schedule for All Employees Effective July 22, 2020  
July 17, 2020  
Page 4 of 4  

Strategic Plan Goal 6 - Provide efficient and effective administrative systems and procedures in accordance with best management practices.  

ALTERNATIVES  
1. Approve the proposal for Administrative Services Staff reorganization and adopt the revised Salary Schedule incorporating those changes.  
2. Direct staff to consider other options to the proposed reorganization.  
3. Leave the current organizational structure status quo.  

STAFF RECOMMENDATION  
Staff recommends that the Governing Board approve the proposal for Administrative Services Department reorganization and adopt Resolution 20-16, Amending the Salary Schedule for All Employees Effective July 22, 2020.  

ATTACHMENTS  
1. Staffing Document  
2. Administration Current Organization Chart  
3. Administration Proposed Organization Chart  
4. Administrative Services Current Organization Chart  
5. Administrative Services Proposed Organization Chart  
6. Resolution 20-16  
7. FY 2020-21 Salary table
## Staffing Document
### Table of Positions

<table>
<thead>
<tr>
<th>Position</th>
<th>Department/Division</th>
<th>2018-19</th>
<th>2019-20</th>
<th>Proposed</th>
<th>Administration</th>
<th>Admin Services</th>
<th>Customer Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Affairs Manager</td>
<td>Administration</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>-1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Public Affairs/Programs Manager</td>
<td>Administration</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td></td>
<td><strong>1</strong></td>
<td><strong>1</strong></td>
<td><strong>1</strong></td>
<td><strong>1</strong></td>
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<td></td>
</tr>
<tr>
<td>Program Manager</td>
<td>Programs</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>-1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Program Analyst</td>
<td>Programs</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Program Specialist</td>
<td>Programs</td>
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<td>1</td>
<td>1</td>
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<td></td>
</tr>
<tr>
<td>Safety Coordinator</td>
<td>Programs</td>
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<td>1</td>
<td>0</td>
<td>-1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Safety/Risk Officer</td>
<td>Programs</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>1</td>
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<td><strong>Subtotal</strong></td>
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<td><strong>3</strong></td>
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</tr>
<tr>
<td>Customer Service Manager</td>
<td>Customer Service</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Customer Service Supervisor (Office)</td>
<td>Customer Service</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Customer Service Leadworker (Office)</td>
<td>Customer Service</td>
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<td>2</td>
<td>1</td>
<td></td>
<td>-1</td>
<td></td>
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<tr>
<td>Customer Service Rep. I/II (Office)</td>
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<td>4</td>
<td>5</td>
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<td>1</td>
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<tr>
<td><strong>Subtotal</strong></td>
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<td><strong>7</strong></td>
<td><strong>8</strong></td>
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<td><strong>1</strong></td>
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RESOLUTION 20-16

RESOLUTION OF THE GOVERNING BOARD OF SWEETWATER AUTHORITY
AMENDING THE SALARY SCHEDULE FOR ALL EMPLOYEES
EFFECTIVE JULY 22, 2020

WHEREAS, the Governing Board of Sweetwater Authority (“Authority”) adopted a salary schedule effective July 22, 2020; and

WHEREAS, the Board is approving a reclassification of positions after having negotiated insofar as required with the labor organizations; and

WHEREAS, CalPERS regulations require that employee salaries be included on the publicly approved Salary Schedule; and

WHEREAS, it is necessary for the Governing Board to adopt the Salary Schedule at a publicly noticed meeting.

NOW, THEREFORE, BE IT RESOLVED by the Governing Board of Sweetwater Authority as follows:

1. The Salary Schedule attached hereto as Attachment 1 and incorporated herein by this reference, is hereby adopted with an effective date of July 22, 2020.

PASSED AND ADOPTED at a regular meeting of the Governing Board of Sweetwater Authority held on the 22nd day of July 2020, by the following vote:

AYES:
NOES:
ABSENT:
ABSTAIN:

______________________________
Steve Castaneda, Chair

Attest:

______________________________
Ligia Perez, Board Secretary
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## SWEETWATER AUTHORITY
### MONTHLY PAY RANGE – ALL POSITIONS
Fiscal Year 2020-2021 Pay Schedule

**07/2020**

### ADMINISTRATION

<table>
<thead>
<tr>
<th>Position</th>
<th>Pay Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Administrative Assistant</td>
<td>6,142-7,466</td>
</tr>
<tr>
<td>Assistant General Manager</td>
<td>14,268-17,343</td>
</tr>
<tr>
<td>Board Secretary/Administrative Assistant</td>
<td>7,839-9,528</td>
</tr>
<tr>
<td>General Manager</td>
<td>19,264</td>
</tr>
<tr>
<td>Office Assistant</td>
<td>5,106-6,206</td>
</tr>
<tr>
<td>Public Affairs/Programs Manager</td>
<td>8,178-9,940 9,356-11,373</td>
</tr>
<tr>
<td>Public Affairs Representative</td>
<td>6,288-7,643</td>
</tr>
<tr>
<td>Senior Public Affairs Representative</td>
<td>6,917-8,407</td>
</tr>
</tbody>
</table>

### ADMINISTRATIVE SERVICES

<table>
<thead>
<tr>
<th>Position</th>
<th>Pay Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Administrative Services Specialist</td>
<td>6,997-8,505</td>
</tr>
<tr>
<td>Cross-Connection Control Specialist I</td>
<td>5,921-7,197</td>
</tr>
<tr>
<td>Cross-Connection Control Specialist II</td>
<td>6,536-7,944</td>
</tr>
<tr>
<td>Cross-Connection Control Supervisor</td>
<td>7,039-8,555</td>
</tr>
<tr>
<td>Customer Service Leadworker (field)</td>
<td>5,636-6,851</td>
</tr>
<tr>
<td>Customer Service Leadworker (office)</td>
<td>5,636-6,851</td>
</tr>
<tr>
<td>Customer Service Manager</td>
<td>9,356-11,373</td>
</tr>
<tr>
<td>Customer Service Representative I (field)</td>
<td>4,512-5,485</td>
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<tr>
<td>Customer Service Representative I (office)</td>
<td>4,512-5,485</td>
</tr>
<tr>
<td>Customer Service Representative II (field)</td>
<td>4,981-6,055</td>
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<tr>
<td>Customer Service Representative II (office)</td>
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<tr>
<td>Customer Service Supervisor (field)</td>
<td>7,522-9,143</td>
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<td>Customer Service Supervisor (office)</td>
<td>6,997-8,505 7,342-8,924</td>
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<tr>
<td>Director of Administrative Services</td>
<td>12,950-15,741</td>
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<tr>
<td>Human Resources Analyst</td>
<td>6,143-7,467</td>
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<tr>
<td>Human Resources Manager</td>
<td>10,375-12,611</td>
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<tr>
<td>Human Resources Technician</td>
<td>5,376-6,535</td>
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<td>Program Analyst</td>
<td>6,143-7,467 6,917-8,407</td>
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<tr>
<td>Program Manager</td>
<td>9,320-11,328</td>
</tr>
<tr>
<td>Program Specialist</td>
<td>6,847-8,322 6,917-8,407</td>
</tr>
<tr>
<td>Safety/Risk Officer Coordinator</td>
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<tr>
<td>Senior Human Resources Analyst</td>
<td>7,563-9,193</td>
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<tr>
<td>Telephone Receptionist I</td>
<td>3,704-4,502</td>
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<tr>
<td>Telephone Receptionist II</td>
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<tr>
<td>Training Clerk I</td>
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<td>Training Clerk II</td>
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<tr>
<td>Water Conservation Coordinator</td>
<td>6,217-7,557</td>
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</table>
# SWEETWATER AUTHORITY
## MONTHLY PAY – RANGE – ALL POSITIONS
**Fiscal Year 2020-2021**

07/01/2020

<table>
<thead>
<tr>
<th>Position</th>
<th>Range</th>
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</thead>
<tbody>
<tr>
<td>Director of Distribution</td>
<td>14,234-17,301</td>
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<tr>
<td>Distribution Manager</td>
<td>9,320-11,328</td>
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<tr>
<td>Equipment Mechanic</td>
<td>5,499-6,683</td>
</tr>
<tr>
<td>Equipment Mechanic Supervisor</td>
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<tr>
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<td>Operations Clerk III</td>
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<tr>
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<tr>
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<tr>
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<tr>
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<tr>
<td>Welder I/Utility Worker II</td>
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<tr>
<td>Position</td>
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<td>----------------------------------------------</td>
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<tr>
<td>Director of Engineering</td>
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<tr>
<td>Engineer</td>
<td>8,670-10,539</td>
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<tr>
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<td>Environmental Project Manager</td>
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<td>Lead Watershed Caretaker</td>
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### Finance & Information Systems

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<tr>
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<tr>
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<tr>
<td>Account Clerk III</td>
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<tr>
<td>Accountant</td>
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<td>Accounting Manager</td>
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<tr>
<td>Business Systems Programmer</td>
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<tr>
<td>Buyer I</td>
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<tr>
<td>Director of Finance</td>
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<tr>
<td>GIS Specialist</td>
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<tr>
<td>Information Systems Support Specialist I</td>
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<td>Information Systems Manager</td>
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<td>Information Systems Supervisor</td>
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<td>Junior Accountant</td>
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<td>Procurement Specialist</td>
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<td>Senior Accountant</td>
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**SWEETWATER AUTHORITY**
**MONTHLY PAY – RANGE – ALL POSITIONS**
Fiscal Year 2020-2021

**07/01/2020**

<table>
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<tr>
<th>WATER QUALITY</th>
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<tr>
<td>Biologist</td>
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<td>Chemist</td>
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<tr>
<td>Water Treatment Superintendent</td>
<td>10,482-12,741</td>
</tr>
</tbody>
</table>

In addition to the above salary ranges, employees who are assigned the following duties will receive the designated additional pay, in accordance with the publicly approved Memoranda of Understanding (MOUs) for all represented employees in the Sweetwater Authority Employees’ Committee (SAEC), Middle Management Group (MMG) and Confidential Group (CG) (unrepresented employees - the General Manager, Assistant General Manager and Department Directors- are not entitled to these additional pays):

**Standby Pay (SAEC Only):**
- Regular: $28.00/day
- Weekend: $35.00/day
- Holidays: $50.00/day
Holiday Pay (SAEC Only):
One and one half the regular rate of pay for actual hours worked in addition to regular holiday pay

Shift Differential Pay (SAEC Only):
2% of base pay increase will be provided to Watershed Caretakers, Lead Watershed Caretaker, Caretaker Crew Supervisor (assigned weekend or rotating shifts)

4% of base pay increase will be provided to Water Treatment Plant Operators (Depending on shift)

4% of base pay increase will be provided to all other classifications whenever normal shifts are changed to the swing shift

8% of base pay increase will be provided to all other classifications whenever normal shifts are changed to the grave yard shift

Out of Class – Acting Pay:
For assignment over one day lowest range of the assigned class – no less than 2.5% above usual rate of pay

Bilingual Pay:
$20 per pay period as provided for in the MOU
TO: Governing Board
FROM: Management
DATE: July 17, 2020
SUBJECT: Consideration of Membership to the Water Conservation Garden Authority for FY 2021-22

SUMMARY
Sweetwater Authority (Sweetwater) is currently a member of the Water Conservation Garden Authority (The Garden), a Joint Powers Authority (JPA). Membership with The Garden is on an annual basis. Any changes to the membership require a one-year notification by July 31, with the changes taking effect the following fiscal year.

Background
The Garden, located adjacent to Cuyamaca College, was founded in 1992 as a JPA between Otay Water District, Helix Water District, and Grossmont-Cuyamaca College District. In 2003, the JPA agreement was amended to add the City of San Diego and Padre Dam Water District as member agencies. In 2006, Sweetwater joined the JPA. The current members of the JPA are the City of San Diego, San Diego County Water Authority (CWA), Helix Water District, Otay Water District, Grossmont-Cuyamaca College District, and Sweetwater. In 2011, the operation of The Garden was transferred to the Friends of the Water Conservation Garden (Friends). The Garden staff includes an Executive Director who reports directly to the Friends Board, as well as various support, teaching, and maintenance staff members, and volunteers. The JPA continues to exist, meets on a quarterly basis unless otherwise needed, and has no direct responsibility to operate The Garden. Director Castaneda is currently the Sweetwater representative to the JPA, and Director Sotelo-Solis is Sweetwater’s alternate representative.

Membership Fees and JPA Agreement Obligations
Each JPA member is contractually required to pay an annual membership fee. The payment amount is set up on a tiered system, which is based on the geographic location relative to The Garden. CWA pays the highest proportion; the City of San Diego and Sweetwater pay a lower proportion. The FY 2018-19 membership payment made by Sweetwater was $71,243; the FY 2019-20 membership payment was $67,680; the FY 2020-21 payment will be $60,912; and the FY 2021-22 payment would be $54,821 should the Board decide to stay with The Garden.
Memo to: Governing Board
Subject: Consideration of Membership to the Water Conservation Garden Authority for FY 2021-22
July 17, 2020
Page 2 of 3

In accordance with the latest JPA Agreement, any member may withdraw its membership by providing written notice of its intent to withdraw by the end of July of the fiscal year, with withdrawal occurring by the end of that fiscal year; however, membership payment for that fiscal year is still required.

**Sweetwater Authority Customer Attendance**

The Garden has nearly six acres of displays that showcase water conservation through a series of beautiful themed gardens, such as native plant vegetable gardens, as well as how-to displays such as mulch and irrigation exhibits. Most recent available information on attendance is provided in the following chart.

![Sweetwater Authority Customer Attendance Chart](chart.png)

**PAST BOARD ACTION**

July 19, 2019  The Governing Board approved to continue membership for FY 2020-21.

**FISCAL IMPACT**

Should the Board decide to continue membership with the Garden, the fiscal impact includes staff time to promote and support The Garden and its events plus an annual fee, as presented below:

- $54,821 in FY 2021-22
- $47,146 in FY 2022-23

**POLICY**

Strategic Plan Goal 7: Environmental Stewardship - Provide core services while maintaining a balanced approach to human and environmental needs.
Memo to: Governing Board  
Subject: Consideration of Membership to the Water Conservation Garden Authority for FY 2021-22  
July 17, 2020  
Page 3 of 3

- Objective ES2: Increase conserved water supplies through water efficiency education and assistance program and outreach efforts, strategic partnerships with public and private agencies, and developing effective rate setting strategies.

**ALTERNATIVES**

1. Maintain membership: Direct the General Manager to include funds to remain a member of the Water Conservation Garden Authority when preparing the FY 2021-22 Budget.

2. End membership: Direct the General Manager to provide notice to withdraw from the Water Conservation Garden Authority and not include membership funds when preparing the FY 2021-22 Budget.

3. End membership, but continue to provide some financial contribution: Direct the General Manager to provide notice to withdraw from the Water Conservation Garden Authority and to include funds of an amount directed by the Board when preparing the FY 2021-22 Budget.

4. Other direction as identified by the Governing Board.

**STAFF RECOMMENDATION**

Staff seeks the direction of the Governing Board.
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TO: Governing Board
FROM: Legal Counsel
DATE: July 17, 2020
SUBJECT: Approve a Professional Services Agreement for As Needed Labor and Employment Legal Services

SUMMARY
At its July 8, 2020 meeting, the Governing Board interviewed the following firms for the provision of As Needed Labor and Employment Legal Services:

- Devaney Pate Morris & Cameron, LLP
- Dunn DeSantis Walt & Kendrick, LLP

Following interviews, the Board appointed the firm of Devaney Pate Morris & Cameron, LLP as Special Legal Counsel for As Needed Labor and Employment Legal Services, subject to the approval of an agreement for legal services at a future Board meeting.

PAST BOARD ACTION(S)
July 8, 2020 The Governing Board appointed Devaney Pate Morris & Cameron, LLP as Special Legal Counsel subject to the approval of an agreement for legal services at a future Board meeting.

FISCAL IMPACT
The FY 2020-21 Budget includes budgeted amounts for legal services.

ALTERNATIVES
1) Approve the professional services agreement for As Needed Labor and Employment Legal Services with Devaney Pate Morris & Cameron, LLP and direct the Chair to execute the agreement.

2) Do not approve the professional services agreement for As Needed Labor and Employment Legal Services with Devaney Pate Morris & Cameron, LLP.

ATTACHMENT
Agreement for As Needed Labor and Employment Legal Services with Devaney Pate Morris & Cameron, LLP
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AGREEMENT FOR SERVICES
BETWEEN SWEETWATER AUTHORITY
AND
DEVANEY PATE MORRIS & CAMERON, LLP

This Agreement is made and entered into this day of ___________ 20__ by and between SWEETWATER AUTHORITY (hereinafter referred to as the “Authority”), a joint powers agency operating under the Irrigation District Law, Water Code § 20500 et seq., and Devaney Pate Morris & Cameron, LLP (hereinafter referred to as “Consultant”).

RECITALS

A. The Authority is a public agency of the State of California and is in need of professional services for the following project: Labor and Employment Legal Services (hereinafter referred to as “the Project”).

B. Consultant is duly licensed and has the necessary qualifications to provide such services.

C. The parties desire by this Agreement to establish the terms for the Authority to retain Consultant to provide the services described herein.

AGREEMENT

NOW, THEREFORE, IT IS AGREED AS FOLLOWS:

1. Services

1.1 Consultant shall provide the Authority with the services described in the Scope of Services attached hereto as Exhibit “A” and by this reference incorporated herein (“Services”). Consultant warrants that it will perform the Services as set forth herein in a competent, professional and satisfactory manner.

1.2 At any time during the term of this Agreement, the Authority may request changes in the Scope of Services, and any such change shall be processed by the Authority in the following manner: a letter outlining the changes shall be forwarded to the Authority by Consultant with a statement of estimated changes in fee or time schedule. An amendment to the Agreement shall be prepared by the Authority and executed by both parties before performance of such services or the Authority will not be required to pay for the changes in the scope of work. Such amendment shall not render ineffective or invalidate unaffected portions of this Agreement.

2. Compensation

2.1 Subject to paragraph 2.2 below, the Authority shall pay for such Services in accordance with the Schedule of Charges set forth in Exhibit “B” and by this reference incorporated herein.

2.2 Unless otherwise provided herein, Consultant will perform services on a time and material basis. Periodic payments shall be made within thirty (30) days of receipt of an undisputed statement for services rendered. Payments to Consultant for work performed will be made on a monthly billing basis.

2.3 Payment shall not constitute acceptance of any work completed by Consultant.
3. **Time of Performance**

3.1 Consultant shall perform its services hereunder in a prompt and timely manner, in accordance with the Activity Schedule shown in Exhibit “C,” and shall commence performance upon receipt of the written Notice to Proceed from the Authority. The Notice to Proceed shall set forth the date of commencement of work. Consultant shall confer as requested with Authority representatives to review progress of work elements, adherence to work schedule, coordination of work, scheduling of review and resolution of problems which may develop.

3.2 Neither the Authority nor Consultant shall be considered in default of this Agreement for delays in performance caused by circumstances beyond the reasonable control of the non-performing party. For purposes of this Agreement, such circumstances include, but are not limited to, abnormal weather conditions, floods, earthquakes, fire, epidemics, war, riots, and other civil disturbances; strikes, lockouts, work slowdowns, and other labor disturbances, sabotage, or judicial restraint.

3.3 Should such circumstances occur, the non-performing party shall, within a reasonable time of being prevented from performing, give written notice to the other party describing the circumstances preventing continued performance and the efforts being made to resume performance of this Agreement.

4. **Intentionally omitted.**

5. **Standard of Care**

Consultant’s services will be performed in accordance with generally accepted professional practices and principles and in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions.

6. **Insurance**

6.1 **Commercial General Liability and Automobile Liability Insurance** - Consultant shall provide and maintain the following commercial general liability and automobile liability insurance during the performance of all work under this Agreement, and for a minimum of twenty-four (24) months following the date of the Project completion and acceptance by the Authority, in amounts not less than specified herein, Commercial General Liability Insurance, in a form and with insurance companies acceptable to the Authority:

6.1.1 **Coverage** - Coverage for commercial general liability and automobile liability insurance shall be at least as broad as the following:

   (a) Insurance Services Office (ISO) Commercial General Liability Coverage (Occurrence Form CG 0001)

   (b) Insurance Services Office (ISO) Business Auto Coverage (Form CA 0001), covering Symbol 1 (any auto)

   (c) Insurance Service Office (ISO) Excess Liability (if necessary)
6.1.2 **Required Provisions** - The general liability, auto liability and excess liability policies are to contain, or be endorsed to contain, the following provisions:

(a) The Authority, its Board, and each member of the Board, its officers, employees, agents, and the Authority’s designated volunteers are to be given insured status at least as broad as ISO endorsement CG 20 10 11 85; or both CG 20 10 10 01 and CG 20 37 04 13 (or the CG 20 10 04 13 (or earlier edition date) specifically naming all of the Authority’s parties required in this agreement, or using language that states “as required by contract”).

(b) All Sub-consultants hired by Consultant must also have the same forms or coverage at least as broad; as respects (via CG 20 38 04 13): liability arising out of activities performed by or on behalf of Consultant; products and completed operations of Consultant; premises owned, occupied or used by Consultant; and automobiles owned, leased, hired or borrowed by Consultant. The coverage shall contain no special limitations on the scope of protection afforded to the Authority its Board and each member of the Board, its officers, employees, agents, and the Authority’s designated volunteers

(c) It is understood and agreed to by the parties hereto and the insurance company(s), that the Certificate(s) of Insurance and policies shall so covenant and shall be construed as primary, and the Authority insurance and/or deductibles and/or self-insured retentions or self-insured programs shall not be construed as contributory using the ISO endorsement CG 20 01 04 13 or coverage at least as broad.

(d) Any failure to comply with reporting or other provisions of the policies including breaches of warranties shall not affect coverage provided to the Authority its Board and each member of the Board, its officers, employees, agents, and the Authority’s designated volunteers.

(e) Consultant’s insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer’s liability.

(f) Policy limits shall not be less than the minimum limits described below. The limits of insurance required by this Contract may be satisfied by a combination of primary, and umbrella or excess insurance. Each umbrella or excess policy shall follow the same provisions as the primary policy.

(g) Each insurance policy required above shall provide that coverage shall not be canceled, except with notice to the Authority.

(h) Such liability insurance shall indemnify Consultant and his/her sub-consultants against loss from liability imposed by law upon, or assumed under contract by, Consultant or his/her sub-consultants for damages on account of such bodily injury (including death), property damage, personal injury, completed operations, and products liability.

(i) The general liability policy shall cover bodily injury and property damage liability, owned and non-owned equipment, blanket contractual liability, completed operations liability, explosion, collapse, underground excavation, and removal of lateral support.

(j) The automobile liability policy shall cover all owned, non-owned, and hired automobiles.
AGREEMENT FOR SERVICES
BETWEEN SWEETWATER AUTHORITY
AND
DEVANEY PATE MORRIS & CAMERON

(k) All of the insurance shall be provided on policy forms and through companies satisfactory to the Authority.

6.2 Workers’ Compensation and Employer’s Liability Insurance – By his/her signature hereunder, Consultant certifies that he/she is aware of the provisions of Section 3700 of the California Labor Code which require every employer to be insured against liability for workers’ compensation or to undertake self-insurance in accordance with the provisions of that code, and he/she will comply with such provisions before commencing the performance of the work of this agreement.

6.2.1 Coverage and Required Provisions - Coverage for Workers’ Compensation and Employer’s Liability Insurance shall be at least as broad and/or be endorsed to include the following:

(a) Consultant shall provide, during the life of this Agreement, and for a minimum of twenty-four (24) months following the date of the Project completion, workers’ compensation insurance for all of the employees engaged in Work under this Agreement, on or at the Project site, and, in case any of sublet Work, Consultant shall require each sub-consultant similarly to provide workers’ compensation insurance for all the latter’s employees as prescribed by State law. Any class of employee or employees not covered by a sub-consultant’s insurance shall be covered by Consultant’s insurance.

(b) In case any class of employees engaged in work under this Agreement, on or at the Project site, is not protected under the Workers’ Compensation Statutes, Consultant shall provide or shall cause a sub-consultant to provide, adequate insurance coverage for the protection of such employees not otherwise protected.

(c) Consultant is required to secure payment of compensation to his employees in accordance with the provisions of Section 3700 of the Labor Code. Consultant shall file with the Authority certificates of its insurance protecting workers and shall provide certificates at any time upon request. Company or companies providing insurance coverage shall be acceptable to the Authority, if in the form and coverage as set forth in the Contract Documents.

(d) Consultant shall assume the immediate defense of and indemnify and save harmless the Authority, the Board, and each member of the Board, its officers, employees, agents, and consultants from all claims, loss, damage, injury, and liability of every kind, nature, and description brought by any person employed or used by Consultant, or any sub-consultant, to perform the Work under this Agreement regardless of responsibility or negligence. Consultant hereby agrees to waive rights of subrogation which any insurer of Consultant may acquire from Consultant by virtue of the payment of any loss. Consultant agrees to obtain any endorsement that may be necessary to effect this waiver of subrogation. The Workers’ Compensation Policy shall be endorsed with a waiver of subrogation in the favor of the Authority for all work performed by Consultant, its employees, agents and sub-consultants.

6.3 Professional Liability (Errors and Omissions) - Consultant will file with the Authority, before beginning professional services, a certificate of insurance satisfactory to the Authority evidencing professional liability coverage.

6.3.1 Consultant shall maintain such coverage continuously for a period of at least five (5) years after the completion of contracted work.
AGREEMENT FOR SERVICES
BETWEEN SWEETWATER AUTHORITY
AND
DEVANEY PATE MORRIS & CAMERON

6.3.2 The retroactive date (if any) is to be no later than the effective date of this agreement. Consultant shall purchase a five-year extended reporting period i) if the retroactive date is advanced past the effective date of this Agreement; ii) if the policy is canceled or not renewed; or iii) if the policy is replaced by another claims-made policy with a retroactive date subsequent to the effective date of this Agreement.

6.4 Deductibles and Self-Insured Retentions - Insurance deductibles or self-insured retentions must be declared by Consultant, and such deductibles and retentions shall have the prior written consent from the Authority.

6.4.1 At the election of the Authority, Consultant shall either 1) reduce or eliminate such deductibles or self-insured retentions, or 2) procure a bond which guarantees payment of losses and related investigations, claims administration, and defense costs and expenses.

6.4.2 Policies containing any self-insured retention (SIR) provision shall provide or be endorsed to provide that the SIR may be satisfied by either the named or additional insureds, co-insurers, and/or insureds other than the First Named Insured.

6.5 Minimum Policy Limits Required - Consultant shall maintain limits no less than the following:

6.5.1 General Liability - Two million dollars ($2,000,000) per occurrence / Four million dollars ($4,000,000) aggregate or the full per occurrence limits of the policies available, whichever is greater for bodily injury, personal injury and property damage. If Commercial General Liability Insurance or other form with a general aggregate limit or products-completed operations aggregate limit is used, either the general aggregate limit shall apply separately to the project/location (with the ISO CG 2503, or ISO CG 2504, or insurer's equivalent endorsement provided to the Authority) or the general aggregate limit and products-completed operations aggregate limit shall be twice the required occurrence limit.

6.5.2 Automobile Liability - One million dollars ($1,000,000) for bodily injury and property damage each accident limit.

6.5.3 Excess Liability (if necessary) - The limits of Insurance required in this agreement may be satisfied by a combination of primary and umbrella or excess Insurance. Any umbrella or excess Insurance shall contain or be endorsed to contain a provision that such coverage shall also apply on a primary and non-contributory basis for the benefit of the Authority (if agreed to in a written contract or agreement) before the Authority's own primary or self Insurance shall be called upon to protect it as a named insured.

6.5.4 Workers Compensation and Employers Liability - One million dollars ($1,000,000) per occurrence.

6.5.5 Professional Liability - One million dollars ($1,000,000) per claim and $2,000,000 annual aggregate.

6.6 Acceptability of Insurers - Any insurance carrier providing insurance coverage required by the Contract Documents shall be admitted to and authorized to do business in the State of California and maintain an agent for process within the state, unless waived, in writing, by
the Authority Risk Manager. Carrier(s) shall have an A.M. Best rating of not less than an A-: VII or better.

6.7 Evidence Required - Prior to execution of the agreement, Consultant shall file with the Authority a certificate of insurance (Acord Form 25 or equivalent) signed by the insurer's representative evidencing the coverage required by this agreement.

6.7.1 Such evidence shall also include the following:

(a) Attached additional insured endorsements with primary & non-contributory wording for each policy

(b) Workers' Compensation waiver of subrogation

(c) A copy of the Commercial General Liability declarations or endorsement page listing all policy endorsements, and confirmation that coverage includes or has been modified to include Required Provisions above. The Authority reserves the right to obtain complete, certified copies of all required insurance policies, at any time.

6.8 Continuation of Coverage - Consultant shall, upon demand of the Authority deliver evidence of coverage showing continuation of coverage for not less than (5) years following the termination or completion of this Agreement. Consultant further waives all rights of subrogation under this agreement. When any of the required coverages expire during the term of this agreement, Consultant shall deliver the renewal certificate(s) including the general liability additional insured endorsement and evidence of waiver of rights of subrogation against the Authority to the Authority at least ten (10) days prior to the expiration date. Failure to continually satisfy the Insurance requirements is a material breach of contract.

6.9 Sub-Consultants - In the event that Consultant employs other consultants (sub-consultants) as part of the work covered by this agreement, it shall be Consultant’s responsibility to require and confirm that each sub-consultant meets the minimum insurance requirements specified above. Consultant shall, upon demand of the Authority, deliver to the Authority copies such policy or policies of insurance and the receipts for payment of premiums thereon.

6.10 The Authority reserves the right to modify these insurance requirements, including limits, based on the nature of the risk, prior experience, insurer, coverage or other circumstances.

7. Indemnification

7.1 To the fullest extent permitted by law, Consultant shall defend (with counsel of the Authority’s choosing), indemnify and hold the Authority, its officials, officers, employees, volunteers, and agents free and harmless from any and all claims, demands, causes of action, costs, expenses, liability, loss, damage or injury of any kind, in law or equity, to property or persons, including wrongful death, in any manner arising out of, pertaining to, or incident to any acts, errors or omissions, or willful misconduct of Consultant, its officials, officers, employees, subcontractors, consultants or agents in connection with the performance of Consultant's Services, the Project or this Agreement, including without limitation the payment of all damages, expert witness fees and attorneys’ fees and other related costs and expenses. Consultant’s obligation to indemnify shall not be restricted to insurance proceeds, if any, received by Consultant, the Authority, its officials, officers, employees, agents, or volunteers.
7.2 To the extent required by Civil Code section 2782.8, which is fully incorporated herein, Consultant's obligations under the above indemnity shall be limited to claims that arise out of, pertain to, or relate to the negligence, recklessness, or willful misconduct of Consultant, but shall not otherwise be reduced. If Consultant's obligations to defend, indemnify, and/or hold harmless arise out of Consultant's performance as a “design professional” (as that term is defined under Civil Code section 2782.8), then upon Consultant obtaining a final adjudication that liability under a claim is caused by the comparative active negligence or willful misconduct of the Authority, Consultant's obligations shall be reduced in proportion to the established comparative liability of the Authority and shall not exceed Consultant’s proportionate percentage of fault.

8. Termination or Abandonment

8.1 The Authority has the right to terminate or abandon any portion or all of the work under this Agreement by giving ten (10) calendar days written notice to Consultant. In such event, the Authority shall be immediately given title and possession to all original field notes, drawings and specifications, written reports, and other documents produced or developed for that portion of the work completed, and/or being abandoned. The Authority shall pay Consultant the reasonable value of services rendered for any portion of the work completed prior to termination. If said termination occurs prior to completion of any task for the Project for which a payment request has not been received, the charge for services performed during such task shall be the reasonable value of such services, based on an amount mutually agreed to by the Authority and Consultant of the portion of such task completed but not paid prior to said termination. The Authority shall not be liable for any costs other than the charges or portions thereof, which are specified herein. Consultant shall not be entitled to payment for unperformed services, and shall not be entitled to damages or compensation for termination of work.

8.2 Consultant may terminate its obligation to provide further services under this Agreement upon thirty (30) calendar days' written notice to the Authority only in the event of substantial failure by Authority to perform in accordance with the terms of this Agreement through no fault of Consultant.

9. Compliance With All Laws.

9.1 Consultant shall comply with all applicable laws, ordinances, codes, and regulations of the federal, state, and local government.

9.2 Consultant shall assist the Authority in obtaining and maintaining all permits required by federal, state, and local regulatory agencies.

9.3 Consultant is responsible for all costs of clean up and/or removal of hazardous and toxic substances spilled as a result of its services or operations performed under this Agreement.

10. Organization

Consultant shall assign Christina Cameron as the Project Manager and Lead Contact for services under this Agreement. The Project Manager/Lead Contact shall not be removed from the Project or reassigned without the prior written consent of the Authority.
11. Maintenance of Records

Books, documents, papers, accounting records, and other evidence pertaining to costs incurred shall be maintained by Consultant and made available at all reasonable times during the Agreement period and for four (4) years from the date of final payment under the Agreement for inspection by the Authority.

12. Intentionally omitted.

13. Assignment and Subconsultants

Consultant shall not assign, sublet, or transfer this Agreement or any rights under or interest in this Agreement without the written consent of the Authority, which may be withheld for any reason. Nothing contained herein shall prevent Consultant from employing independent associates, and subconsultants as Consultant may deem appropriate to assist in the performance of services hereunder.

14. Conflicts of Interest

Consultant shall identify all existing and past financial relationships (including consulting agreements) between Devaney Pate Morris & Cameron, LLP and members of the Authority’s Governing Board, and entities for which said members are employed, or have an interest, both past and present.

15. General Provisions

15.1 Independent Consultant. Consultant is retained as an independent consultant and is not an employee of Authority. No employee or agent of Consultant shall become an employee of the Authority. The work to be performed shall be in accordance with the work described in Exhibit “A,” subject to such directions and amendments from the Authority as herein provided.

15.2 Notice. All notices permitted or required under this Contract shall be given at the following address, or at such other address as the parties may provide in writing for this purpose:

Authority: SWEETWATER AUTHORITY
P.O. Box 2328
Chula Vista, CA 91912-2328
Attn: Jennifer Sabine

Consultant: Devaney Pate Morris & Cameron, LLP
402 W. Broadway, Suite 1300
San Diego, CA 92101
Attn: Christina Cameron

The parties may designate, in writing, other individuals to whom notice is to be given. Notices shall be deemed to be received upon personal delivery to the addresses above; if sent by overnight delivery, upon delivery as shown by delivery service records; if sent by facsimile, upon receipt as confirmed by the sending facsimile equipment; if by United States Postal Service, five days after deposit in the mail.

15.3 Severability. The unenforceability, invalidity or illegality of any provision(s) of this Agreement shall not render other provisions of this Agreement unenforceable, invalid or illegal.
15.4 Integration. This Agreement represents the entire understanding of the Authority and the Consultant as to those matters contained herein, and supersedes and cancels any prior oral or written understanding, promises, or representations with respect to those matters covered hereunder. This Agreement may not be modified or altered except in writing, signed by both parties hereto. This is an integrated Agreement.

15.5 Survival. All rights and obligations hereunder that by their nature are to continue after any expiration or termination of this Agreement, including, but not limited to, the indemnification obligations, shall survive any such expiration or termination.

15.6 Time is of the Essence. Time shall be of the essence as to all dates and times of performance contained in this Agreement.

15.7 Third Party Rights. Nothing in this Agreement shall be construed to give any rights or benefits to anyone other than the Authority and Consultant.

15.8 Disputes. If any disputes should arise between the Parties concerning the work to be done under this Agreement, the payments to be made, or the manner of accomplishment of the work, Consultant shall nevertheless proceed to perform the work as directed by the Authority pending settlement of the dispute.

15.9 Laws, Venue, and Attorneys’ Fees. This Agreement shall be interpreted in accordance with the laws of the State of California. If any action is brought to interpret or enforce any term of this Agreement, the action shall be brought in a state or federal court situated in the County of San Diego, State of California. In the event of any such litigation between the parties, the prevailing party shall be entitled to recover all reasonable costs incurred, including reasonable attorney’s fees, as determined by the court.

IN WITNESS WHEREOF, the parties have executed this Agreement as of the date first written above.

SWEETWATER AUTHORITY

By: ____________________________
Name: Steve Castaneda
Title: Chair, Board of Directors
Dated: __________________________

Devaney Pate Morris & Cameron, LLP

By: ____________________________
Name: __________________________
Title: __________________________
Dated: __________________________

Approved as to form:

_____________________________________
Paula C. P. de Sousa
Legal Counsel
SWEETWATER AUTHORITY

(Client Files/FIRM/1/K/S0601364.DOCX)
60026.00015/33108305.1 9
367
AGREEMENT FOR SERVICES
BETWEEN SWEETWATER AUTHORITY
AND
DEVANEY PATE MORRIS & CAMERON

EXHIBIT “A”

SCOPE OF WORK

As Needed Labor and Employment Legal Services as determined by the Sweetwater Authority Board of Directors.
AGREEMENT FOR SERVICES
BETWEEN SWEETWATER AUTHORITY
AND
DEVANEY PATE MORRIS & CAMERON

EXHIBIT “B”
SCHEDULE OF CHARGES

Services to be billed on a time and materials basis and in increments of one tenth of an hour as follows:

$260 blended rate (partners and associates)
AGREEMENT FOR SERVICES
BETWEEN SWEETWATER AUTHORITY
AND
DEVANEY PATE MORRIS & CAMERON

EXHIBIT “C”
ACTIVITY SCHEDULE

Both parties recognize that the services to be provided under this Agreement are on an as needed basis as determined by the Sweetwater Authority Board of Directors.
SWEETWATER AUTHORITY FINANCE AND PERSONNEL COMMITTEE
MINUTES OF THE REGULAR MEETING

July 15, 2020

The Finance and Personnel Committee of Sweetwater Authority held a Regular meeting on Wednesday, July 15, 2020. Pursuant to Governor Newsom’s Executive Order N-29-20 and 33-20, this meeting was held via teleconference. Chair Sotelo-Solis called the meeting to order at 4:33 p.m.

1. Call Meeting to Order and Roll Call
   Directors Present: José F. Cerda, Jose Preciado, and Alejandra Sotelo-Solis
   Directors Absent: None
   Management, Staff, and Others Present: General Manager Tish Berge and Assistant General Manager Jennifer Sabine. Staff Members: Director of Water Quality Justin Brazil, Administrative Assistant Michael Garcia, Director of Engineering Ron Mosher, Public Affairs Manager Leslie Payne, Director of Finance Rich Stevenson, and Director of Administrative Services Dina Yorba.

2. Items to be Added, Withdrawn, or Reordered in the Agenda
   Per General Manager Berge’s request, the Operations Committee concurred to move agenda item 4. B. before item 4. A.

3. Public Comment (Government Code Section 54954.3)
   There were none.

4. Action Agenda
   B. Strategic Plan Reporting – Year-end Detailed Work Plan Status Report (Information Item)
      There was no action required by the Committee.
   A. Consideration to Provide Hard Copies of Documents to Citizens Advisory Committee and Possible Revisions to Board Policies 522 - Citizens Advisory Committee and 608 – Mailed Notice of Meetings
      Upon a motion by Director Preciado, seconded by Director Cerda, the Finance and Personnel Committee recommends that the Governing Board direct staff to provide hard copies of Board agenda packets in a cost-effective manner to the Citizens Advisory Committee members and alternates upon their request for the next six months; and for staff to track the cost to produce hard copies of these documents and reported back to the Finance and Personnel Committee to evaluate whether revisions should be made to Board Policies 522 and 608. The motion carried unanimously.
5. **Directors’ Comments**
   Director Preciado commented that Caltrans has nearly completed a sound wall near his residence.
   
   Director Cerda thanked Director Sotelo-Solis for her leadership on the recent fire event on the U.S.S. Bonhomme Richard and expressed his concern for the missing person at Sweetwater Reservoir.
   
   Director Sotelo-Solis reported on the U.S.S. Bonhomme Richard that caught fire off the coast of National City on Sunday and created a plume of black smoke over the area. The City of National City issued a notification to residents to stay indoors to avoid any negative health effects from the smoke. In cooperation with regional leaders, the Port of San Diego took emergency action to allocate $200,000 to create an impact fund for immediate assistance to those impacted by the fire in zip codes 92113, 92102, 91950. Residents in these zip codes can register for a two-night stay at a hotel due to air quality conditions to be paid from the impact fund. The impact fund will also allow residents to purchase air purifiers for their homes.

6. **Next Meeting Date:** Wednesday, August 5, 2020 at 4:30 p.m.

7. **Adjournment**
   With no further business before the Committee, Director Sotelo-Solis adjourned the meeting at 5:27 p.m.
1. Call Meeting to Order and Roll Call

   Directors Present: Josie Calderon-Scott, Jerry Cano, and Hector Martinez

   Directors Absent: None

   Management, Staff, and Others Present: General Manager Tish Berge and Assistant General Manager Jennifer Sabine. Staff Members: Director of Water Quality Justin Brazil, Administrative Assistant Michael Garcia, Reservoir Operations Specialist Victor Gaus, Environmental Project Manager Israel Marquez, Director of Engineering Ron Mosher, Director of Distribution Greg Snyder, Director of Finance Rich Stevenson, Engineering Manager Mike Wallace, and Director of Administrative Services Dina Yorba.

2. Items to be Added, Withdrawn, or Reordered in the Agenda

   There were none.

3. Public Comment (Government Code Section 54954.3)

   There were none.

4. Action Agenda

   A. Consideration to Award a Time and Materials Contract for Professional Geotechnical Services

   Director Calderon-Scott made a motion, seconded by Director Martinez, that the Committee recommend the Governing Board award an On-call Time and Materials contract for professional geotechnical services to Ninyo & Moore, San Diego, CA for one year, with an option to renew for one additional year. The motion carried unanimously.

   B. Sweetwater and Loveland Fishing Programs – Operations pursuant to COVID-19 Pandemic

   Russell Walsh submitted written comments regarding the reopening of Authority’s Fishing Programs, which were read onto the record by the Board Secretary pursuant to the Authority’s established process for public comments.
Director Martinez made motion, seconded by Director Calderon-Scott, that the Committee recommend the Governing Board direct staff to prepare and implement a Safe Reopening Plan and implement measures in compliance with the applicable State COVID-19 Industry Guidance, for both of the Fishing Programs utilizing current resources (may result in a reduced level of service such as hours/days of operation). The motion carried unanimously.

C. Strategic Plan Reporting – Year-end Detailed Work Plan Status Report (Information Item)

There was no action required by the Committee.

D. Description of Criteria Recently Used for Evaluating Proposals (Item Requested by Director Martinez)

The Committee requested that this item be continued to a Special Committee meeting tentatively scheduled for July 29, subject to Legal Counsel availability.

5. Directors’ Comments

Director Cano thanked the General Manager for being proactive to provide services to the Community; these are uncertain times and he’s glad the Authority is moving forward to provide services to the ratepayers.

Director Calderon-Scott commented that she feels the Authority is making progress especially in light of the pandemic; she likes that the Authority is focusing on what we can do under the circumstances and that everyone is doing the right thing.

Director Martinez commented that he feels privileged to be working for a public agency providing an essential service to the community and it feels good.

6. Next Meeting Date: Wednesday, August 5, 2020 at 6:30 p.m.

7. Adjournment

With no further business before the Committee, Chair Martinez adjourned the meeting at 8:45 p.m.
The Communications Committee of Sweetwater Authority held a Regular meeting on Thursday, July 16, 2020. Pursuant to Governor Newsom’s Executive Order N-29-20 and 33-20, this meeting was held via teleconference. Chair Cerda called the meeting to order at 4:02 p.m.

1. **Call Meeting to Order and Roll Call**
   - Directors Present: Josie Calderon-Scott, José F. Cerda, and Alejandra Sotelo-Solis
   - Directors Absent: None
   - Management, Staff, and Others Present: General Manager Tish Berge. Staff Members: Administrative Assistant Michael Garcia and Public Affairs Manager Leslie Payne.

2. **Items to be Added, Withdrawn, or Reordered in the Agenda**
   - There were none.

3. **Public Comment** (Government Code Section 54954.3)
   - There were none.

4. **Action Agenda**
   - Consideration of Communications/Outreach Consulting Services

   **Upon a motion made by Director Sotelo-Solis, seconded by Director Cerda,** the Communications Committee recommends that the Governing Board move $15,000 Expense Contingency to the Communications Outreach Budget for the following services and re-evaluate the use of on-call communication outreach/assistance after consideration of results from the customer survey.

   1. Translation services in the amount of $5,000 to be procured through a Request for Quotes (RFQ); and
   2. On-call Communications/Outreach Assistance in the amount of $10,000 to be procured through a Request for Proposals (RFP).

   The motion carried unanimously.

5. **Directors’ Comments**
   - Director Sotelo-Solis shared information about the USS Bonhomme Richard burning and that on day five, the fire was stopped; and thanked partners and those who helped share information about the resources available to National City residents.

   - Director Cerda thanked Mayor Sotelo-Solis for her leadership; and shared information about his division and vision for connecting the residents to the Authority through use of bilingual materials.
6. **Next Meeting Date:** Monday, September 14, 2020 at 4:00 p.m.

7. **Adjournment**

   With no further business before the Committee, Chair Cerda adjourned the meeting at 5:04 p.m.
## Accounts Payable by G/L Distribution Report

**Vendor Type:** Professional/Consulting Services  
**Year-to-date for the period ending 6/30/20**

*Legal services are not included due to potential confidential nature of the description.*

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<th>Vendor Name</th>
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<th>G/L Date</th>
<th>Invoice Description</th>
<th>Project Description</th>
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* Legal services are not included due to potential confidential nature of the description.

Enterprise Automation, Inc. Total 1,514,118.37
### Accounts Payable by G/L Distribution Report

Vendor: Professional/Consulting Services  
Year-to-date for the period ending 6/30/20

*Legal services are not included due to potential confidential nature of the description.*

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* Legal services are not included due to potential confidential nature of the description.*
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 | | 04/27/2020 | Biological monitoring - Desal Facility Expansion | - | 4,515.00
 | | 06/30/2020 | RAR Desalination Facility Expansion - Biologic | - | 8,428.27
Merkel & Associates, Inc. | 10-80-895-5113 - Materials & Services Operating | 11/30/2019 | Biological Monitoring | 20168005 - HRP - IRWM Project Mgmt. (Task 1) | 605.00
 | 10-80-895-5650 - Consulting Services | 11/30/2019 | Biological Monitoring | 20148014 - SW Reservoir Habitat Management Program (HMP) | 2,400.00

Ninyo & Moore | 10-50-500-5424 - Materials & Services Maintenance | 09/20/2019 | Geotechnical Observation and Testing Services | - | 1,534.89
 | | 05/31/2020 | Time & Materials Soil Testing for FY 2019-20 | - | 796.69
 | | 08/21/2019 | Geotechnical Observation and Testing Services | 20184017 - Bonita Rd; Intersections of Lynwood Drive | 3,878.19
 | 10-90-900-0000 - Construction in Progress | 09/20/2019 | Geotechnical Observation and Testing Services | 20194014 - Bonita Glen Ter & Glen Verde Dr, fr Golf Glen Rd to Dawsonia, BN | 4,051.32
 | | 09/30/2019 | Time & Materials Soils Testing 2019-20 | 20158005 - OD Arnold Fire Flow Pump Station | 2,470.18
 | | 09/30/2019 | Time & Materials Soils Testing 2019-20 | 20184016 - Bonita Rd; Flower St to I-805 | 9,332.21
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 | | 09/30/2019 | Time & Materials Soils Testing 2019-20 | 20194014 - Bonita Glen Ter & Glen Verde Dr, fr Golf Glen Rd to Dawsonia, BN | 4,132.05
 | | 11/22/2019 | Time & Materials Soil Testing for FY 2019-20 | 20184016 - Bonita Rd; Flower St to I-805 | 2,137.15
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 | | 11/30/2019 | Time & Materials Soil Testing for FY 2019-20 | 20184016 - Bonita Rd; Flower St to I-805 | 9,449.20
 | | 11/30/2019 | Time & Materials Soil Testing for FY 2019-20 | 20205002 - L St, First to Second Ave, CV | 7,511.88
 | | 12/31/2019 | Geotechnical Evaluation | 20014016 - Central Wheeler Tank Construction & System Improvements | 11,066.59
 | | 01/17/2020 | Determine requirements for sediment evaluation | 20204013 - Urban Runoff Diversion System Fac | 1,492.15
 | | 02/24/2020 | Time & Materials Soil Testing for FY 2019-20 | 20134008 - 36-in Transmission Main Replacement | 8,299.03
 | | 02/24/2020 | Time & Materials Soil Testing for FY 2019-20 | 20204002 - Paving - L St, First to Second Ave, CV | 3,027.69
 | | 02/24/2020 | Time & Materials Soil Testing for FY 2019-20 | 20204013 - Urban Runoff Diversion System Fac | 939.68
 | | 02/29/2020 | Geotechnical Observation & Testing Services | 20204013 - Urban Runoff Diversion System Fac | 1,571.43
 | | 03/23/2020 | Time & Materials Soil Testing for FY 2019-20 | 20134008 - 36-in Transmission Main Replacement | 21,484.82
 | | 04/20/2020 | Time & Materials Soil Testing for FY 2019-20 | 20204016 - Avenida San Miguel, 400 LF west to Mayo | 2,449.74
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 | | 04/20/2020 | Time & Materials Soil Testing for FY 2019-20 | L7431 - Ridgeway Apartments | 2,826.45
 | | 04/30/2020 | Time & Materials Soil Testing for FY 2019-20 | 20188003 - Distribution Remote Terminal Unit | 1,789.07
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 | | 05/31/2020 | Time & Materials Soil Testing for FY 2019-20 | 20134008 - 36-in Transmission Main Replacement | 15,474.80
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* Legal services are not included due to potential confidential nature of the description.
**Vendor Type:** Professional/Consulting Services  
**Year-to-date for the period ending 6/30/20**

*Legal services are not included due to potential confidential nature of the description.*

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### Accounts Payable by G/L Distribution Report

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**Year-to-date for the period ending 6/30/20**

*Legal services are not included due to potential confidential nature of the description.*

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<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Total Compensation Systems, Inc. Total</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3,420.00</td>
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<tr>
<td>Transamerican Mailing &amp; Fulfillment, Inc.</td>
<td>10-10-120-5626 - Printing</td>
<td>01/17/2020</td>
<td>Postage for Flushing Notification</td>
<td>-</td>
<td>1,473.92</td>
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<tr>
<td></td>
<td></td>
<td>02/24/2020</td>
<td>Flushing Letter 2 - Data &amp; mailing</td>
<td>-</td>
<td>2,656.22</td>
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<tr>
<td></td>
<td></td>
<td>05/18/2020</td>
<td>Postage Request 59,000 Pieces</td>
<td>-</td>
<td>10,502.00</td>
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<tr>
<td></td>
<td></td>
<td>06/30/2020</td>
<td>2020 WQ Report Postcard Mailing</td>
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<td>6,751.57</td>
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<td>Transamerican Mailing &amp; Fulfillment, Inc. Total</td>
<td></td>
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<td>21,383.71</td>
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<td>United States Geological Survey</td>
<td>10-40-400-5114 - Hydrological Monitoring</td>
<td>11/30/2019</td>
<td>Hydrological Monitoring</td>
<td>-</td>
<td>64,916.67</td>
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<td></td>
<td></td>
<td>01/24/2020</td>
<td>Monitoring Stream Gauges on SWA River and related work</td>
<td>-</td>
<td>52,112.50</td>
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<tr>
<td></td>
<td></td>
<td>04/27/2020</td>
<td>Monitoring Stream Gauges on the SWA River</td>
<td>-</td>
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<tr>
<td></td>
<td></td>
<td>10-00-900-9000 - Construction in Progress</td>
<td>08/31/2019</td>
<td>Investigation of the San Diego Formation</td>
<td>20054016 - Study of San Diego Formation Aquifer</td>
</tr>
<tr>
<td></td>
<td></td>
<td>03/31/2020</td>
<td>Investigation of the San Diego Formations</td>
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<td>84,606.15</td>
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<tr>
<td>United States Geological Survey Total</td>
<td></td>
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<td>361,219.87</td>
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<tr>
<td>V&amp;A Consulting Engineers, Inc.</td>
<td>10-40-400-5650 - Consulting Services</td>
<td>08/30/2019</td>
<td>On-Call Cathodic Protection Services</td>
<td>-</td>
<td>8,306.00</td>
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<tr>
<td>V&amp;A Consulting Engineers, Inc. Total</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>8,306.00</td>
</tr>
<tr>
<td>Water Systems Optimization, Inc.</td>
<td>10-30-350-5650 - Consulting Services</td>
<td>10/25/2019</td>
<td>Water Loss Audit level 1 validation</td>
<td>-</td>
<td>2,500.00</td>
</tr>
<tr>
<td>Water Systems Optimization, Inc. Total</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2,500.00</td>
</tr>
<tr>
<td>William Ray Consulting, LLC</td>
<td>10-80-800-5342 - Materials &amp; Services Laboratory</td>
<td>11/22/2019</td>
<td>Implementation of the NELAC Institute Standards</td>
<td>-</td>
<td>688.84</td>
</tr>
<tr>
<td></td>
<td></td>
<td>04/30/2020</td>
<td>Implementation of the NELAC Institute Standards</td>
<td>-</td>
<td>1,680.00</td>
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<tr>
<td></td>
<td></td>
<td>06/30/2020</td>
<td>Implementation of the NELAC Institute Standards</td>
<td>-</td>
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<tr>
<td>William Ray Consulting, LLC Total</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2,928.84</td>
</tr>
<tr>
<td>Wood Environment &amp; Infrastructure Solutions, Inc.</td>
<td>10-80-895-5650 - Consulting Services</td>
<td>07/31/2019</td>
<td>On-Call Nesting Bird Clearance Survey Support</td>
<td>-</td>
<td>2,112.50</td>
</tr>
</tbody>
</table>

*Page 9 of 10*
Vendor Type: Professional/Consulting Services

Year-to-date for the period ending 6/30/20

* Legal services are not included due to potential confidential nature of the description.

<table>
<thead>
<tr>
<th>Vendor Name</th>
<th>G/L Account</th>
<th>G/L Date</th>
<th>Invoice Description</th>
<th>Project</th>
<th>Transaction Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wood Environment &amp; Infrastructure Solutions, Inc.</td>
<td>10-80-895-5650 - Consulting Services</td>
<td>09/30/2019</td>
<td>Revegetation Monitoring - Acacia Ave to Starr Tank</td>
<td>-</td>
<td>881.86</td>
</tr>
<tr>
<td></td>
<td></td>
<td>09/30/2019</td>
<td>Revegetation Monitoring - Vista Coronado Dr.</td>
<td>-</td>
<td>872.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td>12/31/2019</td>
<td>Revegetation Monitoring Acacia Ave to Starr Tank</td>
<td>-</td>
<td>502.50</td>
</tr>
<tr>
<td></td>
<td></td>
<td>12/31/2019</td>
<td>Revegetation Monitoring Vista Coronado Dr.</td>
<td>-</td>
<td>555.86</td>
</tr>
<tr>
<td></td>
<td></td>
<td>04/20/2020</td>
<td>Revegetation Monitoring Acacia Ave to Starr Tank</td>
<td>-</td>
<td>54.20</td>
</tr>
<tr>
<td></td>
<td></td>
<td>06/30/2020</td>
<td>Professional Services - through 04-24-20 - Arroyo</td>
<td>-</td>
<td>744.00</td>
</tr>
<tr>
<td></td>
<td>10-90-900-9000 - Construction in Progress</td>
<td>01/31/2020</td>
<td>Biological Resources Support - URDS Maintenance</td>
<td>20204013 - Urban Runoff Diversion System Fac</td>
<td>6,882.14</td>
</tr>
<tr>
<td></td>
<td></td>
<td>04/20/2020</td>
<td>Biological Resources Support - URDS Maintenance</td>
<td>20204013 - Urban Runoff Diversion System Fac</td>
<td>2,301.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td>05/31/2020</td>
<td>Biological Resources Support - 36-in Transmission Main Replacement</td>
<td>20134008 - 36-in Transmission Main Replacement</td>
<td>9,120.70</td>
</tr>
<tr>
<td>Wood Environment &amp; Infrastructure Solutions, Inc. Total</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>24,026.76</td>
</tr>
<tr>
<td>Grand Total</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3,617,639.68</td>
</tr>
</tbody>
</table>
July 22, 2020

Quarterly Performance Measurement Report  
(Reporting for FY 2020 Q4– April 1, 2020 through June 30, 2020)
This report provides quarterly data on the performance measures identified on page 17 of the Strategic Plan.
### TREATMENT PLANT WATER QUALITY

**Chlorine and Turbidity (WQ Objective 1)**

#### CHLORINE - % of Samples within Goal

<table>
<thead>
<tr>
<th></th>
<th>FY2020 Q1</th>
<th>FY2020 Q2</th>
<th>FY2020 Q3</th>
<th>FY2020 Q4</th>
</tr>
</thead>
<tbody>
<tr>
<td>SWA Goal</td>
<td>84%</td>
<td>56%</td>
<td>80%</td>
<td>62%</td>
</tr>
<tr>
<td>DDW Req.</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
</tr>
</tbody>
</table>

SWA Goal is between 2.0 mg/L and 4.0 mg/L
DDW Requirement is greater than 0.2 mg/L

#### TURBIDITY - % of Samples within Goal

<table>
<thead>
<tr>
<th></th>
<th>FY2020 Q1</th>
<th>FY2020 Q2</th>
<th>FY2020 Q3</th>
<th>FY2020 Q4</th>
</tr>
</thead>
<tbody>
<tr>
<td>SWA Goal</td>
<td>94%</td>
<td>92%</td>
<td>99%</td>
<td>99%</td>
</tr>
<tr>
<td>DDW Req.</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
</tr>
</tbody>
</table>

SWA Goal is < 0.1 NTU
DDW Requirement is < 0.3 NTU

Note: All water leaving the treatment facility is in compliance with DDW requirements for chlorine residual.

### DISTRIBUTION SYSTEM WATER QUALITY

**Chlorine (WQ Objective 1)**

<table>
<thead>
<tr>
<th></th>
<th>FY2020 Q1</th>
<th>FY2020 Q2</th>
<th>FY2020 Q3</th>
<th>FY2020 Q4</th>
</tr>
</thead>
<tbody>
<tr>
<td>SWA Goal</td>
<td>97%</td>
<td>80%</td>
<td>92%</td>
<td>94%</td>
</tr>
<tr>
<td>DDW Req.</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
</tr>
</tbody>
</table>

SWA Goal is between 1.5 mg/L and 4.0 mg/L
DDW Requirement is between 0.2 mg/L and 4.0 mg/L

Note: All chlorine residuals measured in the distribution system are in compliance with DDW requirements.

### TASTE AND ODOR COMPLAINTS

(WQ Objective 1)

<table>
<thead>
<tr>
<th></th>
<th>No. of Complaints</th>
<th>AF of Water Sold</th>
<th>Complaints per TAF*</th>
<th>Benchmark Met?</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY2020 Q1</td>
<td>9</td>
<td>4,542</td>
<td>2.0</td>
<td>NO</td>
</tr>
<tr>
<td>FY2020 Q2</td>
<td>2</td>
<td>4,451</td>
<td>0.4</td>
<td>YES</td>
</tr>
<tr>
<td>FY2020 Q3</td>
<td>3</td>
<td>3,356</td>
<td>0.9</td>
<td>YES</td>
</tr>
<tr>
<td>FY2020 Q4</td>
<td>3</td>
<td>3,832</td>
<td>0.8</td>
<td>YES</td>
</tr>
<tr>
<td>TOTAL</td>
<td>17</td>
<td>16,182</td>
<td>1.1</td>
<td>YES</td>
</tr>
</tbody>
</table>

Note: At January 8, 2020 Board meeting, the Board voted to adjust the benchmark from fewer than 3.5 complaints/AF water sold to 2.0 complaints/AF water sold.

Note: * TAF = Thousand Acre-feet
The Authority's goal is to minimize taste and odor events to less than 2.0 customer complaints per 1,000 acre-feet of water sold.

### PUBLIC HEALTH NOTIFICATIONS

<table>
<thead>
<tr>
<th></th>
<th>FY2020 Q1</th>
<th>FY2020 Q2</th>
<th>FY2020 Q3</th>
<th>FY2020 Q4</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Public Health Notifications are issued when a public health advisory is required by the State Water Resources Board Division of Drinking Water. SWA strives to achieve zero public notifications.
### System and Water Supply Reliability

#### INFRASTRUCTURE INTEGRITY

<table>
<thead>
<tr>
<th>MAIN LEAKS</th>
<th>SERVICE LEAKS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Copper/Steel</strong></td>
<td><strong>FY2020</strong></td>
</tr>
<tr>
<td><strong>AC Pipe</strong></td>
<td><strong>FY2020</strong></td>
</tr>
<tr>
<td><strong>PVC</strong></td>
<td><strong>FY2020</strong></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>FY2020</strong></td>
</tr>
<tr>
<td><strong>FY2020 Q4</strong></td>
<td>1</td>
</tr>
<tr>
<td><strong>July 1, 2019-June 30, 2020</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>July 1, 2018 - June 30, 2019</strong></td>
<td>1</td>
</tr>
</tbody>
</table>

#### ADEQUATE PRESSURE UNDER FIREFLOW CONDITIONS

As reported by the Fire Departments of the City of Chula Vista, the City of National City and the Bonita-Sunnyside Fire Protection District did not respond to the request for information. The only fire event noted below was known by staff due to a fire hydrant complaint received by the City of Chula Vista Fire Department (CVFD) on 5/19/2020. See note on following page.

**Analysis:**

**Planned water outages:** 7 planned water outages affecting 79 services for a total of 46 hours. Each outage averaged approximately 7 hours in order to perform maintenance and construction activities on the distribution system. All customers were notified a minimum of 48 hours in advance.

**Unplanned water outages:** 2 unplanned water outages affecting 36 services. When possible, all customers were notified a minimum of one hour in advance.
**Financial Viability**

(Reported on an annual basis)

**Sweetwater’s Bond Rating**

**Standard & Poor’s**

AA

(Rating reaffirmed November 2017)

What the ratings mean

Measure the likelihood that a company will default on its debt obligations (bonds)

<table>
<thead>
<tr>
<th>Investment-grade</th>
<th>Moody's</th>
<th>S&amp;P</th>
</tr>
</thead>
<tbody>
<tr>
<td>Highest quality</td>
<td>Aaa</td>
<td>AAA</td>
</tr>
<tr>
<td>High</td>
<td>A</td>
<td>AA</td>
</tr>
<tr>
<td>Upper</td>
<td>A</td>
<td>A</td>
</tr>
<tr>
<td>Medium</td>
<td>Baa</td>
<td>BBB</td>
</tr>
</tbody>
</table>

**Strengths:**

Stable, primarily residential, and diverse customer base
Diverse and affordable water supply portfolio
Strong liquidity and operational management

**Challenges:**

Rate increases to maintain pace with imported water costs increases and fluctuation in revenues and water purchase costs affected by drought conditions.

**Balanced Budget**

FY 2019-20 Operating and Capital - $77,599,400

- Debt Payment: 5%
- Water Purchase: 13%
- Capital (PAYGO): 35%
- Salaries: 17%
- General Operating: 11%
- Benefits: 14%
- Power, Chemicals & Fuel: 5%

**Revenue & Other Funds**

FY 2019-20 Revenues & Other Funds - $77,599,400

- Water Sales: 74%
- Other Non-water Revenue: 6%
- Reserve Transfers: 20%

**Revenue & Other Funds**

- 2019-20 Operating and Capital: $77,599,400
- 2019-20 Revenue & Other Funds: $77,599,400

Operating Fund

- FY 18-19: 14.2
- FY 19-20: 19.1
- FY 20-21: 10.8
- FY 21-22: 9.2
- FY 22-23: 10.3
- FY 23-24: 11.0

2 Months Operating Reserves Target

- FY 18-19: 14.2
- FY 19-20: 19.1
- FY 20-21: 10.8
- FY 21-22: 9.2
- FY 22-23: 10.3
- FY 23-24: 11.0

**Nonrevenue Water as % of Water Supplied**

- FY 2015: 4.7%
- FY 2016: 5.0%
- FY 2017: 6.7%
- FY 2018: 4.0%
- FY 2019: 1.3%

**Infrastructure Leakage Index**

- FY 2015: 1.01
- FY 2016: 0.94
- FY 2017: 1.47
- FY 2018: 0.66
- FY 2019: -0.22

**Infrastructure Leakage Index** is the ratio of the real losses to the unavoidable real losses (the low limit of leakage that could be achieved if all of today’s best technology could be successfully applied). The negative value is indicative of water loss data anomalies first noted in 2018. The Authority contracted for technical assistance and currently evaluated options to address the issue. Data anomalies are most likely due to underreporting of the Perdue master meter during periods of low flow.

Water Loss Indicators for the FY2019 were validated by a third party auditor pursuant to State regulations.
# Customer Service

## CUSTOMER CONTACT

<table>
<thead>
<tr>
<th></th>
<th>FY 2020 Q3</th>
<th>FY 2020 Q4</th>
<th>FY 2020 YTD</th>
<th>3 year Avg.YTD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Walk-in Assists (non-payment)</td>
<td>458</td>
<td>83</td>
<td>1,588</td>
<td>2,062</td>
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<tr>
<td>Phone Calls</td>
<td>7,337</td>
<td>4,726</td>
<td>28,746</td>
<td>34,249</td>
</tr>
<tr>
<td>Account Status (close, open, etc.)</td>
<td>1,176</td>
<td>1,118</td>
<td>4,938</td>
<td>5,411</td>
</tr>
<tr>
<td>Payment Extensions</td>
<td>1,962</td>
<td>8</td>
<td>7,768</td>
<td>10,201</td>
</tr>
<tr>
<td>Water Efficiency Site Visits</td>
<td>6</td>
<td>8</td>
<td>49</td>
<td>53</td>
</tr>
<tr>
<td>High Bill Investigations</td>
<td>66</td>
<td>73</td>
<td>353</td>
<td>329</td>
</tr>
<tr>
<td>Customer Repair Requests</td>
<td>416</td>
<td>416</td>
<td>1,763</td>
<td>1,662</td>
</tr>
<tr>
<td>Meter Maintenance</td>
<td>629</td>
<td>443</td>
<td>2,144</td>
<td>1,730</td>
</tr>
<tr>
<td>Meter Replacements</td>
<td>666</td>
<td>368</td>
<td>1,601</td>
<td>1,257</td>
</tr>
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</table>

## CUSTOMER PAYMENTS

<table>
<thead>
<tr>
<th></th>
<th>FY 2020 Q3</th>
<th>FY 2020 Q4</th>
<th>FY 2020 YTD</th>
<th>3 year Avg.YTD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Walk-in Transactions</td>
<td>7,172</td>
<td>1,550</td>
<td>25,763</td>
<td>37,618</td>
</tr>
<tr>
<td>Mail Transactions</td>
<td>13,133</td>
<td>13,900</td>
<td>53,943</td>
<td>56,551</td>
</tr>
<tr>
<td>Online Transactions</td>
<td>30,318</td>
<td>32,985</td>
<td>126,059</td>
<td>113,757</td>
</tr>
<tr>
<td>Cash</td>
<td>3%</td>
<td>0%</td>
<td>3%</td>
<td>4%</td>
</tr>
<tr>
<td>Checks</td>
<td>53%</td>
<td>51%</td>
<td>53%</td>
<td>57%</td>
</tr>
<tr>
<td>Electronic Checks</td>
<td>23%</td>
<td>27%</td>
<td>24%</td>
<td>21%</td>
</tr>
<tr>
<td>Credit Cards</td>
<td>21%</td>
<td>22%</td>
<td>20%</td>
<td>18%</td>
</tr>
<tr>
<td>Accounts Shut-off for Delinquency</td>
<td>241</td>
<td>0</td>
<td>1,156</td>
<td>2,476</td>
</tr>
<tr>
<td>Written off as Bad Debt</td>
<td>$21,863</td>
<td>$24,802</td>
<td>$99,926</td>
<td>$120,457</td>
</tr>
</tbody>
</table>

## BILLING

### Billing Accuracy Rate:

<table>
<thead>
<tr>
<th></th>
<th>SWA</th>
<th>Benchmark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adjustments per 10,000 Bills</td>
<td>3.3</td>
<td>3.3</td>
</tr>
<tr>
<td>Top</td>
<td>1.8</td>
<td>1.8</td>
</tr>
<tr>
<td>Median</td>
<td>9.8</td>
<td>9.8</td>
</tr>
<tr>
<td>Bottom</td>
<td>17.7</td>
<td>17.7</td>
</tr>
</tbody>
</table>

Source: AWWA 2019 Utility Benchmarking Survey (September 2019)

## ANALYSIS/FUTURE ACTIONS

In February of 2020 we implemented the changes set forth by SB-998 which lowered our delinquent numbers in March of 2020.

On March 16, 2020 the lobby was closed to the public which correlates with the increase of payments made through PayNearMe, as illustrated below. The Lobby reopened on June 8, 2020.

PayNearMe, was implemented December 2017 and allows customers to make cash payments at 7-Eleven and CVS stores. The following are participation numbers:

- PayNearMe Payments in recent months:
  - April 489
  - May 638
  - June 419
## Workforce Development

### CERTIFICATIONS

100% Compliance with Minimum Certification Requirements

### Professional Certifications Currently Held

- Backflow Prevention Assembly Tester: 3
- Certification in Public Information: 2
- Certified Construction Manager: 1
- Certified GIS Professional: 1
- Certified I.S. Security Professional: 2
- Certified Occupational Safety Specialist: 1
- Certified Occupational Safety Manager: 1
- Cross-Connection Control Specialist: 5
- Environmental Health Specialist: 1
- Land Surveyor: 1
- Landscape Irrigation Auditor/Professional: 1
- Native Endangered & Threatened Species: 1
- Notary Public: 1
- Pesticide Qualified Applicator: 8
- Professional Engineer - Chemical: 1
- Professional Engineer - Civil: 5
- Professional Engineer - Control System: 1
- Qualified Stormwater Developer/Practitioner: 3
- Special District Administrator: 1
- Remote Pilot: 3
- Water Distribution Operator: 68
- Water Treatment Operator: 35
- Water Use Efficiency Practitioner: 2

### TRAINING

#### Training Hours (Quarterly)

<table>
<thead>
<tr>
<th></th>
<th>FY2020 Q1</th>
<th>FY2020 Q2</th>
<th>FY2020 Q3</th>
<th>FY2020 Q4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours</td>
<td>1,416</td>
<td>1,248</td>
<td>828</td>
<td>576</td>
</tr>
</tbody>
</table>

#### Average Hours of Training per Employee

<table>
<thead>
<tr>
<th></th>
<th>FY2020 Q1</th>
<th>FY2020 Q2</th>
<th>FY2020 Q3</th>
<th>FY2020 Q4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours</td>
<td>5.5</td>
<td>11.1</td>
<td>6.5</td>
<td>4.5</td>
</tr>
</tbody>
</table>

*"Training Hours" represent all recorded training activities. Monthly status reports may not include sessions from the last week of the month due to data entry lag.*

### ACCIDENT/INJURY RATE

As measured by incidents presented to the Safety Committee

<table>
<thead>
<tr>
<th></th>
<th>FY2020 Q1</th>
<th>FY2020 Q2</th>
<th>FY2020 Q3</th>
<th>FY2020 Q4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours</td>
<td>1,416</td>
<td>1,248</td>
<td>828</td>
<td>576</td>
</tr>
</tbody>
</table>

#### Injuries to SWA employees

#### Property damage from SWA actions

#### All Other includes near misses & informational reports

Third party claims tracking added in 2017

---

MET
Administrative Effectiveness

IMPLEMENTATION OF STRATEGIC PLAN

98% on Target
As of June 30, 2020, 98% of the objectives were on target. There were some delays, primarily related to COVID-19 as presented to the Board in the Strategic Plan Work Plan Status Report on July 22, 2020.

ORGANIZATIONAL BEST PRACTICES
This metric summarizes the integration of 13 specific utility management practices including strategic planning and implementation, long-term financial planning, risk management planning, performance measurement, succession planning, asset management, customer involvement, government transparency and accountability, drought response and source water protection.

<table>
<thead>
<tr>
<th></th>
<th>SWA</th>
<th>Benchmark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Organizational</td>
<td>92.30%</td>
<td>Top Quartile 83.10%</td>
</tr>
<tr>
<td>Best Practices</td>
<td></td>
<td>Median 75.40%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Bottom Quartile 69.20%</td>
</tr>
</tbody>
</table>

Source: AWWA 2019 Utility Benchmarking Survey, September 2019

STAFFING EFFICIENCY

No. of Employees (Full Time Equivalents)

Water Sold (AF) per Employee

KEY DATES

FY2020-21 Work Plan Adopted
June 24, 2020

Next Quarterly Performance Report
October 28, 2020

Next Semi-Annual Detailed Workplan Status Report
January 27, 2021
# Environmental Stewardship

## Triple Bottom Line (TBL)

<table>
<thead>
<tr>
<th></th>
<th>SWA</th>
<th>Benchmark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triple</td>
<td>85%</td>
<td></td>
</tr>
<tr>
<td>Bottom Line</td>
<td>80%</td>
<td>Median 58%</td>
</tr>
<tr>
<td>Index</td>
<td>Bottom Quartile</td>
<td>41%</td>
</tr>
</tbody>
</table>

The TBL framework represents a balanced view of environmental, social, and economic considerations and is expressed as a percentage.

Source: 2019 AWWA Benchmarking Survey, September 2019

## Resource Usage

### Energy Use (KWh):

<table>
<thead>
<tr>
<th></th>
<th>FY2020</th>
<th>FY2020</th>
<th>FY2020</th>
<th>FY2020</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Q1</td>
<td>Q2</td>
<td>Q3</td>
<td>Q4*</td>
</tr>
<tr>
<td>Desalination</td>
<td>1,756,345</td>
<td>1,020,740</td>
<td>1,580,570</td>
<td>939,100</td>
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<tr>
<td>Perdue Plant</td>
<td>686,117</td>
<td>698,157</td>
<td>675,128</td>
<td>197,182</td>
</tr>
<tr>
<td>Operations Center</td>
<td>37,172</td>
<td>32,737</td>
<td>31,168</td>
<td>19,193</td>
</tr>
<tr>
<td>Bonita Valley Res</td>
<td>5,636</td>
<td>5,631</td>
<td>5,144</td>
<td>2,715</td>
</tr>
<tr>
<td>NC Wells</td>
<td>219,173</td>
<td>171,689</td>
<td>213,991</td>
<td>164,025</td>
</tr>
<tr>
<td>O.D. Arnold</td>
<td>4,353</td>
<td>5,769</td>
<td>7,701</td>
<td>8,712</td>
</tr>
<tr>
<td>Administration</td>
<td>42,726</td>
<td>39,375</td>
<td>33,228</td>
<td>18,340</td>
</tr>
<tr>
<td>All Other</td>
<td>334,095</td>
<td>509,061</td>
<td>425,959</td>
<td>398,790</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>3,085,617</td>
<td>2,483,159</td>
<td>2,972,889</td>
<td>1,748,057</td>
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*Not all invoices received by reporting date

### Water Use (HCF):

<table>
<thead>
<tr>
<th></th>
<th>FY2020</th>
<th>FY2020</th>
<th>FY2020</th>
<th>FY2020</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Q1</td>
<td>Q2</td>
<td>Q3</td>
<td>Q4</td>
</tr>
<tr>
<td>Desalination</td>
<td>17</td>
<td>12</td>
<td>5</td>
<td>9</td>
</tr>
<tr>
<td>Administration</td>
<td>203</td>
<td>172</td>
<td>107</td>
<td>387</td>
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<tr>
<td>Operations Yard</td>
<td>115</td>
<td>121</td>
<td>43</td>
<td>118</td>
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<tr>
<td>Perdue Landscape</td>
<td>9</td>
<td>9</td>
<td>0</td>
<td>4</td>
</tr>
<tr>
<td>Pump &amp; Tank Sites</td>
<td>542</td>
<td>524</td>
<td>61</td>
<td>320</td>
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</table>

## Water Efficiency Incentive Rebates

### Devices Rebated/Applications Processed

<table>
<thead>
<tr>
<th></th>
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<th>FY2020</th>
<th>FY2020</th>
<th>FY2020</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Q1</td>
<td>Q2</td>
<td>Q3</td>
<td>Q4</td>
</tr>
<tr>
<td>SoCal WaterSmart</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HE Clothes Washers</td>
<td>8/8</td>
<td>10/10</td>
<td>10/10</td>
<td>4/4</td>
</tr>
<tr>
<td>HE Toilets</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Rotating Nozzles</td>
<td>37/1</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Irrigation Controllers</td>
<td>9</td>
<td>4</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Soil Sensors</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Rain Barrels</td>
<td>0</td>
<td>2</td>
<td>2/8</td>
<td>4</td>
</tr>
<tr>
<td>LTP Applications</td>
<td>5</td>
<td>3</td>
<td>3</td>
<td>0</td>
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<tr>
<td>SWA Managed</td>
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<td></td>
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<tr>
<td>Greywater Retrofits</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Leak Detectors</td>
<td>0</td>
<td>5</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Rain Sensors</td>
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<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Leak Week rebates</td>
<td>0</td>
<td>0</td>
<td>6</td>
<td>8</td>
</tr>
<tr>
<td>Car Washes</td>
<td>15</td>
<td>26</td>
<td>6</td>
<td>18</td>
</tr>
<tr>
<td>STEP‐WEEP Grants</td>
<td>1</td>
<td>2</td>
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## Waste Reduction and Management

### Manifested Waste:

<table>
<thead>
<tr>
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<th>FY2020</th>
<th>FY2020</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Q4</td>
<td>FY2020</td>
<td>FY2019</td>
<td></td>
</tr>
<tr>
<td>Asbestos (lbs)</td>
<td>0</td>
<td>80</td>
<td>230</td>
<td>192</td>
</tr>
<tr>
<td>Batteries (lbs)</td>
<td>125</td>
<td>0</td>
<td>435</td>
<td>604</td>
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<tr>
<td>Ink Cartridges (lbs)</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Light Bulbs (lbs)</td>
<td>0</td>
<td>0</td>
<td>242</td>
<td>164</td>
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<tr>
<td>Oil (gal)</td>
<td>50</td>
<td>0</td>
<td>63</td>
<td>280</td>
</tr>
<tr>
<td>Paint (lbs)</td>
<td>31</td>
<td>0</td>
<td>163</td>
<td>215</td>
</tr>
<tr>
<td>Tires (ea)</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<tr>
<td>Other (lbs)</td>
<td>335</td>
<td>0</td>
<td>1421</td>
<td>1494</td>
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### Regulatory Compliance:

<table>
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<th>FY2020</th>
<th>FY2020</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Q4</td>
<td>FY2020</td>
<td>FY2020</td>
<td></td>
</tr>
<tr>
<td>Inspections</td>
<td>11</td>
<td>7</td>
<td>13</td>
<td>0</td>
</tr>
<tr>
<td>Citations/Violations</td>
<td>0</td>
<td>2</td>
<td>0</td>
<td>0</td>
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</table>

Notes:
Quarterly Report of One-Time Water Bill Adjustments  
April through June 2020

<table>
<thead>
<tr>
<th>Name</th>
<th>Street Name, City</th>
<th>Division</th>
<th>Date of Adjustment</th>
<th>Excess HCF</th>
<th>Amount of Adjustment</th>
<th>Approved by</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ketmany Depedro</td>
<td>Halsey Street, Chula Vista</td>
<td>4</td>
<td>4/3/20</td>
<td>61</td>
<td>$161.74</td>
<td>Staff</td>
</tr>
<tr>
<td>Thomas Mazon</td>
<td>Colling Road West, Bonita</td>
<td>5</td>
<td>4/3/20</td>
<td>319</td>
<td>$823.02</td>
<td>General Manager</td>
</tr>
<tr>
<td>Vivian Miranda</td>
<td>D Street, Chula Vista</td>
<td>5</td>
<td>4/7/20</td>
<td>89</td>
<td>$216.86</td>
<td>Staff</td>
</tr>
<tr>
<td>Guadalupe Perez</td>
<td>Nacion Avenue, Chula Vista</td>
<td>3</td>
<td>4/22/20</td>
<td>93</td>
<td>$232.26</td>
<td>Staff</td>
</tr>
<tr>
<td>Goodwill</td>
<td>Calle Mesita, Bonita</td>
<td>5</td>
<td>4/22/20</td>
<td>49</td>
<td>$94.52</td>
<td>Staff</td>
</tr>
<tr>
<td>Natures Storehouse</td>
<td>3rd Avenue, Chula Vista</td>
<td>4</td>
<td>5/8/20</td>
<td>22</td>
<td>$42.68</td>
<td>Staff</td>
</tr>
<tr>
<td>Maria Vadial</td>
<td>Madison Avenue, Chula Vista</td>
<td>2</td>
<td>5/8/20</td>
<td>35</td>
<td>$78.64</td>
<td>Staff</td>
</tr>
<tr>
<td>Edward Racek</td>
<td>Pepper Tree Road, Chula Vista</td>
<td>4</td>
<td>5/8/20</td>
<td>135</td>
<td>$348.30</td>
<td>Staff</td>
</tr>
<tr>
<td>Juan Rojas</td>
<td>East Division Street, National City</td>
<td>5/8/20</td>
<td>25</td>
<td>$58.57</td>
<td>Staff</td>
<td></td>
</tr>
<tr>
<td>Sabri Shamoun</td>
<td>Broadway, Chula Vista</td>
<td>2</td>
<td>5/13/20</td>
<td>84</td>
<td>$162.96</td>
<td>Staff</td>
</tr>
<tr>
<td>Adriana Mejia</td>
<td>East 16th Street, National City</td>
<td>NC</td>
<td>5/15/20</td>
<td>40</td>
<td>$89.34</td>
<td>Staff</td>
</tr>
<tr>
<td>Joel Balaoing</td>
<td>Harbison Place, National City</td>
<td>NC</td>
<td>5/15/20</td>
<td>34</td>
<td>$85.80</td>
<td>Staff</td>
</tr>
<tr>
<td>John Herndon</td>
<td>Earle Drive, National City</td>
<td>NC</td>
<td>5/15/20</td>
<td>52</td>
<td>$132.24</td>
<td>Staff</td>
</tr>
<tr>
<td>Rocio Martinez</td>
<td>Halsey Street, Chula Vista</td>
<td>4</td>
<td>5/29/20</td>
<td>26</td>
<td>$62.93</td>
<td>Staff</td>
</tr>
<tr>
<td>Eloisa Toledo</td>
<td>East 7th Street, National City</td>
<td>NC</td>
<td>5/29/20</td>
<td>38</td>
<td>$85.28</td>
<td>Staff</td>
</tr>
<tr>
<td>Alejandro Contreras</td>
<td>Hilltop Drive, Chula Vista</td>
<td>3</td>
<td>6/2/20</td>
<td>87</td>
<td>$207.30</td>
<td>Staff</td>
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<tr>
<td>Mary Ruth Ordonez</td>
<td>F Street, Chula Vista</td>
<td>1</td>
<td>6/4/20</td>
<td>107</td>
<td>$232.19</td>
<td>Staff</td>
</tr>
<tr>
<td>Eytan Erez</td>
<td>Ash Avenue, Chula Vista</td>
<td>1</td>
<td>6/5/20</td>
<td>467</td>
<td>$1,013.39</td>
<td>General Manager</td>
</tr>
<tr>
<td>Steven H Ferriot DDS</td>
<td>Willow Road, Bonita</td>
<td>5</td>
<td>6/5/20</td>
<td>63</td>
<td>$122.22</td>
<td>Staff</td>
</tr>
<tr>
<td>Todd Quarles</td>
<td>A Avenue, National City</td>
<td>NC</td>
<td>6/5/20</td>
<td>39</td>
<td>$81.63</td>
<td>Staff</td>
</tr>
<tr>
<td>Susan Music</td>
<td>Sheffield Court, Chula Vista</td>
<td>3</td>
<td>6/9/20</td>
<td>37</td>
<td>$76.47</td>
<td>Staff</td>
</tr>
<tr>
<td>Rebekah Abeyta</td>
<td>San Miguel Road, Bonita</td>
<td>5</td>
<td>6/10/20</td>
<td>88</td>
<td>$224.16</td>
<td>Staff</td>
</tr>
<tr>
<td>Elizabeth Briseno</td>
<td>East 4th Street, National City</td>
<td>NC</td>
<td>6/16/20</td>
<td>66</td>
<td>$162.87</td>
<td>Staff</td>
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<tr>
<td>Systems Properties</td>
<td>Palm Drive, Bonita</td>
<td>5</td>
<td>6/16/20</td>
<td>227</td>
<td>$585.66</td>
<td>General Manager</td>
</tr>
<tr>
<td>Claire E Pratt</td>
<td>Bonita Mesa Road, Bonita</td>
<td>5</td>
<td>6/16/20</td>
<td>218</td>
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<td>General Manager</td>
</tr>
<tr>
<td>Adriana Escalera</td>
<td>Bonita Woods Drive, Bonita</td>
<td>5</td>
<td>6/16/20</td>
<td>73</td>
<td>$188.34</td>
<td>Staff</td>
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<tr>
<td>Jose J Jauregui</td>
<td>Flower Street, Chula Vista</td>
<td>1</td>
<td>6/19/20</td>
<td>54</td>
<td>$111.18</td>
<td>Staff</td>
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<tr>
<td>Maria Vallejo</td>
<td>East Division Street, National City</td>
<td>6/19/20</td>
<td>58</td>
<td>$141.00</td>
<td>Staff</td>
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</tr>
<tr>
<td>Calypso Investments</td>
<td>3rd Avenue, Chula Vista</td>
<td>4</td>
<td>6/19/20</td>
<td>194</td>
<td>$376.36</td>
<td>Staff</td>
</tr>
<tr>
<td>Aron Clemente</td>
<td>Alta Drive, National City</td>
<td>NC</td>
<td>6/25/20</td>
<td>190</td>
<td>$490.20</td>
<td>General Manager</td>
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<tr>
<td>Yvette M Lohayza</td>
<td>Fortuna Street, Chula Vista</td>
<td>3</td>
<td>6/30/20</td>
<td>80</td>
<td>$201.60</td>
<td>Staff</td>
</tr>
</tbody>
</table>

Total number of accounts given adjustments: 31
Total consumption (HCF) at the discounted rate: 3,150
Total amount of adjustments: $7,446
Total billing amount for 4th quarter: $10,200,076
Adjustment percent of total billing: 0.07%

Adjustment Authorization Limit:
Staff - less than $400
General Manager - less than $1,500
Board of Directors - Over $1,500
This page intentionally left blank.
<table>
<thead>
<tr>
<th>Director</th>
<th>Date</th>
<th>Meetings</th>
<th>Per Diem</th>
<th>Lodging</th>
<th>Travel</th>
<th>Reg. Fee</th>
<th>Other</th>
<th>Meals</th>
<th>Mileage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jose Preciado</td>
<td>3/31/2020</td>
<td>1st, 2nd, and 3rd Quarter Totals</td>
<td>$6,300.00</td>
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<td>$0.00</td>
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<tr>
<td></td>
<td>4/1/2020</td>
<td>Finance and Personnel Committee Meeting</td>
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<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td>4/8/2020</td>
<td>SWA Board Meeting</td>
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<tr>
<td></td>
<td>4/15/2020</td>
<td>Finance and Personnel Committee Meeting</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4/16/2020</td>
<td>SWA Special Board Meeting</td>
<td>150.00</td>
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<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4/22/2020</td>
<td>SWA Board Meeting</td>
<td>150.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4/29/2020</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>5/6/2020</td>
<td>Finance and Personnel Committee Meeting</td>
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<td></td>
<td></td>
<td></td>
<td></td>
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# SWEETWATER AUTHORITY

Quarterly Directors Per Diem and Expense Report - 4th Quarter (FY 2019-20)

From 4/1/20 to 6/30/2020

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<td>6/30/2020</td>
<td>4th Quarter Totals</td>
<td>$2,700.00</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$4,090.74</td>
<td>$0.00</td>
<td>$0.00</td>
</tr>
<tr>
<td>Cumulative Totals</td>
<td></td>
<td>$11,250.00</td>
<td>$1,986.40</td>
<td>$1,490.72</td>
<td>$2,850.00</td>
<td>$16,564.62</td>
<td>$317.01</td>
<td>$280.48</td>
</tr>
<tr>
<td>Director</td>
<td>Date Meetings</td>
<td>Per Diem</td>
<td>Lodging</td>
<td>Travel</td>
<td>Reg. Fee</td>
<td>Other</td>
<td>Meals</td>
<td>Mileage</td>
</tr>
<tr>
<td>----------</td>
<td>---------------</td>
<td>----------</td>
<td>---------</td>
<td>--------</td>
<td>----------</td>
<td>-------</td>
<td>-------</td>
<td>---------</td>
</tr>
<tr>
<td>1st Quarter Grand Total (All Directors)</td>
<td></td>
<td>$23,250.00</td>
<td>$3,481.86</td>
<td>$2,136.91</td>
<td>$5,835.00</td>
<td>$27,481.15</td>
<td>$439.96</td>
<td>$749.65</td>
</tr>
<tr>
<td>2nd Quarter Grand Total (All Directors)</td>
<td></td>
<td>$16,200.00</td>
<td>$615.00</td>
<td>$1,698.18</td>
<td>$5,390.00</td>
<td>$27,704.93</td>
<td>$64.49</td>
<td>$481.02</td>
</tr>
<tr>
<td>3rd Quarter Grand Total (All Directors)</td>
<td></td>
<td>$20,100.00</td>
<td>$1,379.08</td>
<td>$842.81</td>
<td>$1,350.00</td>
<td>$27,548.03</td>
<td>$169.54</td>
<td>$380.84</td>
</tr>
<tr>
<td>4th Quarter Grand Total (All Directors)</td>
<td></td>
<td>$21,000.00</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$300.00</td>
<td>$27,513.03</td>
<td>$0.00</td>
<td>$0.00</td>
</tr>
<tr>
<td>FY 2019-20 Cumulative Grand Total (All Directors)</td>
<td></td>
<td>$80,550.00</td>
<td>$5,475.94</td>
<td>$4,677.90</td>
<td>$12,875.00</td>
<td>$110,247.14</td>
<td>$673.99</td>
<td>$1,611.51</td>
</tr>
</tbody>
</table>
Public Affairs Quarterly Performance Report
FY 2019-20, Q4 (April – June)

DIGITAL OUTREACH

<table>
<thead>
<tr>
<th>Website Traffic</th>
<th>Q1</th>
<th>Q2</th>
<th>Q3</th>
<th>Q4</th>
</tr>
</thead>
<tbody>
<tr>
<td># of visitors</td>
<td>27,224</td>
<td>25,092</td>
<td>25,762</td>
<td>30,998</td>
</tr>
<tr>
<td># of inquiries</td>
<td>332</td>
<td>298</td>
<td>322</td>
<td>382</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Social Media</th>
<th>Q1</th>
<th>Q2</th>
<th>Q3</th>
<th>Q4</th>
</tr>
</thead>
<tbody>
<tr>
<td># of followers (Facebook)</td>
<td>1,101</td>
<td>1,123</td>
<td>1,147</td>
<td>1,166</td>
</tr>
<tr>
<td># of followers (Twitter)</td>
<td>1,946</td>
<td>1,974</td>
<td>2,018</td>
<td>2,036</td>
</tr>
<tr>
<td># of posts</td>
<td>96</td>
<td>103</td>
<td>95</td>
<td>133</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Paid Social Media</th>
<th>Q1</th>
<th>Q2</th>
<th>Q3</th>
<th>Q4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paid/boosted post(s) reach</td>
<td>1,217</td>
<td>-</td>
<td>8,831</td>
<td>5,250*</td>
</tr>
<tr>
<td>Digital ad campaign(s) reach</td>
<td>27,265</td>
<td>27,364</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Total Cost</td>
<td>$650</td>
<td>$650</td>
<td>$200</td>
<td>$150</td>
</tr>
</tbody>
</table>

*Landscape contest

COMMUNITY OUTREACH

Community Interactions by Month – Q4:

April 2020
- National City Chamber of Commerce Virtual Job Fair presentation

May 2020
- Chula Vista Chamber of Commerce Utilities Subcommittee presentation

June 2020
- Webinar “Pivoting Through the Pandemic” presentation

Top tweet, June 2020

Social Media Posts by Strategic Plan Categories - Q4

- Goal #1 (Water Quality)
- Goal #2 (System Reliability)
- Goal #3 (Financial Viability)
- Goal #4 (Customer Service)
- Goal #5 (Workforce Development)
- Goal #6 (Administrative Effectiveness)
- Goal #7 (Environmental Stewardship)
- General
- Other

Community Interactions - Q4

- Presentations
- Events
- Sponsorships/donations
Due to COVID-19 public health emergency and stay-at-home order, all school programs scheduled for Q4 were cancelled or postponed.

Hydro Station introduces students from Chula Vista Elementary School District to careers in the water industry.

Olivewood Gardens teaches students from National School District about the safety and value of tap water.

List of Mailed Communications:
- SDCWA-produced Trust the Tap bill insert (paid for by SDCWA)
- Return to work plumbing safety outreach postcard ($1,795.97)

<table>
<thead>
<tr>
<th>Mailed Communication</th>
<th>Q1</th>
<th>Q2</th>
<th>Q3</th>
<th>Q4</th>
</tr>
</thead>
<tbody>
<tr>
<td># of bill inserts &amp; snipes</td>
<td>3</td>
<td>1</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td># of direct mail</td>
<td>1</td>
<td>-</td>
<td>2</td>
<td>1</td>
</tr>
</tbody>
</table>

List of Mailed Communications:
- SDCWA-produced Trust the Tap bill insert (paid for by SDCWA)
- Return to work plumbing safety outreach postcard ($1,795.97)

<table>
<thead>
<tr>
<th>Funded Education Programs</th>
<th>Q1</th>
<th>Q2</th>
<th>Q3</th>
<th>Q4*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms. Smarty-Plants Assemblies ($760 each)</td>
<td>3</td>
<td>8</td>
<td>5</td>
<td>0</td>
</tr>
<tr>
<td>Splash Lab/Green Machine ($740/$510 each)</td>
<td>-</td>
<td>4</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>Mini-grant programs</td>
<td>2</td>
<td>4</td>
<td>4</td>
<td>0</td>
</tr>
<tr>
<td>Total cost</td>
<td>$2,928</td>
<td>$10,938</td>
<td>$6,381</td>
<td>0</td>
</tr>
<tr>
<td>Total students reached</td>
<td>1,186</td>
<td>4,020</td>
<td>2,538</td>
<td>0</td>
</tr>
</tbody>
</table>

*Due to COVID-19 public health emergency and stay-at-home order, all school programs scheduled for Q4 were cancelled or postponed.

<table>
<thead>
<tr>
<th>Ongoing Education Partnerships</th>
<th>Students Reached FY 2019-20*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydro Station ($10,000 annual sponsorship)</td>
<td>2,884</td>
</tr>
<tr>
<td>Olivewood Gardens ($10,000 annual sponsorship)</td>
<td>1,314</td>
</tr>
<tr>
<td>Total students reached</td>
<td>4,198</td>
</tr>
</tbody>
</table>

% of CVESD students served FY 2019-20

% of NSD students served FY 2019-20

Hydro Station introduces students from Chula Vista Elementary School District to careers in the water industry.

Olivewood Gardens teaches students from National School District about the safety and value of tap water.
List of coverage topics:
- Safe, reliable water service during COVID-19
- Water Hero Utility Hero of the Week – Erick Del Bosque
- Dedication to service during COVID-19
- SWA employee giving campaign
- District of Distinction
- New purchasing policy
- Innovative flushing program
- Budget approval

### Coverage

<table>
<thead>
<tr>
<th></th>
<th>Q1</th>
<th>Q2</th>
<th>Q3</th>
<th>Q4</th>
</tr>
</thead>
<tbody>
<tr>
<td># of stories</td>
<td>51</td>
<td>7</td>
<td>12</td>
<td>17</td>
</tr>
</tbody>
</table>

### Coverage by Media Type

<table>
<thead>
<tr>
<th></th>
<th>Q1</th>
<th>Q2</th>
<th>Q3</th>
<th>Q4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Print</td>
<td>23</td>
<td>4</td>
<td>6</td>
<td>12</td>
</tr>
<tr>
<td>Television</td>
<td>24</td>
<td>1</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Other</td>
<td>4</td>
<td>2</td>
<td>1</td>
<td>-</td>
</tr>
</tbody>
</table>
Ensuring Plumbing System Safety after Lengthy Shutdowns

Water provided by Sweetwater Authority continues to meet all state and federal drinking water standards—but once the water leaves our distribution system and enters private service connections, the water quality can deteriorate if water becomes stagnant.

Most commercial and industrial buildings have been partially occupied even during the COVID-19 shutdown. However, special care should be taken with plumbing systems in buildings that have been vacant or have had low water use for extended periods to ensure water quality and safety.

Bacteria can flourish in building pipes, fixtures and associated equipment (like fountains, cooling towers and HVAC systems) that aren’t used for several days. Serious health problems can result from bacteria, but prudent action can avoid complications. Learn more about building plumbing safety from the Centers for Disease Control and Prevention at cdc.gov/legionella.
MANAGEMENT MONTHLY REPORT
ORGANIZATIONAL PERFORMANCE DASHBOARD (FOR THE MONTH ENDING JUNE 30, 2020)

Rainfall/Runoff

<table>
<thead>
<tr>
<th>Location</th>
<th>Rainfall:</th>
<th>FYTD:</th>
<th>Annual Average:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Loveland Reservoir</td>
<td>0.17&quot;</td>
<td>20.66&quot;</td>
<td>15.19&quot;</td>
</tr>
<tr>
<td>Sweetwater Reservoir</td>
<td>0.12&quot;</td>
<td>18.28&quot;</td>
<td>11.30&quot;</td>
</tr>
</tbody>
</table>

Watershed Runoff

<table>
<thead>
<tr>
<th>Location</th>
<th>Runoff: 149.7 AF</th>
<th>June 2019: 279.3 AF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Loveland Reservoir</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sweetwater Reservoir</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Water Storage

<table>
<thead>
<tr>
<th>Location</th>
<th>Capacity:</th>
<th>Available for Treatment:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Loveland Reservoir</td>
<td>25,387 AF</td>
<td>20%</td>
</tr>
<tr>
<td>Sweetwater Reservoir</td>
<td>28,079 AF</td>
<td>68%</td>
</tr>
</tbody>
</table>

Cost to Treat Water per AF (Variable Costs)

- Perdue Plant: $165
- Desal Facility: $329
- NC Wells: $154

Water Production and Cost

Perdue Plant Daily Production MGD

<table>
<thead>
<tr>
<th>Date</th>
<th>Min (6/29/2020)</th>
<th>Max (6/10/2020)</th>
<th>Average (7.5 MGD)</th>
</tr>
</thead>
</table>

Water Loss

<table>
<thead>
<tr>
<th>Cause</th>
<th>Incidents/Type</th>
<th>FYTD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural Pipe Aging</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>Hit by Contractor</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>Tree Root/Settlement</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>Fittings, Gaskets, etc.</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Trench Settlement</td>
<td>0</td>
<td>4</td>
</tr>
</tbody>
</table>

Administrative

- No. of Funded Positions: 133
- No. of Vacancies: 6
- No. of Positions Filled: 127
- No. of Recruitments: 4
- No. of Website Visitors: 10,665
- No. of Safety Achievements Issued: 6
- Hours of Training: 146
- Total Attendees: 189

Financial

- Fiscal Year-to-Date Water Sales
  - Actual: 16,279 AF
  - Budget: 17,220 AF
  - Actual Budget: $53.0
  - Budget: $54.8

Expenditures (millions)

<table>
<thead>
<tr>
<th>Category</th>
<th>FYTD Actual</th>
<th>Prior FYTD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating</td>
<td>$41.2</td>
<td>$54.5</td>
</tr>
<tr>
<td>Capital</td>
<td>$13.0</td>
<td>$26.8</td>
</tr>
<tr>
<td>Total Budget</td>
<td>$46.0</td>
<td>$81.3</td>
</tr>
<tr>
<td>Percent Remaining</td>
<td>10%</td>
<td>20%</td>
</tr>
</tbody>
</table>

Customer Service

<table>
<thead>
<tr>
<th>Category</th>
<th>Month</th>
<th>FYTD</th>
<th>Prior FYTD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Delinquent Accounts</td>
<td>0</td>
<td>1,156</td>
<td>2,255</td>
</tr>
<tr>
<td>Credit Card Transactions</td>
<td>7,508</td>
<td>86,134</td>
<td>78,517</td>
</tr>
<tr>
<td>High Bill Investigations</td>
<td>26</td>
<td>334</td>
<td>334</td>
</tr>
<tr>
<td>Walk-in Customer Assistance</td>
<td>1,550</td>
<td>28,776</td>
<td>39,057</td>
</tr>
<tr>
<td>Water Efficiency Outreach</td>
<td>2</td>
<td>45</td>
<td>46</td>
</tr>
<tr>
<td>Taste and Odor Complaints</td>
<td>1</td>
<td>16</td>
<td>16</td>
</tr>
<tr>
<td>New Accounts</td>
<td>352</td>
<td>4,144</td>
<td>4,623</td>
</tr>
</tbody>
</table>

**Please note that June 2020 expenditures are preliminary.
This page intentionally left blank.
<table>
<thead>
<tr>
<th>Item No.</th>
<th>Date Requested</th>
<th>Requestor and Generic Description of Request</th>
<th>Action by Staff/Schedule</th>
<th>Date Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>242</td>
<td>07/17/19</td>
<td>Director Martinez – requested a copy of the Cathodic Protection Master Plan upon its completion.</td>
<td>Staff will provide upon completion.</td>
<td>TBD</td>
</tr>
<tr>
<td>403</td>
<td>06/20/20</td>
<td>Director Martinez – noted trash near an Authority job site</td>
<td>The GM looked into the issue.</td>
<td>06/22/20</td>
</tr>
<tr>
<td>404</td>
<td>06/24/20</td>
<td>Director Calderon-Scott – requested information on and edits to the Budget in advance of the 06/24/20 Board meeting</td>
<td>The GM responded to the questions.</td>
<td>06/24/20</td>
</tr>
<tr>
<td>405</td>
<td>06/24/20</td>
<td>Director Martinez – requested photos of the reservoirs</td>
<td>The GM provided photos.</td>
<td>06/25/20</td>
</tr>
<tr>
<td>406</td>
<td>06/24/20</td>
<td>Director Calderon-Scott – requested information on solicitation of contracts for street sweeping and security (during Board meeting)</td>
<td>The GM provided the information (see attached).</td>
<td>07/06/20</td>
</tr>
<tr>
<td>407</td>
<td>06/24/20</td>
<td>Director Calderon-Scott – requested information on Spanish-speaking employees (during Board meeting)</td>
<td>The GM provided the information (see attached).</td>
<td>07/08/20</td>
</tr>
<tr>
<td>408</td>
<td>06/25/20</td>
<td>Director Preciado – shared a constituent concern</td>
<td>The GM looked into the concern.</td>
<td>06/25/20</td>
</tr>
<tr>
<td>409</td>
<td>06/25/20</td>
<td>Director Calderon-Scott – asked staff to research the Public Agency Consortium</td>
<td>The GM looked into the program.</td>
<td>06/25/20</td>
</tr>
<tr>
<td>410</td>
<td>06/25/20</td>
<td>Director Calderon-Scott – shared concerns about Sweetwater Authority’s Local Vendor website</td>
<td>The GM looked into the concerns.</td>
<td>06/25/20</td>
</tr>
<tr>
<td>411</td>
<td>06/25/20</td>
<td>Director Cerda – asked a question about the budget press release</td>
<td>Th GM responded to the question.</td>
<td>06/25/20</td>
</tr>
<tr>
<td>412</td>
<td>06/29/20</td>
<td>Director Martinez – asked a question about the fishing program</td>
<td>The GM responded to the question.</td>
<td>07/01/20</td>
</tr>
<tr>
<td>413</td>
<td>06/30/20</td>
<td>Director Cerda – requested a meeting with the GM</td>
<td>The GM responded to the request.</td>
<td>07/01/20</td>
</tr>
</tbody>
</table>

Note: Number sequencing is not in order as those tasks completed are removed from this list. Routine requests that are part of normal business operations are not captured here.
## LOG OF BOARD REQUESTS
### July 16, 2020

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Date Requested</th>
<th>Requestor and Generic Description of Request</th>
<th>Action by Staff/Schedule</th>
<th>Date Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>414</td>
<td>06/30/20</td>
<td>Director Calderon-Scott – asked the Assistant General Manager questions on the Operations Committee agenda, the annual report on the Strategic Work Plan, and purchasing procedures</td>
<td>The AGM and Legal Counsel responded.</td>
<td>06/30/20</td>
</tr>
<tr>
<td>415</td>
<td>07/01/20</td>
<td>Director Martinez – asked questions about fishing programs</td>
<td>The GM responded.</td>
<td>07/01/20</td>
</tr>
<tr>
<td>416</td>
<td>07/02/20</td>
<td>Director Calderon-Scott – requested that the General Manager modify the Operations Committee minutes</td>
<td>The GM responded.</td>
<td>07/02/20</td>
</tr>
<tr>
<td>417</td>
<td>07/04/20</td>
<td>Director Cerda - shared concern about potential leak</td>
<td>The GM looked into the issue.</td>
<td>07/06/20</td>
</tr>
<tr>
<td>418</td>
<td>07/05/20</td>
<td>Director Martinez – noted trash and other concerns near an Authority job site</td>
<td>The GM looked into the issue.</td>
<td>07/06/20</td>
</tr>
<tr>
<td>419</td>
<td>07/08/20</td>
<td>Director Calderon-Scott – requested information on grant programs (during Board meeting)</td>
<td>The GM provided the information (see attached).</td>
<td>07/08/20</td>
</tr>
<tr>
<td>420</td>
<td>07/15/20</td>
<td>Chair Castaneda – requested copies of the Year-end Detailed Work Plan Status Reports provided to Committees</td>
<td>The GM provided the information.</td>
<td>07/15/20</td>
</tr>
<tr>
<td>421</td>
<td>07/15/20</td>
<td>Operations Committee – requested a special meeting of the Operations Committee to discuss Request for Proposal rating criteria</td>
<td>The GM scheduled the special meeting.</td>
<td>07/16/20</td>
</tr>
</tbody>
</table>

Note: Number sequencing is not in order as those tasks completed are removed from this list. Routine requests that are part of normal business operations are not captured here.
Dear Board Members,

This email is in response to an inquiry at the recent Board Meeting regarding two services provided to the Sweetwater Authority by Mobil Construction Sweeping and Bravo 3.

Mobil Construction Sweeping provides street/paving sweeping to Sweetwater Authority at various locations. The Authority awarded a one year contract with an option to renew for up to four additional years, considered on an annual basis. The Authority is currently beginning the third year of the contract with this vendor. The annual renewal date is June 30 and their contract was recently renewed for an additional year (FY2020-21). Thus, the next opportunity to review their contract again will begin in the Spring of 2021.

Bravo 3 provides security services for the Authority at the Perdue Treatment Plant. Their contract expires September 30 and staff is currently developing the Request for Proposals. Staff has reached out to a few local security vendors that we could find in our service area but have not heard back from any of them at the time this message was drafted. If any Board member has a specific firm they wish staff to contact with regard to this opportunity, please let me know.

Thank you and please let me know if I can provide any additional information.

Regards, Tish

Tish Berge
General Manager
619-420-1413

Note: Number sequencing is not in order as those tasks completed are removed from this list. Routine requests that are part of normal business operations are not captured here.
From: Berge, Tish  
Sent: Wednesday, July 8, 2020 2:21 PM  
Subject: Response to Request for Information

Dear Board Members,

This email is in response to an inquiry at the recent Board Meeting regarding a request for information about the employees receiving the bilingual pay stipend per the MOU. After consultation with Legal Counsel, please see below for a listing prepared in response to this request showing employees receiving the stipend by position.

- Board Secretary
- Director of Administrative Services
- Program Analyst
- Customer Service Supervisor (Field)
- Customer Service Representative I-3 Positions
- Customer Service Leadworker
- Telephone Receptionist II
- Utility Worker I-4 Positions
- Utility Leadworker-2 Positions
- Operations Clerk III
- Utility Worker II-2 Positions
- Field Crew Supervisor
- Engineering Manager-2 Positions
- Environmental Project Manager
- Principal Engineering Technician
- Sr. Engineering Technician
- Engineering Office Assistant III
- Habitat Maintenance Worker II
- Water Treatment Plant Operator I
- Laboratory Technician I
- Water Treatment Plant Operator III

Regards, Tish  
Tish Berge  
General Manager

619-420-1413

Note: Number sequencing is not in order as those tasks completed are removed from this list. Routine requests that are part of normal business operations are not captured here.
From: Berge, Tish  
Sent: Wednesday, July 8, 2020 7:49 PM  
Subject: Response to Request for Information

Good evening Board Members,

As a follow up to an information request made at tonight’s Board meeting, please see below for additional information on grant programs at the Authority.

The budget line item for the Water Education Efficiency Program (WEEP) Grants is in the FY2019-20 Budget, page 33 Water Efficiency, 5640 Conservation Incentives.


Information about the WEEP Grants can be found here:

https://www.sweetwater.org/213/Rebates

https://www.sweetwater.org/DocumentCenter/View/1322/WEEP-Grant-Application

If you have any additional questions, please let me know.

Regards, Tish

Tish Berge  
General Manager  
619-420-1413
Public Comment

Speaker's Request Form
All public comment submissions must be received 1 hour in advance of the meeting and will be read aloud to the Board during the appropriate portion of the meeting with a reading limit of 3 minutes for each comment. Any person with a disability who requires a modification or accommodation in order to participate in a meeting should direct such request to the Board Secretary at (619) 409-6703 at least forty-eight (48) hours before the meeting, if possible.

For best results, compose your comments in your favorite word processing software and use the copy/paste function to place your comment in the form.

| First Name | Mike |
| Last Name  | Wilson |
| Address    | Lotus Dr. |
| City       | San Diego |
| State      | CA |
| Zip Code   | 92106 |
| Meeting Date and Time | 7/22/2020 @ 6pm |
| I wish to speak under public comment: | No |
| Action Item Number | Field not completed. |
| Enter Your Comments | Loveland Reservoir's access still closed to all hikers, bird watchers, exercise groups, anglers, rock climbers, etc. etc. is unfortunate. Sweetwater Authority needs to do the right thing and re-open public access per the land easement agreement. We miss it and just look forward to reinstating the PRE-Pandemic accessibility. Thank You |
Public Comment

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For best results, compose your comments in your favorite word processing software and use the copy/paste function to place your comment in the form.

<table>
<thead>
<tr>
<th>First Name</th>
<th>Russell</th>
</tr>
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<tbody>
<tr>
<td>Last Name</td>
<td>Walsh</td>
</tr>
<tr>
<td>Address</td>
<td>Montiel Truck Trail</td>
</tr>
<tr>
<td>City</td>
<td>Jamul</td>
</tr>
<tr>
<td>State</td>
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</tr>
<tr>
<td>Zip Code</td>
<td>91935</td>
</tr>
<tr>
<td>Meeting Date and Time</td>
<td>07/22/2020 6:00 PM</td>
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</tbody>
</table>

I wish to speak under public comment: No

Action Item Number: Field not completed.

Enter Your Comments: I would like to address the continued obstruction of the fishing easement at Loveland Reservoir

A week has passed since the Operations committee vetted this topic in a meeting which I attended via zoom... Last Thursday, the day after the meeting, I wrote an email for distribution to all participants and sent it to Mr. Garcia and Ms. Perez. I have not gotten one response. There is also no public update regarding the fishing programs on the Sweetwater Authority website.

The three board members assigned to decide on the topic of opening Loveland Reservoir are on public record for being in favor of opening the lake, at least on a partial schedule. I...
appreciate the good faith of those supervisors, Mr. Martinez, Ms Calderon-Scott and Mr. Cano. I appreciate the Mr. Martinez was interested in knowing if a partial opening was acceptable to me. However, the suggestion of a soft opening is not really necessary, or justified if we were given the chance to air out the concerns discussed at the Operations meeting, as I attempted to do via my recent email. It is not for me to condone something that diminishes the civil legal powers of the Easement Granted to the US Government in favor of the American Public.

The Sweetwater website says the lakes are closed so that the Sweetwater Authority can focus on its mission to supply safe drinking water to its water customers. Loveland reservoir usually has one part-time caretaker each day. How is that a meaningful hindrance to your mission to supply safe water?

A big topic at the Operations meeting last Wednesday was the cleaning of the porta potties at Loveland Reservoir. I wrote an email for distribution to all participants of the board in attempt to make it clear that other lakes have the exact same system with remote toilets accessible by boat and they are being stocked and cleaned.

In my recent email, I also addressed the concerns Mr. Gaus stated about the dangers of interacting with the public. Unfortunately, it is impossible to cover those topics in 3 minutes, so I hope that my recent correspondence will be read and acknowledged. I know that Sweetwater staff can maintain safe distancing from the public when opening and closing the gate, or when operating the boat or cleaning restrooms, when fishermen are onshore. I have never seen a reason why Sweetwater staff would have to speak closely, face to face with anyone fishing at Loveland or even get near them. It is not typical for Sweetwater staff and the public to conduct any type of transaction or interact in close proximity over any issue. They do not check licenses, bait or any of those types of things. The only time I have seen this was when staff engaged in unofficial chit chat with anglers, or anglers helped a caretaker with boat trouble.

Given simple observation of the situation at other lakes and at other functions in our communities, I do not accept the suggestion that working at Loveland reservoir is so dangerous that it would nullify the Sweetwater Authorities responsibilities towards the fishing program. I don’t see how anyone at Sweetwater Authority could draw the conclusion that health and safety issues are your lakes are exceptions to the rule. All the other lakes in San Diego County, all of which are opened for fishing, boating, water skiing etc, according to their programs, have managed to work out these concerns. Only the two lakes controlled by the Sweetwater Authority, with much less
extensive programs and lower public use, remain closed.

Thank you,

Russell Walsh