

Pursuant to Governor Newsom's Executive Order N-29-20, members of the Board of Directors, staff and public may participate in this meeting via teleconference and/or electronically. The Oceano Community Services District Boardroom will NOT be open for accessing the meeting.



Notice of Regular Meeting
Oceano Community Services District - Board of Directors Agenda
WEDNESDAY, SEPTEMBER 8, 2021 – 6:00 P.M.
Location: TELECONFERENCE – SEE BELOW

HOW TO OBSERVE THE MEETING

This meeting will be conducted using Zoom software, which requires a name/email to be entered prior to accessing the meeting. This is not a District requirement for participation. Public participants are welcome to use an anonymous name/email if preferred.

Telephone: Listen to the meeting live by dialing (669) 900-9128 or (253) 215-8782. Enter **Meeting ID# 892-6279-7188** followed by the pound (#) key. Then enter the **Password: 508435** followed by the pound (#) key. If the line is busy, additional phone numbers can be found on Zoom's website at <https://zoom.us/u/abb4GNs5xM>

Computer: With internet access use the **Password: 508435** to watch the live streaming at <https://us02web.zoom.us/j/89262797188?pwd=Q2lUeVc5THhnZk10TEtOUTItcXRiZz09> or by going to zoom.us and selecting "Join A Meeting" then entering the **Meeting ID# 892-6279-7188** followed by the **Password: 508435**

Mobile: Log in through the Zoom Mobile App on a smartphone or tablet and enter **Meeting ID#: 892-6279-7188** then enter the **Password: 508435**.

For information on Zoom's system requirements please visit: <https://support.zoom.us/hc/en-us/articles/201362023-System-Requirements-for-PC-Mac-and-Linux>

HOW TO SUBMIT PUBLIC COMMENTS

Before the Meeting: Please email your comments to carey@oceanocsd.org with "Public Comment" in the subject line. In your email please include the agenda item number and title and your comments. You may also provide public comment through the District website at: <https://oceanocsd.org/contact/>. All comments received before 12:00 p.m. the day of the meeting will be included as an agenda supplement on the District's website <https://oceanocsd.org/meeting-agendas-minutes/agenda-packets/> and provided to the Directors prior to the meeting. Comments received after the deadline, but prior to the meeting start time, will be attached to the minutes of the meeting.

Live Comments: During the meeting, the Board President or designee will announce the opportunity for public comment. Members of the public may utilize the "raise hand" feature in Zoom to be placed into the speaking queue. Each individual speaker is limited to a presentation time of THREE (3) minutes per item. Persons wishing to speak on more than one item shall limit his/her remarks to a total of SIX (6) minutes. This time may be allocated between items in one-minute increments up to three minutes. Time limits may not be yielded to or shared with other speakers.

To "Raise Hand:"

- **Telephone:** Press "* 9" to raise your hand to notify meeting host and be placed in the queue. The host will unmute and call on you when it's your time to speak.
- **Computer/Mobile Device:** Click the "raise hand" button to notify meeting host and be placed in the queue. The host will unmute and call on you when it's your time to speak. If the "raise hand" button is not displayed on the screen, please click the "participants" icon at the bottom of the screen and the "raise hand" button will appear.

All items on the agenda including information items, may be deliberated. Any member of the public with an interest in one of these items should review the background material and request information on the possible action that could be taken.

1. CALL TO ORDER
2. ROLL CALL
3. FLAG SALUTE
4. AGENDA REVIEW
5. PUBLIC COMMENT ON MATTERS NOT ON THE AGENDA

This public comment period provides an opportunity for members of the public to address the Board on matters of interest within the jurisdiction of the District that are not listed on the agenda. If a member of the public wishes to speak at this time, Public comment is limited to three (3) minutes.

6. SPECIAL PRESENTATIONS & REPORTS:

A. STAFF REPORTS:

- i. Sheriff's South Station - Commander Jay Wells
- ii. FCFA Operations - Chief Steve Lieberman
- iii. Operations – Utility System Manager Tony Marraccino
- iv. OCSD General Manager – Will Clemens

B. BOARD OF DIRECTORS AND OUTSIDE COMMITTEE REPORTS:

- i. Director Villa
- ii. Director Gibson
- iii. Vice President White
- iv. President Austin
- v. Director Replogle

C. PUBLIC COMMENT ON SPECIAL PRESENTATIONS AND REPORTS:

This public comment period provides an opportunity for members of the public to address the Board on matters discussed during Special Presentations and Reports. If a member of the public wishes to speak at this time, Public comment is limited to three (3) minutes.

7. CONSENT AGENDA ITEMS:

Public comment Members of the public wishing to speak on consent agenda items may do so when recognized by the Presiding Officer. If a member of the public wishes to speak at this time, Public comment is limited to three (3) minutes.

- A. Review and Approval of Minutes for the Regular Meeting of August 25, 2021
- B. Review of Cash Disbursements
- C. Submittal of the District's Public Facilities Fee Annual Report
- D. Consideration of a recommendation to approve a proposal and professional services agreement with GSI Water Solutions Inc. to prepare the 2021 Annual Report for the Northern Cities Management Area in the amount of \$38,547 plus contingencies of \$3,276 for a total contract amount of \$41,823.

8. BUSINESS ITEMS:

Public comment Members of the public wishing to speak on business items may do so when recognized by the Presiding Officer. If a member of the public wishes to speak at this time, Public comment is limited to three (3) minutes.

- A. Consider a nomination for the vacant Authorized Districts alternate member on the IWMA Board and authorize the General Manager to cast a vote for any nominated OCSD Board member

9. HEARING ITEMS:

Public comment Members of the public wishing to speak on hearing items may do so when recognized by the Presiding Officer. If a member of the public wishes to speak at this time, Public comment is limited to three (3) minutes.

10. RECEIVED WRITTEN COMMUNICATIONS:

11. LATE RECEIVED WRITTEN COMMUNICATIONS:

12. FUTURE AGENDA ITEMS: Deferred Infrastructure Program (as needed), Lopez Water Contract Amendments (Late 2021), Wastewater CIP (Future year), Social Media Policy/ Live Stream Board Meetings (As directed), Bill insert/ mailing policy (As directed), Policy & Procedure Manual review (As directed), CSDA Transparency Certification (As directed)

13. FUTURE HEARING ITEMS:

14. CLOSED SESSION:

15. ADJOURNMENT:

This agenda was prepared and posted pursuant to Government Code Section 54954.2. Agenda is posted at the Oceano Community Services District, 1655 Front Street, Oceano, CA. Agenda and reports can be accessed and downloaded from the Oceano Community Services District website at www.oceanocsd.org

ASSISTANCE FOR THE DISABLED If you are disabled in any way and need accommodation to participate in the Board meeting, please call the Clerk of the Board at (805) 481-6730 for assistance at least three (3) working days prior to the meeting so necessary arrangements can be made.



Oceano Community Services District
Summary Minutes
Regular Meeting Wednesday, August 25, 2021 – 6:00 P.M.
Location: TELECONFERENCE

1. **CALL TO ORDER:** at approximately 6:00 p.m. by President Austin
2. **ROLL CALL:** Board members present: President Austin, Vice President White, Director Villa, Director Gibson and Director Replogle. Staff present: General Manager Will Clemens, Business and Accounting Manager Carey Casciola and Chase Martin, Legal Counsel.
3. **FLAG SALUTE:** led by President Austin
4. **AGENDA REVIEW:** Agenda accepted as presented.
5. **PUBLIC COMMENT ON MATTERS NOT ON THE AGENDA:**

Lucia Casalnuovo, Oceano Beach Community Association (OBCA)	Commented on the recent OBCA community clean up and asked for assistance with the homeless situation on 17 th Street.
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6. **SPECIAL PRESENTATIONS & REPORTS:**

A. STAFF REPORTS:

- i. **Sheriff's South Station** – Commander Jay Wells – 1,149 Calls for Service, generating 98 reports. 26 reports routed to DA for prosecution and 19 arrests. 75 Calls for service related to fireworks. Homeless/Illegal Camping: 18 Calls for service reported and they are to be handled as a County Code Enforcement issue. SLO County has opened a Safe Parking space on Kansas Ave. in SLO which provides safe overnight parking only (no day use) with showers, restrooms, picnic tables and security. Occupants can remain for 28 nights before needing to renew a contract to remain. Looking into dedicating space in South County for safe overnight parking. The Sheriff has been working with CHP to tag & tow unregistered vehicles and will start issuing citations for overnight camping. Encampments are checked on daily and the goal is to steer people towards the safe parking to help minimize the impacts of illegal camps within communities.
- ii. **FCFA** - Chief Steve Lieberman – Absent
- iii. **Operations** - Utility Systems Manager - Tony Marraccino - Lopez is at 32.5% full which is 16,028AF. State Water 62AF and pumped just under 9AF. Continuing with daily rounds; weekly and monthly samples; 11 work orders; 9 USAs; 8 customer service calls; 0 SSOs in July; 1 after hours call out. Continuing with weed abatement. Provided a roll-off for the 17th Street (between Beach and Ocean) clean-up. Continuing annual sewer jetting per the Sewer System Management Plan. Completed first of the month equipment runs and continuing with trash pickup – 8 Ready311 tickets for July. Well 8 analyzer and jetter maintenance completed. Dump truck recall resolved. Continuing to raise meter boxes as needed. Radiator replaced in the natural gas booster. New water service completed on Vista. Line replacement due to age on 22nd Street. Line abandonment on Wilmar Ave. completed due to a new multi-family project. Leak resolved on Airpark Drive. On 8/6/2021 Lopez lost offsite power and their emergency generator failed. OCSD relied on District Well and we experienced no issues or pressure loss. On 8/16/2021 a window at the Old Fire House was broken out on 13th St and Hwy 1. It was boarded up and replacement discussions to take place at a later date. Concrete and asphalt taken to the recycler.
- iv. **OCSD General Manager** – Will Clemens – Complimented the field staff on the 22nd Street water line replacement. Their successful boring and replacement saved the District approximately \$7,000. Halcyon and KenMar Gardens are experiencing water quality issues with their private wells – the RCAC (Rural Community Assistance Corporation) is helping those entities with a feasibility study for the best solution to address those water quality issues which usually surface during droughts. Approached by the City of Arroyo Grande about a possible water supply agreement similar to one that was entered into in 2009. The City of AG will likely discuss this at their September City Council Meeting.

B. BOARD OF DIRECTORS AND OUTSIDE COMMITTEE REPORTS:

- i. Director Villa – Reported on the 8/4/2021 Integrated Regional Water Management (IRWM) meeting and 8/12/2021 & 8/19/2021 Oceano Advisory Council (OAC) meetings.
- ii. Director Gibson – None
- iii. Vice President White – None
- iv. Director Replogle – Reported on the 8/11/2021 Integrated Waste Management Authority (IWMA) meeting.
- v. President Austin – Reported on the 8/4/2021 South San Luis Obispo County Sanitation District (SSLOCSD).

C. PUBLIC COMMENT ON SPECIAL PRESENTATIONS AND REPORTS:

Jeff Edwards	In support of the City of Arroyo Grande reaching out for a water supply agreement and the pending Zone 3 contract amendments. Commented on the voter initiative support/measure B-12 he provided (see 8/25/2021 agenda addendum).
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7. CONSENT AGENDA:	ACTION:
<ul style="list-style-type: none"> a) Review and Approval of Minutes for the Regular Meeting of July 28, 2021 b) Review of Cash Disbursements. c) Submittal of the District’s Fiscal Year 2020-21 	<p>After an opportunity for public comment, Board and staff discussion, a motion was made by Vice President White to approve the consent agenda items as presented with a second from Director Replogle and a 5-0 roll call vote.</p> <p>Public Comment: None</p>

8. BUSINESS ITEM:	ACTION:
Receive and update regarding issues related to the Integrated Waste Management Authority and staff direction as necessary.	<p>After a presentation by the General Manager, an opportunity for public comment, Board, and staff discussion the Board gave direction to wait until the next meeting to consider a nomination for the vacant alternate member on the IWMA Board.</p> <p>Public Comment: None</p>

9. HEARING ITEM:	ACTION:
Consideration of a Recommendation to Approve the Final 2021/22 Budget.	<p>After a presentation by the Business & Accounting Manager, an opportunity for public comment, Board and staff discussion, a motion was made by Vice President White to approve the Final 2021/22 budget with a second from Director Villa and a 4-1 roll call vote. Director Replogle dissented and requested for the record to reflect that she continues to oppose continued deficit spending on the Five Cities Fire Authority after the voters did not approve the special tax measure.</p> <p>Public Comment: None</p>

- 10. **HEARING ITEMS:** None
- 11. **RECEIVED WRITTEN COMMUNICATIONS:** None
- 12. **LATE RECEIVED WRITTEN COMMUNICATIONS:** None
- 13. **FUTURE AGENDA ITEMS:** Deferred Infrastructure Program (as needed), Lopez Water Contract Amendments (Late 2021), Wastewater CIP (Future year), Social Media Policy/ Live Stream Board Meetings (As directed), Bill insert/ mailing policy (As directed), Policy & Procedure Manual review (As directed), CSDA Transparency Certification (As directed).

Director Repogle requested for the nomination of the IWMA alternate member be brought back to the September 8th meeting.

14. **FUTURE HEARING ITEMS:** None
15. **CLOSED SESSION:** None
16. **ADJOURNMENT:** at approximately 7:15PM



Oceano Community Services District

1655 Front Street, P.O. Box 599, Oceano, CA 93475

PHONE(805) 481-6730 FAX (805) 481-6836

Date: September 8, 2021

To: Board of Directors

From: Carey Casciola, Business and Accounting Manager

Subject: **Agenda Item #7(B): Recommendation to Review Cash Disbursements**

Recommendation

It is recommended that your board review the attached cash disbursements:

Discussion

The following is a summary of the attached cash disbursements:

Description	Check Sequence	Amounts
	59128 - 59140	
Disbursements:		
Regular Payable Register - paid 8/26/2021	59128 - 59136	\$ 7,019.76
Subtotal:		\$ 7,019.76
Reoccurring Payments for Board Review (authorized by Resolution 2020-06):		
Payroll Disbursements - PPE 08/28/2021	N/A	\$ 32,300.86
Reoccurring Utility Disbursements - paid 8/26/2021	59137 - 59138	\$ 254.60
Reoccurring Health Disbursements - paid 8/26/2021	59139 - 59140	\$ 10,576.12
Subtotal:		\$ 43,131.58
Grand Total:		\$ 50,151.34

Other Agency Involvement

N/A

Other Financial Considerations

Amounts are within the authorized Fund level budgets.

Results

The Board's review of cash disbursements is an integral component of the District's system of internal controls and promotes a well governed community.

COMPANY: 99 - POOLED CASH FUND
 ACCOUNT: 1-1001-000 POOLED CASH OPERATING
 TYPE: All
 STATUS: All
 FOLIO: All

CHECK DATE: 0/00/0000 THRU 99/99/9999
 CLEAR DATE: 0/00/0000 THRU 99/99/9999
 STATEMENT: 0/00/0000 THRU 99/99/9999
 VOIDED DATE: 0/00/0000 THRU 99/99/9999
 AMOUNT: 0.00 THRU 999,999,999.99
 CHECK NUMBER: 059128 THRU 059136

ACCOUNT	--DATE--	--TYPE--	NUMBER	-----DESCRIPTION-----	----AMOUNT---	STATUS	FOLIO	CLEAR DATE	
CHECK:									
1-1001-000	8/26/2021	CHECK	059128	ARAMARK	91.25CR	OUTSTND	A	0/00/0000	UNIFORMS
1-1001-000	8/26/2021	CHECK	059129	BRENT SARKISON DBA CALTEC COMP	30.00CR	OUTSTND	A	0/00/0000	MONTHLY STD BKUP
1-1001-000	8/26/2021	CHECK	059130	FAMCON PIPE & SUPPLY, INC.	157.66CR	OUTSTND	A	0/00/0000	INVENTORY
1-1001-000	8/26/2021	CHECK	059131	FASTENAL COMPANY	430.58CR	OUTSTND	A	0/00/0000	SEWER MAINT SUPPLIES
1-1001-000	8/26/2021	CHECK	059132	GATOR CRUSHING & RECYCLING	20.00CR	OUTSTND	A	0/00/0000	ASPHALT RECYCLE
1-1001-000	8/26/2021	CHECK	059133	MIER BROS.	177.79CR	OUTSTND	A	0/00/0000	PAVING
1-1001-000	8/26/2021	CHECK	059134	MINER'S ACE HARDWARE, INC.	119.48CR	OUTSTND	A	0/00/0000	SYSTEM PARTS/SUPPLIES
1-1001-000	8/26/2021	CHECK	059135	STREATOR PIPE & SUPPLY	6.80CR	OUTSTND	A	0/00/0000	SYSTEM PART
1-1001-000	8/26/2021	CHECK	059136	TYLER TECHNOLOGIES	5,986.20CR	OUTSTND	A	0/00/0000	ANNUAL SOFTWARE MAINTENANCE
TOTALS FOR ACCOUNT 1-1001-0				CHECK	TOTAL:	7,019.76CR			
				DEPOSIT	TOTAL:	0.00			
				INTEREST	TOTAL:	0.00			
				MISCELLANEOUS	TOTAL:	0.00			
				SERVICE CHARGE	TOTAL:	0.00			
				EFT	TOTAL:	0.00			
				BANK-DRAFT	TOTAL:	0.00			
TOTALS FOR POOLED CASH FUND				CHECK	TOTAL:	7,019.76CR			
				DEPOSIT	TOTAL:	0.00			
				INTEREST	TOTAL:	0.00			
				MISCELLANEOUS	TOTAL:	0.00			
				SERVICE CHARGE	TOTAL:	0.00			
				EFT	TOTAL:	0.00			
				BANK-DRAFT	TOTAL:	0.00			

Payroll Summary Report
Board of Directors - Agenda Date September 8, 2021

	(*)	
<u>Gross Wages</u>	8/14/2021	8/28/2021
Regular	\$27,823.14	\$27,820.20
Overtime Wages	\$138.48	\$185.60
Stand By	\$450.00	\$600.00
	<u>\$28,411.62</u>	<u>\$28,605.80</u>
Cell Phone Allowance	\$0.00	\$75.00
Total Wages	<u>\$28,411.62</u>	<u>\$28,680.80</u>
 <u>Disbursements</u>		
Net Wages	\$21,367.27	\$21,588.57
State and Federal Agencies	\$4,890.74	\$4,969.83
CalPERS - Normal	\$5,583.05	\$5,583.05
SEIU - Union Fees	\$159.41	\$159.41
Total Disbursements processed with Payroll	<u>\$32,000.47</u>	<u>\$32,300.86</u>
Health (Disbursed with reoccurring bills)	\$6,204.70	\$6,176.70
Total District Payroll Related Costs	<u>\$38,205.17</u>	<u>\$38,477.56</u>

(*) Previously reported in prior Board Meeting packet - provided for comparison.

COMPANY: 99 - POOLED CASH FUND
 ACCOUNT: 1-1001-000 POOLED CASH OPERATING
 TYPE: All
 STATUS: All
 FOLIO: All

CHECK DATE: 0/00/0000 THRU 99/99/9999
 CLEAR DATE: 0/00/0000 THRU 99/99/9999
 STATEMENT: 0/00/0000 THRU 99/99/9999
 VOIDED DATE: 0/00/0000 THRU 99/99/9999
 AMOUNT: 0.00 THRU 999,999,999.99
 CHECK NUMBER: 059137 THRU 059138

ACCOUNT	--DATE--	--TYPE--	NUMBER	-----DESCRIPTION-----	----AMOUNT---	STATUS	FOLIO	CLEAR DATE	
CHECK:	-----								
1-1001-000	8/26/2021	CHECK	059137	DE LAGE LANDEN FINANCIAL SERVI	150.15CR	OUTSTND	A	0/00/0000	COPIER LEASE
1-1001-000	8/26/2021	CHECK	059138	STANLEY CONVERGENT SECURITY SO	104.45CR	OUTSTND	A	0/00/0000	WELLS AND FIRE MONITOR
TOTALS FOR ACCOUNT 1-1001-0				CHECK	TOTAL:	254.60CR			
				DEPOSIT	TOTAL:	0.00			
				INTEREST	TOTAL:	0.00			
				MISCELLANEOUS	TOTAL:	0.00			
				SERVICE CHARGE	TOTAL:	0.00			
				EFT	TOTAL:	0.00			
				BANK-DRAFT	TOTAL:	0.00			
TOTALS FOR POOLED CASH FUND				CHECK	TOTAL:	254.60CR			
				DEPOSIT	TOTAL:	0.00			
				INTEREST	TOTAL:	0.00			
				MISCELLANEOUS	TOTAL:	0.00			
				SERVICE CHARGE	TOTAL:	0.00			
				EFT	TOTAL:	0.00			
				BANK-DRAFT	TOTAL:	0.00			

COMPANY: 99 - POOLED CASH FUND
 ACCOUNT: 1-1001-000 POOLED CASH OPERATING
 TYPE: All
 STATUS: All
 FOLIO: All

CHECK DATE: 0/00/0000 THRU 99/99/9999
 CLEAR DATE: 0/00/0000 THRU 99/99/9999
 STATEMENT: 0/00/0000 THRU 99/99/9999
 VOIDED DATE: 0/00/0000 THRU 99/99/9999
 AMOUNT: 0.00 THRU 999,999,999.99
 CHECK NUMBER: 059139 THRU 059140

ACCOUNT	--DATE--	--TYPE--	NUMBER	-----DESCRIPTION-----	----AMOUNT---	STATUS	FOLIO	CLEAR DATE	
CHECK:									
1-1001-000	8/26/2021	CHECK	059139	BLUE SHIELD OF CALIFORNIA	9,208.80CR	OUTSTND	A	0/00/0000	EMPLOYEE INSURANCE
1-1001-000	8/26/2021	CHECK	059140	PRINCIPAL LIFE INSURANCE COMPA	1,367.32CR	OUTSTND	A	0/00/0000	EMPLOYEE INSURANCE
TOTALS FOR ACCOUNT 1-1001-0				CHECK	TOTAL:	10,576.12CR			
				DEPOSIT	TOTAL:	0.00			
				INTEREST	TOTAL:	0.00			
				MISCELLANEOUS	TOTAL:	0.00			
				SERVICE CHARGE	TOTAL:	0.00			
				EFT	TOTAL:	0.00			
				BANK-DRAFT	TOTAL:	0.00			
TOTALS FOR POOLED CASH FUND				CHECK	TOTAL:	10,576.12CR			
				DEPOSIT	TOTAL:	0.00			
				INTEREST	TOTAL:	0.00			
				MISCELLANEOUS	TOTAL:	0.00			
				SERVICE CHARGE	TOTAL:	0.00			
				EFT	TOTAL:	0.00			
				BANK-DRAFT	TOTAL:	0.00			



Oceano Community Services District

1655 Front Street, P.O. Box 599, Oceano, CA 93475

(805) 481-6730 FAX (805) 481-6836

Date: September 8, 2021

To: Board of Directors

From: Carey Casciola, Business and Accounting Manager

Subject: Agenda Item #7(C): Submittal of the District's Public Facilities Fee Annual Report

Recommendation

It is recommended that your Board receive and file the District's Public Facilities Fee Report.

Discussion

Government Code Section 66000 et seq. authorizes local agencies to collect fees from development projects to mitigate the impact of new development on public facilities. The District approved the Public Facilities Fee (PFF) agreement with the County on June 12, 2019 to help ensure that the actions of both agencies are coordinated to comply with statutory requirements. The agreement identifies specific requirements, one of which is the attached report. The District is to submit annual reports that show the District's progress toward performing its obligations, including public information pursuant to Government Code Section 66006.

Other Agency Involvement

The County of San Luis Obispo

Other Financial Considerations

The PFFs are held in a separate Bank account that is included in each of the District's Quarterly Treasurer Reports.

Results

Reporting the purpose and uses of PFFs and their relationship to new development meets the requirements of the County agreement and state laws and helps promote a well governed and safe community.

Attachment A – Public Facilities Fee Annual Report

Oceano Community Services District
Public Facilities Fee
Annual Report

Annual Report - Public Facilities Fee

The purpose of this report is to provide information required in the District's Public Facilities Fee Annual Report. The fees are collected by the County from new development pursuant to an agreement with the District to help pay the proportionate cost of facilities and equipment that are needed due to the impacts from new development. The fees collected for the District are deposited into a bank account that is exclusively dedicated for the fees so that they are not comingled with other District funds. The most recent Public Facilities Report was dated September 9, 2020. The District's fees are used solely for facilities and equipment needed for fire and emergency services.

Description of the Type of Fee in the Account

The Amount of the Fee: \$0.902 per square foot of development.

Fee Accounting

The following table summarizes fee accounting and anticipated date of completing work on facilities or equipment included in the plan.

	Fiscal Year 2020/21	
Beginning Balance		\$177,244
Fees Collected		\$24,268
Interest Revenues		\$253
Expenditures:		
Permanent Housing	\$0	
Type 1 Fire Engine	\$0	
Type IV Fire Engine	\$0	
Total Expenditures		\$0
Ending Balance		\$201,765

Other Information

The District did not have any interfund loans, fee refunds, or allocation of fees for other purposes.



Oceano Community Services District

1655 Front Street, P.O. Box 599, Oceano, CA 93475

(805) 481-6730 FAX (805) 481-6836

Date: September 8, 2021

To: Board of Directors

From: Will Clemens, General Manager

Subject: Agenda Item # 7(D): Consideration of a recommendation to approve a proposal and professional services agreement with GSI Water Solutions Inc. to prepare the 2021 Annual Report for the Northern Cities Management Area in the amount of \$38,547 plus contingencies of \$3,276 for a total contract amount of \$41,823.

Recommendation

It is recommended that your Board approve the attached proposal from GSI Water Solutions Inc. to prepare the 2021 Annual Report for the Northern Cities Management Area in the amount of \$38,547 plus contingencies of \$3,276 for a total contract amount of \$41,823 and direct the president to execute a professional services agreement consistent with the 2020 agreement and subject to approval by legal counsel.

Discussion

The preparation of an annual report for the Northern Cities Management Area (NCMA) is required by the Stipulations and Judgment for the Santa Maria Groundwater Basin. The proposal with GSI Water Solutions Inc. (GSI) is consistent with the professional service contract approved for preparation of the 2020 NCMA annual report. GSI was selected to prepare the annual reports as a result of the request for proposals (RFP) process that was conducted by NCMA in 2021, which covered annual reports for a total three-year period (through the 2023 Annual Report).

The following is a summary of work and reporting tasks, consistent with the 2020 scope of work:

<p><u>Work Efforts, including:</u></p> <ul style="list-style-type: none">•Groundwater Monitoring•Groundwater Quality Testing•Groundwater Data Analysis•Groundwater Reporting•Hydrological Data Compilation•Water Demand and Availability Analysis•Project Meetings•Coordination with NMMA on groundwater contours	<p><u>Report Preparation, including:</u></p> <ul style="list-style-type: none">• Summary of 2021 Groundwater Monitoring• Changes in Groundwater Supplies• Threats to the Groundwater Basin• Tabulation of NCMA Water Use• Imported Water Availability and Use• Developed Water Availability and Use• Groundwater Use• SGMA Reporting
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Other Agency Involvement

The Cities of Arroyo Grande, Grover Beach, and Pismo Beach are the other agencies in the Northern Cities Management Area responsible for the preparation of the annual report. Staff of all the NCMA agencies concur on the recommendation to approve the GSI proposal.

Other Financial Considerations

The District's share of the cost is \$38,547 plus contingencies of \$3,276 for a total contract amount of \$41,823. This amount is about \$2,500 less than the cost of the 2020 Annual Report. The allocation of costs between NCMA agencies is based on groundwater allocations. The District's approved budget includes a line-item cost of \$46,000.

Results

Groundwater monitoring, analysis, and reporting are important efforts that provide information necessary for the long-term appropriate management of groundwater. It will lead to improved reliability of drinking water supplies, which promotes health and safety and livable communities. Cooperating with other local agencies promotes well governed communities.

Attachments:

- ✓ GSI Professional Services Proposal

PROPOSAL

2021 Annual Report

Presented to the Northern Cities Management Area Technical Group

AUGUST 2021

Submitted by:

GSI Water Solutions, Inc.
5855 Capistrano Avenue, Suite C
Atascadero, CA 93101
www.gsiws.com
805.460.4622



August 18, 2021

Kendall Stahl, PE
Northern Cities Management Area Technical Group
c/o Water Systems Consulting, Inc.
805 Aerovista Pl. Suite 201
San Luis Obispo, CA 93401

Re: Request for proposals (RFP) – 2021 Annual Report

Dear Ms. Stahl,

GSI Water Solutions, Inc. (GSI), is pleased to submit this proposal to the Northern Cities Management Area (NCMA) Technical Group (TG) for the preparation of the NCMA 2021 Annual Report.

Thorough and accurate quarterly monitoring and annual reporting are essential to meeting the terms of the adjudication of the Santa Maria Groundwater Basin, specifically the 2005 Stipulation requirements. GSI offers the continuity of expertise and personnel to make this happen: The key GSI personnel assigned to this project include **Nate Page**, **Paul Sorensen**, **Tim Nicely**, and **Lee Knudtson**, all of whom have been intimately involved in this work for the past several years. Also, as we have for the last 8 years, we will partner with **Sam Schaefer** of GEI Consultants, Inc. (GEI), to ensure continuity with the same comprehensive team. We will again use BC Laboratories, an Environmental Laboratory Accreditation Program (ELAP)-certified analytical testing laboratory, to perform the laboratory water quality analyses.

This proposal focuses on the scope of work needed to complete quarterly monitoring of the NCMA sentry wells and prepare the 2021 Annual Report.

Thank you for the opportunity to continue working with you and the NCMA TG.

Sincerely,
GSI Water Solutions, Inc.

A handwritten signature in black ink that reads "Paul A. Sorensen".

Paul Sorensen, PG, CHG, CEG
Principal Water Resources Consultant
psorensen@gsiws.com

A handwritten signature in black ink that reads "Nate Page".

Nate Page, PG
Managing Hydrogeologist
npage@gsiws.com

Section 1: Firm Background

About GSI

GSI Water Solutions, Inc. (GSI), was founded in 2000 as a specialized hydrogeology consulting firm. Today, we provide innovative solutions to groundwater, environmental contamination, and water resource problems for clients across California and the Pacific Northwest. We are an employee-owned S corporation with offices in San Luis Obispo and Santa Barbara, California, and Portland, Corvallis, and Bend, Oregon. Our hydrogeologists, geologists, and hydrologists are experts in helping our clients manage their groundwater resources.

Quick Facts: GSI Water Solutions, Inc.	
Year Established	2000
Size	75 employees
Locations	<ul style="list-style-type: none"> • San Luis Obispo, CA • Santa Barbara, CA • Portland, OR • Corvallis, OR • Bend, OR
Groundwater Specialties	Groundwater management, groundwater monitoring and reporting, groundwater supply development, well design, groundwater modeling, aquifer storage and recovery (ASR), well rehabilitation, wellhead protection, and Sustainable Groundwater Management Act (SGMA) support

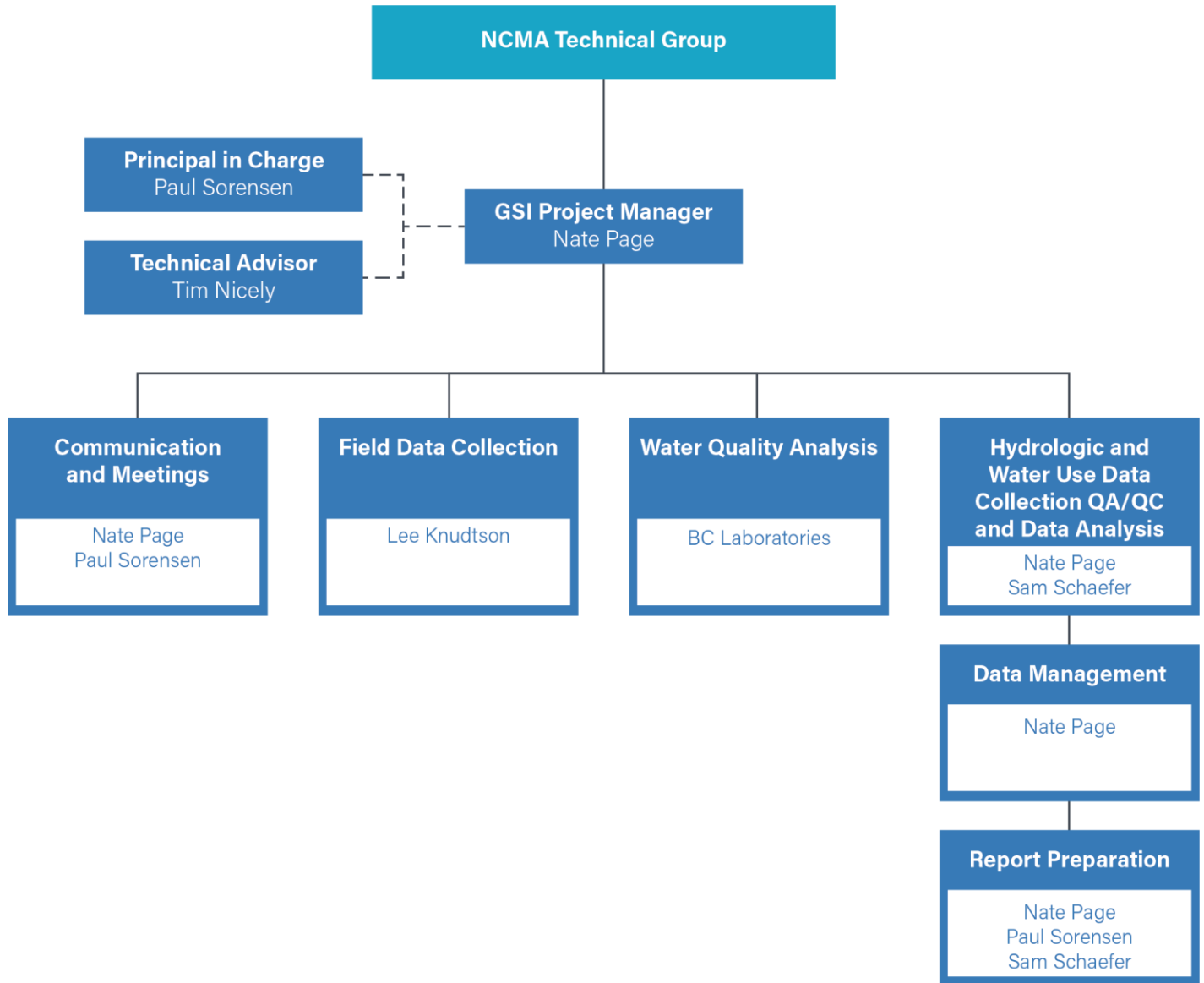
GSI is well-known for the quality and caliber of our work, as evidenced by the amount of repeat business we get from our existing clients. Our experts have worked with the following municipalities and water districts along the Central Coast, among others:

- Calleguas Municipal Water District
- Cambria Community Services District
- City of Arroyo Grande
- City of Morro Bay
- City of Paso Robles
- City of Pismo Beach
- City of Santa Barbara
- County of San Luis Obispo
- Fox Canyon Groundwater Mgmt. Agency
- Goleta Water District
- Kaweah Delta Water Conservation District
- Montecito Water District
- Nipomo Community Services District
- Oceano Community Services District
- Santa Barbara County
- Santa Ynez River Water Conservation District
- Tehachapi-Cummings County Water District
- Templeton Community Services District
- Valencia Water Company
- Ventura County
- Yerba Buena Water Company

About GEI

For this project, we will again team with GEI Consultants, Inc. (GEI). GEI’s services include comprehensive monitoring and assessments for groundwater basin characterization, groundwater banking, conjunctive water use management, and control of seawater intrusion. GEI provides a broad range of technical services and investigations—from evaluation of small, isolated groundwater basins to characterization of large regional groundwater basins, and from locating individual wells to design of wellfields. The company maintains specialized professional services in agricultural water resource planning, engineering, and management and serves as watermaster in the San Gabriel Groundwater Basin. Through its science-based approach, GEI has earned a reputation for delivering high-quality work products. GEI has served several clients in the Central Coast/San Luis Obispo area.

Section 2: Project Team



Section 3: Individual Qualifications and Experience

For this project, we are pleased to present the following team of experts to provide the Northern Cities Management Area (NCMA) Technical Group (TG) with a continuity of personnel and consistency in work quality. These team members have worked together for years to provide NCMA with quarterly monitoring reports and annual reports. Detailed resumes with project examples are included in Appendix A.



Nate Page, PG

Managing Hydrogeologist
(GSI)

EXPERIENCE

14 years

CALIFORNIA REGISTRATIONS

Professional Geologist

Project Manager

Nate has prepared annual monitoring reports and overseen quarterly groundwater sampling and reporting for the NCMA since 2019. A skilled project manager, Nate has expertise in aspects of hydrogeology, hydrology, and geographic information system (GIS) analysis specifically related to groundwater sustainability, groundwater basin analysis, and water resource management. Nate's experience includes Groundwater Sustainability Plan (GSP) development, including assessment of surface water/groundwater interaction and groundwater dependent ecosystems (GDEs), basin-scale water budget development and water quality assessments, and development of sustainable management criteria. Nate is experienced in siting, designing, and overseeing construction of production wells and monitoring wells, designing pumping tests and performing aquifer testing analyses, collection of groundwater and surface water samples, laboratory water quality data quality control analysis, and water quality database management.

For this project, Nate will manage all phases of the work, present quarterly monitoring reports and the court-mandated Annual Report to the NCMA TG, collaborate in data interpretation, and be responsible for meeting all project deadlines.



Paul Sorensen, PG, CHG, CEG

Principal Water Resources
Consultant (GSI)

EXPERIENCE

30+ years

CALIFORNIA REGISTRATIONS

Professional Geologist; Certified Hydrogeologist;
Certified Engineering Geologist

Principal in Charge

Paul has more than 30 years of experience managing projects related to hydrogeology and geology with specific expertise in groundwater supply, basin analysis, and water resource management. His technical expertise includes regional groundwater basin analyses, perennial yield and basin-wide water balance calculations, groundwater quality studies, aquifer test analyses, and water well and monitoring well design and construction. Paul has managed and/or been heavily involved in the development of the NCMA annual reports since 2010. He will continue to support the project as principal in charge, providing oversight and guidance to the project team throughout quarterly monitoring activities and annual report development. He will be responsible for satisfying all technical requirements and making recommendations to the NCMA TG. He also will provide quality assurance/quality control (QA/QC) of quarterly monitoring reports and the Draft and Final Annual Reports.



Tim Nicely, PG, CHG

Supervising Hydrogeologist (GSI)

EXPERIENCE

21 years

CALIFORNIA REGISTRATIONS

Professional Geologist; Certified Hydrogeologist

Technical Advisor

Tim’s expertise includes groundwater supply, groundwater basin analysis, and water resource management. He is experienced in analyzing regional groundwater basins and groundwater quality studies, assessing seawater intrusion, calculating perennial yield and basin water balance components, and designing pumping tests and analyzing data. Tim has provided technical support on the NCMA annual reports since 2010. He will continue to provide as-needed technical support to the project.



Sam Schaefer, PE

Senior Engineer (GEI)

EXPERIENCE

36 years

CALIFORNIA REGISTRATIONS

Professional Engineer

Project Engineer

Sam has 36 years of experience in agricultural, urban, and environmental water resources projects. His expertise includes managing an integrated regional water management plan (IRWMP), developing regional water supply and conjunctive use projects from conception through construction, and securing grant funding. Sam will be responsible for collection and analysis of hydrologic and water use data, including cropping and agricultural water use, and the water supply and recycling sections of the Annual Report.



Lee Knudtson

Staff Hydrologist (GSI)

EXPERIENCE

7 years

Field Lead

Lee provides essential field and technical support for GSI’s groundwater projects. Prior to joining GSI, Lee helped design, plan, and implement numerous groundwater monitoring systems and projects for stakeholders in communities across the country. Lee is experienced in merging groundwater data sets from a variety of sources and developing data analysis methods and tools to produce meaningful information. He has planned and implemented field data collection efforts and is knowledgeable about aquifer characterization, well testing, and numerical groundwater modeling to assist with scenario planning. For the NCMA, Lee conducts sampling and monitoring of key sentry wells to assess potential seawater intrusion, provides data analysis and technical support, and assists in preparing the quarterly and annual reports. He will continue to serve in this role.



Recent Project Examples

Local knowledge and experience working in the Santa Maria Groundwater Basin (SMGB) are essential to providing efficient data analysis and reporting. Our key team members have performed numerous investigations throughout this high-priority basin for more than 20 years. The following projects are representative examples of recent related projects that our team has completed:

Annual Report Preparation

NCMA TG (Cities of Arroyo Grande, Grover Beach, and Pismo Beach, and Oceano CSD), California

Since 2016, GSI has managed the preparation and submittal of court-mandated Annual Reports on behalf of the NCMA TG. Principal-in-charge Paul Sorensen has supported this work since 2010, prior to joining GSI, as has project engineer Sam Schaefer. Nate Page has supported this work since 2017 and assumed the role of lead author on the Annual Report in 2019.

The work includes participation in monthly TG meetings, quarterly water level and water quality monitoring of the sentry well system to assess potential incipient seawater intrusion, groundwater level and groundwater quality database management, annual assessment of water supply demand and availability, and preparation of quarterly monitoring reports and the Annual Report.

GSI has also provided litigation support to the NCMA and has participated in annual collaborative groundwater contouring of the NCMA and Nipomo Mesa Management Area portions of the Santa Maria Groundwater Basin.

Contract amount: Costs have ranged from \$170,000–\$194,000 annually

Completion date: Aug. 2021 (for the 2020 Annual Report)

Client contact: NCMA Technical Group, c/o Kendall Stahl, PE, Water Systems Consulting, Inc. (WSC), 805.457.8833 ext. 120



Hydrogeologic Study of the Avila Valley Subbasin

County of San Luis Obispo, California

GSI completed a hydrogeologic basin study of the Avila Valley Subbasin in support of the Avila Community Plan Update and associated Environmental Impact Report. The work included analyzing the subbasin's existing water supply sources (imported surface water and local groundwater) and facilities, developing a summary of projected future water demand, and evaluating the ability to meet these projected demands. This study also identified and discussed feasible mitigation measures that may be included in the Community Plan Update to minimize potential effects related to future groundwater availability.

Contract amount: \$21,999

Completion date: Oct. 2020

Client contact: Sarah Howland, MCRP, Rincon Consultants, Inc., 805.242.0668

San Luis Obispo Valley Basin Characterization County of San Luis Obispo, California

GSI conducted the groundwater basin characterization that served as the hydrogeologic foundation for the basin's Groundwater Sustainability Plan (GSP) and the basis for the development of a groundwater model. The work effort included compilation of available hydrogeologic data and developing a comprehensive database, analysis of geologic data, aquifer tests, streamflow infiltration, enhanced recharge areas, and monitoring well installation.

Contract amount: \$222,500

Completion date: Dec. 2017

Client contact: Dick Tzou, Water Resources Engineer, San Luis Obispo County, 805.781.4473

Subsequent to this basin characterization study, GSI developed a groundwater model and has been part of the consulting team hired to prepare the San Luis Obispo Valley Basin GSP.

Santa Maria Groundwater Basin Fringe Area Characterization and Basin Boundary Modification County of San Luis Obispo, California

GSI characterized the fringe areas of the Santa Maria Groundwater Basin and subsequently prepared a successful Basin Boundary Modification Request (BBMR). The project involved the hydrogeologic characterization of five geographically distinct areas within the basin boundaries defined by the DWR, but were not included in the adjudicated basin area and thus are subject to SGMA management requirements. For each fringe area, GSI generated calculations of groundwater flow direction, Darcy groundwater flow quantities, well construction details, aquifer test results, and irrigated acreage. GSI developed geologic cross sections to understand the extent of hydraulic communication between the fringe areas and the adjudicated basin. Based on the results of the characterization, a basin boundary modification request was prepared for submission to DWR.

Contract amount: \$250,000

Completion date: May 2018

Client contact: Dick Tzou, Water Resources Engineer, San Luis Obispo County, 805.781.4473

Paso Robles Subbasin Annual Report Preparation City of Paso Robles, California

GSI manages the completion and submittal of the Paso Robles Subbasin annual reports that are required under SGMA. Work includes compiling and analyzing data, including groundwater elevation, groundwater extractions and use, surface water supply use, total water use, change in groundwater storage, and precipitation. GSI evaluates these data to assess the progress that the basin Groundwater Sustainability Agencies (GSAs) and various stakeholders are making towards the ultimate goal of basin sustainability. The results of the data analysis are compared with the goals of the GSP implementation plan and then described in the annual report to demonstrate to DWR the efforts of the GSAs and the effectiveness of GSP implementation.

Contract amount: \$80,875 (for the 2020 Annual Report)

Completion date: Mar. 2021 (for the 2020 Annual Report)

Client contact: Christopher Alakel, Interim Public Works Director, City of Paso Robles. 805.237.3861

Technical Advisory Review of Hydrogeologic Evaluation City of Pismo Beach, WSC, and South San Luis Obispo County Sanitation District, California

GSI conducted a technical review of the Groundwater Model Development for the Phase 1B Hydrogeologic Evaluation of the Regional Groundwater Sustainability Project. GSI worked directly with stakeholders, clients, and the groundwater flow modeling consultant to provide input and feedback during the initial data assessment, development of the conceptual model, model calibration, predictive scenarios, and review the administrative draft and draft modeling reports.

Contract amount: \$58,041

Completion date: September 2020

Client contact: Benjamin Fine, PE, Director of Public Works/City Engineer, City of Pismo Beach, 805.773.7937

Santa Maria Groundwater Basin (SMGB) Characterization Study San Luis Obispo County Flood Control and Water Conservation District, California

While at a prior firm, Paul was the project manager for the SMGB characterization effort that provides a foundation for future SGMA reporting, development of a numerical model, and eventual preparation of a Salt and Nutrient Management Plan. The work effort included preparation of geologic cross sections, performance of aquifer tests, streamflow infiltration analysis, enhanced recharge area investigations, assessment of seawater intrusion potential, and transducer installation in seawater intrusion sentry wells. The study was an important component of the IRWMP update and represents the most detailed and extensive data compilation of water well information and assessment of aquifer conditions of the basin.

Contract amount: \$203,000

Completion date: 2015

Client contact: Ray Dienzo, Water Resources Program Manager
County of San Luis Obispo, Public Works Dept., 805.788.2110



Section 4: Statement of Understanding and Scope of Work

Statement of Understanding

The NCMA is one of three management areas in the adjudicated SMGB. It is subject to several agreements and orders, including a Settlement Agreement (2002), Stipulation (2005), and Judgment After Trial (2008).

One of the obligations of the 2005 Stipulation requires the NCMA to produce an Annual Report. Per the stipulation, the report must summarize results of the NCMA's groundwater monitoring program, document changes in groundwater supplies, and identify threats to the groundwater resource. The report also must include a tabulation of area-wide water availability and use by documenting quantities of imported water, return flow entitlement and use, availability and use of other developed water, and groundwater extractions.

Several of our project team members (Paul, Tim, and Sam) have been working on these reports since 2010. After Paul and Tim joined GSI in 2016 and 2015 respectively, they continued this work at GSI. In more recent years, Nate has moved into the project manager role and Lee has led field efforts. We are proposing the same team of experienced professionals to bring a familiarity and efficiency to the process that allows us to continue our established procedures for gathering and managing data, preparing the quarterly monitoring reports and annual reports, and providing technical expertise to the TG. At the same time, the GSI team is committed to continue looking for ways to improve data collection and analysis and will engage the TG regularly to ensure the ongoing collection and reporting of meaningful data.

Conflict of Interest

No member of the GSI team represents any party in the adjudication of the SMGB. There is no conflict of interest.

Approach to Project Management

The GSI team will provide the same approach to project management that the NCMA TG has come to expect during the past 5 years. In approaching this project, we apply our combined understanding of the tasks, extensive experience working in the region, technical expertise, and awareness of the broader context of water supply and environmental protection needs.

The GSI team understands the importance of the thorough preparation and on-time delivery of the Annual Report. Given the depth of our team, we are confident that we are able to commit resources to accomplish all tasks in a timely manner and deliver accurate data and a meaningful analysis that meet the NCMA TG's needs. In the past 5 years, we have met every deliverable on time and completed the work under the contracted budget every year.

GSI's proven project management approach is built on clear and frequent communication with our clients. As such, the team will maintain close communications with the NCMA project manager through regular calls and check-ins. We have been fortunate to develop a close working relationship with Dan Heimel and Kendall Stahl, the NCMA staff extension personnel at WSC, and fully intend to continue that rapport to maximize the benefit to the TG. Should any issues arise, we will bring them to the NCMA project manager's attention and focus on finding an expedient solution.

The GSI team offers:

High-caliber local expertise. Key team members have performed numerous investigations throughout SMGB for more than 20 years. We use this deep institutional knowledge to help us evaluate the data and develop conclusions and recommendations based on our local knowledge.

Quality control. We stake our reputation on the quality of our work. We rely on rigorous QA/QC procedures, including principal-level oversight and approval of all work products, to ensure meaningful, accurate, and reliable data collection and reporting.

Timely results. We will work with BC Laboratories, the same ELAP-certified laboratory we used in the past, to analyze water quality samples in a timely manner.

Data protection. Just as we have in the past, our key team members will use our existing systems to store and backup data to prevent against unforeseen circumstances.

Scope of Work

The following scope of work is based on the requirements in the 2021 Annual Report Request for Proposals (RFP), as well as our experience preparing the Annual Reports and associated quarterly monitoring reports since 2010. Additionally, we are drawing on our work in other areas of the SMGB and our years of experience conducting similar work for our clients.

Task 1.1: NCMA Groundwater Monitoring and Report Schedule

The current contract for technical services related to the 2020 Annual Report will terminate on August 31, 2021. Assuming a Notice to Proceed (NTP) and authorization of the 2021 Annual Report project will be issued on or before September 6, 2021, we will provide a detailed schedule of all tasks, anticipated meetings, and report preparation efforts within 14 days. We have included a general schedule later in this proposal; a final schedule will be prepared and submitted in mid-September.

Task 1.2: Meetings

The NCMA TG holds monthly meetings to share data and results and foster collaboration. Nate Page, GSI's project manager, will generally participate in the regularly scheduled meetings; Paul Sorensen will also attend most meetings and will attend in lieu of Nate if unavoidable conflicts arise. Nate and/or Paul will also participate in the SMGB Management Area Technical Subcommittee Meetings, NCMA Annual Report Draft Review Meetings, as well as any other coordination meetings. As needed, Nate and/or Paul will work with the NCMA project manager to prepare agenda items, post meeting summaries, and follow up on action items. Tim Nicely and Sam Schaefer will participate in various meetings throughout the year when specifically beneficial to the project.

Task 1.3: NCMA Groundwater Monitoring and Water Quality Sampling

The NCMA is responsible for the collection of groundwater level measurements and water quality information from the NCMA monitoring network. The GSI team will complete four rounds of water level monitoring and water quality testing. The monitoring and testing will occur quarterly (October 2021, January 2022, April 2022, and July 2022) in coordination with the County of San Luis Obispo's semiannual groundwater monitoring cycle and the NCMA municipalities' historical groundwater monitoring schedule. We have conducted this work for the past 11 years and are thoroughly familiar with the process and procedures (and, perhaps more importantly, the potential problems and pitfalls).

During each sampling event, we will collect groundwater depth measurements in accordance with American Society for Testing and Materials (ASTM) Standard D4750-87, and groundwater quality samples in accordance with ASTM standard D4448-1. We will use a variety of methods, including low-flow methods in the case of the Oceano CSD monitoring wells. For each quarterly sampling event, field personnel will:

- Coordinate with BC Laboratories for delivery of sample bottles and arrange for a courier to ensure timely delivery of the samples to the laboratory.
- Collect synoptic field measurements of depth to water (in accordance with ASTM Standard D4750-87) from all 16 monitoring wells including:
 - 32S/12E-24B01 through -24B03 (North Beach Campground)
 - 32S/13E-30F01 through -30F03 (Highway 1)
 - 32S/13E-30N01 through -30N03 (Pier Avenue)
 - 12N/23W-36L01 and -36L02 (Oceano Dunes)
 - Four Oceano CSD monitoring wells
 - 12N/35W-32C03 (County Monitoring Well #3)

- Collect representative groundwater quality samples from each of the 16 monitoring wells at 6 sites for the constituents listed in the RFP (note that the three shallow sentry wells—24B01, 30F01, and 30N01—are sampled for water quality during the second and fourth quarters only).

We will conduct sampling events as we have done previously. We will perform the sampling of the wells using a combination of ISCO-type peristaltic pumps and a Grundfos RediFlo2 electric submersible pump as appropriate for each well. Each well will be purged in accordance with ASTM D4448-1 until clear water is produced and field-measured water quality parameters stabilize. Then we will collect samples in containers with appropriate preservatives, place them in iced coolers immediately following collection, and maintain them at the appropriate temperature for transportation to BC Laboratories. We will complete chain-of-custody documentation for all samples.

As part of our standard QA/QC procedures, we will review data collected from the field and laboratory reports. We will red-flag and address any data not in compliance with ASTM standards for accuracy or reliability and collect new data as necessary. We will enter all data that satisfies our QA/QC procedures into the NCMA groundwater database. The data also will be evaluated by the GSI team (as discussed in Task 1.4) and compiled into a quarterly monitoring report for submittal to the TG.

Transducers that measure pressure (water level), temperature, and electrical conductivity are installed in several wells, including:

- 32S/12E-24B03 (North Beach Campground deep well)
- 32S/13E-30F03 (Highway 1 deep well)
- 32S/13E-30N02 (Pier Avenue deep well)
- 12N/23W-36L01 (Oceano Dunes middle well)
- 12N/23W-36L02 (Oceano Dunes deep well)
- 12N/35W-32C03 (County Monitoring Well #3)

Data from these transducers will be downloaded during quarterly monitoring. The transducers will be calibrated and cleaned as needed, the data compensated for atmospheric pressure variation, and then referenced to the project elevation model. These data will be subjected to QA/QC procedures, then entered in the NCMA database.

Task 1.4: NCMA Groundwater Data Analysis

GSI team members will follow the same procedures and methodologies for data analysis that have been performed for the past 11 years. We will compile and review all data from quarterly groundwater measurements and laboratory analysis, as well as any applicable data collected by the County of San Luis Obispo. We also will collect and compile any data available from the NCMA agencies related to groundwater levels, well production, and water quality. The data will be evaluated and indications of potential hazards (such as well interference, water quality degradation, and seawater intrusion) will be identified. We will interpret data and will calculate and provide historical context of the Deep Well Index.

We will continue the collaborative efforts with the Nipomo Mesa Management Area (NMMA) TG to use basin-wide water level data (north of the Santa Maria River) to generate hydrographs and groundwater contour maps for the Annual Report displaying spring and fall conditions.

Representative plots of historical water quality time-series data for key constituents will be generated at wells with adequate control to show changes over time in mineral concentrations for those constituents, with special attention paid to coastal wells. The water quality data will be compiled, analyzed, and presented in various ways (time concentration plots and Piper [trilinear] diagrams).

We will summarize all of the data and document the analysis in the quarterly monitoring reports sent to the NCMA TG within 5 weeks of the end of each quarterly monitoring event, and all of the data for the calendar year 2021 will be summarized in the Annual Report.

Task 1.5: Hydrologic Data Compilation

Several sets of hydrologic data are essential for preparation of the Annual Report. We will use the methodology that we modified and adopted in 2015, which improved our understanding of and confidence in the rainfall and evapotranspiration data, and which subsequently improved our ability to calculate an agricultural irrigation applied water estimate. Although we have been working on these Annual Reports for many years, we continue to look for ways to improve upon our data sources and methodology to create better or more efficient analysis. If we identify areas of improvement, we will consult with the NCMA project manager and either incorporate those improvements directly in our work or suggest the changes for subsequent Annual Reports, as appropriate.

Task 1.6: NCMA Water Demand and Availability Analysis

We will prepare a detailed analysis of water production, delivery, and availability within the NCMA. The data collection and analysis methodologies will be sufficient to determine land and water uses in the NCMA, sources of supply to meet those uses, groundwater availability, the amount and disposition of developed water supplies, and the amount and disposition of any other water supply sources within the NCMA. The approach and tabulation of results will be included in the Annual Report.

For preparation of the 2021 Annual Report, we intend to generally follow the established method that we have developed during the past several years for the NCMA monitoring program. In April 2016, however (for the 2015 Annual Report), we modified the approach to calculate applied irrigation for agricultural demand by developing a rigorous model using the Integrated Water Flow Model Demand Calculator (IDC). We believe that this methodology is much more representative of actual conditions because it accounts for specific climate conditions for the given year, soil properties specific to the area of interest, and the resulting spatial variation in evapotranspiration.

The NCMA has three major sources of water supply, which will be discussed and quantified in the 2021 Annual Report:

- **Lopez Reservoir.** All four municipalities in the NCMA receive water from Lopez Reservoir. We will compile data on the volume of the reservoir deliveries for each municipality and enter the data into the NCMA database.
- **State Water Project (SWP).** The City of Pismo Beach and Oceano CSD receive water from the SWP. Data on the volume of water delivered to these municipalities will be compiled in the NCMA database.
- **Groundwater.** NCMA records groundwater pumping data by location and volume. Non-urban domestic and agricultural groundwater pumping is estimated. These data will be compiled in the NCMA database.

Threats to Water Supply

Identified threats to NCMA's water supply include statewide and local drought, potential reduction in amounts or reliability of SWP deliveries, the potential for declining water in Lopez Reservoir caused by drought, and seawater intrusion.

Several factors can affect availability and quality of water supplies. To understand the threats, we will track several factors and incorporate the potential threats, as appropriate:

- Local environmental issues
- Groundwater production and pumping in the NMMA, with resultant implications to subsurface inflow into the NCMA
- Phased importation of supplemental supplies into the NMMA
- Land use changes

Task 1.7: 2021 NCMA Annual Report Preparation

Our first task related to the Annual Report preparation will be to prepare a schedule that details the monitoring events, meetings, report drafts, and final report submittal (as previously described in Task 1.1 of this proposal). This schedule will be submitted to the TG within 14 days of receiving the notice to proceed. Within 6 weeks of the NTP, we will prepare a draft outline of the 2021 Annual Report and submit it to the NCMA TG and the water rights counsel.

Building on our experience during the past 11 years, GSI will prepare an Administrative Draft Annual Report for the NCMA TG. The report will be based on data collected and analysis performed as described above, other data that may become available, and ongoing discussions with the NCMA TG and the NCMA project manager. The general outline of the Annual Report is expected to be:

- Executive Summary
- Introduction
- Basin Setting
 - Precipitation
 - Evapotranspiration
 - Geology and Hydrogeology
 - Groundwater Flow
- Groundwater Conditions
 - Groundwater Levels
 - Change in Groundwater in Storage
 - Water Quality
- Water Supply and Production/Delivery
 - Water Supply
 - Water Use
- Comparison of Water Supply v. Water Production
- Threats to Water Supply
- Management Activities

SGMA added a requirement to calculate change in groundwater in storage, effective with the submittal of the 2016 Annual Report. We will likely follow the same methodology used in the 2020 Annual Report, in which we analyzed water levels in the Alluvial Aquifer (occurring within the Cienega Valley) separately from water levels in the Deep Aquifer (consisting of the Paso Robles Formation and the Careaga Sandstone). As the project progresses, we will continue to assess whether there are any additional data available and whether the calculation methodology can be improved (such as through use of the evolving Phase 1B groundwater flow model).

We recognize that other related information may be important to the NCMA TG, and we will incorporate additional information as appropriate.

We will send an electronic copy of the Administrative Draft Annual Report to the NCMA municipalities and water rights counsel at least 12 weeks before the submittal date of the Final Annual Report. All comments on the Administrative Draft will be noted and incorporated into the Draft Annual Report. In addition, a version with tracked changes will be provided to the TG to show the revisions that were made.

GSI will send an electronic copy of the Draft Annual Report to the NCMA TG 6 weeks before the submittal date of the Final Annual Report. As with the Administrative Draft Annual Report, we will compile all comments and incorporate them into the Final Annual Report. In addition, we will provide a version with tracked changes to the TG to show the modifications that were made.

Before April 29, 2022 (April 30 is a Saturday), we will deliver an electronic copy of the Final 2021 Annual Report to the NCMA TG and the water rights counsel. The water rights counsel then will be responsible for submitting the Annual Report to the Court.

Task 1.8: SGMA Report Preparation and Submittal

The RFP did not include this task; however, it is a necessary component of the annual reporting process, so we have included it both here and in the fee estimate. New in 2016 was an obligation to submit an online report and attendant data pursuant to the requirements of SGMA. As discussed earlier, the most significant impact that this requirement has on the normal NCMA reporting process is the need to calculate change in groundwater in storage. Additionally, the deadline for SGMA reporting is April 1 of each year, which is a full month earlier than the deadline to submit the Annual Report. We will take into account the SGMA reporting deadline when compiling and analyzing the Annual Report data. We will be responsible for submitting the data and complying with the SGMA reporting process by March 30, 2022, through the DWR website.

Section 5: Schedule

Meeting the NCMA's schedule is a top priority for the GSI team. We have met every deadline in every year that we have worked with the NCMA TG and we will continue that punctuality as we move forward. We will adhere strictly to the schedule outlined in the RFP through close management of the team and communication and coordination with the NCMA project manager, NCMA members, and the County of San Luis Obispo. Should any schedule deviation occur, the GSI team will address it immediately and convey a solution to the NCMA project manager.

A general schedule is outlined below. We will provide a more detailed schedule of all tasks, anticipated meetings, and report preparation efforts within 14 days of the NTP, and we will prepare and submit a detailed report outline within 6 weeks of the NTP.

Event	Milestone/Work Product	Anticipated Date(s)
Notice to Proceed		Sept. 6, 2021
TG Meetings		Every 2 nd Monday of the month
Submittal to TG Committee	Detailed project schedule	Sept. 20, 2021
Submittal to TG Committee	Detailed draft report outline	Oct. 18, 2021
Groundwater Monitoring and Sampling Events	Data collection	Oct. 5–7, 2021
	Q4 report	Nov. 11, 2021
	Data collection	Jan. 4–6, 2022
	Q1 report	Feb. 10, 2022
	Data collection	Apr. 5–7, 2022
	Q2 report	May 12, 2022
	Data collection	July 5–7, 2022
	Q3 report	Aug. 11, 2022
NMAA and SMVWA coordination		TBD
Draft Water Level Contour Maps to TG	April 2021 and October 2021 water level contour maps	Jan. 3, 2022
Administrative Draft Annual Report	Admin. Draft to TG and water rights counsel	Feb. 4, 2022
	Comments back from TG	Feb. 25, 2022
Draft Annual Report	Draft to TG	Mar. 18, 2022
	Comments back from TG	Apr. 1, 2022
SGMA Report	Submit online SGMA report to DWR	Mar. 31, 2022
Final Annual Report	Final Annual Report submitted to TG and water rights counsel	Apr. 29, 2022

Section 6: Fee Proposal

We will provide the services described above on a time and materials basis, with a **not-to-exceed base project fee of \$183,555**. The 2021 Annual Report project fee is approximately \$10,000 less than the 2020 Annual Report fee estimate, which reflects finishing the 2020 Annual Report under budget as well as cost savings through increased efficiencies of the work assignments.

For the 2016 through 2020 Annual Report projects, the NCMA agencies opted to include an 8–10% technical contingency fee in addition to the base cost of the project work. These potential fees, which will only be charged if directly requested and authorized by the TG, cover out-of-scope fees such as transducer replacement, unexpected and extra consultation related to the adjudication litigation, and any additional requested hydrogeologic investigations and analyses. For 2021, we have suggested a technical contingency fee of \$15,600 (slightly less than 9% of base project fee). **The total project cost, including base project fee of \$183,555 plus technical contingency fee of \$15,600, will not exceed \$199,155.**

Please also note that, as mentioned earlier, Task 1.8 was not specified in the RFP as a required component of the work. If it is not to be included as a required task, then the total estimated fee is reduced by \$7,400.

The following tables provide a cost breakdown by task, as well as details about associated expenses and the hourly rates and estimated hours for each team member. Further detail about our proposed fee is available upon request.

Description	GSI Labor	GEI Labor	Expenses	Total
Task 1.1: Groundwater Monitoring and Report Schedule	\$630	-	-	\$630
Task 1.2: Meetings	\$33,500	\$3,172	\$1,258	\$37,930
Task 1.3: Groundwater Monitoring and Water Quality Sampling	\$37,300	-	\$27,339	\$64,639
Task 1.4: Groundwater Data Analysis	\$15,740	-	-	\$15,740
Task 1.5: Hydrologic Data Compilation	\$3,570	\$6,912	-	\$10,482
Task 1.6: Water Demand and Availability Analysis	\$11,880	\$5,778	-	\$17,658
Task 1.7: Annual Report Preparation	\$26,810	\$2,266	-	\$29,076
Task 1.8: SGMA Report Preparation and Submittal	\$7,400	-	-	\$7,400
Subtotal	\$136,830	\$18,128	\$28,597	\$183,555
Technical Contingency Fee				\$15,600
Total Project Cost				\$199,155

Expense Details Per Task				
Task	Expenses	Rate	Quantity	Total
Task 1.2	Mileage	\$0.58/mile	2169	\$1,258
Task 1.3	Water Quality Analysis	\$4,500/event	4	\$19,800 (includes 10% markup)
	Truck	\$150/day	12	\$1,800
	Generator and Pump Rental	\$800/event	4	\$3,519 (includes 10% markup)
	Field Crew per diem	\$185/day	12	\$2,220
<i>Note: No other tasks have associated expenses.</i>				Total: \$28,597

GSI Labor Classification	Rate	Total Est. Labor Hours
Principal (Paul Sorensen, Principal in Charge)	\$280	103
Supervising (Tim Nicely, Technical Advisor)	\$240	35
Managing (Nate Page, Project Manager)	\$175	284
Staff (Lee Knudtson, Field Lead)	\$130	356
Technical Editing	\$130	21
Administration	\$110	8

The cost of the work will be prorated among the NCMA group pursuant to the normal cost sharing agreement based on the fraction of groundwater allocation. The pro-rata basis for project fee cost-sharing is shown below:

	Base Project Fee	Contingency Fee	Total Project Fee (incl. contingency)	Fraction
Arroyo Grande	\$56,902	\$4,836	\$61,738	0.31
Grover Beach	\$58,737	\$4,992	\$63,729	0.32
Oceano CSD	\$38,547	\$3,276	\$41,823	0.21
Pismo Beach	\$29,369	\$2,496	\$31,865	0.16
Total	\$183,555	\$15,600	\$199,155	1.00

Optional Task: Preparation of the 2022 and 2023 NCMA Annual Reports

As specified in the RFP, the proposal shall include an optional scope, schedule, and fee to prepare the 2022 and 2023 Annual Reports. We appreciate the potential opportunity to continue to provide groundwater monitoring, water quality analysis, preparation of quarterly monitoring reports, preparation of the Annual Report, and submittal of the SGMA reporting requirements to DWR, as well as to provide technical support services for the preparation of these future reports. We propose to use the approach outlined in Tasks 1.1 through 1.8 above. We will review each specific task description with the NCMA project manager and the TG in June of each subsequent year to incorporate any changes that would improve the quality of the evaluations or the efficiency of the process. For planning purposes, we expect the level of effort in subsequent years will be roughly equivalent to the current effort proposed for the 2021 Annual Report, plus any nominal cost-of-living increase as reflected in our fee schedule.

We estimate that the base project fee to prepare the 2022 Annual Report will be \$189,070. We estimate that the base project fee to prepare the 2023 Annual Report will be \$196,650.

APPENDIX A Resumes



Nate Page, PG *Managing Hydrogeologist*



EDUCATION

MS, Hydrogeophysics,
Colorado State University

BS, Geology, St. Lawrence
University

PROFESSIONAL REGISTRATIONS

Professional Geologist
(California and Utah)

SAFETY TRAINING

Member of GSI Safety
Committee

First Aid/CPR/AED

DISTINGUISHING QUALIFICATIONS

- ✓ Groundwater sustainability and water resource management
- ✓ Groundwater basin analyses
- ✓ Surface water/groundwater interaction and GDE studies
- ✓ SGMA studies and GSP development
- ✓ Aquifer testing and analysis
- ✓ GIS spatial analysis including NDVI
- ✓ 3D modeling and groundwater model grid development in Leapfrog 3D®

Nate has 14 years of experience working with clients to manage water resources. His expertise includes aspects of hydrogeology, hydrology, and geographic information system (GIS) analysis, specifically related to groundwater sustainability, groundwater basin analysis, and water resource management. Nate's experience includes Sustainable Groundwater Management Act (SGMA) studies and Groundwater Sustainability Plan (GSP) development, including assessment of surface water/groundwater interaction and groundwater dependent ecosystems (GDE), basin-scale water budget development and water quality assessments, and development of sustainable management criteria. Nate has experience in groundwater recharge studies, including managed aquifer recharge, aquifer storage and recovery (ASR) and indirect potable reuse (IPR). Nate is versed in siting, designing, and overseeing construction of production wells and monitoring wells, designing pumping tests and performing aquifer testing analyses, collection of groundwater and surface water samples, laboratory water quality data quality control analysis, and water quality database management. Nate also has experience assessing seawater intrusion and desalination intake options. He has written or co-authored several technical memorandums, reports, basin studies, GSP chapters, salt and nutrient management plans, and National Environmental Policy Act (NEPA) Affected Environments and Environmental Consequences sections for Environmental Assessment (EA) and Environmental Impact Statement (EIS) documents. Nate also has experience in land surveying, GIS spatial analysis, including Normalized Difference Vegetation Index (NDVI) analyses to inform vegetative water demand, and 3-D geologic modeling, groundwater model grid development, and 3D point cloud modeling using Leapfrog 3D®.

REPRESENTATIVE PROJECTS

Northern Cities Management Area Annual Monitoring Report, Cities of Arroyo Grande, Grover Beach, and Pismo Beach, and Oceano Community Services District, California. Nate has prepared annual monitoring reports and overseen quarterly groundwater sampling and reporting for the Northern Cities Management Area (NCMA) technical group. The annual reports are prepared pursuant to the requirements of the Stipulation and Judgment After Trial for the Santa Maria Groundwater Basin Adjudication. The Annual Report provides an assessment of hydrologic conditions for the NCMA based on data collected during the calendar year of record.

Hydrogeology Study in Support of the Avila Community Plan Update and Associated Environmental Impact Report, Avila Valley Subbasin, San Luis Obispo County, California. Nate was the lead analyst and author for this hydrogeologic basin study, which included analysis of existing water supply sources and facilities, including imported surface water and local groundwater; a summary of projected future water demand; and an evaluation of the ability to meet these projected demands. This study also identified and discusses feasible mitigation measures that may be included in the project to minimize potential effects related to future groundwater availability. Environmental water demands for steelhead and other sensitive species were considered in the analysis.

Fringe Area Basin Characterization, San Luis Obispo County Flood Control and Water Conservation District, San Luis Obispo County, California. Nate was part of the project team that characterized the fringe areas of the Santa Maria Groundwater Basin. The project involved the hydrogeologic characterization of five geographically distinct areas that are within the basin boundaries defined by the DWR, but were not included in the adjudicated basin area and thus are subject to SGMA management requirements. For each fringe area, GSI generated calculations of groundwater flow direction, Darcy groundwater flow quantities, well construction details, aquifer test results, and irrigated acreage. GSI developed geologic cross sections to understand the extent of hydraulic communication between the fringe areas and the adjudicated basin. Based on the results of the characterization, a basin boundary modification request was prepared for submission to DWR.

Staff Extension Services and Hydrogeologic Expertise and Input to the Paso Robles Basin GSP, Shandon-San Juan Water District (SSJWD) and Estrella-El Pomar-Creston Water District (EPCWD), San Luis Obispo County, California. Nate has assisted with GSI's role as technical expert in support of the preparation of a basinwide GSP on behalf of the two agricultural water districts in the Paso Robles Basin (Basin). GSI staff acted as an extension of staff for the SSJWD, which is one of four GSAs in the Basin, representing the district in a working group of staff members from the four GSAs that provides guidance to the GSP consultant team regarding the development of the GSP. GSI's role as SSJWD staff extension and hydrogeological expert support is continuing into the current GSP implementation phase, with a primary initial focus on expansion of the groundwater monitoring network.

Nate Page, PG *Managing Hydrogeologist*

GSP Annual Reports, Paso Robles Basin GSP, San Luis Obispo County, California. Nate has been lead analyst and author of the first two annual reports for the Paso Robles Basin GSP. The annual reports provide an overview of groundwater extractions, surface water use, groundwater elevation trends, change of groundwater in storage, and progress towards Basin sustainability which occurred over the prior water year. These reports are required by SGMA.

GSP Development, Atascadero Subbasin, Atascadero, California. Nate is the lead analyst and author for GSI's effort to develop the groundwater sustainability plan (GSP) for the Atascadero Subbasin. The GSP development is a coordinated effort with GEI Consultants, with GSI being responsible for authoring the basin setting/hydrogeologic conceptual model, groundwater conditions, water budget, and monitoring network sections.

GSP Development, San Luis Obispo Basin, San Luis Obispo, California. Nate is part of the project team supporting the development of the groundwater sustainability plan (GSP) for the San Luis Obispo Basin. The GSP development is a coordinated effort with Water Systems Consultants. Nate has generated a 3D geological model of the Basin and is assisting in development of the basin groundwater model. Nate also performed groundwater elevation analyses in support of the basin GDE assessment.

Groundwater Basin Boundary Modification, Heritage Ranch Community Services District, Lake Nacimiento, California. Nate lead the preparation of a successful basin boundary modification request to exclude Heritage Ranch Community Services District from the Paso Robles Basin based on scientific external boundary modification. The modification request included preparation of a technical report, correspondence and meetings with DWR staff, and preparation of addendum materials.

Santa Maria Groundwater Basin Fringe Area Boundary Modification, County of San Luis Obispo, California. Nate was part of the project team that completed characterization of five fringe areas in the Santa Maria Groundwater Basin to determine whether San Luis Obispo County should pursue SGMA basin boundary modification process with the California Department of Water Resources (DWR).

GSP Development, Santa Ynez River Valley Groundwater Basin, Eastern Management Area (EMA), Santa Barbara County, California. Nate is a member of the team providing SGMA support services and preparing the GSP for the EMA of the Santa Ynez River Valley Groundwater Basin. Nate has contributed significantly to the basin water budget development, working in close partnership with the groundwater model development team, completed the GDE analysis and assisted in development of sustainable management criteria. Nate has also completed a 3-D geologic model of the EMA for visualization purposes and for use as grid input to the basin groundwater model.

GSP Development, San Antonio Creek Valley Groundwater Basin, Santa Barbara County, California. Nate is a member of the team providing SGMA support services and preparing the GSP for the San Antonio Creek Valley Groundwater Basin. Nate has contributed significantly to the basin water budget development, completed the GDE analysis and assisted in development of sustainable management criteria. NDVI was used to assess historical health of the Barka Slough (a sensitive GDE wetland area) and to develop related sustainable management criteria.

SGMA Support Services and GSP Development, Mid-Kaweah Groundwater Sustainability Agency (GSA), Tulare, California. As a sub-consultant to GEI Consultants, GSI provided SGMA support services and helped prepare sections of the GSPs for the Kaweah Subbasin GSAs. Nate provided hydrogeologic support for the effort, which included coordination with and outreach to other GSAs in the Kaweah Subbasin to develop a framework for agreement regarding data and analysis techniques for assessing groundwater elevation, groundwater extraction, surface water supply, total water use, change in storage, water budget, and sustainable yield. GSI identified data needed for SGMA GSP compliance, provided additional data collection, and performed subbasin-wide groundwater modeling services to provide predictive scenarios and future water budgets. GSI then conducted a sustainability analysis, consisting of a basin characterization, water budget, and identification of strategies for achieving groundwater sustainability.

San Luis Obispo Basin Characterization, County of San Luis Obispo, California. Nate was part of the project team that collected and summarized all available geologic and hydrogeologic data describing the San Luis Obispo Valley Groundwater Basin. GSI generated cross sections, hydrographs, and water level maps, and summarized all aquifer test data available from stakeholders.

Paul Sorensen, PG, CEG, CHG Principal Water Resources Consultant



Paul has more than 30 years of experience managing projects related to hydrogeology and geology with specific expertise in groundwater supply, basin analysis, and water resource management. His technical expertise includes regional groundwater basin analyses, perennial yield and basin-wide water balance calculations, groundwater quality studies, aquifer test analyses, and water well and monitoring well design and construction. Paul is part of GSI's team of groundwater specialists that addresses the complex issues arising from California's Sustainable Groundwater Management Act (SGMA).

REPRESENTATIVE PROJECTS

Adjudicated Groundwater Basin Annual Report Preparation, Northern Cities Management Area Technical Group, Santa Maria Groundwater Basin, San Luis Obispo County, California. Paul manages the preparation and submittal of the court-mandated annual reports for the Northern Cities Management Area (composed of the Cities of Pismo Beach, Arroyo Grande, and Grover Beach, and the Oceano CSD). Tasks include sampling and monitoring key sentry wells in the Northern Cities area to assess potential seawater intrusion, and technical support and report preparation of quarterly and annual reporting required by the Superior Court as a result of the Santa Maria Basin litigation solution.

Staff Extension Services and Hydrogeologic Expertise and Input to the Paso Robles Basin Groundwater Sustainability Plan (GSP), Shandon-San Juan Water District (SSJWD) and Estrella-El Pomar-Creston Water District (EPCWD), San Luis Obispo County, California. On behalf of the two agricultural water districts in the Paso Robles Basin, Paul provides technical expertise and assistance in support of the preparation of a basinwide GSP. Paul acts as an extension of staff for the SSJWD, which is one of four GSAs in the basin, representing the Districts in a working group of staff members from the four GSAs that provides guidance to the GSP consultant team regarding the development of the GSP. In his role with the Districts, Paul has reviewed and assisted in the writing of all chapters and components of the GSP.

Groundwater Sustainability Agency (GSA) Formation and GSP Preparation, Templeton Community Services District (CSD), Atascadero Mutual Water Company (AMWC), Atascadero, California. Paul provided the key technical analyses and support during creation of the GSA and led the technical work to formally define the basin boundaries and management area. He now is leading the technical efforts for the preparation of the Groundwater Sustainability Plan (GSP) for the Atascadero Area Sub-basin. The work includes developing the geologic and hydrogeologic framework of the basin, compiling and calculating the water budget (basin water balance), working with the adjacent basin interests to develop a collaborative management strategy across the basin boundary, and working with the GSA and California Department of Water Resources (DWR) to prepare a compelling, defensible GSP.

Fringe Area Basin Characterization, San Luis Obispo County Flood Control and Water Conservation District, San Luis Obispo, California. Paul was the project principal for a characterization of the fringe areas of the Santa Maria Groundwater Basin. The project involved the hydrogeologic characterization of five geographically distinct areas that are within basin boundaries defined by DWR, but were not included in the adjudicated basin area and thus are subject to SGMA management requirements. For each fringe area, GSI generated calculations of groundwater flow direction, Darcy groundwater flow quantities, well construction details, aquifer test results, and irrigated acreage. GSI developed geologic cross sections to understand the extent of hydraulic communication between the fringe areas and the adjudicated basin. Scientific Basin Boundary Modification Application requests were submitted to formally exclude three of the fringe areas from the Santa Maria Basin as non-basins and to designate the two other areas as separate subbasins. Four of the five requests were subsequently approved by DWR.

Characterization and Planning Activities, San Luis Obispo Valley (Edna) Groundwater Basin, San Luis Obispo County Flood Control and Water Conservation District, California. Paul was the project principal for the San Luis Obispo Valley Groundwater Basin Characterization project that provided a foundation for future SGMA efforts by the County, City of San Luis Obispo, and local stakeholders, as well as serve as the basis for development of a groundwater model. The work effort included compilation of available hydrogeologic data and developing a comprehensive database, analysis of geologic cross sections, aquifer tests, streamflow infiltration, enhanced recharge areas, and monitoring well installation. Paul is now the principal SGMA advisor with the project team for the preparation and development of the basinwide GSP.

EDUCATION

MA, Geology, University of California, Santa Barbara

BS, Geological Sciences, University of Washington

PROFESSIONAL REGISTRATIONS

Professional Geologist: California

Certified Engineering Geologist: California

Certified Hydrogeologist: California

DISTINGUISHING QUALIFICATIONS

- ✓ Expertise in western U.S. water resource issues: supply, quality, and management
- ✓ Expertise in assessment of groundwater basin yield, water quality, natural recharge, and sustainability
- ✓ Experience in well design, construction, and maintenance
- ✓ Experience in groundwater exploration, development, and management
- ✓ Expertise in basinwide numerical modeling

Paul Sorensen, PG, CEG, CHG *Principal Water Resources Consultant*

Santa Maria Groundwater Basin Characterization, San Luis Obispo County Flood Control and Water Conservation District, San Luis Obispo, California. While at another firm, Paul managed a hydrogeologic characterization of the Santa Maria Groundwater Basin, an effort that provided a foundation for future SGMA reporting, development of a numerical model, and preparation of a salt and nutrient management plan. The study represents the most detailed and extensive data compilation of water well information and assessment of aquifer conditions in the basin.

Basin Modification and Delineation/Definition of the Atascadero Subbasin, Templeton CSD, AMWC, San Luis Obispo, California. Paul directed a detailed geologic and hydrogeologic investigation to formally define the boundaries of a groundwater basin through extensive geologic and hydrogeologic mapping and analysis and well log review. Working with DWR in advance of the issuance of the Basin Boundary Revisions regulations, he prepared a technical report and attendant maps to formally and successfully modify and redefine the DWR Bulletin 118 basin boundaries and worked with the clients to submit the request to DWR.

Staff Extension Services and Various Investigations, Templeton CSD, Templeton, California. Paul has served as the district hydrogeologist since 1989. He is involved in all water supply evaluation and development projects for the CSD. Investigations include evaluation of presence and distribution of Salinas River underflow to identify the CSD's legal rights to groundwater; groundwater flow modeling and calculation of basin yield; feasibility investigations of riparian water supplies; and design and construction management of new groundwater production wells.

Support Services Related to Amending the Cummings Basin Adjudication Judgment, Tehachapi-Cummings County Water District, Tehachapi, California. While with another firm, Paul was project manager and lead investigator of the basin analysis and safe yield study of the Cummings Valley Groundwater Basin. The project included compilation of data from all water wells in the basin and development of a conceptual model of the basin, including a hydrologic budget. The second phase of the work included the development and calibration of a numerical flow model to be used as a predictive tool for groundwater management scenarios. The hydrologic budget (water balance) for the basin was calculated using both the change in storage method and the inventory method, and the perennial yield was calculated for the basin. Subsequently, Paul provided litigation support services to prepare a declaration in support of a motion to amend the adjudication judgment and request for a new judgment.

Groundwater Basin Key Well Index Analysis, County of San Luis Obispo Public Works Department, San Luis Obispo County, California. As the responsible agency for programs such as the California Statewide Groundwater Elevation Monitoring (CASGEM) and the SGMA, the County of San Luis Obispo Public Works Department needed to establish a representative well index for each of the County's five medium- or high-priority basins. Paul managed the effort on behalf of GSI to evaluate the County's water elevation monitoring program, establish data collection criteria and analytical techniques to be used to understand and present the groundwater conditions and changes in groundwater supplies, and document and effectively communicate information related to aquifer conditions and threats to groundwater supplies. The result of the work was to select key representative wells in each basin that efficiently represent the relative health of each basin, without compromising the confidentiality of the well owners.

SGMA Support Services, Mid-Kaweah Groundwater Sustainability Agency (GSA), Tulare, California. As a sub-consultant to GEI Consultants, GSI provided SGMA support services to the Mid-Kaweah GSA. Paul supervised and oversaw GSI's efforts, which included coordination with and outreach to other GSAs in the Kaweah Subbasin to develop a framework for agreement regarding data and analysis techniques for assessing groundwater elevation, groundwater extraction, surface water supply, total water use, change in storage, water budget, and sustainable yield. GSI identified data needed for SGMA GSP compliance, provided additional data collection, and performed subbasin-wide groundwater modeling services to provide predictive scenarios and future water budgets. GSI then conducted a sustainability analysis, consisting of a basin characterization, water budget, and identification of strategies for achieving groundwater sustainability, and provided a review of the draft Mid-Kaweah GSA-GSP outline.

Tim Nicely, PG, CHG

Supervising Hydrogeologist



EDUCATION

BS, Soil Science, California Polytechnic State University

PROFESSIONAL REGISTRATIONS

Professional Geologist:
California

Certified Hydrogeologist:
California

DISTINGUISHING QUALIFICATIONS

- ✓ Expertise in water resource management
- ✓ Expertise in assessment of groundwater basin yield, water quality, natural recharge, and sustainability
- ✓ Experience in well design, construction oversight, and maintenance
- ✓ Experience in groundwater monitoring and developing groundwater models
- ✓ Experience conducting desalination feasibility studies

Tim has 21 years of experience working with clients throughout California to manage valuable water resources. His expertise includes all aspects of hydrogeology and geology, specifically related to groundwater supply, groundwater basin analysis, and water resource management. Tim's experience includes managing and strategizing projects related to analyzing regional groundwater basins and groundwater quality studies; assessing seawater intrusion, desalination intake options, and surface water/groundwater studies; calculating perennial yield and basin water balance components; designing and overseeing construction of wellfields and monitoring wells; designing pumping tests and analyzing data; evaluating aquifer recharge options; and groundwater modeling.

REPRESENTATIVE PROJECTS

Adjudicated Groundwater Basin Annual Report Preparation, Northern Cities Management Area Technical Group, Santa Maria Groundwater Basin, San Luis Obispo County, California. Tim serves as the technical lead for the preparation and submittal of the court-mandated annual reports for the Northern Cities Management Area (composed of the Cities of Pismo Beach, Arroyo Grande, and Grover Beach, and the Oceano Community Services District [CSD]). Tim manages tasks including sampling and monitoring of key sentry wells in the Northern Cities area to assess potential seawater intrusion, and technical support and report preparation of quarterly and annual reporting required by the Superior Court of California as a result of the Santa Maria Basin litigation solution.

Los Osos Creek Groundwater Replenishment Reuse Project (GRRP), Los Osos Basin Management Committee, Los Osos, California. As part of a technical team including MKN and Associates, Tim and GSI staff conducted technical assessments of feasibility and permitting considerations for a proposed Indirect Potable Reuse (IPR) program which will employ in-stream recharge to underlying aquifers with highly treated wastewater to support stabilization of this small basin's groundwater resource. Key aspects evaluated include hydrogeologic characterization, coordination with Department of Drinking Water staff on required permitting elements, preliminary assessment of Soil Aquifer Treatment benefits, and overall project budget and schedule forecasting.

Groundwater Recharge, Water Supply Enhancement, and Water Re-Use Feasibility Alternatives Studies, City of Morro Bay, California. Tim conducted a detailed aquifer characterization and basin-wide investigation to evaluate the potential alternatives to the City's brine disposal pipeline for the re-use of recycled water to augment the City's water resource. Potential alternatives include: recharging into upstream infiltration basins; delivering treated effluent to growers in the Morro or Chorro valleys in exchange for reduced groundwater pumping or for direct sale; injection and recovery at City wells; and injection into a seawater intrusion barrier.

Aquifer Characterization and Safe Yield Analysis, Aera Energy, Pismo Beach, California. Tim conducted a groundwater basin safe yield study of an unnamed groundwater basin as part of a Supplemental Environmental Impact Report. The project included compilation of data from water and oil wells throughout the basin, preparation of geologic and hydrogeologic cross sections, groundwater level and storage volume analysis, development of a hydrologic budget and safe yield for the basin.

Aquifer Characterization and Hydrogeologic Assessment, Cold Canyon Landfill, San Luis Obispo County, California. Tim designed and performed several multi-well aquifer tests to define the hydrogeology of the area beneath the landfill, the pumping capacity of the existing wells at the landfill, their current use, the effects of increased use of groundwater related to the proposed expansion of the landfill, and interference effects from adjacent wells.

Santa Maria Groundwater Basin Investigation, San Luis Obispo County Flood Control and Water Conservation District. Tim performed a series of eight multiple-well pumping tests throughout the Northern Cities and Nipomo Mesa areas of southern San Luis Obispo County for the Santa Maria Groundwater Basin (SMGB) characterization effort, which provided a foundation for future development of a Salt and Nutrient Management Plan and a groundwater model. The study was an important component of the Regional Integrated Regional Water Management (IRWM) Plan Update. The SMGB includes the Northern Cities and Nipomo Mesa Management Areas, and a limited assessment of the Santa Maria Valley Area to demonstrate its hydrogeologic relationships with the Nipomo Mesa.

Tim Nicely, PG, CHG *Supervising Hydrogeologist*

Wastewater Disposal Feasibility Study, Price Canyon Oil Field, San Luis Obispo County.

Tim performed all project planning and field work related to the exploration and assessment of two areas for the proposed disposal of treated wastewater permeate in San Luis Obispo County. The study included exploratory drilling, monitoring well installation, aquifer analyses, construction and testing of a large pilot disposal basin, the interaction of groundwater and surface water and an analysis of thermal interaction between creek water and local groundwater.

Lopez Lake Water Disposal Study, Canon Associates, San Luis Obispo County, California.

Tim performed field activities related to determination of the feasibility of water disposal with infiltration basins including installation of three monitoring wells; performed contractor observation for drilling, development and aquifer pump testing of each well; performed lithologic logging and sample collection; performance and analysis of aquifer tests; performance of extended pilot basin infiltration tests and report preparation.

Basin Modification and Delineation/Definition of the Atascadero Subbasin, Templeton Community Services District and Atascadero Mutual Water Company, San Luis Obispo County, California.

Tim is a key member providing key technical analyses and support a detailed geologic and hydrogeologic investigation to formally define the boundaries of a groundwater basin through extensive geologic and hydrogeologic mapping and analysis and well log review. Working with DWR in advance of the issuance of the Basin Boundary Revisions regulations, Tim helped prepare a technical report and attendant maps to formally modify and redefine the DWR Bulletin 118 basin boundaries and worked with the clients to submit the request to DWR. The submittal, based on scientific evidence, was one of the few successful scientific applications approved by DWR. This new Atascadero sub-basin will enable the two utilities to manage their groundwater resources within a definable boundary.

Groundwater Sustainability Plan (GSP) Development, Eastern Management Area Groundwater Sustainability Agency (GSA), Santa Ynez, California. Tim is providing hydrogeologic support for the development of a GSP for this GSA. There are a number of complex issues in this basin that must be resolved including potential interconnection of basin aquifers with the Santa Ynez River, complex structural geology and boundaries to flow, assessing underflow to downstream subbasins, and balancing water supply needs of various stakeholders (farmers, ranchers, grape growers, tribal governments, domestic water users).

SGMA Support Services, Mid-Kaweah GSA, Tulare, California. As a subconsultant, GSI provided SGMA support services to the Mid-Kaweah GSA. Tim led GSI's efforts, which included coordination with and outreach to other GSAs in the Kaweah Subbasin to develop a framework for agreement regarding data and analysis techniques for assessing groundwater elevation, groundwater extraction, surface water supply, total water use, change in storage, water budget, and sustainable yield. GSI identified data needed for SGMA GSP compliance and provided additional data collection, and performed subbasin-wide groundwater modeling services to provide predictive scenarios and future water budgets. GSI then conducted a sustainability analysis, consisting of a basin characterization, water budget, and identification of strategies for achieving groundwater sustainability, and provided a review of the draft Mid-Kaweah GSA GSP outline.

GSP Development, Fox Canyon Groundwater Management Agency (FCGMA), Ventura County, California. Tim was a key member of the team that assisted with the preparation of GSPs for four basins within Ventura County. Tasks include developing the hydrogeologic baseline for each basin, establishing objectives, which will be used ultimately for creating plans that are practical, adopted by stakeholders, and approved by the State of California. This will be one of the first set of GSPs statewide to be developed in response to the Sustainable Groundwater Management Act.

Groundwater Basin Boundary Modifications, Castaic Lake Water Agency (CLWA), Los Angeles County, California. Tim was part of the GSI team that helped CLWA identify the type and location of groundwater basin boundary adjustments to meet the state's Sustainable Groundwater Management Act regulations for boundary modifications. Tim conducted a hydrogeologic investigation, reviewed existing groundwater management plans, and proposed a modification that would extend the Pleasant Valley Subbasin into the northern portion of the Kern County Subbasin.

Samuel W. Schaefer, P.E.

Senior Engineer

Samuel Schaefer is a Licensed Professional Engineer with experience in agricultural and environmental water resources projects. Mr. Schaefer's expertise includes strategic planning, illustrated through his facilitation of the Poso Creek Integrated Regional Water Management (IRWM) planning group); developing regional water supply and conjunctive use projects from conception through construction; securing grant funding; and management of all aspects of a project's life-cycle. In addition, he has participated in projects that involve salt characterization and analysis, agricultural and irrigation practices, and groundwater recharge. He has experience with multi-disciplinary teams, as well as managing and mentoring staff. Mr. Schaefer is a dynamic leader with strong technical expertise in public and private water infrastructure development.

PROJECT EXPERIENCE

Poso Creek Integrated Regional Water Management Plan (IRWMP), Shafter-Wasco Irrigation District, Wasco, CA. Project Facilitator for implementing over 90 agreements for over \$200M in Projects with \$80M in grants funding towards implementing the projects in the Plan with agricultural water districts cooperating with disadvantaged communities, and stakeholders. The goal is to improve regional conveyance and banking facilities for Central Valley Project (CVP) Contractors and Non-CVP Contractors (NCVPC) within the Plan Area. The contractors include Shafter-Wasco ID, Delano-Earlimart ID, Southern San Joaquin MUD, Semitropic WSD, North Kern WSD, Cawelo WD, and Kern-Tulare WD.

Drought Contingency Plan for the Poso Creek IRWM Plan Region, Shafter-Wasco Irrigation District, Wasco, CA. Reclamation funded drought contingency plan for Poso Creek IRWM.

System Optimization Review for the Poso Creek IRWM Plan Region, Shafter-Wasco Irrigation District, Wasco, CA. Evaluated non-structural and structural projects for implementation. "Plan of Action" for the Poso Creek IRWM Plan. CEQA and NEPA documents for 25-year water banking program between seven districts with surface supplies from CVP Friant, CVP Delta, and SWP.

Program and Project Management for Design, Bidding, and Construction Management for Water Districts in Kern County, CA (received multiple Federal and State Grant Funding). Directed teams preparing funding proposals on water conveyance and GW storage projects for Reclamation and California Department of Water Resources (DWR). Once funded, directed teams preparing design, bidding documents, and construction management as districts implemented funded projects through construction.

Willow Springs Groundwater Bank, CIM Group, Antelope Valley, CA. Alignment study for eight miles of 84-inch ID pipeline from the California Aqueduct to the Willow Springs Water Bank.



EDUCATION

M.S., Agricultural Engineering/Water Resources, South Dakota State University

B.S., Bio-Resource and Agricultural Engineering, South Dakota State University

EXPERIENCE IN THE INDUSTRY

36 years

EXPERIENCE WITH GEI

15.5 years – Bakersfield / Pasadena / Santa Barbara Locations

REGISTRATIONS AND LICENSES

Professional Engineer, CA No. 66337

(Issued: 1/2004; Expires: 6/2022)

Professional Engineer, CO No. 38324

PROFESSIONAL ASSOCIATIONS

Board Member of U.S. Committee on Irrigation and Drainage (USCID)

Past Treasurer of Coastal Branch of the Groundwater Resources Association of California

Multiple Agriculture Water Management Plans, CA. AWMPs to meet DWR's requirements for Cawelo WD, North Kern WSD, Semitropic WSD, Wheeler Ridge-Maricopa WSD, and Shafter-Wasco ID.

Salt and Nutrient Plan, Coachella Valley Water District, Coachella, CA. Provided water use and salt loading evaluation for agriculture and golf course land use for input into the Salt and Nutrient Plan for Coachella Valley. GEI provided root-zone moisture model to account for the agricultural water demands for 73 crop categories.

Northern Cities Management Area, Annual Monitoring Reports, Cities of Grover Beach, Arroyo Grande, Pismo Beach, and Oceano Community Services District, CA. Provide agricultural supply and demand for the annual report to the court as part of an adjudication of the Santa Maria basin.

Water Supply and Demand Current Uses and Future Estimates, Santa Barbara County Water Agency, Santa Barbara County, CA. Agricultural water use and demand for the water supply and demand assessment.

Groundwater Assessment for the Santa Maria Valley, Santa Barbara County Salt and Nutrient Planning Workgroup, Santa Barbara County, CA. Groundwater Assessment report regarding agricultural water management practices, summary of nutrient management practices, and preparation of salt and nutrient balance.

Water Rights and Litigation Support Experience

Construction of the Cochiti Agricultural Drainage System near Cochiti Lake, U.S. Army Corps of Engineers (USACE), Albuquerque District, NM. Provided field investigation, planning, design, engineering, and pre-construction meeting services to USACE CM team; testimony in the defense to claims by the contractor.

Hydrologic Inventory of Nipomo Mesa Management Area, Nipomo Community Services District, Nipomo, CA. Urban and agricultural consumptive use values for the hydrologic inventory as part of litigation.

Nicoll Ditch Field Reconnaissance Study, Lynch and Lynch, LLP, Kern County, CA. Designated as an expert witness for an agricultural water delivery canal.

San Bernardino Valley Municipal Water District's Water Rights Application for Supplemental Water Supply EIR, Kevin O'Brien, Downey Brand, LLP, San Bernardino Valley Municipal Water District, San Bernardino County, CA. Water allocation modeling in support water rights application, analysis involved interpreting the Watermaster rules for the replenishment of the San Bernardino Basin Area.

Practically Irrigable Area Assessment as Part of a Native American Water Right Settlement, Department of Ecology, Lummi Peninsula of Whatcom County, WA. Arable land evaluation and crop payment capacity in determination of the PIA. Followed the Reclamation Land Classification Guidelines in this PIA determination.

AWARDS

2020 - Outstanding Water Project, ASCE S.J. Branch and L.A. Section Excellence Award. Groundwater Recharge Intertie "Diltz" Pipeline. Shafter-Wasco Irrigation District, Semitropic Water Storage District, GEI Consultants, Zeiders Consultants, and W.M. Lyles Co. received the award for the cooperative effort.

2019 - Outstanding Water Project. Calloway Canal Lining. American Society of Civil Engineers (ASCE) received by North Kern Water Storage District, GEI, and Zeiders Consultants.

2016 - Outstanding Water Project. CRC Pipeline to North Kern Water Storage District for delivery of Oil-field Produced Water. ASCE Excellence Award to North Kern Water Storage District, GEI, and Zeiders Consultants.

2015 - Outstanding Water Project. Cross Valley Canal to Calloway Canal Intertie. ASCE Excellence Award received by North Kern Water Storage District, Cawelo Water District, GEI, and Zeiders Consultants.

2013 - Outstanding Water Project. Poso Creek IRWM Plan Regional Water Management Group's Water Management Program. ASCE Award. Shafter-Wasco Irrigation District and GEI Consultants received award on behalf of seven districts working to collaborate on regional water supply reliability.

2012 - Outstanding Water Project. Calloway Canal to Lerdo Canal Intertie. ASCE award to North Kern Water Storage District and GEI Consultants for constructing this regional water conveyance facility.

Lee Knudtson Staff Hydrologist



EDUCATION

BS, Natural Sciences,
University of Wisconsin-
Milwaukee

DISTINGUISHING QUALIFICATIONS

- ✓ Expertise in groundwater monitoring
- ✓ Expertise in groundwater data analysis and interpretation
- ✓ Experienced in technical report preparation
- ✓ Experienced in aquifer characterization
- ✓ Experienced in groundwater modeling

Lee has 7 years of experience working in the groundwater industry. Lee has led the design, planning, and implementation of numerous groundwater monitoring programs for groundwater stakeholders across the country. Lee is experienced in merging groundwater data sets from a variety of different sources and developing data analysis methods and tools to produce meaningful information. He has planned and implemented field data collection efforts and is knowledgeable about aquifer characterization, well testing, and groundwater modeling to assist with scenario planning. Lee has experience implementing groundwater monitoring projects in California in support of compliance with the Sustainable Groundwater Management Act (SGMA) and California Regional Water Quality Control Board (RWQCB) groundwater monitoring requirements.

REPRESENTATIVE PROJECTS

Adjudicated Groundwater Basin Annual Report Preparation, Northern Cities Management Area Technical Group, Santa Maria Groundwater Basin, San Luis Obispo County, California.

Lee gathers data in support of the preparation and submittal of annual and quarterly reports for the Northern Cities Management Area (composed of the Cities of Pismo Beach, Arroyo Grande, and Grover Beach, and the Oceano CSD). Lee conducts sampling and monitoring of key sentry wells in the Northern Cities area to assess potential seawater intrusion, provides data analysis and technical support, and assists in preparing the quarterly and annual reports required by the Superior Court as a result of the Santa Maria Basin litigation solution.

Staff Extension Services and Hydrogeologic Expertise and Input to the Paso Robles Basin GSP, Shandon-San Juan Water District (SSJWD) and Estrella-El Pomar-Creston Water District (EPCWD), San Luis Obispo County, California.

Lee is a member of a team supporting the implementation of a basinwide GSP on behalf of the two agricultural water districts in the Paso Robles Basin (Basin). Lee assists in developing and using a 3-D geophysical model of the Paso Robles Subbasin using data collected by SkyTEM technology. This model is currently being used for scenario planning. Lee also assists in the expansion of the groundwater monitoring network.

Arroyo Grande Creek Integrated Model Field Data Collection and Investigation, Arroyo Grande, California.

Lee is a member of a team investigating surface water/groundwater interactions related to Arroyo Grande Creek to characterize the response of the aquifer to releases from Lake Lopez. Lee conducts the groundwater monitoring related to this project.

Hydrogeology Study in Support of the Avila Community Plan Update and Associated Environmental Impact Report, Avila Valley Subbasin, San Luis Obispo County, California.

Lee assisted in the Avila Valley Subbasin hydrogeologic basin study—including summarizing groundwater data and analysis of groundwater conditions.

Groundwater Monitoring and Reporting, Ivanpah Solar Electric Generating Station, Ivanpah Valley, San Bernardino County, California.

At the NRG/BrightSource Ivanpah Solar Electric Generating Station, GSI manages the long-term groundwater and potable water system monitoring program required for permit compliance. Lee conducts quarterly groundwater sampling in compliance with state and federal regulatory requirements. The groundwater wells provide potable drinking water to the facility's staff and water to drive the steam turbines in the centralized solar towers.

Groundwater Monitoring Services for the Santa Paula Water Recycling Facility, City of Santa Paula, California.

Lee conducts monthly groundwater monitoring and sampling in eight City-owned monitoring wells and a number of nearby residential wells. The sampling is conducted to help the City comply with RWQCB groundwater monitoring requirements.

Stormwater and Groundwater Monitoring Services, The Management Trust/RiverPark Homeowners Association (HOA), Oxnard, California.

Lee conducts stormwater sampling and annual groundwater monitoring to ensure compliance with residential development conditions that stipulate such monitoring work be done for 5 years after completion of new construction. Stormwater samples are collected during 5 rain events per season at 9 sampling locations and one sample is collected during dry-weather conditions annually.

Groundwater Sustainability Plan (GSP) Development, San Antonio Creek Valley Groundwater Basin, Santa Barbara County, California.

Lee is a member of the team providing SGMA support services and preparing the GSP for the San Antonio Creek Valley Groundwater Basin. Lee assists in managing the monitoring network, conducts field monitoring efforts, develops digital tools to visualize data collected from the monitoring network, and writes technical memorandums to summarize data-sets and key findings.

Lee Knudtson Staff Hydrologist

GSP Development, Santa Ynez River Valley Groundwater Basin, Eastern Management Area (EMA), Santa Barbara County, California. Lee is a member of the team providing SGMA support services and preparing the GSP for the Eastern Management Area (EMA) of the Santa Ynez River Valley Groundwater Basin. Lee has developed tools to visualize groundwater data, analyzed groundwater conditions, and written portions of the groundwater characterization and groundwater monitoring sections of the GSP.

GSP Implementation, Cuyama Groundwater Basin, Santa Barbara County, California. Lee is a member of the team providing SGMA support services related to groundwater and surface water monitoring in the Cuyama Groundwater Basin. He deployed a continuous groundwater monitoring network and provided a technical memorandum summarizing the deployment project.

Injection Testing and IPR Project Development, City of Morro Bay, California. Lee assists in managing the groundwater monitoring program in Morro Bay in support of the development of an Indirect Potable Re-use (IPR) project to augment the City's water supply.

Aquifer Characterization and Groundwater Monitoring at Greenfield Wastewater Treatment Plant, Greenfield, California. Lee assisted in characterizing the aquifer surrounding the Greenfield Wastewater Treatment plant. This characterization included an assessment of the current groundwater monitoring program, creating visualization tools to analyze data, and recommending improvements to the monitoring program to comply with California Regional Water Quality Control Board (RWQCB) groundwater monitoring requirements.

Confidential Client, Water Rights Evaluation. GSI conducted a high-priority water rights and water use due diligence review for agricultural use for a confidential client. The project included site visits to agricultural properties and an analysis of publicly available and proprietary data regarding surface water and groundwater rights, historical water use, reliability of water supply, property information, and details about water diversion and storage infrastructure. Lee performed field data gathering and documentation, data analysis, and technical report writing for this project.

Historical Water Use Studies, Various Clients, California. Lee has assisted in preparing historical water use studies for private clients interested in establishing a record of their historical water usage and water infrastructure.

EXPERIENCE

(Before joining GSI, Lee's experience included the following.)

Consultant, Wellntel, Inc. From 2015 through 2019, Lee worked as a consultant for Wellntel, Inc., leading the implementation of numerous groundwater monitoring projects for groundwater stakeholders across the county.

Research Specialist, University of Wisconsin-Milwaukee School of Freshwater Sciences. As a research specialist, Lee conducted hydrological studies of Milwaukee Bay using novel monitoring techniques, leveraging remotely operated vehicles and spectral analyses.



Oceano Community Services District

1655 Front Street, P.O. Box 599, Oceano, CA 93475

(805) 481-6730 FAX (805) 481-6836

www.oceanocsd.org

Date: September 8, 2021

To: Board of Directors

From: Will Clemens, General Manager

Subject: **Agenda Item # 8(A): Consider a nomination for the vacant Authorized Districts alternate member on the IWMA Board and authorize the General Manager to cast a vote for any nominated OCSD Board member**

Recommendation

It is recommended that your Board consider a nomination for the vacant Authorized Districts alternate member on the IWMA Board and authorize the General Manager to cast a vote for any nominated OCSD Board member.

Discussion

The IWMA is a Joint Powers Authority (JPA) with a thirteen-member Board comprised of all five Board of Supervisors, one elected official from each of the seven cities in the County and one elected official representing the authorized Special Districts that provide solid waste services. The IWMA manages State mandated services on behalf of these agencies, including hazardous waste, universal waste, solid waste, recycling, and food/green waste. New mandates created under SB 1383 will go into effect January 1, 2022. SB 1383 is the most significant waste legislation implemented in the past 30 years and focuses on reducing methane emissions by 75% in waste streams from 2014 levels by 2025. Additionally, edible food waste needs to be diverted by at least 20% by 2025. IWMA is taking the lead on implementing these significant changes on behalf of its member agencies.

The District received the attached email from the President of the San Luis Obispo Chapter of the California Special Districts Association (SLOCSDA) relating to Special District representation on IWMA. The current representative for Authorized Districts is Robert Enns of the Cayucos Sanitation District and there is a vacancy for an alternate member. Your Board should consider whether to nominate a Board member to fill the vacant alternate position. However, the IWMA JPA may soon need significant revisions which would most likely include changes in Board representation. Director Replogle has submitted the attached biography for consideration.



Oceano Community Services District

Board of Directors Meeting

Other Agency Involvement

All public agencies in San Luis Obispo County that provide solid waste services are involved with this issue.

Other Financial Considerations

N/A

Results

Collaboration through the IWMA promotes a prosperous, safe, healthy, and well governed community.

Attachment:

- Email from the President of the SLO Chapter of the California Special Districts Association
- Replogle Biography

From: [Marshall Ochylski](#)
To: [Bradley Hagemann](#); [Kristi Dibbern](#); [cvcsd3094@gmail.com](#); [jweigold@camabriacsd.org](#); [csteidel@camabriacsd.org](#); [hdodson@camabriacsd.org](#); [kdean@camabriacsd.org](#); [mbland@camabriacsd.org](#); [rkoon@cayucossd.org](#); [ggood@cayucossd.org](#); [gm@groundsquirlhollowcsd.org](#); [scott@heritageranchcsd.ca.gov](#); [Kristen Gelos](#); [Ron Munds](#); [Laura Durban](#); [miglesias@ncsd.ca.gov](#); [will@oceanocsd.org](#); [Carey Casciola](#); [nicole@oceanocsd.org](#); [tamara.parent@sanmiguelcsd.org](#); [ashley.sangster@sanmiguelcsd.org](#); [admin@sansimeoncsd.org](#); [jbriltz@templetoncsd.org](#); [Jeffrey Minnery](#)
Cc: [Marshall Ochylski](#)
Subject: CSD's IWMA Alternate Representative
Date: Saturday, July 31, 2021 5:14:18 PM
Attachments: [clip_image002.png](#)

All,

After we received the letter earlier this week from the Integrated Waste Management Authority regarding the CSD's representatives on the IWMA Board, your Board of Directors met to discuss implementing the process we have in place for selecting our representatives to the IWMA, and in particular the current vacant alternate representative position.

As a result, we are requesting nominations for the alternate representative from the Community Service Districts which have solid waste powers. If you are receiving this email, then you are one of those District with those solid waste powers and are eligible to vote.

The alternate representative will serve until her/his current term expires at the end of 2022.

The timeframe is that nominations are due no later than September 15th which will allow each of the Board of Directors of these Districts the opportunity to meet and discuss this matter. If you choose a nominee please include her/his full name and a brief statement (no more than one page) either from your Board or the nominee of her/his qualification and why she/he should be elected. Please email it directly to me and do not copy all.

If there is more than one nomination, then voting will take place with ballots due no later than October 31st.

Please contact me directly if you have any questions.

Thank you.



Marshall E. Ochylski,
Attorney at Law

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Please consider the environment before printing this email.

Cynthia Replogle has served as a Director on the Oceano Community Services District (OCSD) Board since 2018. While she became the OCSD Director assigned to attend [Integrated Waste Management Authority](#) (IWMA) meetings in early 2019, Cynthia has followed IWMA issues for more than five years.

As a past volunteer for Surfrider SLO County, Cynthia initiated local Ocean Friendly Restaurants and Hold on to Your Butt programs. Restaurants achieve [Ocean Friendly Restaurants](#) certification by voluntarily reducing the amount of disposable plastic waste they generate. [Hold on to Your Butt](#) educates smokers about proper cigarette disposal and installs ashcans throughout the County in partnership with local governments. Previously, Cynthia served as co-chair of Surfrider San Diego's Rise Above Plastics program, which aims to reduce the impacts of plastics in the marine environment.



Cynthia is the general counsel for iFixit, a small SLO company with the big goal of helping everyone to fix everything, which reduces electronics and other waste. Earlier in her career, she worked as a mechanical engineer, including in project management.

The IWMA is currently facing serious challenges. The recent [vote of the County Board of Supervisors to withdraw from membership](#) will necessitate reformation of the agency. The sudden resignation of IWMA's interim executive director has triggered an urgent search for a permanent replacement. Meanwhile, IWMA staff has been working diligently to be ready when SB1383 comes into full force at the start of 2022. [SB1383](#) requires diversion of organic waste from landfills to reduce emissions of methane, a potent greenhouse gas.

The IWMA's mission is to divert waste through source reduction, recycling, and composting. Cynthia has demonstrated her dedication to this goal, and she has the professional background to understand technical and legal issues that may come before the IWMA Board.