Tom Fayram, President Brad Ross, Vice-President Julie Kennedy, Director Lisa Palmer, Director Greg Parks, Director



LOS OLIVOS COMMUNITY SERVICES DISTRICT REGULAR MEETING April 12, 2023, 6PM

St Mark's in the Valley Episcopal Church, Stacy Hall 2901 Nojoqui Ave, Los Olivos CA 93441

Please observe decorum and instructions from the President

This meeting will be held both in-person and electronically via Zoom meetings. In-person the meeting will be held at the following location: St Mark's in the Valley Episcopal Church, Stacy Hall - 2901 Nojoqui Ave, Los Olivos CA 93441

The public will also be able to hear and participate electronically by using the following links:

On Zoom:

https://us06web.zoom.us/j/82515801920?pwd=VHFQd1VDZUVucFZXZEVEdVhzVjhkQT09

By Phone:

Meeting ID: 825 1580 1920 Passcode: 378600

One tap mobile +16694449171,,82515801920#,,,,*378600# US

The Los Olivos Community Services District is committed to ensuring equal access to meetings. In compliance with the American Disabilities Act, if you need special assistance to participate in the meeting or need this agenda provided in a disability-related alternative format, please call 805.500.4098 or email to losolivoscsd@gmail.com. Any public records, which are distributed less than 72 hours prior to this meeting to all, or a majority of all, of the District's Board members in connection with any agenda item (other than closed sessions) will be available for public inspection at the time of such distribution at a location to be determined in Los Olivos, California 93441.

MEETING AGENDA

- 1. CALL TO ORDER
- 2. PLEDGE OF ALLEGIANCE
- 3. ROLL CALL

4. PUBLIC COMMENTS

Members of the public may address the Board of Directors on any items of interest within the subject matter and jurisdiction of the Board but not on the agenda today (Gov. Code - 54954.3). The public may also request future agenda topics at this time. Speakers are limited to a maximum of 3 minutes. Due to the requirements of the Ralph M. Brown Act, the District cannot take action today on any matter not on the agenda, but a matter raised during Public Comments can be referred to District staff for discussion and possible action at a future meeting.

ADMINISTRATIVE ITEMS:

All matters listed hereunder constitute an administrative / consent agenda and will be acted upon by a single vote of the Board. Matters listed on the Administrative Agenda will be read only on the request of a member of the Board, in which event the matter may be removed from the Administrative Agenda and considered as a separate item.

5. APPROVALS

A. APPROVAL OF MEETING MINUTES

Regular Meeting Minutes of March 15, 2023.

Posted: 4-7-2023

B. APPROVAL PAYMENT OF INVOICES RECEIVED BY APRIL 3, 2023.

The invoices below have been reviewed by the Finance Committee and are recommended for approval.

No.	Invoice Date	Invoice #	Provider	Amount
1.	1/31/2023	459	Moss, Levy & Hartzheim – Audit Services	\$ 2,500.00
2.	2/23/2023	GEN110822-	County of Santa Barbara – Elections Services –	\$ 163.90
		44	Short Term Election	
3.	2/23/2023	GEN110822-	County of Santa Barbara – Elections Services – Full	\$ 409.74
		45	Term Election / General Election	
4.	3/6/2023	74136	Aleshire & Wynder – Legal Services	\$ 3,476.00
5.	3/7/2023	876.001-24	GSI Water Solutions – Groundwater Monitoring	\$ 1,612.48
6.	3/15/2023	82597	MNS Engineering – District Engineer Services	\$ 1,931.25
7.	3/31/2023	20233	Savage – General Manager and District Services	\$ 4,050.00
8.	4/1/2023	326BDB28-	Streamline – Website software (annual fee)	\$ 600.00
		0004		
9.	4/3/2023	151	Regen LLC – Technical Services	\$ 1,250.00

Project	Vendor	To Date	Remaining
		(inc. above)	Authorization
Effluent Study	GSI	\$ 15,317.50	\$ 4,182.50
Effluent Study	ConfluenceES	\$ 19,421.20	\$ 1,578.80
Groundwater Monitoring	GSI	\$ 95,900.00	\$ 0.00
Audit	Moss, Levy & Hartzheim, LLP	\$ 2,500.00	\$ 5,275.00
Technical Recommendation	REGEN	\$ 10,470.00	\$ 530.00

6. EFFLUENT DISPOSAL STUDY

The Board will receive and file the attached Final Effluent Disposal Study. The Board received a presentation on Effluent Disposal options on 12/14/2022. The agenda included an accompanying study document which was left in draft status, pending input at the December meeting. As noted at the December meeting, finalization of the document was scheduled for early 2023.

BUSINESS ITEMS:

7. FISCAL YEAR 2023-24 (FY 2023-24) BUDGET AND STRATEGIC PLANNING

General Manager Savage will speak to the attached budget schedule for the upcoming Fiscal Year 2023-24. The District's FY 2023-24 budget year runs from July 1, 2023 to June 30, 2024. The Board will also discuss it goals for the coming year(s) at this time. New assignments to subcommittees or District staff may be given at this time.

INFORMATIONAL ITEMS:

These items are informational only, no action will be taken, and public comment not received.

8. REPORTS

A. SUBCOMMITTEE REPORTS

B. GENERAL MANAGER AND DISTRICT ENGINEER COMMENTS

The GM and DE will give reports on any meetings that they attended on behalf of the District, report on various District-related activities and/or provide status on projects. The GM may also review Budget Reports. See packet for more details.

9. DIRECTORS COMMENTS

Directors will give reports on any meetings that they attended on behalf of the Board and/or choose to comment on various District-related activities. Directors may also request future agenda topics at this time.

10. ADJOURNMENT

ITEM 5A - MINUTES TO APPROVE

Tom Fayram, President Brad Ross, Vice-President Julie Kennedy, Director Lisa Palmer, Director Greg Parks, Director



LOS OLIVOS COMMUNITY SERVICES DISTRICT REGULAR MEETING March 15, 2023, 6PM St Mark's in the Valley Episcopal Church, Stacy Hall 2901 Nojoqui Ave, Los Olivos CA 93441

Please observe decorum and instructions from the President

This meeting will be held both in-person and electronically via Zoom meetings. In-person the meeting will be held at the following location: St Mark's in the Valley Episcopal Church, Stacy Hall - 2901 Nojoqui Ave, Los Olivos CA 93441

The public will also be able to hear and participate electronically by using the following links:

On Zoom:

https://us06web.zoom.us/j/82515801920?pwd=VHFQd1VDZUVucFZXZEVEdVhzVjhkQT09

By Phone:

Meeting ID: 825 1580 1920 Passcode: 378600

One tap mobile +16694449171,,82515801920#,,,,*378600# US

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MEETING AGENDA

1. CALL TO ORDER

President Fayram called the meeting to order at 6:01 PM.

2. PLEDGE OF ALLEGIANCE

3. ROLL CALL

President Fayram requests a roll call be taken.

PRESENT AT BEGINNING OF MEETING: President Fayram, Drector Kennedy, Director Palmer, Director Parks ABSENT: Vice President Ross (arrived at 6:20 PM)

PUBLIC COMMENTS

Members of the public may address the Committee on any items of interest within the subject matter and jurisdiction of the Committee but not on the agenda today (Gov. Code - 54954.3). The public may also request future agenda topics at this time. Speakers are limited to 3 minutes. Due to the requirements of the Ralph M. Brown Act, the District cannot take action today on any matter not on the agenda, but a matter raised during Public Comments can be referred to District staff for discussion and possible action at a future meeting. President Fayram opens the floor for public comment.

Tom Nelson and Anna Marie Gott speak.

4. ADMINISTRATIVE AGENDA

All matters listed hereunder constitute a consent agenda and will be acted upon by a single vote of the Board. Matters listed on the Administrative Agenda will be read only on the request of a member of the Board, in which event the matter may be removed from the Administrative Agenda and considered as a separate item.

A. APPROVAL OF MEETING MINUTES

Los Olivos Community Services District, P.O. Box 345, Los Olivos, CA 93441, (805) 500-4098

Posted: 3-10-2023

Regular Meeting Minutes of February 15, 2023.

President Fayram opens the floor for public comment.

No commenters.

Motion to approve item 5A, meeting minutes from February 15, 2023.

Motion by: Director Kennedy Second: Director Parks

Voice vote: 4-0, VP Ross absent

B. APPROVAL PAYMENT OF INVOICES RECEIVED BY MARCH 3, 2023.

The invoices below have been reviewed by the Finance Committee and are recommended for approval.

No.	Invoice Date	Invoice #	Provider	Amount
1.	1/18/2023	82187	MNS Invoice – Engineering and Support Services	\$ 2,302.50
2.	2/21/2023	82448	MNS Invoice – Engineering and Support Services	\$ 2,716.50
3.	2/9/2023	00876.001-23	GSI – Groundwater Monitoring Well	\$ 4,206.25
4.	2/17/2023	1228	Regen – Engineering Services	\$ 9,220.00
5.	3/1/2023	20232	Savage – General Manager services	\$ 3,847.50

President Fayram opens the floor for public comment.

No commenters.

Motion to approve item 5B.

Motion by: Director Kennedy Second: Director Palmer

Voice vote: 4-0, VP Ross absent

5. FISCAL YEAR (FY) 2018-19 AUDIT - INDEPENDENT AUDITOR'S REPORT

The Board will receive and file a Fiscal Year 2018-19 report from its independent auditor, Moss, Levy & Hartzheim, LLP. The report is the first of three FY audit reports that the independent auditor is working on for the District.

President Fayram opens the floor for public comment.

Kathryn Rohrer speaks.

6. TECHNICAL OPINION ON COLLECTION, TREATMENT, AND DISPOSAL OPTIONS - REGEN

The Board will receive and file a Technical Memorandum (TM) and presentation from its consultant, REGEN. The TM outlines the consultant's opinions related to the collection, treatment, and disposal of wastewater in the LOCSD.

Vice President Ross arrives during this item, at approximately 6:20 pm.

Mr. Tristian Bounds (REGEN) provides an overview of the TM, using the attached and posted PowerPoint presentation.

As part of his commentary Mr. Bounds clarifies what is meant by Primary, Secondary, and Tertiary treatment steps. He describes Primary as being the removal of solids and grit; Secondary being an aerobic process in which microbes are grown to reduce organic matter, convert ammonia to nitrates, then a separate process, without oxygen, converts nitrates to nitrogen gas; and, Tertiary being a final process in which membranes or other media sources are used to polish wastewater for reuse. He adds that Tertiary processes often include disinfection. Mr. Bounds notes that an MBR is the combination of a Secondary and Tertiary processes in a single system. Because of the way the MBR processes are designed they can be a very effective environment for nitrate reduction. However, a membrane is not required to reach the required nitrate reductions. Upon questioning from Director Palmer, Mr. Bounds describes Centralized Secondary Treatment to Percolation Chambers. He expresses that there is an array of different processes, by different manufacturers, that can be considered Centralized Secondary Treatment. He notes that some Secondary Treatment systems can be used instead of membranes to reduce nitrogen, including: activated sludge, sequencing batch reactor processes, and packed-bed filter systems. Upon questioning from Vice President Ross, Mr. Bounds clarifies what is meant by "passive treatment," explaining that by his experience the term means treatment without applying energy. Mr. Bounds notes that his report indicates that this is not a viable treatment system as it will not remove nitrates. If the term is intended by others to include the application of energy to grow beneficial bacteria, or otherwise remove nitrates, then these types of solutions would be classified as a secondary treatment process. The discussion moved to commentary about effluent disposal and reuse. President Fayram notes that in his experience, Indirect Reuse could include Percolation Chambers and that Direct Reuse is achieved through approaches such as purple pipe recycled water. Mr. Bounds in his commentary adds that some Direct Reuse systems use the recycled water for flushing toilets. Mr. Bounds also acknowledges that tertiary treatment (specifically MBR) was lower scoring on the rubric mostly because of cost, and indicates that if

the strategy to produce and distribute some recycled water could attract significant grant funds, then MBR-type options would move up in score.

President Fayram opens the floor for public comment.

Anna Marie Gott and Tom Nelson speak.

7. SANTA BARBARA COUNTY LOCAL AGENCY FORMATION COMMISSION (LAFCO) EXTENSION REQUEST

The Board will consider the attached letter of request for extension for the District. The District is scheduled to appear before LAFCO on April 6, 2023.

GM Savage introduces the item and provides a brief overview of the attached draft letter.

President Fayram opens the floor for public comment.

Paul Rohrer speaks.

Motion to authorize President Fayram and General Manager Savage to make minor changes to the attached draft letter, specifically to include commentary made by other Board members, and send it to LAFCO.

Motion by: Vice President Ross, Second: Director Kennedy

Voice vote 5-0

8. REPORTS

A. SUBCOMMITTEE REPORTS

Brief reports from each of the following subcommittees is heard.

Finance – Director Kennedy notes that the Finance Committee met last week and discussed the upcoming budget, audit report, and invoices. **Grants** – Director Kennedy notes that the subcommittee did not meet, but that she has completed some individual outreach to better understand our community's Median Household Income (MHI). Director Parks comments that he reached out to a vendor about Grants, adding that the vendor doesn't charge a fee unless a grant is received. **Technical** – President Fayram comments that the Technical subcommittee met to review the REGEN TM. **Project Management** – The Project Management subcommittee did not meet.

President Fayram opens the floor for public comment.

Anna Marie Gott speaks.

B. GENERAL MANAGER AND DISTRICT ENGINEER COMMENTS

The GM and DE will give reports on any meetings that they attended on behalf of the District, report on various District-related activities and/or provide status on projects. The GM may also review Budget Reports. See packet for more details.

General Manager Savage walks through the attachments, noting that the District currently has approximately \$77,000 in its "checking" account. He adds that County EHS was sent a final request for grant reimbursement, noting that some \$75,000 of the grant will not be able to be pursued by the District because the grant period has ended and the District did not complete the required efforts. GM Savage adds that in addition to another round of property tax receivables, the first half of State WRFP grant funds should be received at some point in time.

District Engineer Pike comments on the WRFP grant and the efforts undertaken by MNS related to grants. He notes that MNS is constantly searching for grants on behalf of all of its clients and that he and Mr. Greg Jaquez (MNS employee) were recently on a call with State Water Board officials regarding grants.

9. COMMENTS

The Directors will provide comments and report on activities related to District business. Comments are informational only, no action will be taken, and public comment not received.

A. DIRECTORS COMMENTS

Directors will give reports on any meetings that they attended on behalf of the Board and/or choose to comment on various District-related activities.

Director Palmer comments about the need for more community input. She states her opinion that we need to reach constituents where they are. She adds that she has been looking at parcel sizes, and believes we should start doing direct outreach. President Fayram notes that he talks to anyone who contacts him to better educate people.

Director Ross makes no comments.

Director Kennedy adds to Director Palmer's comments, saying that given recent home sales and turn-over, there are many more absentee owners (people who live full-time in other communities) in Los Olivos.

Direct Parks thanks Tristian Bounds, Regen, for his efforts and hopes he can continue to be engaged. President Fayram comments on his efforts to follow up with the County regarding how the District would be involved in future County Planning approvals that result in intensified property uses.

10. ADJOURNMENT

Motion to adjourn at: 7:25 PM.

Motion By: Vice President Ross, Second: Director Palmer

Voice Vote: 5-0

Respectfully submitted:

Guy W. Savage

General Manager - Los Olivos Community Services District

Approved:

Tom Fayram

President – Los Olivos Community Services District

ITEM 5B - INVOICE PAYMENT

Moss, Levy & Hartzheim LLP 2400 Professional Parkway, Suite 205

Santa Maria, CA 93455 805.925.2579

LOS OLIVOS COMMUNITY SERVICES DISTRICT PO BOX 345 LOS OLIVOS, CA 93441

Invoice No. Date

34501

01/31/2023

Client No.

2019 Audit to Date

2,500.00

Current Amount Due



Santa Barbara County Office of the County Clerk-Recorder-Assessor

JOSEPH E. HOLLAND

County Clerk-Recorder-Assessor & Registrar of Voters 105 E. Anapamu Street, Room 204 P.O. Box 159 Santa Barbara, CA 93102-0159

Los Olivos Community Services District - Short-Term PO Box 345 Los Olivos, CA 93441

ELECTION INVOICE

Payment Due Within 30 Days of Invoice Date

				Fund/Dept/Acct/Prog
nvoice #	GEN110822-45	Invoice Date 02/03/23		0001/062/4970/2002
	Election	2022 Gubernatorial General Election		
	Election Date	11/8/2022		
	Contest / Measure	Los Olivos Community Services District - Short-Term		
	Voter Registration	509		
	Allocated Costs		A	Amount
	Pooled Voter Costs		\$	83.77
	Sample Ballot Costs			13.63
	Candidate Statement or Me	easure Printing Costs		w.
	Division Indirect Costs			66.50
	Total Costs		\$	163.90
	Make Checks Payable To:	Santa Barbara County Clerk-Recorder	r-Assessor	
	Remit Payment To:	Attn: Dylan Tekautz		
	nemit i dyment to.	P.O. Box 159 Santa Barbara, CA 93102-0159		For Questions Call: (805) 568-2214



Santa Barbara County Office of the County Clerk-Recorder-Assessor

JOSEPH E. HOLLAND

County Clerk-Recorder-Assessor & Registrar of Voters 105 E. Anapamu Street, Room 204 P.O. Box 159 Santa Barbara, CA 93102-0159

Los Olivos Community Services District PO Box 345 Los Olivos, CA 93441

ELECTION INVOICE

Payment Due Within 30 Days of Invoice Date

	INVOICE FOR MATERIALS AF	ND SERVICES RENDERED BY SANTA BARBA	RA COUNT	YELECTIONS
nvoice #	GEN110822-44	Invoice Date 02/03/23		Fund/Dept/Acct/Prog 0001/062/4970/2002
	Election	2022 Gubernatorial General Election		
	Election Date	11/8/2022		
	Contest / Measure	Los Olivos Community Services Distric	t	
	Voter Registration	509		
	Allocated Costs		A	Amount
	Pooled Voter Costs		\$	209.42
	Sample Ballot Costs			34.07
	Candidate Statement or Me	easure Printing Costs		
	Division Indirect Costs			166.25
	Total Costs		\$	409.74
	Make Checks Payable To:	Santa Barbara County Clerk-Recorde	r-Assessor	
	Remit Payment To:	Attn: Dylan Tekautz		
		P.O. Box 159		For Questions Call:
		Santa Barbara, CA 93102-0159		(805) 568-2214



March 6, 2023

VIA EMAIL ONLY: Guy Savage – GM.LOCSD@gmail.com

General Manager Los Olivos Community Services District P.O. Box 345 Los Olivos, CA 93441

Re: March 2023 Billing Statement (for services through 02/28/23);

Aleshire & Wynder, LLP

Dear General Manager:

Enclosed, please find the billing statements for the month of March, which include services rendered and costs incurred by Aleshire & Wynder, LLP, through February 28, 2023.

Should you have any questions or require additional information concerning the foregoing, please let me know.

Sincerely,

ALESHIRE & WYNDER, LLP

Taylu Sanchey

Haydee Sanchez for G. Ross Trindle, III

Enclosure

cc: Mary Zepeda – mzepeda@mnsengineers.com

[Rates effective: 9/1/2022 - 12/31/22 svcs]

LOS OLIVOS COMMUNITY SERVICES DISTRICT (01245) MONTHLY BILLING SUMMARY

Billing Period: February 1 thru February 28, 2023

	Total Hours	Hourly Rate	Total Fees	Total Costs	Total Fees & Costs	Writeoff Value	Comments
0001 General (\$220 Blended: Atty / Paralegal / Law Clerk)	15.80	220	3,476.00	0.00	3,476.00	0.00	(Advisory/Transactional Svcs)
TOTALS:	15.80		3,476.00	0.00	3,476.00	0.00	



Federal Tax ID: 55-0814676

Orange County

18881 Von Karman Ave., Suite 1700 Irvine, CA 92612 P 949.223.1170 • F 949.223.1180

awattorneys.com

March 6, 2023

Bill No. 74136

Los Olivos Community Services District Attn: General Manager PO Box 345

Los Olivos, CA 93441

For Legal Services Rendered Through 02/28/23

CLIENT: 01245 - Los Olivos Community Services District

MATTER: 0001 - General

PROFESSIONAL SERVICES

Date A	Attorney	Description	Hours	Amount
02/01/23 G	GRT	(PUBLIC COMMENT) DIRECT FOLLOW UP RE LEGAL RESEARCH ON REMOTE PUBLIC COMMENT REQUIREMENTS	0.30	66.00
E	ΞΤΜ	(PUBLIC COMMENT) CONDUCT INITIAL LEGAL REVIEW AND ANALYSIS OF VIRTUAL MEETING REQUIREMENTS UNDER AB 2449 AND THE PREVIOUSLY CODIFIED BROWN ACT	0.50	110.00
02/04/23 E	ΞΤΜ	(PUBLIC COMMENT) RESEARCH AND ANALYSIS REGARDING RELEVANT CASE LAW REQUIRING PUBLIC COMMENT FOR REMOTE MEETINGS FOR ELECTED BODIES	2.60	572.00
E	ΞΤΜ	(PUBLIC COMMENT) DRAFT MEMO REPORTING RESEARCH FINDINGS ON LEGAL REQUIREMENTS OF PUBLIC COMMENTS DURING REMOTE MEETINGS	2.50	550.00
02/06/23 G	GRT	(AGENDA) DRAFT SUGGESTED REVISIONS TO REGULAR MEETING AGENDA	0.40	88.00
02/14/23 G	GRT	(REGULAR MEETING) INITIAL TRAVEL TIME FOR REGULAR MEETING [SPLIT WITH IVCSD, SMVWCD]	1.20	264.00
G	GRT	(REGULAR MEETING) INITIAL TRAVEL TIME FOR REGULAR MEETING [SPLIT WITH IVCSD, LOCSD]	1.70	374.00

Client: 01245 - Los Olivos Community Services District

Matter: 0001 - General

March 6, 2023

Page 2

PROFESSIONAL SERVICES

Date	Attorney	Description		Hours	Amount
02/15/23	GRT	(REGULAR MEETING) COMPLETI PREPARATION FOR AND ATTEN MEETING		3.10	682.00
02/17/23	GRT	(REGULAR MEETING) RETURN T FOR REGULAR MEETING [SPLIT SMVWCD]			286.00
	GRT	(REGULAR MEETING) RETURN T FOR REGULAR MEETING [SPLIT LOCSD]			374.00
02/28/23	GRT	(REMOTE MEETINGS) REVIEW C RE PUBLIC COMMENT VIA REMO ATTENDANCE	F ANALYSI DTE	S 0.50	110.00
		Total Professional Service	s	15.80	\$3,476.00
		PROFESSIONAL SERVICES	SUMMARY		
Code	Name		Hours	Rate	Amount
ETM GRT		T. Murphy e "Ross" Trindle	5.60 10.20	220.00 220.00	1,232.00 2,244.00
		Total Professional Services	15.80		\$3,476.00
		Receipts Since Last B	Bill		
	Prior B	Balance On This Matter		-6,092.48	
	02/28/2 Less T	Description Tota 23 COUNTY OF SANTA BARBARA 23 COUNTY OF SANTA BARBARA Total Payments It Matter Due Amount		this Matter 3,628.48 2,464.00 \$6,092.48 \$3,476.00	
CURREN	T BILL TOT	AL AMOUNT DUE			\$3,476.00
Ralance F					
Dalarice i	orward:				6,092.48

Total Due:

\$3,476.00

Please return this page with remittance

to Aleshire & Wynder, LLP

Bill Number: 74136 March 6, 2023 Bill Date: Client Code: 01245 Client Name: **Los Olivos Community Services District** Matter Code: 0001 Matter Name: General **Total Professional Services** 3,476.00 **Total Disbursements** 0.00 **CURRENT BILL TOTAL AMOUNT DUE** \$3,476.00 Balance Forward: 6,092.48 Payments & Adjustments: -6,092.48 **Total Due:** \$3,476.00

Amount enclosed: _____

Thank You



650 NE Holladay St., Suite 900 Portland, OR 97232 P: 503.239.8799 accounting@gsiws.com www.gsiws.com

Los Olivos Community Services District

March 07, 2023

PO Box 345

Invoice No:

00876.001 - 24

Los Olivos, CA 93441

Project 00876.001 Groundwater Quality Management Services

- Finalize Monitoring well tech memo
- Provide summary of monitoring well installation during LOSCD Board meeting
- Project management

Professional Services from February 1, 2023 to February 28, 2023

Task	.003	Install Monitoring Well			
Labor					
			Hours	Rate	Amount
Principal	Consultant				
Thor	mpson, Timothy		5.00	265.00	1,325.00
Managin	g Geologist				
Lapo	stol, Andres		1.25	135.00	168.75

Totals 6.75 1,548.75 **Total Labor** 1,548.75

110.00

.50

Total this Task \$1,548.75

55.00

Task .004 Technical Memorandum and Submittals

Subconsultants

Administration

Crowe, Susan

Pace Analytical Services, LLC

2/24/2023 Pace Analytical Services, LLC Lab Analysis 279.00

Total Subconsultants 1.1 times 279.00 306.90

Total this Task \$306.90

Project Summary Current Period Prior Periods Invoiced to Date

Total Billings 1,855.65 94,287.52 96,143.17

Authorized Budget 95,900.00

Adjustment -243.17

Total this Invoice \$1,612.48

Outstanding Invoices

 Number
 Date
 Balance

 23
 2/9/2023
 4,206.25

 Total
 4,206.25



201 N. Calle Cesar Chavez | Suite 300 Santa Barbara, CA 93103

Main: 805 692 6921

WWW.MNSENGINEERS.COM

- > CIVIL ENGINEERING
- > CONSTRUCTION MANAGEMENT

> LAND SURVEYING

March 15, 2023

Project No: LOCSD.180392.00

Invoice No: 82597

Los Olivos Community Services District

P.O. Box 553

Los Olivos, CA 93441

Principal Jeffrey Edwards
Project Manager Douglas Pike

Project LOCSD.180392.00 District Support Services

This Invoice includes:

1. General District Support Tasks: \$813.75

2. Engineering Tasks:

a. REGEN Report Update Review (draft & final): \$277.50

b. GSI Well Report Review and comment: \$92.50

c. Assessment Engineer: \$0.00

d. General Engineering Tasks (Technical Committee): \$92.50

e. Grant Support (New Grant Opportunities Research): \$655.00

3. PRA Request: \$0.00

Level 2

Professional Services for the Period: February 1, 2023 to February 28, 2023

District Management

Professional Personnel

Hours Rate Amount

Administrative Support
Project Coordinator 7.75 105.00 813.75

Totals 7.75 103.00 013.75

Total Labor 813.75

Level 2 Subtotal \$813.75

Level 2 TASK02 Engineering Tasks

TASK01

Professional Personnel

Project Management
District Engineer
District Engineer
District Engineer
District Engineer
District Engineer
District Engineer

Project	LOCSD.180392.00	District Support Services			Invoice	82597
Project Me	eting					
Senior	Project Engineer		1.50	180.00	270.00	
Fund Deve	lopment/Grant Applications					
Admin	istrative Analyst		3.50	110.00	385.00	
	Totals		7.50		1,117.50	
Total Labor						1,117.50
			Level 2 Subtotal		ubtotal	\$1,117.50
			Current Invoice Amount		mount	\$1,931.25

Outstanding Invoices

Number	Date	Balance
82187	1/18/2023	2,302.50
82448	2/21/2023	2,716.25
Total		5,018.75

Project LOCSD.180392.00 **District Support Services** 82597 Invoice Billing Backup Wednesday, March 15, 2023 MNS Engineers, Inc. Invoice 82597 Dated 3/15/2023 8:59:34 AM Project LOCSD.180392.00 **District Support Services** Level 2 TASK01 District Management Professional Personnel Hours Rate Amount Administrative Support **Project Coordinator** Zepeda, Mary 2/1/2023 .50 105.00 52.50 FIN E-Notification Follow-up re GSI Vendor Change Form for DP; Update Budget Tracking Log based on Vendor Distributions 2/2/2023 .25 105.00 26.25 Zepeda, Mary File A&W Invoice; Update Budget Tracking Log Zepeda, Mary 1.00 105.00 105.00 2/10/2023 Assist GS and DP by compiling supporting documentation and submitting FIN New Vendor Form for Regen PLLC 52.50 Zepeda, Mary 2/13/2023 .50 105.00 Follow-up re FIN Notification related to New Ven Request for Regine; and assist with the submmission of the requested supporting documentation Zepeda, Mary 2/21/2023 105.00 472.50 Prepare A&W, ConfluenceES, GSI (5), GWS Invoices for payment via FIN; Follow-Up with DM re GSI Outstanding Invoices; Update Budget Tracking Log; Create and Process Single Payment Claims for A&W, ConfluenceES, GSI (5), GWS Invoices for DP 2/23/2023 105.00 Zepeda, Mary 1.00 105.00 Attend Workday Information Session - Local Agencies Meeting **Totals** 7.75 813.75 **Total Labor** 813.75 **Level 2 Subtotal** \$813.75 TASK02 Level 2 **Engineering Tasks Professional Personnel** Hours **Amount** Rate Project Management District Engineer Pike, Douglas 2/6/2023 .50 185.00 92.50 Review Groundwater report From GSI, email Guy Pike, Douglas 2/10/2023 1.00 185.00 185.00 Review Draft Regen Study & send comments to Guy 2/17/2023 92.50 Pike, Douglas .50 185.00 Tech Committee Meeting .50 Pike, Douglas 185.00 92.50 2/27/2023 Regen Report update review Project Meeting Senior Project Engineer .50 180.00 Jaquez, Gregory 2/7/2023 90.00 Discussion with D. Pike of CWSRF funding approach. Meeting coordination with SWRCB. Explore new Grant funding opportunities.

Project	LOCSD.180392.00	District Support Services			Invoice	82597
Jaquez, G	regory	2/9/2023	1.00	180.00	180.00	
•		d WRFP application proced	lures and			
	requirements for con					
Fund Deve	elopment/Grant Application	S				
Admii	nistrative Analyst					
Reineke, E	Elizabeth	2/10/2023	2.00	110.00	220.00	
	Review of project rep	oort for best grant approac	ch			
Reineke, E	Elizabeth	2/24/2023	1.50	110.00	165.00	
	Grant options review	for CWSRF and other pro-	grams ur	nder the		
	Water Board for sept	ic to sewer				
	Totals		7.50		1,117.50	
	Total Labor					1,117.50
			Level 2 Subtotal			\$1,117.50
				Projec	t Total	\$1,931.25
				Total this	Report	\$1,931.25

INVOICE

FROM:

Guy W. Savage PO Box 894 Los Olivos, Ca 93441

BILL TO:

Via electronic delivery President Thomas Fayram Los Olivos Community Services District PO Box 345 Los Olivos, Ca 93441

Dear President Fayram,

Please see the below for professional services provided, plus any expenditures made on behalf of the District. The attached tally of hours (units) exceeds those being billed below. This is being done to track the hours for future reference. Per agreement, the hours will be capped at the number below or as authorized by the President.

Date	Description	Units 💌	Rate 🔻	Amount 💌
3/31/2023	General Manager Services - LOCSD (3/1/23-3/31/23) See Attached for Details	30	\$ 135.00	\$ 4,050.00
Total				\$ 4,050.00

Thank you for your continued support.

Email: GM.LOCSD@gmail.com

Page 1 of 1

Invoice # 20233

Invoice Date: 3/31/2023

Date	Description	Hours		Rate	Amount
1-Mar	Fayram	0.75	\$	135.00	\$ 101.25
	Palmer	0.25	\$	135.00	\$ 33.75
	Emails	0.5	\$	135.00	\$ 67.50
2-Mar	Regen meeting coordination	0.25	\$	135.00	\$ 33.75
	Audit coordination	0.75	\$	135.00	\$ 101.25
	March Update posting	0.5	\$	135.00	\$ 67.50
	LAFCO extension request letter	0.5	\$	135.00	\$ 67.50
3-Mar	Regen meeting	1	\$	135.00	\$ 135.00
	LAFCO extension request letter, March Update	0.5	\$	135.00	\$ 67.50
5-Mar	Finance Agenda	1.5	\$	135.00	\$ 202.50
6-Mar	Fayram, Bill Morton - MuniFinance	2.25	\$	135.00	\$ 303.75
	LAFCO coordination	0.5	\$	135.00	\$ 67.50
9-Mar	Finance meeting	0.5	\$	135.00	\$ 67.50
	Finance minutes	0.5	\$	135.00	\$ 67.50
10-Mar	March Regular meeting agenda, posting, etc.	3	\$	135.00	\$ 405.00
	Regen TM	0.5	\$	135.00	\$ 67.50
	County EHS grant close-out	0.75		135.00	\$ 101.25
	EHS/RWQCB/LAFCO	0.75		135.00	\$ 101.25
	March Regular meeting preparation	1.25		135.00	\$ 168.75
11-Mar	Agenda posting/EHS grant closure	0.25		135.00	\$ 33.75
	Fayram meeting, well sampling follow ups	1	\$	135.00	\$ 135.00
	Regen prep for Wednedaty	0.5	\$	135.00	\$ 67.50
14-Mar	Regen prep for Wednesday, emails	0.5	\$	135.00	\$ 67.50
	Regular meeting	1.5		135.00	\$ 202.50
	Regular meeting minutes, post video, presentation	2	\$	135.00	\$ 270.00
	Regen follow up	0.5		135.00	\$ 67.50
	LAFCO letter	0.75		135.00	\$ 101.25
20-Mar	Fayram, Supv Hartmann meetings	1.5	\$	135.00	\$ 202.50
	LAFCO Presentation	0.75		135.00	\$ 101.25
22-Mar	LAFCO Presentation	1.25	\$	135.00	\$ 168.75
23-Mar	RWQCB meeting	1	\$	135.00	\$ 135.00
	EO N-4-23 - Groundwater recharge	1	\$	135.00	\$ 135.00
	West-side parcels, 1+ acres	0.5	\$	135.00	\$ 67.50
24-Mar	Pike meeting	1	\$	135.00	\$ 135.00
	Palmer Form 700, financing	0.25	\$	135.00	\$ 33.75
	Project Management subcommittee	1.25	\$	135.00	\$ 168.75
	LAFCO Presentation	2.25			\$ 303.75
27-Mar	Fayram		\$	135.00	\$ 135.00
	Emails, billing, etc.	0.75	\$	135.00	\$ 101.25
	Regen "Interview"	1	_	135.00	\$ 135.00
29-Mar	Technical Subcommittee	1.25		135.00	\$ 168.75
	Cloacina	0.25		135.00	\$ 33.75
31-Mar	EHS meeting	1.25		135.00	\$ 168.75
	Cloacina	0.25		135.00	\$ 33.75
		Totals 40			\$ 5,400.00

Invoice



Invoice number 326BDB28-0004
Date of issue April 1, 2023
Date due May 1, 2023

Streamline

United States +1 916-238-1811

support@getstreamline.com

Bill to

Douglas Pike - Los Olivos Community Services District

P.O. Box 345

Los Olivos, California 93441

United States +1 805-697-1416

dpike@mnsengineers.com

\$600.00 due May 1, 2023

Pay online

Description	Qty	Unit price	Amount
Streamline Web Member 50k-250k Apr 1, 2023 – Apr 1, 2024	1	\$600.00	\$600.00
	Subtotal		\$600.00
	Total		\$600.00
	Amount due		\$600.00

Need our W-9 for tax purposes? You can download it at www.getstreamline.com/w9. Streamline will be adjusting prices effective July 1, 2023, in accordance with the Bureau of Labor Statistics (BLS) Producer Price Index (PPI). Information on pricing can be found at: https://getstreamline.com/pricing. Questions? Call our customer hotline at (916) 238-1811 to speak to a friendly human!

Pay with ACH or wire transfer

Bank transfers, also known as ACH payments, can take up to five business days. To pay via ACH, transfer funds using the following bank information.

Bank name WELLS FARGO BANK, N.A.

Routing number 121000248

Account number 40630134959785748

SWIFT code WFBIUS6S

Pay \$600.00 by check

 Make payable to
 Streamline

 Memo
 326BDB28-0004

 Mail to
 PO Box 207561

 Dallas, TX 75320-7561

Please enclose a printed copy of this Invoice PDF and use USPS. (Courier services may not deliver to PO Boxes.) Once received, checks are processed within 3 business days.





Invoice #: 151

Invoice Date: 3/23/2023

Due Date: 3/23/2023

Case: 22031 Los Oli...

P.O. Number:

Bill To:

22031 Los Olivos Community Service Distri

Description	Hours/Qty	Rate	Amount
Los Olivos Community Regional and Local Alternatives Technical Memorandum Final Payment	Hours/Qty 1	1,250.00	1,250.00
	Total		\$1,250.00
		e/Crodite	\$0.00
	Payments		
	Balance I	Jue	\$1,250.00

ITEM 6 – EFFLUENT DISPOSAL STUDY









Effluent Disposal Alternatives Evaluation – Los Olivos Wastewater Reclamation Program Project

To: Guy Savage and Doug Pike, Los Olivos Community Services District

From: Tim Thompson and Andy Lapostol, GSI Water Solutions, Inc.

Dan Heimel, Confluence Engineering Solutions

Date: March 31, 2023

Executive Summary

This technical memorandum (TM) presents an analysis of treated wastewater effluent disposal alternatives conducted by Confluence Engineering Solutions, Inc. (ConfluenceES) and GSI Water Solutions, Inc. (GSI), for the Los Olivos Community Services District's (District) Los Olivos Wastewater Reclamation Program Project (LOWRPP).

The analysis includes an evaluation of multiple effluent disposal alternatives available to the District for the LOWRPP and provides a recommended alternative based on the evaluation criteria. Partial Reuse via Recycled Water Delivery is considered separately as a complement to any of the disposal alternatives. The following four effluent disposal alternatives were evaluated as part of this project:

- Percolation Ponds
- Percolation Chambers
- Shallow Aguifer Injection Wells
- Alamo Pintado Creek Outfall

Because the location for the LOWRPP has not yet been identified, this evaluation used the following criteria to compare the relative differences of each of the disposal alternatives and to develop the recommended alternative:

- Permitting Requirements
- Effluent Quality
- Social Considerations
- Footprint
- Water Resource Benefits



- Feasibility/Complexity/Reliability
- Monitoring Requirements
- Capital Costs
- Operations and Maintenance Costs

To provide a quantitative comparison of the disposal alternatives, ConfluenceES and GSI developed a ranking matrix that allowed each alternative to be scored relative to each of the identified criteria, with 1 representing the least favorable and 5 the most favorable. The total scores for each alternative were then calculated and used to develop overall rankings for each disposal alternative, as shown in Table ES-1.

Full Reuse of Recycled Water as the sole source of effluent disposal was not included in the scoring and ranking evaluation. It was determined that an independent cost analysis of Full Reuse of Recycled Water is warranted because the system would be entirely reliant on the ability to apply irrigation. While utilization of effluent from the LOWRPP for irrigation would provide significant benefits and correspond with potentially reduced treatment and permitting requirements, it would be difficult to rely upon delivery of recycled water as the only source of disposal. Partial Reuse of Recycled Water is recommended and described in the Partial Reuse of Recycled Water section of this TM and additional information on recycled water opportunities is included in the District's Recycled Water Master Plan.

Based on the results of the scoring and ranking evaluation, Percolation Ponds or Percolation Chambers are recommended as the preferred approach for effluent disposal. It is also recommended that the District continue to investigate opportunities for Partial Reuse of Recycled Water to complement a disposal alternative that can accommodate the full flow for the LOWRPP in the event that the irrigation customers, if identified, cannot always take delivery of the recycled water. This way, the effluent from the LOWRPP could be used for landscape and/or agriculture irrigation to reduce the quantity of effluent from the LOWRPP that will require disposal under normal conditions. Percolation Ponds or Percolation Chambers are recommended as the preferred approach for effluent disposal from the LOWRPP for the following reasons:

- 1. These disposal alternatives have the lowest permitting and effluent quality requirements of the primary disposal alternatives evaluated.
- 2. Visual social impacts of percolation ponds can be mitigated with percolation chambers, if desired.
- 3. There is limited construction or operational complexity associated with these disposal alternatives.
- 4. These alternatives are anticipated to have the lowest capital and operations & maintenance costs of the evaluated alternatives.

Additional detail regarding each of the disposal alternatives and the scoring and ranking evaluation is provided in the Disposal Alternatives Evaluation section of this TM.

Table ES-1. Effluent Disposal Alternative Scoring and Ranking

Disposal Alternative	Effluent Disposal Alternative	Permitting Requirements	Effluent Quality	Social Considerations	Footprint	Water Resource Benefits	Feasibility/ Complexity/ Reliability	Monitoring Requirements	Capital Cost	Operations & Maintenance Cost	Total Score	Ranking
Percolation ponds	An open, graded impoundment that is designed to dispose of treated effluent via percolation	5	5	2	2	3	4	4	5	4	34	1
Percolation chambers	Buried impoundments, either above or below ground surface that is designed to dispose of treated effluent via percolation	5	5	4	1	3	3	4	4	4	33	2
Shallow aquifer injection wells	Shallow aquifer injection wells (<100-150 feet deep) that inject treated effluent into the saturated portion of the upper aquifer	1	1	5	5	4	1	1	1	1	20	4
Alamo Pintado Creek outfall	Discharge outlet to Alamo Pintado Creek for disposal of treated effluent	2	2	3	4	3	2	2	3	2	23	3

Introduction

The unincorporated township of Los Olivos is located in the Santa Ynez Valley of Santa Barbara County, California. The community of Los Olivos has a total of 384 parcels with approximately 350 septic systems. In 1974, Santa Barbara County designated Los Olivos as a Special Problems Area due to nitrate contamination of the groundwater. Los Olivos is located within the Santa Ynez Uplands Groundwater Basin.

Based on various risk factors, it has been concluded that there are significant groundwater quality issues with the use of septic systems in the Los Olivos area contributing to the Special Problems Area designation. Properties in Los Olivos currently rely on individual septic systems for wastewater disposal and there is no sanitary sewer collection system or wastewater treatment plant in the community.

In 2018, Los Olivos voters formed the District to provide a funding mechanism for the development, building, and operation of facilities needed to collect, treat, reclaim, and dispose of sewage, wastewater, recycled water, and storm water in Los Olivos. Per Adopted Resolution 2019-04, the LOWRPP was implemented to define a strategy to provide economically viable wastewater treatment and reclamation solutions to the residents and property owners within the District that meets both public health needs and the regulatory requirements of the Regional Water Quality Board (RWQCB).

Since 2018, the District has completed multiple initiatives toward the development of the LOWRPP, including the following:

- LOWRPP Basis of Design Report
- 30% Design for LOWRPP Gravity Collection System and Treatment Plant
- 10 to 15% Design for LOWRPP Septic Tank Effluent Pumping (STEP) Collection System and Treatment estimate
- Installation of two groundwater monitoring wells

This TM presents an analysis of treated wastewater effluent disposal alternatives for the LOWRPP and it builds upon previously completed work for the LOWRPP.

Effluent Disposal Alternatives

For the Effluent Disposal Alternatives Evaluation, the following four effluent disposal alternatives were evaluated:

- Percolation Ponds
- Percolation Chambers
- Shallow Aquifer Injection Wells
- Alamo Pintado Creek Outfall

Partial Reuse of Recycled Water is described in a separate section as this practice can complement any of the disposal alternatives.

Land Application or Spray Fields are an alternative method that could be utilized for wastewater disposal. Land Application relies upon evaporation, evapotranspiration and percolation to dispose of wastewater and can be restricted from operating prior to and during rainfall events, when the soil is saturated and when wind speeds exceed certain thresholds. Due to these restrictions and the anticipated extensive amount of area required for this disposal alternative, it was not evaluated in detail in this TM.

Information on each of these disposal alternatives relative to the scoring criteria and other considerations is provided in the following sections. This information is provided without knowing the location of the LOWRPP and thus provides only a comparison of each of the disposal alternatives relative to the other available alternatives. Due to the unknown location of the LOWRPP, site-specific details for each of the disposal alternatives were not evaluated. However, the information in this TM can assist in selection of the location for LOWRPP and can be readily applied to support the design of the LOWRPP disposal system.

Percolation Ponds

This alternative would include disposal of effluent from the LOWRPP to one or more dedicated percolation ponds. A percolation pond is an open, graded impoundment that is designed to temporarily contain the treated effluent flows as they migrate into the subsurface via percolation.

Permitting Requirements

Effluent disposal via percolation ponds would most likely be enrolled in the Regional Water Quality Control Board General Waste Discharge Requirements (WDR) for "Discharges From Domestic Wastewater Systems With Flows Greater Than 100,000 Gallons Per Day," Order No R3-2020-0020 (General Order). The LOWRPP is anticipated to be located in the Santa Ynez River Valley Ground Water Basin in the Santa Ynez Sub-Basin and would be required to meet the water quality of the General Permit and Water Quality Control Plan for the Central Coast Basin (Basin Plan).

Effluent Quality Requirements

Treated effluent will be required to comply with effluent limitations specified in Section V of the General Order. Because the LOWRPP Wastewater Treatment Plant is proposed to use membrane bioreactor (MBR) treatment technology, Table 5 in the General Order will apply (see Table 1 in this TM below). Because the proposed point of compliance is above ground and the discharge is located within a designated groundwater basin, Table 6 in the General Order will also apply (see Table 2 in this TM below).

Table 1. Secondary Treatment Effluent Limitations – Activated Sludge, Membrane Biological Reactor, Sequencing Batch Reactor, or Similar Systems (from General Order R3-2020-0020)

Constituent	Units	30-Day Average	7-Day Average	Sample Maximum
Biochemical Oxygen Demand, 5-Day	mg/L	30	45	Not Applicable
Total Suspended Solids	mg/L	30	45	Not Applicable
Settleable Solids	mL/L	0.1	0.3	0.5
рН	Not Applicable	Between 6.5 and 8.4	Not Applicable	Not Applicable

Table 2. Effluent Limitations for Designated Groundwater Basins, 25-Month Rolling Median in mg/L (from General Order R3-2020-0020)

Basin/Sub- Area	Total Dissolved Solids	Chloride	Sulfate	Boron	Sodium	Total Nitrogen
Santa Ynez	600	50	10	0.5	20	10

Salts are a potential issue and will need to be explored further with the Regional Water Quality Control Board (RWQCB). The Central Coast RWQCB Executive Officer may direct the development and implementation of a salt management plan and implementation of salt mitigation measures and/or treatment systems when one of following occurs:

- i. If a Discharger does not treat the wastewater to the effluent limitations specified in Table 2.
- ii. Wastewater System effluent data and groundwater quality data demonstrates negative impacts or trends towards negative impacts to groundwater.

Monitoring Requirements

The District would be required to comply with both the General Order and the Monitoring and Reporting Program (MRP). The MRP applies to the monitoring and reporting requirements for wastewater treatment and disposal systems (Wastewater Systems) enrolled in the General Order. The MRP will require monitoring and reporting of the water supply, influent and effluent, wastewater disposal, sludge-biosolids disposal, and possibly groundwater monitoring.

Effluent quality point of compliance is anticipated to be just prior to discharge into the ponds and be above ground. Since the point of compliance is just prior to discharge into the ponds, a groundwater monitoring requirement is not anticipated as long as effluent quality meets the effluent limits presented in Table 2. Influent and effluent monitoring and reports include flow monitoring and constituent monitoring by wastewater system type. In addition to the constituent monitoring, a percolation pond disposal system requires the following parameters to be monitored: freeboard, odors, dissolved oxygen, berm condition, sludge depth, and precipitation.

Social Considerations

Percolation ponds could have the largest visual impact of the various disposal alternatives evaluated in this report. Also, ponds may have a perception of nuisance odors. However, the effluent from the LOWRPP will be very high quality and have limited odor potential. Odor impacts can be mitigated by sizing the percolation pond such that there is limited standing water during dry weather flow operations and standing water only occurs during wet weather periods.

Footprint

A total of 1.2 acres would be required for a percolation pond disposal system with 100% redundancy. The minimum footprint of a percolation pond disposal system for the LOWRPP would require approximately 0.6 acres, which is a smaller footprint than percolation chambers but significantly more than the shallow well injection or creek discharge disposal alternatives. The minimum footprint area is calculated based on the assumption of a Maximum Daily Flow of 380,000 gpd (Phase III from the Basis of Design Report) and a conservative percolation rate of 2 ft/day. This percolation rate assumption was based on a survey of percolation tests performed for septic systems in the Los Olivos area, provided by the Santa Barbara County Department of Public Health, see Figure 1 below.

Multiple percolation ponds utilized in a lead/lag operation could be constructed to increase infiltration rates by allowing each pond to dry out in between disposal operation periods and also allow for pond maintenance. Incorporating additional ponds for operational flexibility and redundancy would increase the footprint for the percolation pond alternative. Additionally, the ponds must have the capacity to handle stormwater flow while maintaining freeboard requirements. The final footprint will be determined by percolation rates at the LOWRPP disposal site location and level of redundancy/operational flexibility incorporated into the design.

Water Resource Benefits

With the exception for limited evaporative losses, a high percentage of the wastewater discharged into the ponds will percolate down and recharge the sediments of the shallow aquifer in the area beneath and adjacent to the disposal site.

Feasibility/Complexity/Reliability

Available land area that is suitable for pond construction and located with sufficient setbacks is required. The pond construction, operation, and maintenance are not complex. This type of wastewater disposal is used in several nearby Wastewater Treatment Facilities and is commonly used nationwide for wastewater disposal.

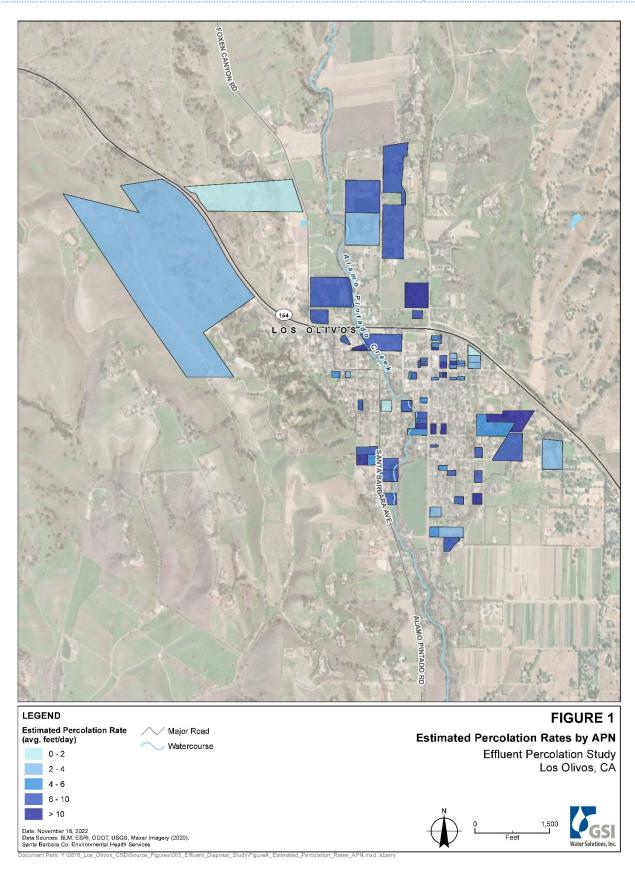


Figure 1. Estimated Percolation Rates by APN

Capital Cost

The (2) 0.6 acre percolation ponds (100% redundancy) are estimated to cost \$700,000 to build, see **Error!**Not a valid bookmark self-reference. below. This estimate is based on analog grading operations for pad clearing and berm building in San Luis Obispo County in 2022, factored for the size and labor type required. Delivery piping and valving are similar in cost as other disposal alternatives and are not included.

Table 3. Percolation Pond Area and Cost Estimate

Maximum Daily Flow (gpd)	380,000
Perc Rate (ft/day)	2
Minimum Percolation Pond Area (acres)	0.60
Percolation Ponds w/ 100% Redundancy (acres)	1.2
Pond Area (square feet)	26,136
Berm Ht (ft)	4
Perimeter (ft)	905
Top Width (ft)	3
Slope	2:1
Analog Pad Grading With Berms SLO County – 2022	
Pad Grading –Area (acres)	0.25
Pad Grading Cost	\$115,173
Analog Factor	2.40
Prevailing Wage Factor	1.25
Percolation Pond Cost Each	\$350,000
Percolation Pond Cost w/100% Redundancy	\$700,000

Operations & Maintenance

Ponds and the facilities must be fenced off from public access and proper signage must be posted. Percolation ponds require algae and weed removal to maintain percolation rates and may require mosquito abatement programs. To ensure the integrity of the berms, rodents, weeds, and erosion must be controlled. Dissolved Oxygen in the pond must be maintained to at least 1.0 mg/L, surface aerators are commonly used for this purpose.

Percolation Chambers

This alternative would include disposal of effluent from the LOWRPP to percolation chambers. Percolation chambers are a wastewater disposal system consisting of trenches with one or more distribution pipes and open-bottomed plastic chambers, installed in appropriate soils. These chambers receive wastewater flow and transmit it into soil for disposal. A typical percolation chamber consists of several high-density polyethylene arch-shaped, injection-molded chamber segments. Percolation chambers are a variation of leach lines and typically are quicker to install, use less gravel, and potentially require less area. An example of a percolation chamber under construction is provided in Figure 2 below.



Figure 2. Percolation Chamber Installation, Broderson Effluent Disposal, Los Osos, CA

Seepage pits are another form of disposal that can provide footprint benefits. This disposal technique would be operated with effluent limits equal to the Santa Ynez Sub-basin groundwater quality objectives. In discussions with the representatives from the RWQCB it was described that seepage pits could potentially provide for increased percolation rates because of the potential ability to penetrate shallow confining clay layers and discharge into higher conductivity materials below. In general, each seepage pit would be a 4-6 ft diameter cylindrical excavation, the depth varying depending on soil conditions and depth to groundwater but typically 30-40 ft deep. Each seepage pit is gravel filled and has a centrally located, perforated four-inch diameter pipe that extends from the inlet to the bottom of the pit. When soil testing indicates that multiple seepage pits are necessary in order to provide adequate percolation capacity, it is important that the wastewater flow to each pit start at a equalization tank (dosing tank) and dosed evenly across all seepage pits. Additionally, seepage pits must not connect directly to the saturated portion of the aquifer or they are regulated as injection wells, see Shallow Aquifer Injection Wells section, and thus can only be drilled to a certain depth depending on the groundwater level in the area around the LOWRPP.

Permitting Requirements

The permitting requirements for percolation chambers are anticipated to be the same as for percolation ponds. For details regarding the effluent disposal requirements for percolation chambers see the Percolation Ponds section of this TM.

Effluent Quality Requirements

The effluent quality requirements for percolation chambers are anticipated to be the same as for percolation ponds. For details regarding the effluent disposal requirements for percolation chambers see the Percolation Ponds section of this TM.

Monitoring Requirements

The monitoring requirements for percolation chambers are anticipated to be similar to percolation ponds. The General Monitoring and Reporting Program is anticipated to require monitoring and reporting of the water supply, influent and effluent, wastewater disposal, and sludge-biosolids disposal. Since the point of compliance is near surface, a groundwater monitoring requirement is not anticipated.

Social Considerations

Percolation chambers have a low visual impact. The surface above the chambers can be landscaped. The Los Osos Water Recycling Facility utilizes percolation chambers for wastewater disposal and after replanting with native vegetation the disposal area is virtually indistinguishable from the surrounding undisturbed area, see Figures 3, 4, and 5 below. By constructing the disposal area underground, percolation chambers remove concerns about odors and mosquitos and can be compatible with multiple neighboring land uses. Additionally, the disposal area could also be utilized for community benefit (e.g., park, recreation, etc.).



Figure 3. Broderson Effluent Disposal before Revegetation, Los Osos, CA



Figure 4. Broderson Effluent Disposal after Revegetation, Los Osos, CA



Figure 5. Broderson Effluent Disposal Aerial View, Los Osos, CA

Footprint

Percolation chambers require the largest area of all the disposal alternatives. The percolation chamber is estimated to have a minimum footprint of approximately 3.83 acres, including 100% redundancy. The minimum footprint area estimate is based on the analog Broderson Effluent Disposal System in Los Osos with the assumption of a Maximum Daily Flow of 380,000 gpd (Phase II from the Basis of Design Report). If percolation chambers are selected, consultation with manufacturer and coordination with the RWQCB is recommended in order to establish actual application rates for this disposal alternative. Through consultation there may be an opportunity to reduce the footprint required for the percolation chamber disposal alternative.

Water Resource Benefits

With the exception of potential losses to evapotranspiration from the overlying vegetation, a high percentage of the wastewater discharged into the percolation chambers will percolate down and recharge the perched or upper aquifer in the area around the disposal site.

Feasibility/Complexity/Reliability

Available land area that is suitable for percolation chamber construction and located with sufficient setbacks is required. The percolation chamber construction, operation, and maintenance are not complex. This type of wastewater disposal is used in several nearby WWTPs and is commonly used nation-wide for wastewater disposal.

Capital Cost

The 3.83-acre effluent disposal system with percolation chambers, including 100% redundancy, is estimated to cost approximately \$1,154,635 to build, see Table 4 below. This estimate is based on the construction cost for the Broderson Effluent Disposal System in Los Osos in 2014. The costs were escalated using the Caltrans Cost Index and scaled for the smaller sized system. Delivery piping and valving are similar in cost as other alternatives and not included.

Table 4	Percolation	Chamber A	Area and	Cost Estimate

Broderson Effluent Disposal Analog, w/100% Redundancy								
Broderson Max Daily Flow (gpd)	800,000							
Broderson Acres	8.06							
Los Olivos Max Daily Flow (gpd)	380,000							
Analog Factor	0.475							
Perc. Chamber Area Req. (acres)	3.83							
Broderson Effluent Disposal System 2014 (incl. 100% redundancy=8 acres)	\$1,653,612.00							
Los Olivos Perc Chamber Cost 2014\$	\$785,466							
Caltrans Cost Index 2022	94.48							
Caltrans Cost Index 2014	64.08							
Cost Factor	1.47							
Percolation Pond Cost	\$1,154,635							

Operations & Maintenance

Percolation chambers typically require minimal maintenance. However, percolation rates should be monitored to provide early detection of significant reductions in percolation rates. Additionally, it may be beneficial to pressure dose and alternate which chambers are utilized for disposal to allow the chambers to dry out between uses to prevent biological growth and creating the potential for fouling and reduced percolation rates. The final footprint will be determined by percolation rates at the LOWRPP disposal site location and level of redundancy/operational flexibility incorporated into the design.

Shallow Aquifer Injection Wells

This alternative would include disposal of effluent from the LOWRPP through shallow aquifer wells (<100-150 feet deep) that inject treated effluent into the saturated portion of the upper aquifer. The injection facility would include the injection wells and also electrical controls equipment for control and monitoring of well operations.

Permitting Requirements

During discussions with the RWQCB, it was identified that injection wells discharging into the saturated zone of the aquifer would be considered an Indirect Potable Reuse (IPR) Groundwater Replenishment Reuse Project (GRRP). This type of subsurface application is described by Title 22 of the California Code of Regulations (CCR) Article 5.2 Indirect Potable Reuse: Groundwater Replenishment - Subsurface Application. GRRPs are regulated by the State Water Recourses Control Board – Division of Drinking Water (DDW) and the RWQCB.

GRRPs that utilize subsurface application (i.e., injection) are required to use Full Advanced Treatment, which includes Reverse Osmosis (RO) and Advanced Oxidation (AOP) processes and meet the criteria of CCR Title 22 Section 60320.201. Additional key considerations of Article 5.2 include:

- Response Retention Time. The recycled municipal wastewater shall be retained underground for a minimum period of time necessary to allow sufficient response time to identify treatment failures and implement actions. The response time shall be no less than two months. The response time is calculated by analytical or groundwater modeling and assigned a corresponding safety factor. The response time is verified with tracer studies.
- Recycled Municipal Wastewater Contribution (RWC). This regulation is established to ensure the treatment process can reliably achieve Total Organic Carbon (TOC) concentrations of no greater than 0.5

mg/L. The RWC is the quantity of recycled wastewater divided by the sum of the quantity of recycled wastewater and dilution water. The initial maximum RWC which may be up to 1.0, will be based on, but not limited to, DDW's review of the engineering report, information obtained as a result of the public hearings(s), and a project sponsors demonstration that the treatment processes will reliably achieve TOC concentrations no greater than 0.5 mg/L. Assuming the recycled water is Fully Advanced Treated, the TOC concentration would likely be zero or near zero and RWC contribution requirement could be as low as 0 (zero).

- Total Organic Carbon (TOC). TOC monitoring is required and TOC shall not be greater than 0.5 mg/L.
- Pathogenic Microorganism Control. The GRRP treatment system must achieve 12-log enteric virus reduction, 10-log Giardia cyst reduction, and 10-log Cryptosporidium oocyst reduction. The treatment train shall consist of at least three separate treatment processes. For each pathogen, a separate treatment process may be credited with no less than 1.0-log reduction. For each month retained underground the reduced wastewater will be credited with a 1.0-log virus reduction based on the method used to demonstrate retention. Tracer studies retention times receive more credit, modeled retention times receive less credit.
- Monitoring Well Requirements. 2 monitoring wells downgradient of each injection well are required.

A Title 22 Engineering Report is required to demonstrate compliance with the CCR and specifically Article 5.2 of Title 22. The Title 22 Engineering Report would likely include the following sections: Project Facilities, Source Wastewater, Full Advanced Treatment Recycled Water Quality, Pathogenic Microorganism Control, Response Retention Time, Geologic Setting, Injection & Monitoring Wells, Groundwater Recharge Impacts, Proposed Monitoring and Reporting, and an Operations and Contingency Plan.

Effluent Quality Requirements

The water quality objectives for a GRRP would be designed to exceed the requirements set forth by the CCR Title 22 Criteria which include a total nitrogen limit, TOC limit, Primary and Secondary MCLs, lead and copper Action Levels, and DDW notification levels (NLs). GRRP water quality objectives are summarized in Table 5. The Fully Advanced Treated water that is injected via the injection wells would also need to meet the Basin Plan objectives for the Santa Ynez sub-area set by the Central Coast RWQCB, see Table 6 below. For constituents that also have Primary MCLs, Secondary MCLs, or NLs, the more stringent threshold will set the purified water quality objective.

Table 5. GRRP Water Quality Objectives

Regulation	Parameter	Constituent	Article 5.2 Section	Reference
		MCL, Inorganic Chemicals	60320.212	Table 64431-A
	Primary Drinking	MCL, Radionuclide Chemicals		Table 64442 Table 64443
	Water Standards	MCL, Organic Chemicals		Table 64444-A
		MCL, Disinfection Byproducts		Table 64533-A
		Action Level, Lead & Copper		
Title 22	Secondary Drinking Water Standards	Secondary MCL Constituents		Table 64449-A, Table 64449-B
	Additional Chemical & Contaminant Monitoring	Notification Level Contaminants	60320.220	
	Pathogens	Enteric virus, Giardia, Cryptosporidium	60320.208	
	Total Organic Carbon	TOC	60320.218	
	Total Nitrogen		60320.210	
Basin Plan	Water Quality Objectives			

Table 6. Central Coast Basin Plan Median Groundwater Objectives (mg/L)

Basin/Sub Area	TDS	CI	S04	В	Na	N
Santa Ynez River Valley Santa Ynez	600	50	10	0.5	20	1

Additionally, if the Fully Advanced Treatment Process is unable to meet the treatment requirements the LOWRPP must be able to stop delivery of the treated water to the injection wells and divert back to the headworks or earlier portion of the treatment process. If there was an extended period time where the Advanced Treatment Process was not functioning properly, the LOWRPP may need an alternate method of disposal that it could achieve without Full Advanced Treatment. It is possible that with the Injection Well disposal alternative the LOWRPP might be required to have an additional back-up disposal method (e.g., perc pond, creek outfall, etc.) to ensure that it can continuously dispose of treated effluent.

Due to the requirement to utilize RO as a component of the Full Advanced Treatment process, the LOWRP would generate a RO concentrate waste stream equaling approximately 15 to 30% of the influent or feed water flow rate to the RO system. This RO concentrate waste stream would include concentrated dissolved solids and pathogens and likely requires hauling or pumping to an ocean outfall for disposal.

Monitoring Requirements

The monitoring and reporting requirements would require demonstration of compliance with the Title 22 requirements for groundwater replenishment with recycled water, the SWRCB Amended Recycled Water Policy

and the Water Quality Control Plan for the Central Coastal Basin. Monitoring can be continuous, daily, weekly, monthly, quarterly semi-annual, or annual. Self-monitoring reports must be submitted to the Division of Drinking Water (DDW) monthly.

It is anticipated that the monitoring requirements Shallow Aquifer Injection Wells would include:

Influent Water Quality

- Flowrate
- BOD
- TSS
- Total Nitrogen

Effluent Water Quality

- Flowrate Continuous
- pH Continuous
- Turbidity Continuous
- Temperature
- Coliform
- TDS
- Total Organic Carbon (TOC)
- Total Nitrogen
- Inorganics with Primary MCLs
- Volatile Organic Chemicals (VOCs) with Primary MCLs
- Synthetic Organic Chemicals with Primary MCLs
- Disinfection Byproducts with Primary MCLs
- Radionuclides with Primary MCLs
- Action Levels (Copper & Lead)
- Acute Contaminants
- Constituents with Secondary MCLs
- Notifications and Response Level Constituents
- Remaining Priority Pollutants
- Constituents of Emerging Concern

Groundwater Monitoring

Groundwater monitoring will be required for the on-going assessment of groundwater quality and to determine any impacts from the recharge of the recycled water by the LOWRPP. Groundwater monitoring must comply with Title 22 Section 60320.226. Should any of the groundwater monitoring results exceed the MCL for a specific contaminant, a second sample shall be analyzed for the contaminant within 48 hours of being notified by the laboratory. If the second sample exceeds MCL, within 24 hours of being notified by the laboratory, the District would be required to notify DDW and the RWQCB and discontinue injection of the recycled water. Recycled water injection can recommence once corrective actions have been taken or evidence is provided to DDW and RWQCB that the contamination was not a result of the Project.

To perform the groundwater monitoring additional monitoring wells would be required. The criteria for the monitoring wells are outlined below, see Title 22 Section 60320.226 for additional information.

- Upgradient Well. 30-day minimum upgradient of potable extraction wells.
- Downgradient Well. 2 weeks to 6 months downgradient of the injection wells.

Social Considerations

Injection wells and associated monitoring wells would have a low visual impact and footprint and would have limited social considerations.

Footprint

Injection wells and the associated monitoring wells would have a very small footprint relative to the other disposal alternatives.

Water Resource Benefits

The ability to target the specific location of the injected water in the groundwater basin would improve the capability to utilize this disposal alternative to provide water resources benefits.

Feasibility/Complexity/Reliability

This disposal alternative has a high level of complexity due to the additional treatment processes required, monitoring requirements, concentrate disposal and the need for an alternate disposal method in the event that the Advanced Treatment process cannot meet the require specifications.

Capital Cost

Approximately \$300,000 per injection well; likely 3 wells needed; delivery pipeline and valving similar in cost as most other alternatives.

Operations & Maintenance Cost

Regular maintenance, including periodic backwashing and well rehabilitation will be required to maintain the capacity of the injection wells. Additionally, for shallow injection well disposal there are additional treatment, RO concentrate disposal and groundwater monitoring requirements that contribute to significantly higher O&M costs relative to the other disposal alternatives.

A preliminary cost estimate for RO concentrate disposal was developed to assist the District in better understanding the potential costs associated with this alternative. The costs estimate below was developed utilizing discharge costs from South San Luis Obispo County Sanitation District, located in Oceano, California and waste hauling costs from a recent project in San Luis Obispo County.

Table 7. RO Concentrate Disposal Cost Estimate

Maximum Daily Flow (gpd)	380,000
RO Recovery (%)	85%
RO Concentrate Produced (gpd)	57,000
Discharge Costs	
Brine Discharge Costs (\$/gal)	\$0.11
Disposal Costs (\$/day)	\$6,270
Hauling Costs	
Hauling Truck Volume (gal)	4,000
Haul Trips (Trips per day)	8
Haul Trip Duration (hr)	3
Hauling Hours (hr/day)	24
Hauling Costs (\$/hr)	\$221
Hauling Costs (\$/day)	\$5,315
Total Disposal Costs (\$/day)	\$11,585

Alamo Pintado Creek Outfall

This alternative would include disposal of effluent from the LOWRPP to Alamo Pintado Creek where it will flow downstream and/or percolate into the creek bed. The creek outfall facility will likely consist of the outfall structure which includes a flow dissipater and armored creek bank. The facility will also likely include temperature measurement upstream & downstream, flow measurement, and also electrical controls equipment for control and monitoring of outfall operations.

Permitting Requirements

Discharge into Alamo Pintado Creek is considered a discharge of pollutants through a point source to surface waters of the United States. As authorized by the Clean Water Act, the National Pollutant Discharge Elimination System (NPDES) program controls water pollution by regulating point sources that discharge pollutants into waters of the United States.

The NPDES Program is a federal program which has been delegated to the State of California for implementation through the State Water Resources Control Board (State Water Board) and the nine RQWCBs. In California, NPDES permits are also referred to as waste discharge requirements (WDRs) that regulate discharges to waters of the United States.

NPDES permits contain effluent limits that limit the pollutants discharged and require monitoring & reporting to ensure that the discharge meets the effluent limits. NPDES permits are approved by the United States Environmental Protection Agency (EPA) and significant violations of effluent quality or monitoring/reporting are subject to federal Mandatory Minimum Penalties (MMP) of \$3,000 for each violation. NPDES permits are reviewed by the RWQCB every 5 years for renewal, although NPDES permits can be administratively extended if the facility reapplies more than 180 days before the permit expires

Technical studies are likely to be required for Creek Outfall alternative to support the County's Land Use Permitting process. For the Creek Outfall these are likely to include:

Jurisdictional Delineation (JD) - The purpose of the JD is to determine the extent of State and federal
jurisdictional waters within the project area potentially subject to regulation by the U.S. Army Corps of
Engineers (USACE) under Section 404 of the Clean Water Act (CWA), RWQCB under Section 401 of the

CWA and Porter Cologne Water Quality Control Act, and California Department of Fish and Wildlife (CDFW) under Section 1602 of the California Fish and Game Code (FGC), respectively.

Biological Resource Assessment (BRA) - The purpose of the BRA is to address potential project-related impacts on designated critical habitats and/or any special status species protected under the federal Endangered Species Act (ESA), California Endangered Species Act (CESA), CDFW and/or California Native Plant Society (CNPS).

Effluent Quality Requirements

Effluent limits can be technology-based limits which are based on the technology available to control the pollutants or water quality-based limits which are limits that are protective of the water quality standards of the receiving water. For new facilities since there is no effluent data, the RWQCB will consider similar discharge types in the area.

For water quality-based limits, the RWQCB selects standards based on the Beneficial Uses assigned to the receiving water body in the Basin Plan. In addition, if the receiving water body is listed in the Federal 303(d) list as an impaired water body, then Total Maximum Daily Loads (TMDLs) will be also be considered. An individual NPDES permit would include annual monitoring requirements for priority pollutants to allow for a more robust set of data to inform development of water quality-based effluent limits in future permit renewals.

Alamo Pintado Creek has the following Beneficial Uses Listed in the Basin Plan: MUN, AGR, IND, GWR, REC1, REC2, WILD, WARM, COMM. Of these beneficial uses, MUN & GWR will likely have the most stringent requirements. MUN is municipal and domestic supply. MUN requires discharges to meet drinking water standards (Title 22 CCR). GWR is groundwater recharge and may require salts and nutrient regulation standards. WARM is warm freshwater habitat and this beneficial use could be used to apply temperature limits on the discharge.

Alamo Pintado Creek is not listed on the impaired waterbody federal 303(d) list, however, Alamo Pintado Creek flows into the Santa Ynez River. The Santa Ynez River is listed on the 303(d) list as Category 5: standards are not met, TMDL required but not yet completed. The TMDLs that are required but not yet completed are as follows, with listed scheduled completion dates: Nitrate (2018), Dissolved Oxygen (2018), Temperature (2023), Toxicity (2023), Chloride (2027). E Coli (2027), Fecal Coliform (2027), Sedimentation/Siltation (2027), Sodium (2027), TDS (2027) and pH (2027). As such, there are no TMDLs for Alamo Pintado Creek but the future TMDLs associated with the Santa Ynez River may affect effluent quality requirements for a Creek Outfall for the LOWRPP.

Sources of Applicable Water Quality Objectives

- Water Quality Control Plan for the Central Coast Basin, Region 3 Water Board
- Title 22 Drinking Water Standards, California Code of Regulations (Due to MUN in Basin Plan)
- California Toxics Rule (CTR)

Technology based effluent limits are estimated below and are based on the Waste Discharge Requirements in General Order R3-2020-0020. In addition, the Monthly average percent removal for BOD & TSS shall not be less than 85 percent.

Table 8. Secondary Treatment Effluent Limitations – Activated Sludge, Membrane Biological Reactor, Sequencing Batch Reactor, or Similar Systems

Constituent	Units	30-Day Average	7-Day Average	Sample Maximum
Biochemical Oxygen Demand, 5-Day	mg/L	30	45	Not Applicable
Total Suspended Solids	mg/L	30	45	Not Applicable
Settleable Solids	mg/L	0.1	0.3	0.5
рН	Not Applicable	Between 6.5 and 8.4	Not Applicable	Not Applicable

Additional technology based effluent limits are presented in Table 9 below for reference. These limits are for two similar NPDES permitted wastewater discharges to a creek: San Luis Obispo (R3-2014-0033); and Lompoc (R3-2011-0211).

Table 9. Reference Technology-Based Effluent Limits Summary

Constituent	Units	2014 SLO Permit	2011 Lompoc Permit
BOD	mg/L	10 Mo. Avg, 50 Max Daily	10 Mo. Avg, 20 Max Daily
TSS	mg/L	10 Mo. Avg, 75 Max Daily	10 Mo. Avg, 20 Max Daily
Oil & Grease	mg/L	5 Mo. Avg, 10 Max Daily	5 Mo. Avg, 10 Max Daily
Settleable Solids	mL/L	0.1 Mo. Avg	0.1 Mo. Avg, 0.3 Max Daily
Turbidity	NTU	_	10 Mo. Avg, 20 Max Daily
рH	s.u.	6.5-8.3	6.5-8.3
Flow	MGD	Average Daily	Monthly Average

Additionally, the water quality based effluent limits presented in Table 10 below are from the San Luis Obispo (R3-2014-0033) and Lompoc (R3-2011-0211) NPDES Permits. The constituents receiving water quality-based effluent limits in an NPDES permit are determined through a Reasonable Potential Analysis (RPA), which compares anticipated LOWRPP effluent maximum concentrations to the applicable water quality standards. Therefore, the water quality based effluent limits for a future Alamo Pintado Creek discharge will not be the same. Also, the toxicity limits and monitoring requirements will soon change. The new provisions use a data analysis approach that is known as the Test of Significant Toxicity (TST). SWB has adopted these new toxicity provisions and they will go into effect for all NPDES permits upon USEPA approval (expected early 2023). More information can be found at the California State Water Resources Control Board website under Statewide Toxicity Provisions.

Table 10. Reference Water Quality Based Effluent Limits Summary

Constituent	Units	2014 SLO Permit	2011 Lompoc Permit
Un-ionized Ammonia	mg/L	_	0.025 Avg Weekly
Nitrate, Total (as N)	mg/L	10 Mo. Avg	10 Max Daily
Bis (2-ethylhexyl) Phthalate	µg/L	_	1.8 Mo. Avg, 3.6 Max Daily
Aluminum	mg/L	_	1.0 Mo Avg
Toxicity	Not Applicable	EPA-821-R-02-012	EPA-821-R-02-012
Fecal Coliform	MPN/100mL	Required	Required
Salinity - TDS	mg/L	_	1,100 Annual Mean
Salinity - Sodium	mg/L	_	270 Annual Mean
Salinity - Chloride	mg/L	_	250 Annual Mean
Chlorodibromomethane	μg/L	0.4 Mo. Avg, 1.0 Max Daily	_
Dichlorobromomethane	μg/L	0.56 Mo. Avg, 1.0 Max Daily	_
N-Nitrosodiummethylamine	µg/L	0.00069 Mo. Avg, 0.00014 Max Daily	_
Dissolved Oxygen	mg/L	4.0 Instantaneous	_
Chlorine Residual	mg/L	ND Max Daily	_

Alamo Pintado Creek is designated as warm freshwater habitat (WARM) in Table 2.1 of the Basin Plan and the creek is not listed on the 303d list for temperature. The RWQCB does not have an evaluation guideline to interpret the warm freshwater habitat beneficial use. Therefore, the temperature limits of the discharge are not clearly defined.

Temperature limits might be applied by using the WARM narrative objective which states "At no time or place shall the temperature of any water be increased by more than 5 degrees Fahrenheit (F) above natural receiving temperature." In this scenario, the permit could require both receiving water monitoring and effluent monitoring and limit the effluent temperature to within 5 degrees F of the upstream receiving water temperature. This could be applied as a seasonal limit (e.g., no limit unless there is water in the creek upstream).

Alternatively, the Basin Plan narrative objective for all surface water which states: "Natural receiving water temperature of intrastate waters shall not be altered unless it can be demonstrated to the satisfaction of the RWQCB that such alteration in temperature does not adversely affect beneficial uses." In this scenario, the RWQCB would identify resident fish species present in the receiving water and a corresponding temperature threshold for those species and use those as a maximum temperature for receiving water.

Monitoring Requirements

Monitoring requirements for the Creek Discharge alternative are anticipated to include:

- Influent Water Quality
- Effluent Water Quality (including CTR & Title 22 constituents), Flow, & Toxicity
- Receiving Water Quality, Flow, & Temperature
- Biosolids
- Groundwater monitoring may be required at the discretion of the RWQCB

 Self-monitoring reports (SMRs) of the monitoring results will be required. The Discharger shall electronically submit SMRs using the CIWQS Program website.

Social Considerations

It is difficult to determine social considerations for the Creek Discharge alternatives given that the location for the LOWRPP is not selected at this point. This alternative would likely enhance flow in Alamo Pintado Creek, however, the stretch of Alamo Pintado Creek in close proximity to the community of Los Olivos typically does not have flow in it most of the year. Implementing the Creek Discharge disposal alternative would likely induce flow in the portion of Alamo Pintado Creek downstream of the discharge location which could provide aesthetic benefits but could also create the potential habitat for mosquito breeding and/or other habitat-forming conditions.

Footprint

The Creek Discharge alternative would have a relatively small footprint and likely consist of a creek outfall structure including an armored bank for dispersion and protection against erosion.

Water Resource Benefits

With the exception of evaporation and evapotranspiration losses, a high percentage of the wastewater discharged to the creek would likely percolate down and augment existing groundwater supplies. Creek discharge would likely benefit riparian habitat in close proximity of the discharge location by providing a year-round source of water.

Feasibility/Complexity/Reliability

This type of discharge is relatively common in areas where there is not sufficient available space to dispose of the wastewater via percolation and there are benefits because the disposal is not limited by percolation rates of the percolation facilities. However, there is increased complexity with this type of disposal due to the need to protection the discharge infrastructure from being damaged by erosion during high flow events in the creek.

Capital Cost

The capital costs to install an outfall structure are site site-specific. More detailed site-specific information is needed to produce an estimate of cost. The outfall structure would likely consist of a flow dissipater, armored creek bank, temperature measurement upstream & downstream, and flow measurement. The construction activities would be located in the riparian area and a streambed alteration agreement and environmental monitoring during construction would likely be required.

Operations & Maintenance Cost

The outfall structure itself would likely require very little maintenance. The costs of the monitoring and reporting requirements are estimated to be \$10,000 yearly based on another site with a Creek Discharge NPDES Permit in San Luis Obispo County. Significant violations of effluent quality or monitoring/reporting are subject to federal Mandatory Minimum Penalties (MMP) of \$3,000 for each violation.

Partial Reuse of Recycled Water

Partial Reuse of Recycled Water can complement any of the disposal alternatives evaluated and would include delivery of recycled water from the LOWRPP to nearby ornamental and/or agricultural irrigators for use in offsetting use of other water supplies. This would benefit the District by reducing the quantity of effluent from the LOWRPP that would require disposal and provide an opportunity to utilize water in a way that has reduced water quality requirements.

Regulatory Requirements

Recycled water use is regulated by the California Code of Regulations (CCR) Title 22, Division 4, Chapter 3. The State Water Resources Control Board Order WQ 2016-0068-DDW Water Reclamation Requirements for Recycled Water Use (Reuse Order) establishes standard conditions for recycled water use and would likely be

the permitting framework for a LOWRPP recycled water program. The Reuse Order authorizes the use of recycled water by Producers, Distributors, and Users for uses consistent with the Uniform Statewide Recycling Criteria, other than direct or indirect potable reuse. Reuse options include landscape irrigation, crop irrigation, dust control, industrial/commercial cooling, decorative fountains, etc. A Title 22 Engineering Report is required on the production, distribution, and use of recycled water. There are specific allowable uses for recycled water per the CCR Title 22 and they depend on the treatment process. The treatment options include:

- Undisinfected Secondary
- Disinfected Secondary-23
- Disinfected Secondary-2.2
- Disinfected Tertiary

The recycle water level of treatment requirements for surface irrigation are presented in CCR Title 22, Div. 4, Chapter 3, Article 3, 6304 - Use of Recycled Water for Irrigation. Recycled water treatment limits to be monitored include:

- Total Coliform
- Turbidity
- Chlorine Residual if using chlorine as a disinfectant
- Transmissivity if using ultraviolet light as a disinfectant
- Other Constituents or Operational Requirements identified in a Title 22 Engineering Report.

In order to minimize nutrient loading to the groundwater aquifer, the Reuse Order requires that recycled water used for irrigation purposes be applied at agronomic rates. Assuming the District chooses MBR treatment, this is not anticipated to be an issue with the LOWRPP since the MBR, with biological nutrient removal, can reduce total nitrogen to levels below 10 mg/L, therefore not providing a significant excess amount of nitrogen crops being irrigated.

The use of water from the LOWRPP for irrigation purpose could provide significant advantages due to the potential for reduce salt monitoring and mitigation requirements because the water is being utilized in a beneficial manner compared to disposal. The District is in the process of completing a Recycled Water Master Plan that includes an evaluation of the potential to utilize recycled water from the LOWRPP for irrigation or other uses in the community of Los Olivos. The Recycled Water Master Plan will provide additional information on the recycled water use opportunities and the potential to reduce or eliminate the volume of wastewater disposal from the LOWRPP. Some potential locations for Recycled Water use include:

- Los Olivos Elementary School
- Corner Park
- St Marks In-The Valley Episcopal Church
- Agriculture Irrigation

Potential reclaimed water dispersal fields are shown in Figure 6 below.

It is recommended that the District, continue to investigate recycled water opportunities to reduce reliance or eliminate the need for a primary disposal method and to provide water resources and other benefits to the community.

Wastewater Management Plan for the Township of Los Olivos

Potential Reclaimed Water Dispersal Fields



Figure 6. Potential Recycled Water Use Sites

Disposal Alternatives Evaluation

To provide a quantitative comparison of the disposal alternatives, ConfluenceES and GSI developed a ranking matrix that allowed each alternative to be scored relative to each of the identified criteria, with 1 representing the least favorable and 5 the most favorable, see Table 11 for the list of scoring criteria. The total scores for each alternative were then calculated and utilized to develop overall rankings for each disposal alternative, as shown in Table 12 .

Table 11. Effluent Disposal Alternative Scoring Criteria

Effluent Disposal Alternative Scoring Criteria	Scoring Framework
	1- Significant permitting requirements 2-
Permitting Requirements	3- Moderate permitting requirements
	4- 5- Limited permitting requirements
	1- Significant effluent quality requirements
Effluent Quality	2- 3- Moderate effluent quality requirements 4-
	5- Lower effluent quality requirements
	1- Significant monitoring requirements 2-
Monitoring Requirements	3- Moderate monitoring requirements 4-
	5- Limited monitoring requirements
	1- Significant social considerations 2-
Social Considerations (e.g., aesthetics, odor, traffic, etc.)	3- Moderate social considerations
odor, tramo, etc.)	4- 5- Limited social considerations
	1- >1.5 acres
	2-
Footprint	3- > 0.75 acres 4-
	5- < 0.25 acres
	1- Limited water resource benefits
Water Resource Benefits	2- 3- Moderate water resource benefits
	4-
	5- Significant water resource benefits
	1-Significant feasibility, complexity or reliability challenges 2-
Feasibility/Complexity/Reliability	3- Potential significant feasibility, complexity or reliability challenges 4-
	5- Limited feasibility, complexity or reliability challenges

 Table 12. Effluent Disposal Alternative Scoring and Ranking

Disposal Alternative	Effluent Disposal Alternative	Permitting Requirements	Effluent Quality	Social Considerations	Footprint	Water Resource Benefits	Feasibility/ Complexity/ Reliability	Monitoring Requirements	Capital Cost	Operations & Maintenance Cost	Total Score	Ranking
Percolation ponds	An open, graded impoundment that is designed to dispose of treated effluent via percolation	5	5	2	2	3	4	4	5	4	34	1
Percolation chambers	Buried impoundments, either above or below ground surface that is designed to dispose of treated effluent via percolation	5	5	4	1	3	3	4	4	4	33	2
Shallow aquifer injection wells	Shallow aquifer injection wells (<100-150 feet deep) that inject treated effluent into the saturated portion of the upper aquifer	1	1	5	5	4	1	1	1	1	20	4
Alamo Pintado Creek outfall	Discharge outlet to Alamo Pintado Creek for disposal of treated effluent	2	2	3	4	3	2	2	3	2	23	3

Summary and Recommendations

Based on the results of the scoring and ranking evaluation, percolation ponds or percolation chambers are recommended as the preferred approach for effluent disposal from the LOWRPP. It is also recommended that the District continue to investigate opportunities for recycled water use to complement the preferred disposal alternative. Percolation ponds or percolation chambers are recommended for the following reasons:

- 1. These disposal alternatives have the lowest permitting and effluent quality requirements of the primary disposal alternatives evaluated.
- 2. Visual social impacts of percolation ponds can be mitigated with percolation chambers, if desired.
- 3. There is limited construction or operational complexity associated with these disposal alternatives.
- 4. These alternatives are anticipated to have the lowest capital and operations & maintenance costs of the evaluated alternatives.

Additional recommendations for further analysis of disposal alternatives include:

- 1. Perform a detailed percolation studies of potential sites for the LOWRPP to establish the actual percolation rate for the purposes of designing the disposal system if percolation ponds or percolation chambers are selected.
- 2. Continue to investigate recycled water opportunities to reduce reliance or eliminate the need for a primary disposal method and to provide water resource and other benefits to the community.
- 3. Perform an analysis of climate change impacts of proposed alternatives. A climate change plan is required within the first 12 months of receiving a permit, see State Water Resources Control Board Resolution No. 2017-0012. The AB 32 Climate Change Scoping Plan identifies recycled water use as a strategy for mitigating the effects of climate change.
- 4. If percolation chambers are selected, consultation with manufacturer and coordination with the Regional Board is recommended in order to establish actual application rates that can be utilized for the purpose of designing the disposal system.

References

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- Regional Water Quality Control Board (RWQCB), Central Coast Region. 2014. Waste Discharge Requirements Order No. R3-2014-0033/NPDES No. CA0049224 For the City of San Luis Obispo Water Resource Recovery Facility.
- Regional Water Quality Control Board (RWQCB), San Diego Region. 2014. Waste Discharge and Water Reclamation Requirements Order No. R9-2021-0100 For the City of Oceanside Advanced Water Purification Facility Indirect Potable Reuse for Groundwater Recharge.
- Stantec. 2022. Waste Water Collection and Treatment Basis of Design Report (Basis of Design). Prepared for Los Olivos Community Services District. Dated January 7, 2022.

ITEM 7 – FISCAL YEAR 2023-24 BUDGET AND STRATEGIC PLANNING

FY 2023-24 Budget Process and Timeline Review

	PROPOSED STEPS	DATE
1	Budget Workshop, after Regular Meeting concludes	5/10/2023
2	GM prepares recommended Draft Budget	5/19/2023
3	Finance Committee prepares and approves recommended Draft Budget to present to Board	6/9/2023
4	Board Approves a preliminary budget at a Regular Meeting and determines a Hearing Date	6/14/2023
5	The District will publish a notice stating that the GM has prepared a proposed final budget which is available for inspection on the website; and include the date, time, and place when the Board will meet to adopt the final budget and that any person may appear and be heard regarding any item in the budget or regarding the addition of other items. Publication must be at least 2 weeks before Budget adoption meeting in at least one newspaper of general circulation in the district. NOTE: The notice must be PUBLISHED at least two weeks before the hearing, (SY Valley News / Santa Maria Times). It only needs to be published one time. Post Draft Budget on Website.	6/21/2023 - publication must be at least 2 weeks before 7/12/2023 meeting
6	Final Budget hearing, part of Regular Meeting	7/12/2023
7	Post Final Budget on website	7/13/2023

Prop 218 Plan

FY 2023-24



		2023			20	24	.4		Est. Cost
Task	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	ESI. COSI
Board and Public Education									
Public workshops and outreach									
Engineering / Design									
Technical Review									
Additional Technical Study / Design									\$90k+
Final Project Description									
60% Design									\$300k+
Assessment Engineer Report including benefit factors/rates									\$50k+
Finalize siting options									
Environmental Review									
Environmental study, assessment and report (incl. public review)									\$150k+
Grants and Financing									
MHI study									\$20k+
Develop financing plan									
Seek grants and financing									
Prop 218 - Property Owner vote on proposed project									
Polling for election feasibility									\$25k
Conduct Prop 218 workshops with public									
Voting process									\$125K
Monitoring Well(s)									
Find funding for well monitoring program									
Drill three additional monitoring wells							Agenda	Packet I	ag ∳150k

^{*}Project needs to make economic sense and be something that constituents will vote for

GMs Suggestions for Strategic Consideration



- Technical Subcommittee
 - Leverage Regen TM for approaches
 - Reexamine phases / zones
- Grants / Finance Subcommittee
 - Meet monthly (twice monthly?) to better understand landscape, pursue grants
- Project Management
 - Address LAFCO conditions of extension
- Communications and prep for Prop 218
 - New subcommittee or leverage Project Management subcommittee?

GMs Suggestions (cont.)



- Confirm:
 - Phased approach commercial first
 - Percolation Chambers preferred disposal approach
 - Reuse, if possible / grant funded
 - Siting to follow new Project Description
 - Additional Groundwater Monitoring Wells only if 100% grant funded (LOCSD - admin, staff only)

ITEM 8B – GENERAL MANAGER COMMENTS AND BUDGET REPORTS

Summary Project Status Report

Effluent Study (GSI/Confluence ES)	Budget:	Schedule:	
Final Effluent Disposal Study document on 4/12 agenda.			

Audit (Moss, Levy & Hartzheim)	Budget:		Schedule:					
First year audit is complete – no findings. Expecting effort to wrap up before FY 2023-24 budget is								
finalized.								

REGEN independent consultant recommendation	Budget:	Schedule:	
Discussion was held at March meeting.			

Other:

LAFCO Meeting – A copy of the documentation presented at the 4/6 LAFCO meeting is posted on the District website, at: https://www.losolivoscsd.com/lafco-report-april-2023

LOCSD - Septic to Sewer / Water Reclamation Roadmap - WORKING DRAFT

		2023		2024				2025		
Task	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Est. Cost	
Board and Public Education										
Public workshops and outreach									1	
Engineering / Design									1	
Technical Review										
Additional Technical Study / Design									\$90k+	
Final Project Description										
60% Design									\$300k+	3
Assessment Engineer Report including benefit factors/rates									\$50k+	
Finalize siting options										
Environmental Review										
Environmental study, assessment and report (incl. public review)									\$150k+	-
Grants and Financing										
MHI study									\$20k+	
Develop financing plan										
Seek grants and financing										
Prop 218 - Property Owner vote on proposed project										
Polling for election feasibility									\$25k	
Conduct Prop 218 workshops with public										
Voting process									\$125K	1
Monitoring Well(s)										
Find funding for well monitoring program										
Drill three additional monitoring wells									\$150k	1

Report : Financial Status (Real-Time)

Selection Criteria: Fund = 3490

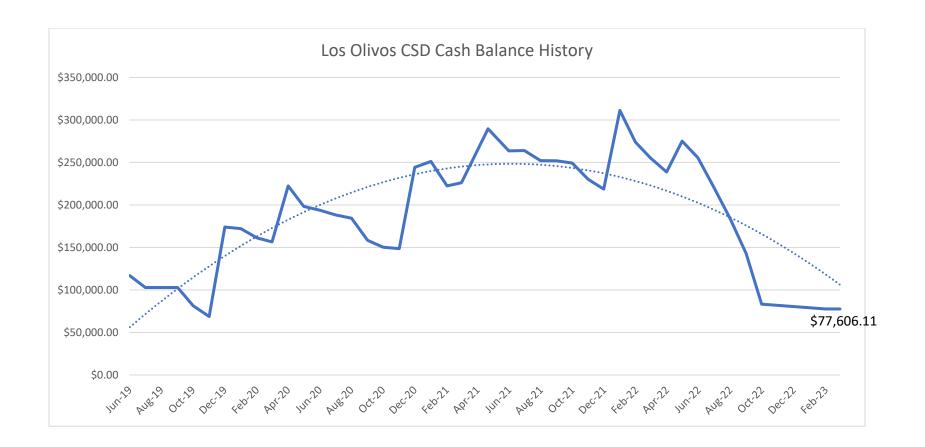
 $\mbox{Layout Options: Summarized By = Fund, LineItemAccount; Page Break At = Fund } \\$

Last Updated: 4/4/2023 1:37 AM

Fund 3490 -- Los Olivos CSD

Line Item Account	6/30/2023 Fiscal Year Adjusted Budget	3/5/2023 Year-To-Date Actual	6/30/2023 Fiscal Year Variance	6/30/2023 Fiscal Year Pct of Budget
Revenues				_
Taxes				
3066 Special Tax Assessment	136,475.00	138,629.85	2,154.85	101.58%
Taxes	136,475.00	138,629.85	2,154.85	0.00%
Use of Money and Property				
3380 Interest Income	724.00	709.03	-14.97	
3381 Unrealized Gain/Loss Invstmnts	0.00	0.00	0.00	#DIV/0!
Use of Money and Property	0.00	709.03	-14.97	#DIV/0!
Intergovernmental Revenue-Other				
4840 Other Governmental Agencies	169,804.00	5,662.50	-164,141.50	3.33%
Intergovernmental Revenue-Other Revenues	274,000.00 306,279.00	5,662.50 145,001.38	-268,337.50 -162,001.62	2.07% 47.34%
Expenditures Services and Supplies				
7090 Insurance	2,500.00	2,799.92	299.92	112.00%
7324 Audit and Accounting Fees	4,000.00	0.00	-4,000.00	0.00%
7430 Memberships	1,200.00	1,287.00	87.00	107.25%
7450 Office Expense	2,000.00	0.00	-2,000.00	0.00%
7460 Professional & Special Service (Project, Planning & Studies)	189,908.00	197,762.85	7,854.85	104.14%
7508 Legal Fees	30,000.00	28,692.41	-1,307.59	95.64%
7510 Contractual Services (IGM Contract, Engineer)	49,000.00	58,129.87	9,129.87	118.63%
7530 Publications & Legal Notices	1,000.00	0.00	-1,000.00	0.00%
7671 Special Projects	175,000.00	0.00	-175,000.00	0.00%
7732 Training	1,500.00	0.00	-1,500.00	0.00%
Services and Supplies	456,108.00	288,672.05	167,435.95	63.29%
Expenditures	456,108.00	288,672.05	167,435.95	63.29%

As of: 3/31/2023 (75% Elapsed)

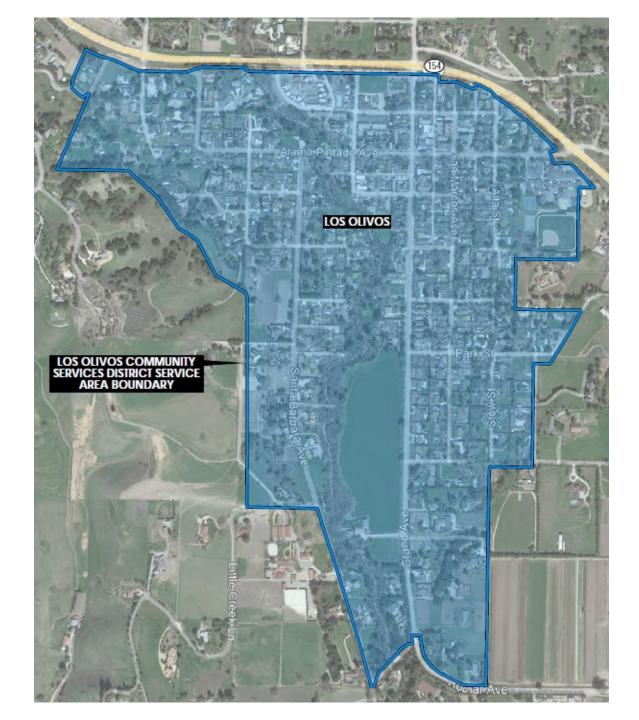




Los Olivos Community Services District

Tom Fayram, President Guy Savage, General Manager







THE DISTRICT

384 Parcels
~45 Commercial
~339 Residential





- Request: March 19, 2021
- Approved: June 3, 2021
- 2021 Goals:
 - Develop Onsite Wastewater Treatment System Requirements
 - Financial Outreach and Assistance for Program Development Construction, and Operation
 - Local Groundwater Monitoring Program
 - Phased Collection and Treatment

Los Olivos Special Problems Area History

1974 - Special Problems Area designation



2003 – County Septic to Sewer Study

______ 2010 – Los Olivos WWMP

———— 2013 – Draft Eng. Report (\$11.2M)

———— 2016 – Prelim Eng. Report (\$20.9M)

______ 2018 – LOCSD formed

CSD Project Progress (2021-23)





Loading Study (Feb)

Groundwater Mgmt Plan (May)

Siting Study (Jun)

Effluent Injection Study (Aug)

2022

Basis of Design (Jan)

30% Design Gravity->MBR (Jun)

Prelim Effluent Design (Jul)

Prelim Assessment Eng. Report (Oct)

2 Groundwater Wells (Nov)~

Effluent Study (Dec) -

2023

Community Workshops (Jan)
Alternatives Report (Mar)

June 3, 2021
2-year Extension

Today

Agenda Packet Page 68 of 77



Efforts leading to a solution

Study and Understand Costs Constraints Issues **Engage Public and Make Decision Environmental Review Proposition 218**

Community Input for Successful Prop 218



Focus on (prioritized order):

- Cost (Construction and O&M)
- Ownership (District / Individual)
- Plant Location (Siting)
- No Growth Inducement
- Odors
- Viewshed Impacts

Underlying assumption that solution meets regulatory requirements and fixes groundwater issues



30% Design Documents

SOATO SOATO

Gravity fed collection + MBR treatment Option

	North Option	South Option
Zone 1	\$30,300,000	\$28,700,000
Zone 2	\$ 1,700,000	\$ 1,700,000
Zone 3	\$15,800,000	\$15,800,000
Total	\$47,800,000	\$46,200,000

^{*}Does not include laterals from homes, septic system removal

\$125,000 per parcel,

PLUS: laterals, removal of existing septic system, effluent disposal

15% Design Documents STEP (effluent) collection + MBR treatment



	Construction
Zone 1	\$ 22,035,500
Zone 2	\$ 1,516,500
Zone 3	\$ 13,507,000
Total	\$37,059,000

*Includes laterals from homes, removal of existing septic tank

\$96,500 per parcel, PLUS: effluent disposal

Effluent Disposal

Post treatment

SONITO SOLUTION SOLUT

\$3,125 per parcel

Approach	Construction	Annual O&M
Percolation Ponds	\$700,000	minimal
Percolation Chambers	\$1,200,000	minimal
Shallow Aquifer Injection	\$900,000	\$3,000,000-4,000,000
Alamo Pintado Creek outfall	Site specific	\$10,000+ (NPDES permit)
Reuse (purple pipe)	Site specific	unknown

^{*}Community preference – Percolation Chambers coupled with Reuse

Advanced Onsite Systems



Onsite wastewater treatment systems (OWTS)

	Construction	Annual O&M
Per Residential Lot	\$30,000-\$70,000	\$1,500-\$1,900

Per Local Agency Management Plan (LAMP):

OWTS acceptable only on lots greater than 2.5 acres (9-14 lots)

Prop 218 Success Plan



		2023			2024				Est. Cost
Task	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	ESI. COSI
Board and Public Education									
Public workshops and outreach									
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^{*}Project needs to make economic sense and be something that constituents will vote for

What's Next?



- Additional Public Workshops and Outreach
- Final Project Description
- Pursue Grants
 - Median Household Income (MHI) Study
- Environmental
- Hold Benefit Assessment Vote



Questions and Discussion

- Visit us at: www.losolivoscsd.com
- Subscribe to our updates: www.losolivoscsd.com/subscribe
- Contact us: <u>LosOlivosCSD@gmail.com</u> (805) 500-4098

