

1

SEAL ROCK WATER DISTRICT  
Regular Board Meeting  
Thursday, February 11, 2021 @ 4:00 p.m.  
**Public Meeting by Zoom Video Conference:**

Due to the Governor's Executive Order related to public gatherings, SRWD will hold this meeting through Zoom video conferencing. The public is invited to attend the meeting electronically. Please E-mail [tkarsen@srwd.org](mailto:tkarsen@srwd.org) to receive the meeting login information.

SRWD encourages the public to submit written comments on items included in the agenda by email to [tkarsen@srwd.org](mailto:tkarsen@srwd.org) by 2:00 p.m. on the day of the meeting to be included in the record. Comments received will be shared with the SRWD Board of Commissioners and included in the permanent record.

- **Call Regular Meeting to Order:**

- **Announcements/Visitor Public Comments:**

*Public comment period provides the public with an opportunity to address the Commissioners regarding items on the agenda. Please limit comments to (3) minutes.*

- **Consent Calendar:**

*Managers' reports included under consent calendar are an executive summary provided to Commissioners as an update of system conditions, projects, and programs. Management welcomes your feedback and request for more detailed information regarding any item before or during the meeting:*

- Invoice List January 2021 to February 2021
- Special Board Meeting Minutes October 22, 2020
- Board Meeting Minutes January 14, 2021
- Financial Report / Approve Invoices January 2021 to February 2021
- Business Oregon Disbursement Request No.28 February 2021
- USDA PMR Phase III No. 51 February 2021
- USDA PMR Phase IV No. 8 February 2021
- Contractor's Pay Request No. 8 February 2021
- General Manager's Monthly Report January 2021 to February 2021

- **Discussion and Information Items:**

- Consider Primary Source Water Project Update.  
Presented by: Adam Denlinger, General Manager  
Jeff Hollen, SRWD General Counsel
- Consider water rate adjustment for 2021/2022 fiscal year.  
Presented by: Adam Denlinger, General Manager  
Joy King, Office Manager

- **Decision Items:**

- Consider appointment to the SRWD Citizens Member Budget Committee.  
Presented by: Adam Denlinger, General Manager
- Consider Resolution No. 0221-01 Adopting Seal Rock Water District's amendments to the Lincoln County Multi-Jurisdictional Hazard Mitigation Plan  
Presented by: Adam Denlinger, General Manager

- **Reports, Comments and Correspondence:**

- District office will be closed Monday, February 15th in honor of the Presidents Day Holiday.
- Special District Director Election May 18, 2021

- **Executive Session: according to ORS 192.660(2), Concerning:**  
The SRWD Board may meet in Executive Session, pursuant to ORS 192.660(2)(h); To consult with legal counsel concerning the legal rights and duties of a public body with regards to current litigation or litigation likely to be filed. Representatives of the news media and designated staff shall be allowed to attend the executive session. All other members of the audience are asked to leave the room. Representatives of the news media are specifically directed not to report on any of the deliberations. No final decisions shall be made in Executive Session.
- **Adjournment: Next Meeting: March 11, 2021 @ 4:00 p.m.** Regular Board Meeting or establish date.

Report Criteria:  
Detail report.  
Invoices with totals above \$0 included.  
Paid and unpaid invoices included.

**ORIGINAL**

Vendor Name	Invoice Number	Description	Invoice Date	Net Invoice Amount
<b>01-1310</b>				
LAWRENCE WATERCOTT	012021	Refund Overpayment Final Bill	01/20/2021	18.37
MEGAN MOSS	011921	Refund Overpayment Final Bill	01/19/2021	30.93
UZUSHIO CORP	012621	Refund Overpayment Final Bill	01/26/2021	13.07
Total 01-1310:				62.37
<b>01-5240</b>				
SPECIAL DISTRICTS INSURANC	36P54343-928	2021 Liability/Property/Earthquake/Flood/Crime Coverage	01/01/2021	32,889.00
Total 01-5240:				32,889.00
<b>01-5271</b>				
CENTURYLINK	12521	Toledo Pump Station SCADA	01/25/2021	70.95
CHARTER COMMUNICATIONS	007859701192	Internet (Office)	01/19/2021	114.98
PIONEER TELEPHONE COOPE	020121	Telephone Services/Internet	02/01/2021	1,474.79
Total 01-5271:				1,660.72
<b>01-5272</b>				
AT&T MOBILITY	01232021	Wireless	01/15/2021	252.00
Total 01-5272:				252.00
<b>01-5280</b>				
XEROX CORPORATION	012321552	Xerox 3655X Print Charges	01/01/2021	10.45
XEROX CORPORATION	012321553	Xerox 7845 Print Charges (Black)	01/01/2021	9.01
XEROX CORPORATION	012321553	Xerox 7845 Print Charges (Color)	01/01/2021	218.05
Total 01-5280:				237.51
<b>01-5291</b>				
US POSTAL SERVICE - WALDP	012221	Bulk Mailing	01/22/2021	874.60
Total 01-5291:				874.60
<b>01-5310</b>				
TCB SECURITY SERVICES INC	230813	Answering/Dispatch Services Monthly Fee	02/01/2021	40.00
TCB SECURITY SERVICES INC	230813	Level One Per Call Price	02/01/2021	9.90
Total 01-5310:				49.90
<b>01-5610</b>				
CENTRAL LINCOLN P.U.D.	012221	Utility Services	01/22/2021	3,039.98
Total 01-5610:				3,039.98
<b>01-5630</b>				
ABOVEBOARD ELECTRIC, INC.	1702	DRIFTWOOD PS AFTER HOURS SERVICE CALL TROUBLESHOOT POWER T	01/11/2021	322.83
BRIAN COLLIER	012921	Emergency repair service lateral	01/29/2021	242.00
Total 01-5630:				564.83

Vendor Name	Invoice Number	Description	Invoice Date	Net Invoice Amount
<b>01-5633</b>				
AGGREGATE RESOURCE CRU	27336	1*-0	01/15/2021	501.48
Total 01-5633:				501.48
<b>01-5634</b>				
ANALYTICAL LABORATORY GR	134949	Coliform, Presence/Absence by SM 9223 B-18 (ALG)	01/23/2021	257.00
OREGON LINEN	595190	Mats	01/31/2021	207.81
Total 01-5634:				464.81
Grand Totals:				40,597.20

W

Dated: FEB 1, 2021

General Manager: A. Nuckley

Dated: \_\_\_\_\_

Treasurer: \_\_\_\_\_

Report Criteria:

Detail report.

Invoices with totals above \$0 included.

Paid and unpaid invoices included.

**SEAL ROCK WATER DISTRICT  
MINUTES OF THE  
Regular Board Meeting by Zoom Conference Call  
January 14, 2021**

**Introduction to Remote Meeting:**

Denlinger, General Manager, explained that this board meeting is being conducted remotely and in person observing social distancing and the wearing of face masks in order to mitigate the transmission of the novel coronavirus and reduce the risk of COVID-19 illness in accordance with Governor Brown’s Executive Order 20-12 to suspend all public gatherings. He further explained that the Board President will call each name to confirm those who are present by zoom conference. After each person hears their name, they need to reply. For each decision item in the agenda that needs to be approved, after discussion and deliberation, the Board President will call each name of the commissioner for their vote. After the commissioners hear their name, he or she will give the vote to the affirmative by saying YES or negative by saying NO.

**Call Regular Meeting to Order:**

President Rob Mills called the regular board meeting to order at 4:02 p.m., Thursday, January 14, 2021.

**Present:**

President Rob Mills confirmed that all commissioners present can hear each other by doing a roll call. Present by Zoom Conference Call were Commissioner Glen Morris, member; Commissioner Karen Otta, member; Commissioner Sandra Mies-Grantham and President Rob Mills. Staff: Adam Denlinger, General Manager; Joy King, Office Manager; Atty. Jeff Hollen, District legal counsel.

**Excused Absences:** Commissioner Deanna Gravelle

**Announcements/Public Comments:**

President Rob Mills asked if there are any announcements. Commissioner Glen Morris had no announcement but commented and thanked the GM for the project pictures included with the GM report; Commissioner Karen Otta had no announcement; Commissioner Sandra Mies-Grantham had no announcement; Office Manager Joy King had no announcement; General Manager Adam Denlinger had no announcement; President Rob Mills had no announcement. A member of the public, Jim Hauffman introduced himself. He is an emeritus SDAO Board member and acquainted with President Mills and the GM, Adam Denlinger. He serves on the Board of Tillamook Transportation District. He was present at the SDAO Conference in 2019 when SRWD was recognized and awarded the Special District Program Award and he was impressed by what he had seen. He is fascinated with how water districts function and would like to know more by attending and observing the SRWD monthly board meeting.

**Consent Calendar:**

Items on the consent calendar are Invoice List for December 2020/January 2021; December 10, 2020 minutes of the regular board meeting; October 22, 2020 minutes of special board meeting; December 2020/January 2021; Financial Report; Business Oregon IFA Disbursement Request No. 27; USDA Phase IV PMR No. 7; Contractor’s Pay Request No. 7; and General Manager’s Report. President Rob Mills asked if each commissioner has reviewed the items on the consent calendar. Commissioner Glen Morris answered YES, Commissioner Karen Otta answered YES; President Rob Mills answered YES. Commissioner Karen Otta motioned to approve the consent calendar, not including the October 22,2020 minutes of the Special Board meeting for a lack of quorum to approve it. Commissioner Glen Morris seconded the motion; Discussion- Commissioner Karen Otta asked why the unaccountable water was a lot higher this month. The GM explained that there is a leak of about 65 GPM in the Sandpiper area. The field crew found it this morning and fixed the leak. After the discussion, President Rob Mills asked the commissioners for their votes. Commissioner Karen Otta voted YES; Commissioner Glen Morris voted YES; Commissioner Sandra Mies-Grantham voted YES for all items except the December 10 regular board meeting minutes since she wasn’t present at the meeting, and President Rob Mills voted YES. Motion carried with 4 YES votes O NO vote.

**Discussion and Information Items:**

**Source Water Project Update:**

The contractor has completed the tie-in of all the piping including the tie-in to the treatment plant. Currently, the contractor is testing the various installed piping and concentrating on building the backwash. The rebar will be inspected tomorrow and anticipating the cement to be poured next week.

The sub-contractor, Paso Robles has mobilized on-site and will be working straight through for two weeks to construct the clearwell.

The contractor has submitted a request for a 5 months time extension which has been reviewed by the staff and the engineer. A 5 months extension would add cost to the District in engineering, permitting, legal, staff time, and water purchase from the City of Toledo. A response letter was drafted by the engineer and reviewed by the GM and Jeff Hollen, District legal counsel. Attorney Jeff Hollen explained that the approved extension only included those days subject to the conditions of the contract which is 30 days for the change in sub-surface condition at the intake site. The Geotech Report

64 did not match with the actual condition of the intake site. An additional 5 days extension was also approved for unfavorable  
65 working conditions due to the smoke caused by fire in the surrounding area. The main reason why other requested time  
66 extensions were not approved was because the contractor didn't ask for the extension 30 days after any condition was  
67 discovered to exist that required the extension, a requirement outlined in the contract. The GM explained that Jacobs  
68 Engineering is confident that the contractor will be able to complete the project on time by bringing in more manpower than  
69 they currently have working on the project. Staff and the engineer will work with the contractor to be successful in  
70 completing the project on time.

71 The membrane filtration system will be delivered by Westech tomorrow, January 15, 2021 and will be stored inside the  
72 District's shop facility. The contractor's insurance covers unloading and the storage of the membrane equipment.

73  
74 **Covid 19 Measure Update:**

75 Staff updated the Board of where we are at the present after the no turn-off and no late charges were implemented in April  
76 2020 due to the coronavirus pandemic. The lost revenue from April 2020 thru January 2021 is \$12,665.50.

77 As of January 13, 2021, the delinquent bills total is \$13,324.00. There are about 14 accounts with more than 3 months  
78 delinquent bills; 20 accounts with 2 months delinquent bills, and 141 accounts with 1 month delinquent bills. Most of the  
79 customers with 1 month delinquent bills will pay before the end of January. Staff has communicated with those customers  
80 whose accounts are 2 or more months delinquent to contact the office to make payment arrangements. The majority of  
81 those customers haven't responded either by calling or in writing to make payment arrangements. Staff is recommending to  
82 return to the normal process by sending a letter to those customers to encourage them to contact the office and to  
83 emphasize that if they don't contact the office to make payment arrangements then their water service is subject to be  
84 turned off at a given date. Hopefully, this would be a motivation for the delinquent customers to contact the office to avoid  
85 the turn off of their water service. There was discussion for staff to research for grants to help those customers with  
86 delinquent bills. It was the consensus of the Board to go back to the normal billing process but for staff to work with  
87 customers with payment arrangements to avoid turning the meters off if possible.

88  
89 **Decision Items:**

90 **FY 2021-22 Budget Calendar:**

91 Commissioner Glen Morris motioned to approve the FY 2021-22 Budget Calendar. Motion was seconded by Commissioner  
92 Karen Otta. President Rob Mills asked for each commissioner's vote. Commissioner Karen Otta voted YES; Commissioner  
93 Glen Morris voted YES; Commissioner Sandra Mies-Grantham voted YES; President Rob Mills voted YES. Motion was  
94 passed with 4 YES votes.

95  
96 **Appoint Budget Officer:**

97 Commissioner Glen Morris motioned to appoint the GM, Adam Denlinger as the Budget Officer for the FY 2021-22 Budget  
98 Process. Motion was seconded by Commissioner Karen Otta. President Rob Mills asked for each commissioner's vote.  
99 Commissioner Karen Otta voted YES; Commissioner Glen Morris voted YES; Commissioner Sandra Mies-Grantham  
100 voted YES; President Rob Mills voted YES. Motion was passed with 4 YES votes.

101  
102 **Reports, Comments, and Correspondence:**

103 **GM Performance Evaluation:**

104 President Rob Mills explained the process of how the performance review of the GM, Adam Denlinger was done. He  
105 received the completed Performance Evaluation form from each commissioner, which he compiled into one document with  
106 combined numerical ratings and comments or narratives. President Rob Mills and Commissioner Karen Otta met with the  
107 GM to discuss and go over the performance evaluation. A copy of the document was given to the GM for his review.

108  
109 The GM expressed his appreciation of the format of his evaluation and the Board's comments which are in line with his own  
110 assessment. The GM was asked to provide a list of priority goals and objectives for the coming year. The GM went over  
111 and discussed the list of priority goals and objectives for the next 4 years. (Please see attached list.) The list will be  
112 revisited in 6 months to update the Board on what has been accomplished. The GM expressed that it has been a pleasure  
113 to work in the District with sophisticated Board members who are involved. He appreciates the professionalism of the Board  
114 and staff.

115  
116 **Reports, Comments, and Correspondence:**

117 The office will be closed on January 18 in observance of Martin Luther King, Jr. Day.  
118 Registration for the SDAO Conference has started and the Conference Sessions will be provided online for free of charge  
119 on February 3 & 4.

120 The District received a call from the source water provider, the City of Toledo asking the District not to pump water to the  
121 reservoirs. The recent storm brought so much rain that caused flooding. The turbidity of the Siletz River is really bad and  
122 can't be treated. The District's Driftwood tank was low that staff asked the City of Newport to turn on the Newport intertie to  
123 supply water to the District. This is the first time that the intertie has been used to supply water to the whole District and has  
124 proven that the intertie is working perfectly.

125 The District is recruiting a field operations employee to fill the position of Dave Anderson who retired on October 31, 2020.  
126 Staff is developing a job description for a water treatment plant operator which is needed before recruiting for the position.

127 The recent storm brought so much rain that caused flooding of the Beaver Creek and with the king tide, the monitoring test  
128 at the intake site picked up conductivity or salinity in the bottom of the creek below the intake window. There is more water  
129 at the intake site but there is no sign of erosion.  
130

131 **Adjournment:** President Rob Mills adjourned the meeting at 4:57 p.m.  
132

133 **Next Board Meeting:** February 11, 2021, at 4:00 p.m.  
134  
135  
136  
137  
138

139 \_\_\_\_\_  
140 Approved by Board President

Date:

DRAFT

Date: 2/1/2021

Monthly Statistics		Comments				
Total customers	2620	Includes new connects Less Abandoned / Forfeited meter plus 3 SRWD meters (shop X 2 & office) plus 1 Hydrant meter				
New connections	0					
Reinstalls	0					
Abandonments/Forfeitures/Meter Removed	0					
Financial Report		Checking/MM	LGIP/PFMA	Fund Balances	Comments	
General	\$215,037.38	\$17,430.44	\$232,467.82			
Bond	\$719,720.40	\$0.00	\$719,720.40			
Capital Projects	\$362,380.84	\$3,991,032.28	\$4,353,413.12		\$7,421,586 Interim Loan Proceeds	
Revenue Bond	\$2,719.20	\$53,310.85	\$56,030.05			
Rural Development Reserve	\$0.00	\$65,517.59	\$65,517.59			
Dist. Office/Shop Reserve	\$3,613.47	\$135,186.98	\$138,800.45			
Depreciation/SLARA Reserve	\$0.00	\$213,760.04	\$213,760.04			
SDC (formerly SIP)	\$0.00	\$536,012.55	\$536,012.55		\$1,078,601.00 SDC collections thru 1/31/2021	
Water Source Improvement Rsrv	\$0.00	\$717,661.88	\$717,661.88			
<b>TOTALS</b>	<b>\$1,303,471.29</b>	<b>\$5,729,912.61</b>	<b>\$7,033,383.90</b>			
General Fund Review		Current	FYTD	Budgeted Amount	Comments	
Revenue	\$147,621.71	1,475,170.00	\$2,746,800.00			
Expenses	\$313,984.17	1,295,143.83	\$2,746,800.00		Contingency \$100,000; Transfers \$173550; Total expenses budgeted \$1,930,830	
Net Gain or (Loss) from Operations	-\$166,362.46	\$180,026.17				
Water Sales Revenue Comparison		Month	FYTD	Comments		
Water Sales 2020	\$140,907	\$1,119,802		Leak Adjustments & Billings Adjustments (YTD = July - June)		
Actual+In Lieu of Water Sales Less H2O CR	\$145,743	\$1,154,240		Less: Billing Adj YTD \$0.00; Leak Adj/Write off YTD \$581.91		
Water Sales 2019	\$134,527	\$1,063,369		TOTAL YTD ADJUSTMENTS \$561.91		
Actual+In Lieu of Water Sales Less H2O CR	\$139,527	\$1,097,670				
Over or (Under)	\$6,380.50	\$56,433.06				
Gallage Comparison		Current	Prior Year	Cost Comparison	Current	Prior Year
Gallons Purchased	8,433,000	9,374,000	Toledo Charges	\$45,959.54	\$33,102.30	
Gallons Sold (includes accountable loss & intertie)	7,386,219	6,612,411	SRWD Sales	\$140,907.27	\$134,526.77	
Variance %	12.41%	29.46%	Ratio: Sales/Cost	3.07	4.06	
City of Newport Intertie Usage	0					
Gallons Received from City of Toledo	10,671,000	12/11-1/10/21	Toledo Master Meter Readings read by SRWD field crew			
Total Gallons Accounted	7,458,673		From flushing, leaks, CL2 Analyzer, & fire hydrant use			
Total Gallons Unaccounted	3,212,327					
Water Loss Percentage	30.10%					
Approval To Pay Bills		Payroll 1/15/2021 \$20,292.11		Payroll 1/29/2021 \$19,430.50		
Month of:	January	(after meetings)	February			
	GF A/P	\$40,597.20	GF A/P	\$46,842.83	up to 2/5/2021	
	CPF A/P	\$0.00	CPF A/P	\$0.00		
	Bond / Rev Bond Fund	\$0.00	Bond / Rev Bond Fund	\$0.00		
	Depreciation Rsv	\$0.00	Depreciation Rsv	\$0.00		
	AMI Project-Phase 3	\$0.00	AMI Project-Phase 3	\$4,500.00		
	MP - Phase 4 (IFA)	\$0.00	MP - Phase 4 (IFA)	\$0.00		
	MP- Phase 4(USDA)	\$0.00	MP- Phase 4 (USDA)	\$27,114.50		
	MCWPP	\$0.00	MCWPP	\$6,146.25		
	MCWCC	\$0.00	MCWCC	\$0.00		
Monthly Accrual Statistics		Beg. Balance	Accrued	Used/Paid	Balance	
		12/31/2020			1/31/2021	
Office Overtime Hours (2-01)	0.00	0.50	0.50	0.00		
Field Overtime Hours (2-02)	0.00	9.75	9.75	0.00		
PTO (3-01)	2558.26	108.32	25.00	2641.58		
Comp Time (9-01 / 9-02)	85.42	38.25	15.00	108.67		



<b>PROJECT MONITORING REPORT</b> With Exhibit A and Invoices	<b>1. Type of Request</b> Final <input type="checkbox"/> Partial <input checked="" type="checkbox"/>	<b>2. Report No.</b> 51
<b>3. REPORT PERIOD</b> Date: 01/01/21-01/31/21	<b>4. BORROWER INFORMATION</b> Name: SEAL ROCK WATER DISTRICT Address: P. O. Box 190 Seal Rock, Oregon 97376	

BUDGET ITEMS	STATUS OF BUDGET						
	PROGRAMS	FUNCTIONS			ACTIVITIES		
	(a) Budgeted Amounts	(b) Budget Change	(c) Revised Budget	(d) Previous Total	(e) This Period	(d)+(e) TOTAL	
All entries under column b must be justified with an attachment. All entries under column e must be documented with attached invoice.							
a. Administrative Expense- Preliminary		\$5,153	\$5,153	\$5,153		\$5,153	\$0
b. Preliminary Engineering- ER/PER		\$498,108	\$498,108	\$498,108		\$498,108	\$0
c. Geotechnical Studies				\$0		\$0	\$0
d. Land, Structures, Right-of-way				\$0		\$0	\$0
e. Civil West Engineering				\$0		\$0	\$0
1) Basic Engineering Svcs	\$563,763	(\$519,763)	\$44,000	\$44,000		\$44,000	\$0
2) Additional Services/Inspection	\$402,688	(\$62,099)	\$340,589	\$340,589		\$340,589	\$0
f. Other Engineering				\$0		\$0	\$0
1) AMI Engineering Services -Civil West		\$170,750	\$170,750	\$170,750		\$170,750	\$0
2) Additional Services				\$0		\$0	\$0
g. Interest & fees (interim financing)	\$210,000	(\$152,807)	\$57,193	\$57,193		\$57,193	\$0
h. Legal/Administration	\$201,344	(\$159,436)	\$41,908	\$41,908		\$41,908	\$0
i. Contingencies	\$595,375	(\$595,375)	(\$0)	\$0		\$0	\$0
j. Equipment	\$395,000	(\$385,270)	\$9,730	\$9,730		\$9,730	\$0
k. Demolition/Removal	\$365,000	(\$365,000)		\$0		\$0	\$0
l. Site Work	\$369,600	(\$369,600)		\$0		\$0	\$0
m. Construction Cost :	\$2,897,275	\$365,518		\$0		\$0	\$0
1) Sched: 1		(\$32,322)	\$960,871	\$960,871		\$960,871	\$0
2) Sched: 2		(\$26,111)	\$2,243,489	\$2,243,489		\$2,243,489	\$0
3) Other: B Creek-Electrical Work PUD		\$3,113	\$3,113	\$3,113		\$3,113	\$0
4) Other:SCADA-The Automation Group		\$29,112	\$29,112	\$29,112		\$29,112	\$0
5) AMI Project		\$1,363,901	\$1,363,901	\$1,363,901		\$1,363,901	\$0
6) AMI Project- Other Equipment		\$20,217	\$20,217	\$20,217		\$20,217	\$0
7) Schedule 2 - PRVs Project		\$130,785	\$130,785	\$130,785		\$130,785	\$0
8) Additional AMI Base Stations		\$87,967	\$87,967	\$48,797	\$4,500	\$53,297	\$34,670
n. TOTAL PROJECT COST	\$6,000,045	\$6,841	\$6,006,886	\$5,967,716	\$4,500	\$5,972,216	\$34,670
o. Funding Allocation							
1) Program Income= INTEREST			\$0	\$0		\$0	
2) Rural Development Loan	\$3,451,000		\$3,451,000	\$3,451,000		\$3,451,000	
3) Rural Development Grant	\$2,549,045		\$2,549,045	\$2,509,875	\$4,500	\$2,514,375	\$34,670
4) Other: DISTRICT CONTRIBUTION		\$6,841	\$6,841	\$6,841		\$6,841	\$0
5) Other:Interim Financing Loan	\$3,451,000		\$3,451,000	\$3,451,000		\$3,451,000	\$0
p. Total Project Funding (=line l)	\$6,000,045	\$6,841	\$6,006,886	\$5,967,716	\$4,500	\$5,972,216	\$34,670
q. Percentage of Completion				99.35%		99.42%	

**5. CERTIFICATION**  
 I certify that; to the best of my knowledge and belief, the billed costs or disbursements shown are in accordance with the terms of the project and that an inspection has been performed and all work is in accordance with the terms of the construction contract.

<b>BORROWER:</b>	Signature of Authorized Certifying Official: _____	Date Submitted: _____
	Typed or Printed Name and Title: Adam Denlinger, General Manager	Telephone: 541-563-3529

**6. RURAL DEVELOPMENT ACCEPTANCE**  
 This form and attachments have been reviewed and are accepted by Rural Development, unless otherwise noted. This review and acceptance by Rural Development does not attest to the correctness of the amounts, the quantities shown, or that the work has been performed under the terms of the agreements or contracts.

<b>RURAL DEVELOPMENT</b>	Signature of Authorized Certifying Official: _____	Date Submitted: _____
	Typed or Printed Name and Title: Holly Halligan, USDA Area Specialist	Telephone: 541-801-2682

c:\msoffice\excel\guide21			OR Instruction 1780						
<b>BEAVER CREEK SOURCE WATER PROJECT-Phase IV</b>						Modified OR Guide 21			
<b>PROJECT MONITORING REPORT</b>		1. Type of Request		2. Report No.		8			
		Final <input type="checkbox"/> Partial <input checked="" type="checkbox"/>				updated 7-17-2020			
<b>3. REPORT PERIOD</b>		<b>4. BORROWER INFORMATION</b>							
Ending 01/31/2021		Name:		Seal Rock Water District					
		Address:		1037 NW Grebe Street, Seal Rock, OR 97376					
<b>BUDGET ITEMS</b>			<b>STATUS OF BUDGET</b>						
(All entries under Column "b" must be justified with an attachment) (All entries under column "e" must be documented with an attached invoice)			(a)	(b)	(c)	(d)	(e)	(f)	(g)
			Budgeted Amounts (from LOC)	Budget Change	Revised Budget	Previous Total	This Period	TOTAL (d)+(e)	Remaining Balance (c)-(f)
a. Engineering- Design			\$947,000	\$91,000	\$1,038,000	\$1,037,163		\$1,037,163	\$837
b. Engineering- Membrane Pre-purchase			\$35,000	\$2,990	\$37,990	\$37,990		\$37,990	\$0
c. Engineering- Bid Services			\$45,000	\$0	\$45,000	\$44,997		\$44,997	\$3
d. Engineering- Basic Engineering			\$380,000	\$27,800	\$407,800	\$405,768		\$405,768	\$2,032
e. Engineering- Project Inspection			\$0	\$403,200	\$403,200	\$0		\$0	\$403,200
f. Engineering- Start Up			\$20,000	\$10,000	\$30,000	\$0		\$0	
g. Engineering- Software Development			\$0	\$215,000	\$215,000	\$20,889		\$20,889	
h. Legal Services/Land Purch. (easements)			\$400,000	\$72,903	\$472,903	\$448,425	\$24,478	\$472,903	\$0
i. Geotechnical Site Investigation			\$51,000	\$0	\$51,000	\$50,977		\$50,977	\$23
j. Surveying			\$26,000	\$3,962	\$29,962	\$29,962		\$29,962	\$0
k. Permitting			\$170,000	\$45,683	\$215,683	\$215,683		\$215,683	\$0
l. Archeological			\$40,000	\$0	\$40,000	\$0		\$0	\$40,000
m. Bond counsel Services			\$80,000	-\$32,500	\$47,500	\$42,500		\$42,500	\$5,000
n. Interim Interest & Expense			\$360,000	\$0	\$360,000	\$70,886		\$70,886	\$289,114
o. Admin/Legal			\$12,000	\$16,550	\$28,550	\$28,550		\$28,550	\$0
p. Line of Credit Refinance (COT expenses)			\$1,616,500	-\$429,500	\$1,187,000	\$1,187,000		\$1,187,000	\$0
q. Line of Credit Refinance- Interest			\$0	\$23,914	\$23,914	\$22,914		\$22,914	\$1,000
r. Contingency			\$1,306,000	-\$908,927	\$397,073	\$0		\$0	\$397,073
s. Additional IFA Services			\$0	\$368,558	\$368,558	\$289,809		\$289,809	\$78,749
t. Tree Clearing			\$0	\$13,785	\$13,785	\$13,785		\$13,785	\$0
u. Tank Removal			\$0	\$18,752	\$18,752	\$18,752		\$18,752	\$0
v. Construction Costs:						\$0			
1. Contractor R&G			\$8,966,000	\$1,669,199	\$10,635,199	\$3,818,938	\$788,773	\$4,607,711	\$6,027,488
2. Westech- Membrane Purchase			\$922,000	-\$23,315	\$898,685	\$718,948		\$718,948	\$179,737
3. Other - Electrical at Intake/WTP.			\$0	\$198,079	\$198,079	\$198,079		\$198,079	\$0
4. Other-Compaction Test			\$0	\$14,867	\$14,867	\$12,230	\$2,637	\$14,867	\$0
<b>x. TOTAL PROJECT COST</b>			<b>\$15,376,500</b>	<b>\$1,802,000</b>	<b>\$17,178,500</b>	<b>\$8,714,244</b>	<b>\$815,888</b>	<b>\$9,530,132</b>	<b>\$7,648,368</b>
y. Funding Allocation									
1) Business Oregon Loan/Grant			\$3,481,000	\$0	\$3,481,000	\$3,304,647	\$0	\$3,304,647	\$176,353
2) USDA Rev Bond Loan			\$2,547,000	\$0	\$2,547,000	\$2,547,000		\$2,547,000	\$0
3) USDA GO Bond Loan			\$6,549,000	\$0	\$6,549,000	\$2,560,597	\$815,888	\$3,376,485	\$3,172,515
4) USDA Grant			\$2,799,500	\$0	\$2,799,500	\$0		\$0	\$2,799,500
5) USDA Sub Grant			\$0	\$1,500,000	\$1,500,000	\$0		\$0	\$1,500,000
6) Applicant Contribution			\$0	\$302,000	\$302,000	\$302,000		\$302,000	\$0
7) Interest									
<b>z. TOTAL PROJECT FUNDING</b>			<b>\$15,376,500</b>	<b>\$1,802,000</b>	<b>\$17,178,500</b>	<b>\$8,714,244</b>	<b>\$815,888</b>	<b>\$9,530,132</b>	<b>\$7,648,368</b>
aa. Percentage of Completion						51%	5%	55%	45%
<b>5. CERTIFICATION</b>									
I certify that to the best of my knowledge and belief costs or disbursements shown are in accordance with the terms of the project and that an inspection has been performed and all work is in accordance with the terms of the construction contract.									
<b>BORROWER</b>			Signature of Authorized Certifying Official			Date Submitted:			
			Adam Denlinger, General Manager			1/15/2021			
						Telephone:			
						(541) 563-3529			
<b>6. RURAL DEVELOPMENT ACCEPTANCE</b>									
This form and attachments have been reviewed and are accepted by Rural Utilities Service unless otherwise noted. This review and acceptance by RUS does not attest to the correctness of the amounts, the quantities shown, or that the work has been performed under the terms of the agreements or contracts.									
<b>RURAL UTILITIES SERVICE</b>			Signature of Authorized Certifying Official			Date Submitted:			
			Holly Halligan, Area Specialist						
						Telephone:			
						(541) 801-2682			



ENGINEERS JOINT CONTRACT DOCUMENTS COMMITTEE

**Contractor's Application for Payment No. 8**

Application Period 12/26/20-1/25/21		Application Date 2/5/2021	
To (Owner) Seal Rock Water District	From (Contractor) R&G Excavating, Inc	Via (Engineer) Jacobs	
Project Phase IV Beaver Creek Water Supply Seal Rock, Oregon	Contract Phase IV Beaver Creek Water Supply		
Owner's Contract No D3362301	Contractor's Project No 2003	Engineer's Project No D3362301	

**Application For Payment  
Change Order Summary**

Approved Change Orders		
Number	Additions	Deductions
1	\$0 00	\$0 00
2	\$3,372 86	\$0 00
3	\$0 00	\$60,524 00
4	\$9,199 49	\$0 00
5	\$0 00	\$6,849 36
6	\$0 00	\$4,972 47
<b>TOTALS</b>		
	\$12,572 35	\$72,345 83
<b>NET CHANGE BY CHANGE ORDERS</b>	<b>-\$59,773.48</b>	

<b>1. ORIGINAL CONTRACT PRICE</b> .....	\$	\$10,690,000.00
<b>2. Net change by Change Orders</b> .....	\$	-\$59,773.48
<b>3. Current Contract Price (Line 1 ± 2)</b> .....	\$	\$10,630,226.52
<b>4. TOTAL COMPLETED AND STORED TO DATE</b> (Column F total on Progress Estimates).....	\$	\$4,850,222.58
<b>5. RETAINAGE:</b>		
a. 5% X \$3,983,333 87 Work Completed.....	\$	\$199,166.69
b. 5% X \$866,888 71 Stored Material.....	\$	\$43,344.44
c. Total Retainage (Line 5.a + Line 5.b).....	\$	\$242,511.13
<b>6. AMOUNT ELIGIBLE TO DATE (Line 4 - Line 5.c)</b> .....	\$	\$4,607,711.45
<b>7. LESS PREVIOUS PAYMENTS (Line 6 from prior Application)</b> .....	\$	\$3,818,938.44
<b>8. AMOUNT DUE THIS APPLICATION</b> .....	\$	\$788,773.01
<b>9. BALANCE TO FINISH, PLUS RETAINAGE</b> (Column G total on Progress Estimates + Line 5.c above).....	\$	\$6,022,515.07

**Contractor's Certification**

The undersigned Contractor certifies, to the best of its knowledge, the following

(1) All previous progress payments received from Owner on account of Work done under the Contract have been applied on account to discharge Contractor's legitimate obligations incurred in connection with the Work covered by prior Applications for Payment.

(2) Title to all Work, materials and equipment incorporated in said Work, or otherwise listed in or covered by this Application for Payment, will pass to Owner at time of payment free and clear of all Liens, security interests, and encumbrances (except such as are covered by a bond acceptable to Owner indemnifying Owner against any such Liens, security interest, or encumbrances), and

(3) All the Work covered by this Application for Payment is in accordance with the Contract Documents and is not defective.

---

**Contractor Signature**

By: Glinda Ireland  
Operations Manager

Date: \_\_\_\_\_

Payment of \$ 788,773.01  
(Line 8 or other - attach explanation of the other amount)

is recommended by \_\_\_\_\_  
Jennifer Koch, Project Engineer, Jacobs (Date)

Payment of \$ 788,773.01  
(Line 8 or other - attach explanation of the other amount)

is approved by \_\_\_\_\_  
Adam Denlinger, General Manager, Seal Rock Water District (Date)

is approved by \_\_\_\_\_  
Holly Halligan or Jay DeLapp, Loans Specialist - USDA-RD (Date)



PO Box 190 – 1037 NW Grebe Street – Seal Rock, Oregon 97376  
Phone: 541.563.3529 – Fax 541.563.4246 – Web: [www.srwd.org](http://www.srwd.org)

## Seal Rock Water District

General Manager's Report:  
Board Meeting February 11, 2021

*This report is an executive summary provided with this Board agenda to Commissioners with recommended actions if any. Detailed information, staff reports, and supporting materials are provided within the full agenda packet.*

### PHASE-IV SOURCE WATER PROJECT:

District staff and engineer along with funding partners from USDA-RD meet bi-weekly with R&G Excavating to discuss project schedule and status. Construction continues to pick up in other areas, with pipeline work along TL-500 and the Makai Community completed. Contractor is now shifting attention to work activities at the WTP. Increased construction activity at the WTP site includes excavation of the backwash basin. Contractor monthly narratives and detailed progress schedule required as part of the engineer's submittal review are included for the month of January/February.

### Raw Water Intake Structure:

No work was observed at the RW Intake Structure. Erosion control BMPs are in place and have been reestablished for the wet weather season. There is limited construction activity in this area.



Intake Pipe Gallery:

### Pipeline and Utility Installation:

Pipeline and utility installation along Beaver Creek is approximately 95% complete. Items remaining for work on Beaver Creek Road includes installation of the water line for the Young's property. No work was observed on the bridge crossing.

### Membrane Water Treatment Plant:

The Contractor focused their efforts on continued rebar and concrete placement for the backwash basin. R&G's subcontractor Paso Robles Tank has been working to construct the clearwell.



*Clearwell:*



*Backwash Basin:*

District received 3-truckloads of membrane filtration equipment which was stored inside the district's shop facility. R&G Construction has insured this equipment and will be moved and installed by the contractor once the treatment plant building is constructed.



*WesTech Membrane Filtration Equipment:*

## Construction Work Accomplished

Facility No.	Facility Name	Work Accomplished
10	Raw Water Intake Pump Station	Intake complete, BMPs are in place for the wet weather season. Contractor is working on the bridge crossing and pipe gallery installation.
11	Raw Water Intake Building	Preload completed on 8/13/20 and Survey Monitoring Measurements continue weekly.
15	Pipeline along Beaver Creek Road and Outfall completed	Waterline to Young's property will be installed with the power to the intake facility.
15	Pipeline along TL-500 and Kona Place	Pipeline installation at TL-500 complete; final cleanup and site restoration remains to complete this item.
20	Membrane Building	No work on the membrane building. WesTech delivered the Membrane Equipment to the district's shops facility.
30	Clearwell Tank No. 1	Subcontractor is in the process of building the clearwell.
40	Backwash Basin	Several concrete pours have occurred with sidewall concrete pours remaining.
55	98 <sup>th</sup> Street PRV	No work at this location
56	123 <sup>rd</sup> Street Pump Station and PRV	No work at this location

### OTHER NOTABLE ACTIVITIES FOR THE MONTH INCLUDE:

- o Attended on-site Beaver Creek water quality field data collection.
- o Attended SDAO Legislative Committee meetings.
- o Attended SDAO Water Committee meeting.
- o Attended SDAO 2021 Annual Conference.
- o Met with Makai Road District Members to discuss site restoration and resurfacing schedule.
- o Attended several video conferences with engineers, contractor, and USDA to discuss submittals and schedule for on-site work on the Beaver Creek Source water project.
- o Attended several meetings with OWRD representatives to the MC-WPP.
- o Met with new General Manager of SWLC-PWUD to discuss capital project financing.
- o Met with representatives from Colton Water District to discuss capital project financing.
- o Attended Mid-Coast Water Planning Partnership Strategy Development Meetings.
- o Hosted SRWD safety/staff meeting.
- o Attended OWRD Board preparation meeting.
- o Met with contractors to discuss final installation of AMI radio read equipment in the Pacific Shores Community. Work scheduled to be completed February 11<sup>th</sup>.
- o The district received 3-applications to fill a vacancy in the district field operations. Applications are being screened at this time before scheduling interviews.



### Appointed/Reappointed Budget Committee Members (3 YEARS TERM)

NAME	DATE APPOINTED	TERM
(1) Vacant	Appointment Jan 2021	1. (FY 21-22 Budget) June 2021 2. (FY 22-23 Budget) June 2022 3. (FY 23-24 Budget) June 2023 4. (FY 24-25 Budget) June 2024
(2) James Senn 8450 SW Marine View St South Beach Oregon 97366	Reappointed Jan 2020	1. (FY 20-21 Budget) June 2020 2. (FY 21-22 Budget) June 2021 3. (FY 22-23 Budget) June 2022 4. (FY 23-24 Budget) June 2023
(3) Barry Compton PO Box 53 South Beach OR 97366	Reappointed Jan 2020	1. (FY 20-21 Budget) June 2020 2. (FY 21-22 Budget) June 2021 3. (FY 22-23 Budget) June 2022 4. (FY 23-24 Budget) June 2023
(4) Tom Ryan 13973 NW Alika Drive Seal Rock OR 97376	Appointment Feb 2018	1. (FY 18-19 Budget) June 2018 2. (FY 19-20 Budget) June 2019 3. (FY 20-21 Budget) June 2020 4. (FY 21-22 Budget) June 2021
(5) Barbara Flewellyn 13705 NW Alika Dr. Seal Rock OR 97376	Reappointed Jan 2020	1. (FY 20-21 Budget) June 2020 2. (FY 21-22 Budget) June 2021 3. (FY 22-23 Budget) June 2022 4. (FY 23-24 Budget) June 2023





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# Seal Rock Water District

JAN 21 2021

Date 1-19-21

BY: .....

Position Applying For: Budget Committee Member

Paben Cheryl J  
Last Name First Name Middle Name

PO BOX 87  
Address

Seal Rock OR 97376  
City State Zip

541 272 0023  
Telephone Number (s)

Retired (banking)  
Occupation:

How long have you lived in Seal Rock Water District? 8 years  
Have you been previously employed by Seal Rock Water District? Yes  No   
If yes, when? \_\_\_\_\_

1. Please provide a brief description of your experience, training, special interest, or involvement in the community that support your nomination to the Seal Rock Water District Budget Committee. Please feel free to provide a resume or other supporting documents.

SEE attached

2. Please list concerns you would like to see addressed if you are appointed as a Budget Committee member.

SEE attached

Multiple horizontal lines for writing concerns.

Cheyl J. Pahr  
Signature

1-19-21  
Date

Please Return to:

Attn: Joy King  
Seal Rock Water District  
1037 NW Grebe Street  
P.O. Box 190  
Seal Rock, Oregon 97376

The Seal Rock Water District consider applicants for all positions without regard to race, color, sex, national origin, disability, marital status, sexual orientation or any other legally protected status.

I am interested in serving my community on the Seal Rock Water district and listed below are a few of my prior experiences that I feel may bring value to the board.

a) Currently serving as board member, volunteer and previous treasurer for FOLCAS (Friends of Lincoln County Animals, Inc). Mission statement: "To support and advance the health and well-being of domesticated animals in Lincoln County, Oregon."

b) Previous board member/treasurer for Northwest Coastal Housing. Mission Statement: "To provide affordable, safe, decent and stable housing with compassion and integrity."

c) Retired bank Area/branch manager. 10 years in the banking industry providing marketing leadership, fiscal responsibility, time management and staff support.

d) Avid outdoors person. Surfer, kayaker, backpacker, hiker with much respect for nature.

e) 14 year Lincoln County residence and the last 8 years calling Seal Rock home.

Thank you for your consideration of my desire to serve on the Seal Rock Water district board. If you have any questions, please feel free to reach out to me via email or cell.

Sincerely,

Cheryl Paben

[Cheryl.paben@aol.com](mailto:Cheryl.paben@aol.com)

541 272 0023

2) An objective is to fully understand our new water system being built/installed now and the impact on our Seal Rock water users and surrounding communities. To further understand the need of a possible backup water source to our neighboring communities due to natural or other disasters that would disrupt water flow to homes and the impact it would have on the Seal Rock residences.



PO Box 190 · 1037 NW Grebe Street · Seal Rock, Oregon 97376  
 Phone: 541.563.3529 · FAX 541.563.4246 · Email: info@srwd.org

## Seal Rock Water District

DATE ACTION REQUESTED: February 11, 2021							
Ordinance	Resolution	X	Motion	Information			
Date Prepared: January 12, 2020				Dept.: Administration			
SUBJECT: Consider adopting amendments to the LC-MJHMP.				Contact Person for this Item: Adam Denlinger, General Manager adenlinger@srwd.org. 541-563-4447			

### RECOMMENDED DISTRICT ACTION:

Consider a motion to adopt Resolution No. 2102-01, A Resolution adopting the Seal Rock Water District's amendments to the Lincoln County Multi-Jurisdictional Natural Hazards Mitigation Plan.

### DISTRICT GOAL:

Prioritize challenges that must be overcome to assure successful operations dependent upon safe and effective equipment.

### BACKGROUND:

Lincoln County Multi-Jurisdictional Natural Hazards Mitigation Plan (MJNHMP) was originally completed and approved by the Federal Emergency Management Agency (FEMA) in 2009. The original plan did not include representation from SRWD. In 2014, an update to the plan was initiated for FEMA re-approval and approved in 2015 and the district was included in this update. In 2020, an update to the plan was initiated for FEMA re-approval. At this time SRWD was invited to participate in the process to update the district's projects through the attached Addendum to the LC-MJNHMP. The steering committee met to review hazards, risk assessments, and mitigation strategies within the district's service area. District staff provided comments throughout the process and attended several partnership meetings. FEMA provided notice that the updated plan meets required criteria but will not be formally approved by FEMA until adoption by all partner communities participating in the planning process.

Submitted By: \_\_\_\_\_

*A. Denlinger*

Adam Denlinger, General Manager

**RESOLUTION NO. 0221-01****A RESOLUTION OF THE SEAL ROCK WATER DISTRICT BOARD OF COMMISSONERS ADOPTING THE DISTRICTS'S AMMENDMENTS TO THE LINCOLN COUNTY MULTI-JURISDICTIONAL NATURAL HAZARDS MITIGATION PLAN**

**WHEREAS**, Seal Rock Water District recognizes the threat that natural hazards pose to people, property and infrastructure within our service area; and

**WHEREAS**, undertaking hazard mitigation actions will reduce the potential for harm to people, property and infrastructure from future natural hazards; and

**WHEREAS**, an adopted Lincoln County Multi-Jurisdictional Natural Hazards Mitigation Plan (MJNHMP) is required as a condition of future funding for mitigation projects under multiple FEMA pre- and post-disaster mitigation grant programs; and

**WHEREAS**, the Seal Rock Water District has fully participated in the Federal Emergency Management Agency (FEMA) prescribed mitigation planning process to prepare the Lincoln County Multi-Jurisdictional Natural Hazard Mitigation Plan, which has established a comprehensive, coordinated planning process to eliminate or minimize vulnerabilities; and

**WHEREAS**, the Seal Rock Water District has identified natural hazard risks and prioritized a number of proposed actions and programs needed to mitigate the vulnerabilities of the Seal Rock Water District to the impacts of future disasters within the Lincoln County Multi-Jurisdictional Natural Hazard Mitigation Plan; and

**WHEREAS**, these proposed projects and programs have been incorporated into the Lincoln County, Multi-Jurisdictional Natural Hazard Mitigation Plan that has been prepared and endorsed for consideration and implementation by the cities and special districts of Lincoln County; and

**WHEREAS**, the Oregon Office of Emergency Management and Federal Emergency Management Agency, Region X officials have reviewed the Seal Rock Water District addendum to the Lincoln County Multi-Jurisdictional Natural Hazard Mitigation Plan and pre-approved it (dated, December 9, 2020) contingent upon this official adoption by the participating governments and entities; and

**WHEREAS**, the MJNHMP is comprised of three volumes: Volume I: Basic Plan, Volume II: Jurisdictional Addenda, and Volume III: Appendices, collectively referred to herein as the MJNHMP; and

**WHEREAS**, the MJNHMP is in an on-going cycle of development and revision to improve its effectiveness; and

**WHEREAS**, Seal Rock Water District adopts the MJNHMP and directs the General Manager and staff to develop, approve, and implement the mitigation strategies and any administrative changes to the MJNHMP.

**NOW, THEREFORE, THE SEAL ROCK WATER DISTRICT BOARD OF COMMISSONERS HEREBY RESOLVES AS FOLLOWS:**

- Section 1.** The Seal Rock Water District adopts the Lincoln County Multi-Jurisdictional Natural Hazards Mitigation Plan as an official plan; and
- Section 2.** The Seal Rock Water District will submit this Adoption Resolution to the Oregon Office of Emergency Management and Federal Emergency Management Agency, Region X officials to enable final approval of the Lincoln County Multi-Jurisdictional Natural Hazards Mitigation Plan.
- Section 3.** This resolution shall be effective upon passage by the Seal Rock Water District Board of Commissioners, this 11th day of February 2021.

PASSED by the Board of Commissioners on this  
11th day of February 2021.

APPROVED by the Chair on this  
11<sup>th</sup> day of February 2021.

ATTEST:

APPROVED:

\_\_\_\_\_  
Secretary, Board of Commissioners

\_\_\_\_\_  
Chairman, Board of Commissioners

# Seal Rock Water District Addendum to the Lincoln County Multi-Jurisdictional Hazard Mitigation Plan



Photo Credit: Peter Eckert

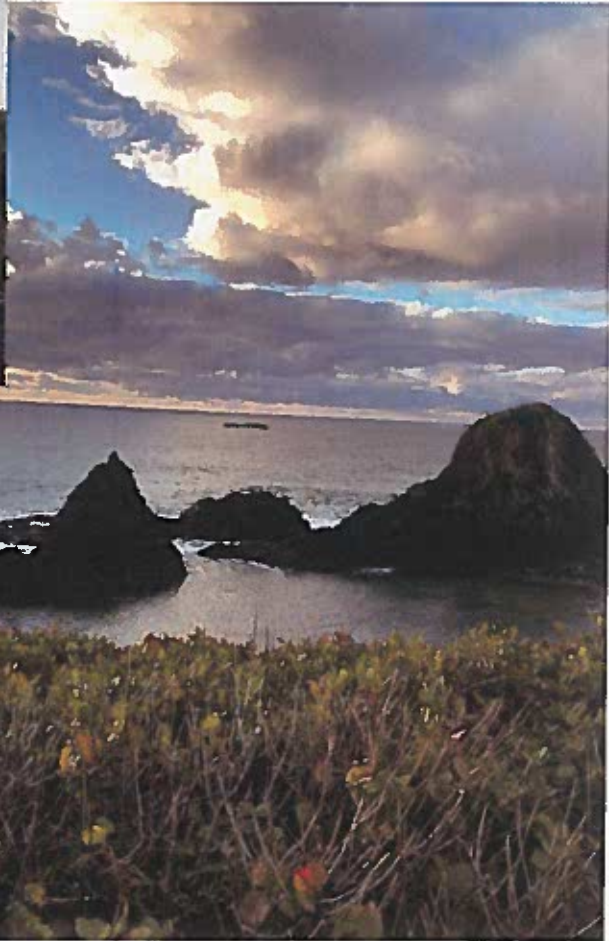


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September 2020

Volume II: Seal Rock WD Addendum



Prepared for:

Seal Rock Water District

Prepared by:

University of Oregon

Institute for Policy Research and Engagement  
Oregon Partnership for Disaster Resilience



Effective [Month XX],  
2020 through  
[Month XX], 2025



This Natural Hazard Mitigation Plan was prepared by:



Planning grant funding provided by:



**FEMA**

Federal Emergency Management Agency (FEMA)  
Pre-Disaster Mitigation Program  
Grant: PDMC-PL-10-OR-2017-002  
Disaster Award Number: OR-2018-001

Additional Support Provided by:



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## Purpose

This document serves as the Central Lincoln People's Water District's (Water District or PUD) addendum to the Lincoln County Multi-Jurisdiction Natural Hazards Mitigation Plan (MNHMP, NHMP). This addendum describes how the Water District's risks vary from the entire Lincoln County planning area. Information contained herein supplements information contained in Volume I (Basic Plan) of this NHMP, which serves as the foundation for this jurisdiction's addendum and Volume III (Mitigation Resources), which provides additional information. This addendum meets all the requirements of Title 44 §201.6 including:

- Multi-jurisdictional Plan Requirements §201.6(a)(4),
- Multi-jurisdictional Planning Process §201.6(b)(1-3),
- Multi-Jurisdictional Risk Assessment §201.6(c)(2)(iii),
- Multi-jurisdictional Mitigation Strategy §201.6(c)(3)(iv),
- Multi-jurisdictional Plan Maintenance Process §201.6(c)(4), and
- Multi-jurisdictional Plan Adoption §201.6(c)(5).

A description of the jurisdiction specific planning and adoption process follows, along with detailed community specific action items. Information about the Water District's risk relative to the county's risk to natural hazards is documented in the addendum's Hazard Analysis and Issue Identification section. The section considers how the Water District's risk differs from or matches that of the county's; additional information on Risk Assessment is provided within the Lincoln County NHMP's Section 2 – Risk Assessment.

This is the second addendum to the Lincoln County NHMP for the Water District. The Water District was added to the previous version of the NHMP in 2017. In the previous version of the NHMP the Water District contributed risk assessment information and mitigation strategies. Relevant updates are further discussed throughout the NHMP, and within Volume III, Appendix B, which provides an overview of alterations to the previous Lincoln County NHMP that took place during this update process.

Seal Rock WD adopted their addendum to the Lincoln County Multi-jurisdictional NHMP on [Date, 2020]. FEMA Region X approved the Lincoln County NHMP on [Date, 2020] and the Water District's addendum on [Date, 2020]. With approval of this NHMP the Water District is now eligible to apply for the Robert T. Stafford Disaster Relief and Emergency Assistance Act's hazard mitigation project grants through [Date, 2025].

## Mitigation Plan Mission

The NHMP mission states the purpose and defines the primary functions of the NHMP. It is intended to be adaptable to any future changes made to the NHMP and need not change unless the community's environment or priorities change.

The Water District concurs with the mission statement developed during the Lincoln County planning process (Volume I, Section 3):

*To promote public policy and mitigation activities which will enhance the safety to life and property from natural hazards.*

The 2019-2020 NHMP update Steering Committee reviewed the 2015 plan mission statement and agreed it accurately describes the overall purpose and intent of this plan. This is the exact wording that was present in the 2015 and 2009 NHMP. The Steering

Committee believes the concise nature of the mission statement allows for a comprehensive approach to mitigation planning.

## Mitigation Plan Goals

Mitigation plan goals are more specific statements of direction that Lincoln County citizens, and public, and private partners can take while working to reduce the Water District’s risk from natural hazards. These statements of direction form a bridge between the broad mission statement, and serve as checkpoints, as agencies, and organizations begin implementing mitigation action items.

The Water District concurs with the goals developed during the Lincoln County planning process (Volume I, Section 3). All NHMP goals are important and are listed below in no order of priority. Establishing community priorities within action items neither negates nor eliminates any goals, but it establishes which action items to consider implementing first, should funding become available.

Below is a list of the NHMP goals:

- Goal 1:** Protect life and reduce injuries resulting from natural hazards.
- Goal 2:** Minimize public and private property damages and the disruption of essential infrastructure and services from natural hazards.
- Goal 3:** Implement strategies to mitigate the effects of natural hazards and increase the quality of life and resilience of economies in Lincoln County.
- Goal 4:** Minimize the impact of natural hazards while protecting, restoring, and sustaining environmental processes.
- Goal 5:** Enhance and maintain local capability to implement a comprehensive hazard loss reduction strategy.
- Goal 6:** Document and evaluate progress in achieving hazard mitigation strategies and action items.
- Goal 7:** Motivate the public, private sector, and government agencies to mitigate the effects of natural hazards through information and education.
- Goal 8:** Apply development standards that mitigate or eliminate the potential impacts of natural hazards.
- Goal 9:** Mitigate damage to historic and cultural resources from natural hazards.
- Goal 10:** Increase communication, collaboration, and coordination among agencies at all levels of government and the private sector to mitigate natural hazards.
- Goal 11:** Integrate local NHMPs with comprehensive plans and implementing measures.

## Process and Participation

This section of the NHMP addendum addresses 44 CFR 201.6(a)(3), *Participation*.

In addition to establishing a comprehensive community-level mitigation strategy, the Disaster Mitigation Act of 2000 (DMA2K), and the regulations contained in 44 CFR 201, require that jurisdictions maintain an approved NHMP to receive federal funds for mitigation projects. Local adoption, and federal approval of this NHMP ensures that the Water District will remain eligible for pre-, and post-disaster mitigation project grants.

The Oregon Partnership for Disaster Resilience (OPDR) at the University of Oregon's Institute for Policy Research and Engagement (IPRE) collaborated with the Oregon Office of Emergency Management (OEM), the Department of Land Conservation and Development (DLCD), Lincoln County, and Seal Rock WD to update the multi-jurisdictional NHMP and to develop the Water District addendum. This project is funded through the Federal Emergency Management Agency's Pre-Disaster Mitigation (PDM) Competitive Grant Program Grant: OR-2018-001 (PDMC-PL-10-OR-2017-002). Members of the Seal Rock WD NHMP Steering committee also participated in the County NHMP update process (Volume III, Appendix B).

The Lincoln County NHMP, and Seal Rock WD addendum, are the result of a collaborative effort between citizens, public agencies, non-profit organizations, the private sector, and regional organizations. The Seal Rock WD NHMP Steering Committee guided the process of developing the NHMP.

### Convener and Committee

The Water District General Manager serves as the NHMP addendum convener. The convener of the NHMP addendum will take the lead in implementing, maintaining, and updating the addendum in collaboration with the designated conveners of the Lincoln County NHMP (Lincoln County Emergency Manager and Planning Director).

Representatives from the Water District Steering Committee met formally, and informally, to discuss updates to their addendum (Volume III, Appendix B). The steering committee reviewed and revised the Water District's representation in the Lincoln County NHMP, with focus on the NHMP's risk assessment and mitigation strategy (action items).

This addendum reflects decisions made at the designated meetings, and during subsequent work, and communication with OPDR. The changes are highlighted with more detail throughout this document, and within Volume III, Appendix B. Other documented changes include the inclusion of the Water District's risk assessment and hazard identification sections which were not included in previous versions of the NHMP and mitigation strategy (action items).

The Seal Rock WD steering committee was comprised of the following representatives:

- Convener, Adam Denlinger, General Manager
- Brad Wynn, Senior Operator

### Public Participation

Public participation was achieved in part by posting the NHMP publicly and providing community members the opportunity to make comments and suggestions during the review process. Community members were also provided an opportunity for comment during the plan development stage via a survey administered by OPDR (Volume III, Appendix F). During the public review period (Attachment B) there were no comments provided.

## **Implementation and Maintenance**

The Water District Board of Directors will be responsible for adopting the Water District addendum to the Lincoln County NHMP. This addendum designates the steering committee, and a convener to oversee the development, and implementation of action items. Because the Water District addendum is part of the County's multi-jurisdictional NHMP, the Water District will look for opportunities to partner with the County. The Water District's steering committee will convene after re-adoption of the Water District NHMP addendum on an annual schedule. The County is meeting on a quarterly basis and will provide opportunities for participating jurisdictions (cities and special districts) to report on NHMP implementation, and maintenance during their meetings. The Water District General Manager will serve as the Water District convener and will be responsible for assembling the steering committee. The steering committee will be responsible for:

- Reviewing existing action items to determine suitability of funding;
- Reviewing existing, and new risk assessment data to identify issues that may not have been identified at NHMP creation;
- Educating, and training new steering committee members on the NHMP, and mitigation actions in general;
- Assisting in the development of funding proposals for priority action items;
- Discussing methods for continued public involvement; and
- Documenting successes, and lessons learned during the year.

The convener will also remain active in the County's implementation, and maintenance process (Volume I, Section 4).

The Water District will utilize the same action item prioritization process as the County (Volume I, Section 4).

## **Implementation through Existing Programs**

This NHMP is strategic and non-regulatory in nature, meaning that it does not necessarily set forth any new policy. It does, however, provide: (1) a foundation for coordination and collaboration among agencies, residents, and the Water District; (2) identification and prioritization of future mitigation activities; and (3) aid in meeting federal planning requirements and qualifying for assistance programs. The mitigation plan works in conjunction with other Water District plans and programs including their 2010 Water System Master Plan, Capital Improvement Plan, Preliminary Engineering Report for SRWD Primary Source Water Improvements, Lincoln County NHMP, and the State of Oregon NHMP.

The mitigation actions described herein (and in Attachment A) are intended to be implemented through existing plans and programs within the Water District. Plans and policies already in existence have support from district residents, businesses, and policy

makers. Where possible, the Water District will implement the NHMP's recommended actions through existing plans and policies. Many strategic plans get updated regularly, allowing them to adapt to changing conditions and needs. Implementing the NHMP's action items through such plans and policies increases their likelihood of being supported and implemented. Implementation opportunities are further defined in action items when applicable.

Future development without proper planning may result in worsening problems associated with natural hazards.

The Water District currently has the following plans and policies that relate to natural hazard mitigation:

- [Water System Master Plan with addendums](#) (2010)
- [Water Management and Conservation Plan](#) (2014, update 2019)
  - [Water Conservation Ordinance](#) (1992)
- [Reconnaissance-Level Source Water Study](#) (2015)
- [Phase-IV Conceptual Design Report for the SRWD Beaver Creek Water Supply](#) (2016)
  - [Environmental Report](#) (2017)
  - [Preliminary Engineering Report](#) (2017)
  - [Biological Assessment](#) (2018)
- [Bayshore Dune Management Plan](#) (2012)
- [NOAA BiOp/FONSI](#) (2019)

The purpose of these documents is to outline the planned improvements to infrastructure and equipment for a period of three to five years. These documents provide the context for how the District will accomplish our mission to provide reliable, resilient source water to our customers for generations to come.

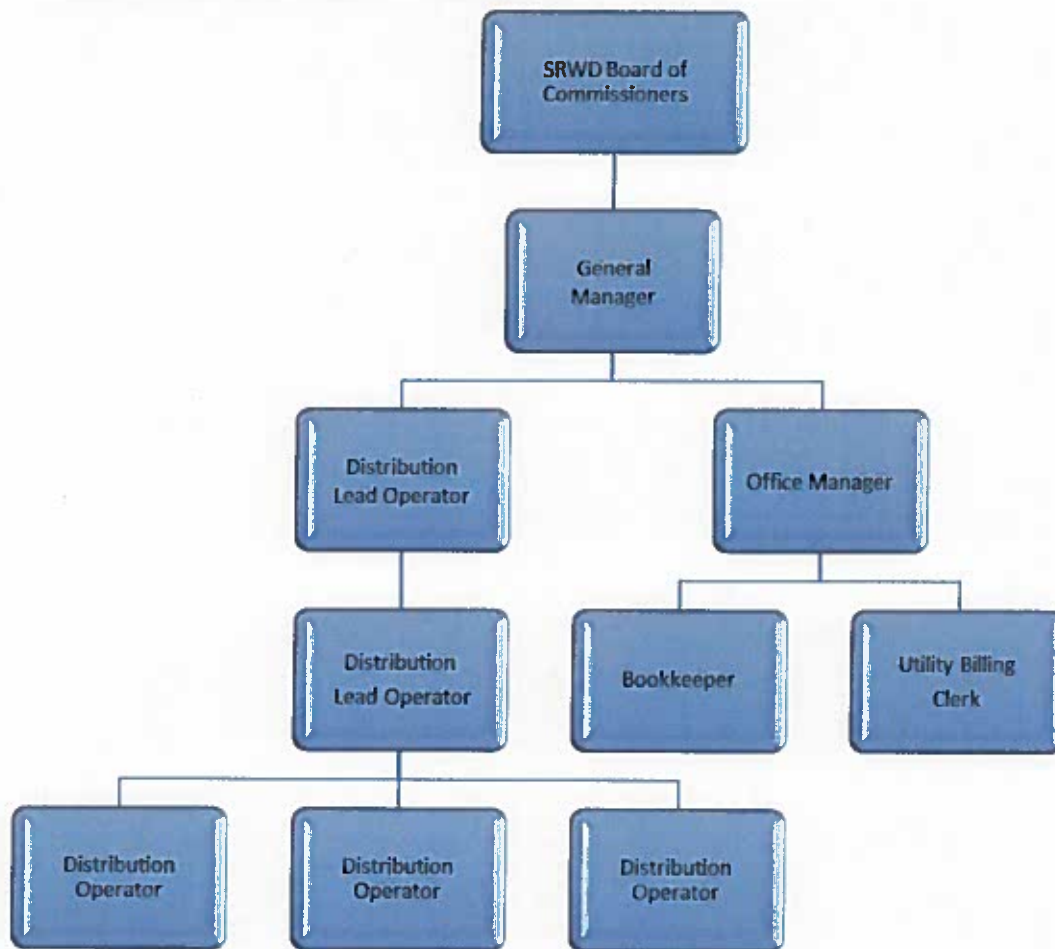
*Relation to Natural Hazard Mitigation:* Planning documents will be used to support and justify funds necessary to develop source water improvements for the District which include: Constructing an intake on Beaver Creek, installing a raw water supply line from the Beaver Creek intake to the water treatment facility, and constructing a membrane water treatment facility. To withstand natural hazards, improvements will be designed considering resiliency and rapid recovery opportunities.

## Governance Structure

Seal Rock Water District is governed by a five-member Board of Commissioners elected to four-year terms by District voters (Figure SRWD-1). The Board of Commissioners, with help from the district's management team, set our policies and procedures.



**Figure SRWD-I Governance Structure**



Source: Seal Rock Water District (2020)

## Continued Public Participation

An open public involvement process is essential to the development of an effective NHMP. To develop a comprehensive approach to reducing the effects of natural disasters, the planning process shall include opportunities for the public, neighboring communities, local, and regional agencies, as well as, private, and non-profit entities to comment on the NHMP during review.<sup>1</sup> Keeping the public informed of efforts to reduce its risk to future natural hazard events is important for successful NHMP implementation, and maintenance. As such, the Water District is committed to involving the public in the NHMP review and update process (Volume I, Section 4). The Water District posted the plan update for public comment before FEMA approval, and after approval will maintain their addendum to the NHMP on the Water District's website: <https://www.srwd.org/study-documents-reports>

<sup>1</sup> Code of Federal Regulations, Chapter 44, Section 201.6, subsection (b), 2015

## NHMP Maintenance

The Lincoln County NHMP, and Water District addendum will be updated every five years in accordance with the update schedule outlined in the Disaster Mitigation Act of 2000. During the County NHMP update process, the Water District will also review, and update its addendum (Volume I, Section 4). The convener will be responsible for convening the steering committee to address the questions outlined below.

- Are there new partners that should be brought to the table?
- Are there new local, regional, state or federal policies influencing natural hazards that should be addressed?
- Has the community successfully implemented any mitigation activities since the NHMP was last updated?
- Have new issues or problems related to hazards been identified in the community?
- Are the actions still appropriate given current resources?
- Have there been any changes in development patterns that could influence the effects of hazards?
- Have there been any significant changes in the community's demographics that could influence the effects of hazards?
- Are there new studies or data available that would enhance the risk assessment?
- Has the community been affected by any disasters? Did the NHMP accurately address the impacts of this event?

These questions will help the steering committee determine what components of the mitigation plan need updating. The steering committee will be responsible for updating any deficiencies found in the NHMP.

## Mitigation Strategy

This section of the NHMP addendum addresses 44 CFR 201.6(c)(3)(iv), *Mitigation Strategy*.

The Water District's mitigation strategy (action items) were first developed for the 2015 NHMP (added in 2017). The actions were reviewed, updated, and relocated to this addendum during the 2019-2020 NHMP planning process and will be revised during subsequent NHMP updates. During these processes, the steering committee assessed the Water District's risk, identified potential issues, and developed the mitigation strategy (action items).

### Priority Action Items

Table SRWD-1 presents a list of mitigation actions. The steering committee decided to modify the prioritization of action items in this update to reflect current conditions (risk assessment), needs, and capacity. While all actions are considered priorities for the Water District, the highest priority actions are shown in **bold text with grey highlight**. The Water District will focus their attention, and resource availability, upon these achievable, high leverage, activities over the next five-years. Although this methodology provides a guide for the steering committee in terms of implementation, the steering committee has the option to implement any of the action items at any time. This option to consider all action items for implementation allows the committee to consider mitigation strategies as new opportunities arise, such as capitalizing on funding sources that could pertain to an action item that is not currently listed as the highest priority. Refer to Attachment A for detailed information for each high priority action.

**Table SRWD-I Seal Rock WD Action Items**

Natural Hazard Action ID	Action Item	Coordinating Organization (Lead)	Potential Funding	Cost	Timing
<b>District Wide Actions</b>					
SRWD #1	Strengthen local redundancy in municipal source water supply systems.	SRWD Engineering, Operations, and Governing Body	CIP, OWRD, Grants	L	Long
SRWD #2	Develop Preventative maintenance program for existing water and communication infrastructure.	SRWD Consultant Engineers	CIP	M	Long
SRWD #3	Develop redundant water supply connections with neighboring communities.	SRWD Operations, Consultant Engineers, Districts and Municipalities	CIP	H	Long
SRWD #4	Evaluate the relocation of underground utility infrastructure in identified erosion hazard zones.	SRWD Consultant Engineers	CIP, USDA-RD RUAP	L	Short
SRWD #5	Design underground and distribution systems with consideration of potential slides.	SRWD Consultant Engineers	CIP, USDA-RD RUAP, Business Oregon SDWRRLEFP	H	Short
SRWD #6	Construct the SRWD Beaver Creek primary source water project.	SRWD Engineering and District Operations	CIP, USDA-RD RUAP, Business Oregon SDWRRLEFP	H	Short
SRWD #7	Construct Membrane Water Treatment Facility within the District's boundaries outside the tsunami inundation zone.	SRWD Consultant Engineers	CIP, USDA-RD RUAP, Business Oregon SDWRRLEFP	H	Short
SRWD #8	Construct a primary source water intake on Beaver Creek in Lincoln County.	SRWD Consultant Engineers	CIP	H	Short
SRWD #9	Construct primary source water supply piping from Beaver Creek intake site 1.5-miles to proposed Water Treatment Facility on South Beaver Creek Road and Beaver Creek Road.	SRWD Consultant Engineers	CIP	H	Short
SRWD #10	Evaluate the relocation of underground utility infrastructure in identified tsunami hazard zones.	SRWD Consultant Engineers	CIP, USDA-RD RUAP	L	Medium

Source: Seal Rock WD steering committee, 2020.

Cost: L (less than \$50,000), M (\$50,000-\$100,000), H (more than \$100,000)

Timing: Ongoing (continuous), Short (1-4 years), Medium (4-10 years), Long (10 or more years)

## Risk Assessment

This section of the NHMP addendum addresses 44 CFR 201.6(c)(2)(iii) - Risk Assessment.

Assessing natural hazard risk has three phases:

- **Phase 1:** Identify hazards that can impact the jurisdiction. This includes an evaluation of potential hazard impacts – type, location, extent, etc.
- **Phase 2:** Identify important community assets, and system vulnerabilities. Example vulnerabilities include people, businesses, homes, roads, historic places, and drinking water sources.
- **Phase 3:** Evaluate the extent to which the identified hazards overlap with or have an impact on, the important assets identified by the community.

The local level rationale for the identified mitigation strategies (action items) is presented herein, and within Volume I, Section 2, and Volume III, Appendix C. The risk assessment process is graphically depicted in Figure SRWD-2. Ultimately, the goal of hazard mitigation is to reduce the area of risk, where hazards overlap vulnerable systems.

**Figure SRWD-2 Understanding Risk**



## Community Characteristics

Appendix C (Volume III) and the following section provides information on Seal Rock WD specific demographics and assets (see Table SRWD-5). Many of these community characteristics can affect how natural hazards impact communities, and how communities choose to plan for natural hazard mitigation. Considering the Water District specific assets during the planning process can assist in identifying appropriate measures for natural hazard mitigation.

The Water District's service area is approximately 12.5 square miles and has a population of about 5,500 (expands up to 8,000 during summer months); the population is expected to

grow to about 6,000 by the year 2035.<sup>2</sup> Land within the service area is primarily zoned residential near the Pacific Ocean with some commercial areas along Highway 101. Land to the east of the service area is forested and used for timber production. The Water District has emergency water connections with the cities of Newport and Toledo and provides support to the area fire districts. There are about 2,500 service connections, 95% are residential (by 2035 it is expected service connections will expand to about 3,500).

There are several state parks including Driftwood State Park, Seal Rock State Park, Ona Beach State Park, and Lost Creek State Park. The National Register of Historic Places and the State Historic Preservation Office lists Seal Rock as the only archaeological/historic site (historical village) within the service area.<sup>3</sup> The Water District is part of the Siletz Service Area of the Confederated Tribes of the Siletz Indians. Historical tribal lands include areas around the Yaquina Bay and River (Yaquina Tribe) and Alsea Bay and Tribe (Alsea Tribe). Remnants of tribal settlements have been found in these areas including fishing weirs at the Ahnkuti site along Yaquina Bay (near Toledo).<sup>4</sup>

The Water District has an existing water right on the Siletz River (2.6 cfs) which is junior to instream rights (and could be restricted during summer drought periods for months at a time). Currently the Water District purchases water from the City of Toledo which holds a senior water right (5.75 cfs) and junior water right (4.0 cfs) on the Siletz River. The Water District has enough capacity to meet current and anticipated future demand until at least the year 2035. While the city of Toledo water rights is adequate to meet the needs of the city and the Water District combined for next 100 years.

Seal Rock WD currently purchases about 120-130 million gallons of treated water from the City of Toledo per year. About 95 million gallons are sold to Water District customers while the remaining water is unaccounted (lost). Raw water from the Siletz River is treated at the Toledo Water Treatment Plant (Mill Creek supplies water during winter months). The Toledo and Seal Rock systems are at the same hydraulic grade (300 feet above sea level) but rely upon the Toledo Pump Station near Toledo to overcome friction. Water is transmitted via 50,000 feet of 12-inch transmission mains to two finish water storage tanks (combined over 2.3 million gallons capacity). The Driftwood Tank (ca. 1981) has a storage capacity of 0.9 MG and a water surface elevation of 265.5 feet. The Lost Creek Storage Tank (ca. 2005) has a storage capacity of 2.3 MG and a water surface elevation of 301 feet. There is a third tank (ca. 1971) that is too low to be used in the system today. The Water District has about 65 miles of piping and is separated into six pressure zones. About 30% of the pipes are 4-inch in diameter or less.

The Oregon Water Resources Department, coordinates with water districts to implement water conservation or curtailment plans when drought emergencies are declared. The Water District's Water System Master Plan addresses conservation and rationing protocols and includes a Water Management and Conservation Plan.

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<sup>2</sup> Seal Rock Water District, Water System Master Plan (2010); Seal Rock Water District, One Stop Meeting (2017)

<sup>3</sup> Oregon Historic Sites Database, <http://heritagedata.prd.state.or.us/historic/>, accessed July 17, 2020.

<sup>4</sup> Seal Rock Water District, Water System Master Plan (2010)

## Hazard Analysis

The Water District steering committee developed their hazard vulnerability assessment (HVA), using the Lincoln County and applicable City HVAs as references (Newport and Waldport). Differences reflect distinctions in vulnerability and risk from natural hazards unique to the Water District.

Table SRWD-2 shows the HVA matrix for the Water District listing each hazard in order of rank from high to low. The table shows that hazard scores are influenced by each of the four categories combined. For local governments, conducting the hazard analysis is a useful step in planning for hazard mitigation, response, and recovery. The method provides the jurisdiction with sense of hazard priorities but does not predict the occurrence of a hazard. See Volume I, Section 2: Risk Assessment of the Lincoln County NHMP for a description of the methodology.

Two catastrophic hazards (Cascadia Subduction Zone earthquake and local tsunami) and three chronic hazards (drought, landslide, and riverine flood) rank as the top hazard threats to the Water District (Top Tier). Wildfire, coastal erosion, winter storm (snow/ice), and coastal flood comprise the next highest ranked hazards (Middle Tier), while the distant tsunami, windstorm, tornado, crustal earthquake, and volcanic event hazards comprise the lowest ranked hazards (Bottom Tier).

**Table SRWD-2 Hazard Analysis Matrix**

Hazard	Maximum		Total Threat Score	Hazard Rank	Hazard Tiers
	History	Vulnerability			
Earthquake (Cascadia)	10	50	100	49	Top Tier
Drought	20	35	80	70	
Tsunami (Local)	2	50	100	49	
Landslide	20	40	70	70	
Flood (Riverine)	20	25	80	70	
Wildfire	12	20	80	70	Middle Tier
Coastal Erosion	20	30	60	70	
Winter Storm (Snow/Ice)	18	15	30	70	
Flood (Coastal)	20	10	30	70	
Tsunami (Distant)	10	20	50	35	Bottom Tier
Windstorm	20	5	10	70	
Tornado	8	10	30	56	
Earthquake (Crustal)	10	20	40	21	
Volcanic Events	2	5	40	7	

Source: Seal Rock WD steering committee, 2019-2020.

Table SRWD-3 categorizes the probability, and vulnerability scores from the hazard analysis for the Water District and compares the results to the assessment completed by the Lincoln County steering committee. Variations between the Water District and County are noted in **bold text** within the Water District ratings.

**Table SRWD-3 Probability and Vulnerability Comparison**

Hazard	Seal Rock WD		County	
	Probability	Vulnerability	Probability	Vulnerability
Coastal Erosion	High	Moderate	High	Low
Drought	High	Moderate	High	Moderate
Earthquake (Cascadia)	Moderate	High	Moderate	High
Earthquake (Crustal)	Low	Moderate	Low	Moderate
Flood (Coastal)	High	Low	High	Moderate
Flood (Riverine)	High	Moderate	High	Moderate
Landslide	High	High	High	High
Tornado	High	Low	High	Low
Tsunami (Distant)	Moderate	Moderate	Moderate	Low
Tsunami (Local)	Moderate	High	Moderate	High
Volcanic Event	Low	Low	Low	Low
Wildfire	High	Moderate	High	Moderate
Windstorm	High	Low	High	High
Winter Storm (Snow/Ice)	High	Low	High	Moderate

Source: Seal Rock WD and Lincoln County steering committee, 2019-2020.

## Hazard Characteristics

Volume I, Section 2 describes the characteristics of the profiled hazards, history, as well as the location, extent and probability of potential events. Additional information is found in the [Risk Assessment for Region 1, Oregon Coast, Oregon SNHMP \(Draft, 2020\)](#). Generally, an event that affects the County, or applicable cities where Water District facilities are located (Newport, Toledo, Waldport), is likely to affect the Water District as well. Similarly, the causes and characteristics of hazard events are appropriately described within the Volume I, Section 2 as well as the location and extent of potential hazards. Lastly, previous occurrences are well documented within Volume I, Section 2 and the community impacts described by the County, or applicable City, would generally be the same for the Water District.

### National Flood Insurance Program (NFIP)

FEMA updated the Flood Insurance Study (FIS) and Flood Insurance Rate Maps (FIRMs) in 2019 (effective October 18, 2019). The Water District is not a community which has authority to adopt and enforce floodplain management regulations for the areas within its jurisdiction. Lincoln County and the incorporated cities of Newport and Waldport participate in the National Flood Insurance Program (NFIP).

There are no repetitive loss or severe repetitive loss properties owned or operated by the Water District. For specific information for communities within the Water District's service area see Volume I, Section 2 and the addenda for the cities of Newport and Waldport (Volume II) for more information.

## Vulnerability Assessment

The Water District's concentrated population and resources, as well as the soil characteristics and relative earthquake hazards described herein and in Volume I, Section 2 are cause for significant effort toward mitigating the earthquake hazard. The Water

District's infrastructure (water lines, tanks, treatment plant, etc.) is highly vulnerable to a severe earthquake event. No quantitative assessment of the risk of natural hazards has been conducted at a district wide scale. However, there have been several reports conducted for the unincorporated region of the county that include the Seal Rock WD service area.

The Oregon Department of Geology and Mineral Industries (DOGAMI) conducted a multi-hazard risk assessment (Risk Report) for Lincoln County, including the Seal Rock-Bayshore area (approximately the same boundaries as the Seal Rock WD service area). The study was funded through the FEMA Risk MAP program and was completed in 2020. The Risk Report provides a quantitative risk assessment that informs communities of their risk related to the following natural hazards: coastal erosion, Cascadia Subduction Zone earthquake and tsunami, flood, landslide, and wildfire. The Water District hereby incorporates the Risk Report into this NHMP addendum by reference (DOGAMI, O-20-XX).

#### Natural Hazard Risk Report for Lincoln County

The Risk Report provides hazard analysis summary tables that identify populations and property within Lincoln County that are vulnerable to coastal erosion, earthquake, flood, landslide, tsunami, and wildfire hazards. The Risk Report does not include a quantitative assessment for the drought, severe weather (windstorm, winter storm), or volcanic event hazards.

The Risk Report performed an analysis of population and buildings, including the Seal Rock WD office (1037 NW Grebe St, Seal Rock) to determine exposure for each community (see Table SRWD-4). The Seal Rock-Bayshore communities are most vulnerable to earthquake (Cascadia Subduction Zone), the associated CSZ tsunami, landslides, and coastal erosion. Note: The data does not include potentially impacted visitor populations that may be lodging, or at a public venue, during hazard events.

The Seal Rock WD Office is located within the moderate and high landslide susceptibility hazard zones. The report does not provide an analysis for any other Water District facility or infrastructure listed in Table SRWD-5.

Note: It is expected that bridges in the area may be impassable by vehicles for over 24 months. As such bringing resources into the Seal Rock WD service area by sea and air will be necessary.



**Table SRWD-4 Seal Rock-Bayshore Hazard Profile**

<b>Community Overview</b>							
Community Name	Population	Number of Buildings		Critical Facilities <sup>1</sup>	Total Building Value (\$)		
Seal Rock-Bayshore	2,766	3,345		2	347,085,000		
<b>Hazard-MH Analysis Summary</b>							
Hazard	Scenario	Potentially Displaced Residents	% Potentially Displaced Residents	Damaged Buildings	Damaged Critical Facilities	Loss Estimate (\$)	Loss Ratio
Flood <sup>2</sup>	1% Annual Chance	43	2%	17	0	372,000	0.1%
Earthquake*	<i>CSZ M9.0 Deterministic</i>	546	20%	968	0	61,629,000	18%
Earthquake (within Tsunami Zone)		44	2%	86	0	12,237,000	3.5%
<b>Exposure Analysis Summary</b>							
Hazard	Scenario	Potentially Displaced Residents	% Potentially Displaced Residents	Exposed Buildings	Exposed Critical Facilities	Building Value (\$)	Percent of Exposure
Tsunami	<i>CSZ M9.0 – Medium</i>	289	11%	450	0	65,926,000	19%
Tsunami	Senate Bill 379 Regulatory Line	309	11%	476	0	67,481,000	19%
Landslide	High and Very High Susceptibility	364	13%	445	1	55,334,000	16%
Coastal Erosion	High Hazard	105	4%	155	0	25,329,000	7%
Wildfire	High Hazard	0	0%	0	0	0	0%

Source: IPRE. Data adapted from DOGAMI. 2020. Lincoln County Natural Hazard Risk Report. Table A-8.

\*Earthquake losses were calculated for buildings outside of Medium tsunami zone.

Rows with italicized text and tan shaded background indicate results should be considered in tandem as they are expected to occur within minutes of one another.

<sup>1</sup> Facilities with multiple buildings were consolidated into one building complex.

<sup>2</sup> No damage is estimated for exposed structures with “First floor height” above the level of flooding (base flood elevation).

In 2019, DOGAMI published a tsunami evacuation analysis using the XXL inundation zone which covers the largest CSZ event likely to occur based on the historical record.<sup>5</sup> Safety is reached when evacuees have reached “high ground”, or 20 feet beyond the limit of tsunami inundation. An analysis was conducted for cities and unincorporated areas of the county including the Seal Rock-Bayshore (Alsea Spit) area. According to the analysis the Seal Rock community is almost entirely outside the XXL tsunami inundation hazard area except for Highway 101 and the streets immediately south of Seal Rock. The report defines the Alsea Spit area (aka Bayshore) as extending from the mouth of Alsea Bay (south) to NW Hidden Lake Drive (north). The low-lying areas in the northern section of the Alsea Spit and almost all the southern section is expected to be overtopped by the expected XXL tsunami inundation. Liquefaction is also expected in these areas during earthquake shaking. Water District infrastructure within these areas is vulnerable to both earthquake shaking and tsunami inundation. Evacuation to high ground for residents and visitors is accessible and nearby to the east of Highway 101 for most of the Water District service area except for areas closest to the Alsea Bay (see Volume I, Section 2 for more information).

<sup>5</sup> DOGAMI, Open-File Report O-19-06.

For more information, see the following DOGAMI reports:

- Tsunami evacuation analysis of Lincoln City and unincorporated Lincoln County: Building community resilience on the Oregon coast (2019, [O-19-06](#))
- Analysis of earthquake and tsunami impacts for people and structures inside the tsunami zone for five Oregon coastal communities: Gearhart, Rockaway Beach, Lincoln City, Newport, and Port Orford (2020, [O-20-03](#))
- Oregon Coastal Hospital Resilience Project (2020, [O-20-02](#))

## Water District Asset Identification

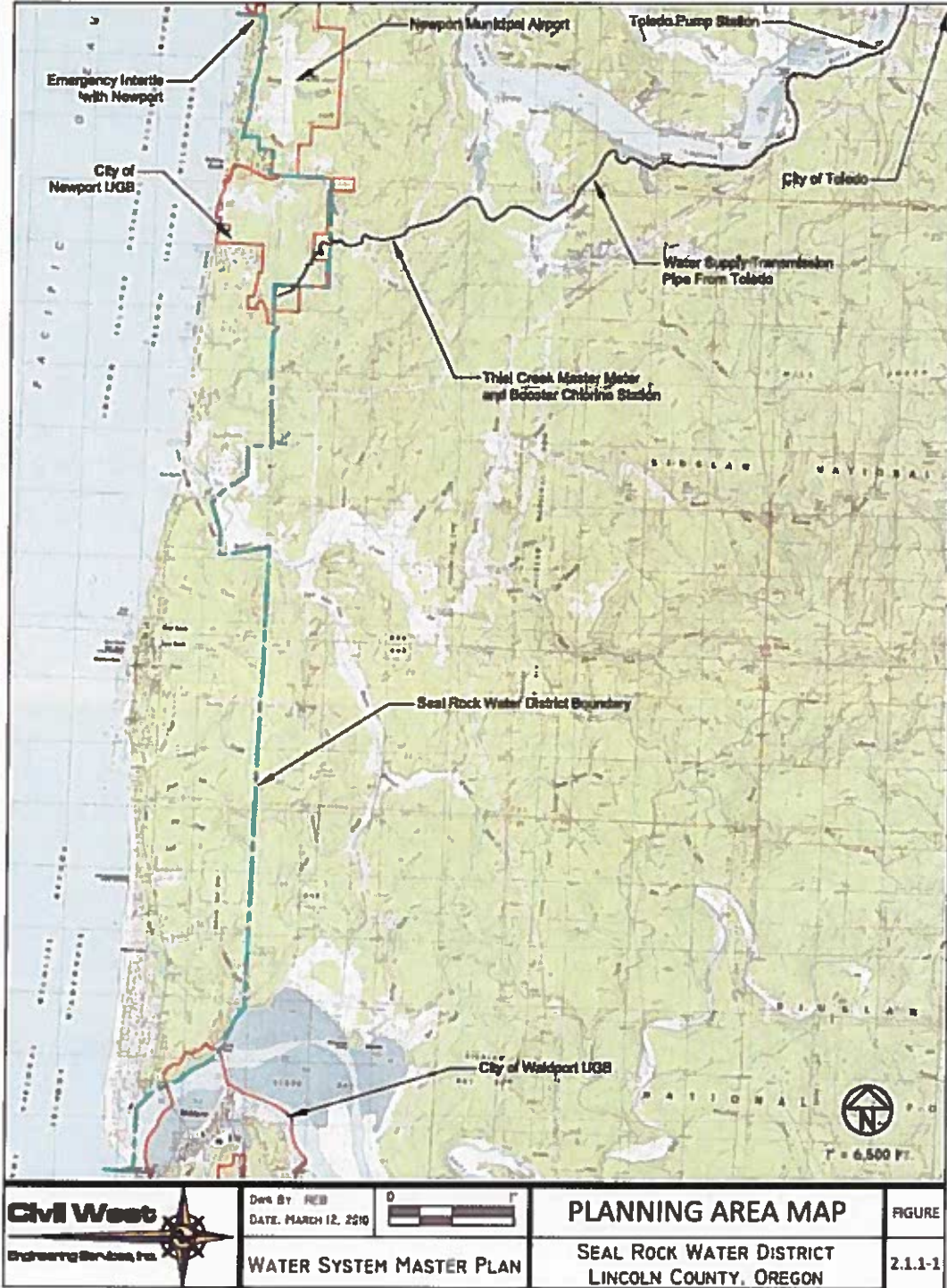
This section provides information on Water District specific assets. Considering the Water District specific assets during the planning process can assist in identifying appropriate measures for natural hazard mitigation. This section also provides information on Water District specific demographics and assets by area. Many of these community characteristics can affect how natural hazards impact communities, and how communities choose to plan for natural hazard mitigation.

### Facilities and Property Assets Inventory

Asset inventory is the first step of a vulnerability analysis. Assets that may be affected by hazard events include population, residential and nonresidential buildings, critical facilities, and infrastructure. Table SRWD-5 lists the resources, facilities, and infrastructure that, if damaged, could significantly impact the public safety, economic conditions, and environmental integrity of Seal Rock WD.

The Water District's facilities are located within their service area (see Figure SRWD-3Error! Reference source not found.) which includes the Lincoln County unincorporated communities of Seal Rock and Bayshore and small portions of the cities of Newport and Waldport. Additional infrastructure, including the main water transmission line, is in Lincoln County and the City of Toledo (see Figure SRWD-3 for detail). The service area extends from the unincorporated community of South Beach in the north (Henderson Creek area) to the Alsea Bay in the south (including the portion of Waldport on the north side of Alsea Bay).

Figure SRWD-3 Seal Rock WD Area Boundaries



Source: Seal Rock WD Water System Master Plan (2010)

Table SRWD-5 Facilities Summary

Name/Number	Address	Identified Hazard Exposure									
		CE	DR	EQ	FL	LS	TS	VE	WF	WS	WT
<b>Water Treatment</b>											
Water Treatment Plant (owned by Toledo)	860 NE Reservoir Ln, Toledo			X					X	X	X
Membrane Water Treatment Facility (proposed)	13745 NW Kona Street, Seal Rock			X					X	X	X
Beaver Creek Source Water Intake (proposed)	South Beaver Creek Rd and Beaver Creek Rd		X	X	X				X	X	X
<b>Storage Tanks</b>											
Driftwood Tank - 0.9 MG (ca. 1981)	NW Terrace Road, Seal Rock			X		X				X	X
Lost Creek Tank - 2.3 MG (ca. 2005)	593 SE 123 <sup>rd</sup> Street, Seal Rock			X		X				X	X
Makai Tank (ca. 1971), not in service	Membrane Water Treatment Facility			X		X				X	X
<b>Pump Stations</b>											
Toledo Pump Station	Near city of Toledo (1621 S Bay Road)			X	X	X	X		X	X	X
Cross Street Pump Station	NW Corner of Cross St. & Seal Rock St.			X		X				X	X
East Bayshore Pump Station	NE Corner of N. Bay Road and HWY-101			X		X				X	X
York Pump Station	6161 NW Pacific Coast Hwy			X		X				X	X
Driftwood Booster Pump Station	NW Terrace Road, Seal Rock			X		X				X	X
Lost Creek Booster Pump Station	593 SE 123 <sup>rd</sup> Street, Seal Rock			X		X				X	X
<b>Piping, Hydrants, Generators, and other Infrastructure</b>											
65 miles of piping (2-inch to 14-inch)	Throughout District	X		X		X	X			X	X
South Bay Road supply line	Throughout District	X		X		X	X			X	X
150 fire hydrants	Throughout District	X		X		X	X			X	X
Pump station generators	All Pump Stations			X		X					X

Source: Information provided by Seal Rock WD

**Table Key:**

"X" – Facility may be exposed and may be impacted by the identified hazard per a visual inspection of the mapped hazard area  
 (blank) = facility exposure has not been assessed for this hazard

**Hazard Descriptions:**

CE = Coastal Erosion  
 DR = Drought

EQ = Earthquake  
 FL = Flood

LS = Landslide  
 TS = Tsunami

VE = Volcanic Event  
 WF = Wildfire

WS = Windstorm/Tornado  
 WT = Winter Storm

## ATTACHMENT A: ACTION ITEM FORMS

Table SRWD-6 provides a summary list of actions for the Water District. Each action item has a corresponding action item worksheet describing the activity, identifying the rationale for the project, identifying potential ideas for implementation, and assigning coordinating and partner organizations. The action item worksheets can assist the community in pre-packaging potential projects for grant funding. The worksheet components are described below.

**Table SRWD-6 Action Item Summary**

Action Item	Priority	Timeline	Status	Related Hazard										
				Coastal Erosion	Drought	Earthquake	Flood	Landslide	Tsunami	Volcano	Wildfire	Windstorm	Winter Storm	
SRWD #1	X	Long	Ongoing	X	X	X	X	X	X					
SRWD #2		Long	Ongoing	X	X	X	X	X	X					
SRWD #3	X	Long	Ongoing	X	X	X	X	X	X					
SRWD #4		Short	Ongoing	X										
SRWD #5		Short	Ongoing					X						
SRWD #6	X	Short	Ongoing					X						
SRWD #7	X	Short	Ongoing						X					
SRWD #8	X	Short	Ongoing						X					
SRWD #9		Short	Ongoing						X					
SRWD #10		Medium	Ongoing						X					

**Previous NHMP Actions Removed/Deleted:**

Tsunami #1 (2017): "Collaborate with Lincoln County to identify potential risks and threats" was removed since the Water District collaborates with the County as part of the implementation and maintenance component of the mitigation plan standard practice. Updates to risks and threats will be included during the maintenance period and/or with five-year updates of the plan.

*Note: 2017 Actions were renamed as follows:*

2017 Action Item	2020 Action Item
Coastal Erosion #1	SRWD #4
Landslide #1 (1 <sup>st</sup> )	SRWD #5
Landslide #2 (2 <sup>nd</sup> )	SRWD #6
Tsunami #1/Landslide #1 (1 <sup>st</sup> )	SRWD #7
Tsunami #1/Landslide #1 (2 <sup>nd</sup> )	SRWD #8
Tsunami #1/Landslide #1 (3 <sup>rd</sup> )	SRWD #9

Action item descriptions were modified for 2020 actions SRWD #1, SRWD #3, and SRWD #6.

### **ALIGNMENT WITH EXISTING PLANS/POLICIES**

The Water District NHMP includes a range of action items that, when implemented, will reduce loss from hazard events in the Water District. Existing programs and other resources that might be used to implement these action items are identified. The Water District addresses statewide planning goals and legislative requirements through its comprehensive land use plan, capital improvements plan, mandated standards and building codes. To the extent possible, the Water District will work to incorporate the recommended mitigation action items into existing programs and procedures. Each action item identifies related existing plans and policies.

### **STATUS/RATIONALE FOR PROPOSED ACTION ITEM**

Action items should be fact-based and tied directly to issues or needs identified throughout the planning process. Action items can be developed at any time during the planning process and can come from several sources, including participants in the planning process, noted deficiencies in local capability, or issues identified through the risk assessment. The rationale for proposed action items is based on the information documented in this addendum and within Volume I, Section 2. The worksheet provides information on the activities that have occurred since the previous plan for each action item.

### **IDEAS FOR IMPLEMENTATION**

The ideas for implementation offer a transition from theory to practice and serve as a starting point for this plan. This component of the action item is dynamic, since some ideas may prove to not be feasible, and new ideas may be added during the plan maintenance process. Ideas for implementation include such things as collaboration with relevant organizations, grant programs, tax incentives, human resources, education and outreach, research, and physical manipulation of buildings and infrastructure.

### **COORDINATING (LEAD) ORGANIZATION:**

The coordinating organization is the public agency with the regulatory responsibility to address natural hazards, or that is willing and able to organize resources, find appropriate funding, or oversee activity implementation, monitoring and evaluation.

### **INTERNAL AND EXTERNAL PARTNERS:**

The internal and external partner organizations listed in the Action Item Worksheets are potential partners recommended by the project steering committee but not necessarily contacted during the development of the plan. The coordinating organization should contact the identified partner organizations to see if they are capable of and interested in participation. This initial contact is also to gain a commitment of time and/or resources toward completion of the action items.

Internal partner organizations are departments within the Water District or other participating jurisdiction that may be able to assist in the implementation of action items by providing relevant resources to the coordinating organization.

External partner organizations can assist the coordinating organization in implementing the action items in various functions and may include local, regional, state, or federal agencies, as well as local and regional public and private sector organizations.

**PLAN GOALS ADDRESSED:**

The plan goals addressed by each action item are identified as a means for monitoring and evaluating how well the mitigation plan is achieving its goals, following implementation.

**TIMELINE:**

All broad scale action items have been determined to be ongoing, as opposed to short (1 to 4 years), medium (5-10 years), or long (10 or more years). This is because the action items are broad ideas, and although actions may be implemented to address the broad ideas, the efforts should be ongoing.

**POTENTIAL FUNDING SOURCE**

Where possible potential funding sources have been identified. Example funding sources may include: Federal Hazard Mitigation Assistance programs, state funding sources such as the Oregon Seismic Rehabilitation Grant Program, or local funding sources such as capital improvement or general funds. An action item may include several potential funding sources.

**ESTIMATED COST**

A rough estimate of the cost for implementing each action item is included. Costs are shown in general categories showing low, medium, or high cost. The estimated cost for each category is outlined below:

Low - Less than \$50,000

Medium - \$50,000 – \$100,000

High - More than \$100,000

**STATUS**

The 2020 status of each action item is indicated: new actions were developed in 2020, ongoing actions are those carried over from the previous plan, and deferred actions are those that are carried over from the previous plan but had limited or no activity.

<b>Mitigation Action: SRWD #1</b> (What do we want to do?)		<b>Alignment with Plan Goals:</b>				<b>High Priority Action Item?</b>
Strengthen local redundancy in municipal source water supply systems.		<input checked="" type="checkbox"/> 1	<input checked="" type="checkbox"/> 2	<input checked="" type="checkbox"/> 3	<input checked="" type="checkbox"/> 4	<input checked="" type="checkbox"/> Yes
		<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7	<input type="checkbox"/> 8	
		<input type="checkbox"/> 9	<input checked="" type="checkbox"/> 10	<input type="checkbox"/> 11		
<b>Alignment with Existing Plans/Policies:</b>						
Place based planning approved through the States Integrated Water Recourses Stratagem (IWRS) and the joint agency Mid-Coast integrated water resources planning effort currently in progress.						
<b>Rationale for Proposal (Why is this important?):</b>						
The Mid-Coast Water Planning Partnership is co-convened by the City of Newport and Oregon Water Resources Department. The Partnership is working collaboratively to develop an Integrated Water Resources Plan that will identify strategies to balance water uses with supply in the Mid-Coast region in a way that meets the current and future needs of coastal communities, the environment, and the economy. The Partnership includes representation of diverse water interests in the Mid-Coast region.						
<b>Ideas for Implementation (How will it get done?):</b>			<b>Action Status Report</b>			
Integrated Water Recourse Strategy (IWRS)			<u>2020 Update:</u> District serves a co-convenor of the mid coast water planning partnership. District assist in coordinating and planning various patronship meetings and filed tours. Placed based planning includes many interests and takes time to develop relationships			
<b>Champion/ Responsible Organization:</b>		SRWD Engineering, Operations, and Governing Body				
<b>Internal Partners:</b>			<b>External Partners:</b>			
			Mid-Coast Integrated Water Resources Place-Based Planning Group; Lincoln County; OWRD; MCWC; ODF&W; ODEQ; All Lincoln County Cities			
<b>Potential Funding Sources:</b>			<b>Estimated cost:</b>		<b>Timeline:</b>	
Seal Rock WD Capital Improvement Plan budget (Upon Board approval of fiscal year budget); Oregon Water Resources Department, Grants and partner funding			Low		<input type="checkbox"/> Ongoing <input type="checkbox"/> Short Term (1-4 years) <input type="checkbox"/> Medium Term (4-10 years) <input checked="" type="checkbox"/> Long-Term (10+ years)	
<b>Form Submitted by:</b>		Seal Rock WD Steering Committee, 2017 (revised 2020)				
<b>Action Item Status:</b>		Ongoing				



<b>Mitigation Action: SRWD #2</b> (What do we want to do?)		<b>Alignment with Plan Goals:</b>				<b>High Priority Action Item?</b>
Develop Preventative maintenance program for existing water and communication infrastructure.		<input checked="" type="checkbox"/> 1	<input checked="" type="checkbox"/> 2	<input checked="" type="checkbox"/> 3	<input checked="" type="checkbox"/> 4	<input type="checkbox"/> Yes
		<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7	<input type="checkbox"/> 8	
		<input type="checkbox"/> 9	<input checked="" type="checkbox"/> 10	<input type="checkbox"/> 11		
<b>Alignment with Existing Plans/Policies:</b>						
Water Master Plan, Vulnerability and Risk Assessment						
<b>Rationale for Proposal (Why is this important?):</b>						
Improving the District's existing supervisory controlled data and acquisition (SCADA) program is necessary to maintain reliable communication with the system.						
<b>Ideas for Implementation (How will it get done?):</b>			<b>Action Status Report</b>			
Monitor systems throughout the District Evaluate SCADA system to maintain communication			<u>2020 Update:</u> District filed operations staff complete systems evaluation in the field to determine if SCADA system is performing as expected			
<b>Champion/ Responsible Organization:</b>		SRWD Consultant Engineers				
<b>Internal Partners:</b>			<b>External Partners:</b>			
SRWD Operations and Supervisory Controlled Data Acquisition (SCADA); Jacobs Engineering (Corvallis Office)			Consultants and Engineer of Record (EOR)			
<b>Potential Funding Sources:</b>			<b>Estimated cost:</b>		<b>Timeline:</b>	
Seal Rock WD Capital Improvement Plan budget (Upon Board approval of fiscal year budget)			Medium		<input type="checkbox"/> Ongoing <input type="checkbox"/> Short Term (1-4 years) <input type="checkbox"/> Medium Term (4-10 years) <input checked="" type="checkbox"/> Long-Term (10+ years)	
<b>Form Submitted by:</b>		Seal Rock WD Steering Committee, 2017 (revised 2020)				
<b>Action Item Status:</b>		Ongoing				

<b>Mitigation Action: SRWD #3</b> (What do we want to do?)		<b>Alignment with Plan Goals:</b>				<b>High Priority Action Item?</b>
Develop redundant water supply connections with neighboring communities.		<input checked="" type="checkbox"/> 1	<input checked="" type="checkbox"/> 2	<input checked="" type="checkbox"/> 3	<input checked="" type="checkbox"/> 4	<input checked="" type="checkbox"/> Yes
		<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7	<input type="checkbox"/> 8	
		<input type="checkbox"/> 9	<input checked="" type="checkbox"/> 10	<input type="checkbox"/> 11		
<b>Alignment with Existing Plans/Policies:</b>						
Water Master Plan, Vulnerability and Risk Assessment						
<b>Rationale for Proposal (Why is this important?):</b>						
Redundant water supply systems provide emergency water supply to neighboring communities in the event of an emergency disruption in water supply.						
<b>Ideas for Implementation (How will it get done?):</b>			<b>Action Status Report</b>			
Develop redundant emergency source water connections with the City of Newport. (Est. cost \$1 million) Conceptual design for emergency source water connections with the City of Newport. (Est. cost \$3 million)			<u>2020 Update:</u> District staff and consultant engineers, ODOT representatives collaborated with the City of Waldport to completed preliminary engineering to connect the two water supply systems using the raceway through the Alsea Bridge.			
<b>Champion/ Responsible Organization:</b>		SRWD Operations, Consultant Engineers, Districts and Municipalities				
<b>Internal Partners:</b>			<b>External Partners:</b>			
			Mid-Coast Integrated Water Resources Place-Based Planning Group; Newport; Toledo; Waldport; Yachats, Lincoln County; SW Lincoln County Water PUD; OWRD; MCWC; ODF&W; ODEQ			
<b>Potential Funding Sources:</b>			<b>Estimated cost:</b>		<b>Timeline:</b>	
Seal Rock WD Capital Improvement Plan budget (Upon Board approval of fiscal year budget)			High		<input type="checkbox"/> Ongoing <input type="checkbox"/> Short Term (1-4 years) <input type="checkbox"/> Medium Term (4-10 years) <input checked="" type="checkbox"/> Long-Term (10+ years)	
<b>Form Submitted by:</b>		Seal Rock WD Steering Committee, 2017 (revised 2020)				
<b>Action Item Status:</b>		Ongoing				

<b>Mitigation Action: SRWD #4</b> (What do we want to do?)		<b>Alignment with Plan Goals:</b>				<b>High Priority Action Item?</b>
Evaluate the relocation of underground utility infrastructure in identified erosion hazard zones.		<input checked="" type="checkbox"/> 1	<input checked="" type="checkbox"/> 2	<input checked="" type="checkbox"/> 3	<input checked="" type="checkbox"/> 4	<input type="checkbox"/> Yes
		<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7	<input type="checkbox"/> 8	
		<input type="checkbox"/> 9	<input checked="" type="checkbox"/> 10	<input type="checkbox"/> 11		
<b>Alignment with Existing Plans/Policies:</b>						
Water Master Plan, Vulnerability and Risk Assessment						
<b>Rationale for Proposal (Why is this important?):</b>						
Monitor and evaluate infrastructure vulnerable to slides or settlement to protect and preserve the Distribution system and build resiliency to the water distribution system resulting in a more reliable water delivery system.						
<b>Ideas for Implementation (How will it get done?):</b>			<b>Action Status Report</b>			
Monitor systems throughout the District.			<u>2020 Update:</u> District filed operations staff complete systems evaluation in the field to determine if erosion or prone slides areas are at risk of affecting the Water Distribution system in remote areas.  In 2015 SRWD replaced a 300LF section of water distribution piping along South Bay Road due to slide movement in the roadway. New piping included the instillation of High-Density Polyethylene (HDPE) for added pipe flexibility in this area.			
<b>Champion/ Responsible Organization:</b>		SRWD Consultant Engineers				
<b>Internal Partners:</b>			<b>External Partners:</b>			
Jacobs Engineering (Corvallis Office)			Lincoln County Emergency Management, Public Works and GIS; Toledo			
<b>Potential Funding Sources:</b>			<b>Estimated cost:</b>		<b>Timeline:</b>	
Seal Rock WD Capital Improvement Plan budget (Upon Board approval of fiscal year budget); USDA-RD Rural Utility Assistance Program			Low		<input type="checkbox"/> Ongoing <input checked="" type="checkbox"/> Short Term (1-4 years) <input type="checkbox"/> Medium Term (4-10 years) <input type="checkbox"/> Long-Term (10+ years)	
<b>Form Submitted by:</b>		Seal Rock WD Steering Committee, 2017 (revised 2020)				
<b>Action Item Status:</b>		Ongoing				

Mitigation Action: SRWD #5 (What do we want to do?)		Alignment with Plan Goals:				High Priority Action Item?
Design underground and distribution systems with consideration of potential slides.		<input checked="" type="checkbox"/> 1	<input checked="" type="checkbox"/> 2	<input checked="" type="checkbox"/> 3	<input checked="" type="checkbox"/> 4	<input type="checkbox"/> Yes
		<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7	<input type="checkbox"/> 8	
		<input type="checkbox"/> 9	<input type="checkbox"/> 10	<input checked="" type="checkbox"/> 11		
<b>Alignment with Existing Plans/Policies:</b>						
Water Master Plan, Vulnerability and Risk Assessment, Beaver Creek Source Water Assessment Plan and Preliminary Engineering report						
<b>Rationale for Proposal (Why is this important?):</b>						
Monitor and evaluate infrastructure vulnerable to slides or settlement to protect and preserve the Distribution system and build resiliency to the water distribution system resulting in a more reliable water delivery system. Design new primary source water intake and treatment system.						
<b>Ideas for Implementation (How will it get done?):</b>			<b>Action Status Report</b>			
Pursue this action per Beaver Creek Source Water Assessment (Est. cost \$12.5 million)			<u>2020 Update:</u> Reconnaissance-Level Source Water Study (2015); Phase-4 Conceptual Design Report – Beaver Creek Water Supply (2016); Preliminary Engineering Report – Beaver Creek Water Supply (2017); Biological Assessment – Beaver Creek Water Supply (2018); NOAA BiOp (2019); Final design for the installation of a new intake and treatment facility is at 100% (2019). Source water project is in the construction phase. Completion date expected December 2021.			
<b>Champion/ Responsible Organization:</b>		SRWD Consultant Engineers				
<b>Internal Partners:</b>			<b>External Partners:</b>			
SRWD Distribution, Operations, and GIS; Jacobs Engineering (Corvallis Office)			Lincoln County Emergency Management, Public Works, and GIS			
<b>Potential Funding Sources:</b>			<b>Estimated cost:</b>		<b>Timeline:</b>	
Seal Rock WD Capital Improvement Plan budget (Upon Board approval of fiscal year budget); USDA-RD Rural Utility Assistance Program; Business Oregon-Safe Drinking Water Revolving Loan Fund Program			High		<input type="checkbox"/> Ongoing <input checked="" type="checkbox"/> Short Term (1-4 years) <input type="checkbox"/> Medium Term (4-10 years) <input type="checkbox"/> Long-Term (10+ years)	
<b>Form Submitted by:</b>		Seal Rock WD Steering Committee, 2017 (revised 2020)				
<b>Action Item Status:</b>		Ongoing				

<b>Mitigation Action: SRWD #6</b> (What do we want to do?)	<b>Alignment with Plan Goals:</b>	<b>High Priority Action Item?</b>
Construct the SRWD Beaver Creek primary source water project.	<input checked="" type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10 <input checked="" type="checkbox"/> 11	<input checked="" type="checkbox"/> Yes
<b>Alignment with Existing Plans/Policies:</b>		
Water Master Plan, Vulnerability and Risk Assessment, Beaver Creek Source Water Assessment Plan and Preliminary Engineering and Environmental reports		
<b>Rationale for Proposal (Why is this important?):</b>		
<p>Due to risks and vulnerabilities affecting the District's existing source water supply line, the District Board of Commissioners has authorized the development of a new primary source water supply system located within the District's service territory.</p> <p>The proposed Beaver Creek source water project and all facilities will be consistent with any current development plans of State, multi-jurisdictional areas, counties, or municipalities in which the project is to be located. The proposed facilities will also follow all State and county land use and floodplain laws, including the Oregon Coastal Management Plan.</p> <p>The District has completed an extensive archaeological survey of the project's area of potential effects (APE) based on the locations of the new river intake structure, pipe alignment(s), outfall, water treatment facility, reservoir and other critical infrastructure improvements. The State Historic Preservation Office (SHPO) has concurred that the proposed project will likely have no effect on any significant archeological objects or sites or historic properties. Wetland delineation has also been conducted within the APE to ensure compliance with the Department of State Lands (DSL) and the U.S. Army Corps of Engineers (USACE) regulations. A Joint Permit Application is in process for impacts to jurisdictional wetlands and waters.</p>		
<b>Ideas for Implementation (How will it get done?):</b>	<b>Action Status Report</b>	
Pursue this action per Beaver Creek Source Water Assessment (Est. cost \$12.5 million)	<u>2020 Update:</u> See SRWD #4 for supporting work.	
<b>Champion/ Responsible Organization:</b>	SRWD Engineering and District Operations	
<b>Internal Partners:</b>	<b>External Partners:</b>	
SRWD Distribution and GIS; Consultant Engineers; Jacobs Engineering (Corvallis Office)	Lincoln County Emergency Management; Oregon Water Resources Department (OWRD); Mid-Coast Watershed Council (MCWC); Lincoln Soil & Water Conservation District (LSWCD); Newport	
<b>Potential Funding Sources:</b>	<b>Estimated cost:</b>	<b>Timeline:</b>
Seal Rock WD Capital Improvement Plan budget (Upon Board approval of fiscal year budget); USDA-RD Rural Utility Assistance Program; Business Oregon-Safe Drinking Water Revolving Loan Fund Program	High	<input type="checkbox"/> Ongoing <input checked="" type="checkbox"/> Short Term (1-4 years) <input type="checkbox"/> Medium Term (4-10 years) <input type="checkbox"/> Long-Term (10+ years)
<b>Form Submitted by:</b>	Seal Rock WD Steering Committee, 2017 (revised 2020)	
<b>Action Item Status:</b>	Ongoing	

Mitigation Action: SRWD #7 (What do we want to do?)		Alignment with Plan Goals:				High Priority Action Item?
Construct Membrane Water Treatment Facility within the District's boundaries outside the tsunami inundation zone.		<input checked="" type="checkbox"/> 1	<input checked="" type="checkbox"/> 2	<input checked="" type="checkbox"/> 3	<input checked="" type="checkbox"/> 4	<input checked="" type="checkbox"/> Yes
		<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7	<input type="checkbox"/> 8	
		<input type="checkbox"/> 9	<input checked="" type="checkbox"/> 10	<input type="checkbox"/> 11		
<b>Alignment with Existing Plans/Policies:</b>						
Water Master Plan, Vulnerability and Risk Assessment						
<b>Rationale for Proposal (Why is this important?):</b>						
Improve infrastructure vulnerable to Tsunami to protect and preserve the Distribution system and build resiliency to the water treatment and distribution system resulting in a more reliable water delivery system.						
<b>Ideas for Implementation (How will it get done?):</b>			<b>Action Status Report</b>			
Develop water treatment facility to provide reliable source water to the District (Est. cost \$8.225 million; overall project cost \$12.5 million)			<u>2020 Update:</u> District staff continue working with consultants and permitting officials to secure necessary permits to complete improvements. Preliminary Engineering Report, Environmental Report and 100% Design Plans and contract documents are all completed as of June 30, 2019.			
<b>Champion/ Responsible Organization:</b>		SRWD Consultant Engineers				
<b>Internal Partners:</b>			<b>External Partners:</b>			
SRWD Distribution Engineers and GIS; Jacobs Engineering (Corvallis Office)			Lincoln County Emergency Management; Newport; Toledo; Waldport; Yachats; OWRD; MCWC			
<b>Potential Funding Sources:</b>			<b>Estimated cost:</b>		<b>Timeline:</b>	
Seal Rock WD Capital Improvement Plan budget (Upon Board approval of fiscal year budget); USDA-RD Rural Utility Assistance Program; Business Oregon-Safe Drinking Water Revolving Loan Fund Program			High		<input type="checkbox"/> Ongoing <input checked="" type="checkbox"/> Short Term (1-4 years) <input type="checkbox"/> Medium Term (4-10 years) <input type="checkbox"/> Long-Term (10+ years)	
<b>Form Submitted by:</b>		Seal Rock WD Steering Committee, 2017 (revised 2020)				
<b>Action Item Status:</b>		Ongoing				

<b>Mitigation Action: SRWD #8</b> (What do we want to do?)		<b>Alignment with Plan Goals:</b>				<b>High Priority Action Item?</b>
Construct a primary source water intake on Beaver Creek in Lincoln County.		<input checked="" type="checkbox"/> 1	<input checked="" type="checkbox"/> 2	<input checked="" type="checkbox"/> 3	<input checked="" type="checkbox"/> 4	<input checked="" type="checkbox"/> Yes
		<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7	<input type="checkbox"/> 8	
		<input type="checkbox"/> 9	<input checked="" type="checkbox"/> 10	<input type="checkbox"/> 11		
<b>Alignment with Existing Plans/Policies:</b>						
Water Master Plan, Vulnerability and Risk Assessment						
<b>Rationale for Proposal (Why is this important?):</b>						
Improve infrastructure vulnerable to Tsunami to protect and preserve the Distribution system and build resiliency to the water treatment and distribution system resulting in a more reliable water delivery system.						
<b>Ideas for Implementation (How will it get done?):</b>				<b>Action Status Report</b>		
Develop water intake facility on Beaver Creek to provide reliable source water to the District (Est. cost \$2 million; overall project cost \$12.5 million)				<u>2020 Update:</u> District staff continue working with consultants and permitting officials to secure necessary permits to complete improvements.  Preliminary Engineering Report, Environmental Report and 100% Design Plans and contract documents are all completed as of June 30, 2019.		
<b>Champion/ Responsible Organization:</b>		SRWD Consultant Engineers				
<b>Internal Partners:</b>			<b>External Partners:</b>			
SRWD Distribution Engineers and GIS; Jacobs Engineering (Corvallis Office)			Lincoln County Emergency Management; Newport; Toledo; Waldport; Yachats; OWRD; MCWC			
<b>Potential Funding Sources:</b>			<b>Estimated cost:</b>		<b>Timeline:</b>	
Seal Rock WD Capital Improvement Plan budget (Upon Board approval of fiscal year budget)			High		<input type="checkbox"/> Ongoing <input checked="" type="checkbox"/> Short Term (1-4 years) <input type="checkbox"/> Medium Term (4-10 years) <input type="checkbox"/> Long-Term (10+ years)	
<b>Form Submitted by:</b>		Seal Rock WD Steering Committee, 2017 (revised 2020)				
<b>Action Item Status:</b>		Ongoing				

Mitigation Action: SRWD #9 (What do we want to do?)		Alignment with Plan Goals:				High Priority Action Item?
Construct primary source water supply piping from Beaver Creek intake site 1.5-miles to proposed Water Treatment Facility on South Beaver Creek Road and Beaver Creek Road.		<input checked="" type="checkbox"/> 1	<input checked="" type="checkbox"/> 2	<input checked="" type="checkbox"/> 3	<input checked="" type="checkbox"/> 4	<input type="checkbox"/> Yes
		<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7	<input type="checkbox"/> 8	
		<input type="checkbox"/> 9	<input checked="" type="checkbox"/> 10	<input type="checkbox"/> 11		
<b>Alignment with Existing Plans/Policies:</b>						
Capital Improvement Plan, Water Master Plan, Vulnerability and Risk Assessment						
<b>Rationale for Proposal (Why is this important?):</b>						
Improve infrastructure vulnerable to Tsunami to protect and preserve the Distribution system and build resiliency to the water treatment and distribution system resulting in a more reliable water delivery system.						
<b>Ideas for Implementation (How will it get done?):</b>				<b>Action Status Report</b>		
Develop water intake facility on Beaver Creek to provide reliable source water to the District (Est. cost \$2.275 million; overall project cost \$12.5 million)				<u>2020 Update:</u> District staff continue working with consultants and permitting officials to secure necessary permits to complete improvements.  Preliminary Engineering Report, Environmental Report and 100% Design Plans and contract documents are all completed as of June 30, 2019.		
<b>Champion/ Responsible Organization:</b>		SRWD Consultant Engineers				
<b>Internal Partners:</b>			<b>External Partners:</b>			
SRWD Distribution, Consultant Engineers, and GIS			Lincoln County Emergency Management; OWRD; MCWC; Newport; Toledo; Waldport; Yachats			
<b>Potential Funding Sources:</b>			<b>Estimated cost:</b>		<b>Timeline:</b>	
Seal Rock WD Capital Improvement Plan budget (Upon Board approval of fiscal year budget)			High		<input type="checkbox"/> Ongoing <input checked="" type="checkbox"/> Short Term (1-4 years) <input type="checkbox"/> Medium Term (4-10 years) <input type="checkbox"/> Long-Term (10+ years)	
<b>Form Submitted by:</b>		Seal Rock WD Steering Committee, 2017 (revised 2020)				
<b>Action Item Status:</b>		Ongoing				



<b>Mitigation Action: SRWD #10</b> (What do we want to do?)		<b>Alignment with Plan Goals:</b>				<b>High Priority Action Item?</b>
Evaluate the relocation of underground utility infrastructure in identified tsunami hazard zones.		<input checked="" type="checkbox"/> 1	<input checked="" type="checkbox"/> 2	<input checked="" type="checkbox"/> 3	<input checked="" type="checkbox"/> 4	<input type="checkbox"/> Yes
		<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7	<input type="checkbox"/> 8	
		<input type="checkbox"/> 9	<input checked="" type="checkbox"/> 10	<input type="checkbox"/> 11		
<b>Alignment with Existing Plans/Policies:</b>						
Water Master Plan, Vulnerability and Risk Assessment						
<b>Rationale for Proposal (Why is this important?):</b>						
Monitor and evaluate infrastructure vulnerable to Tsunami to protect and preserve the Distribution system and build resiliency to the water distribution system resulting in a more reliable water delivery system.						
<b>Ideas for Implementation (How will it get done?):</b>				<b>Action Status Report</b>		
Monitor systems throughout the District.				<u>2020 Update:</u> District staff continue working with consultants and permitting officials to secure necessary permits to complete improvements. Preliminary Engineering Report, Environmental Report and 100% Design Plans and contract documents are all completed as of June 30, 2019.		
<b>Champion/ Responsible Organization:</b>		SRWD Consultant Engineers				
<b>Internal Partners:</b>			<b>External Partners:</b>			
Jacobs Engineering (Corvallis Office)			Lincoln County Emergency Management, Public Works and GIS; Toledo			
<b>Potential Funding Sources:</b>			<b>Estimated cost:</b>		<b>Timeline:</b>	
Seal Rock WD Capital Improvement Plan budget (Upon Board approval of fiscal year budget); USDA-RD Rural Utility Assistance Program			Low		<input type="checkbox"/> Ongoing <input type="checkbox"/> Short Term (1-4 years) <input checked="" type="checkbox"/> Medium Term (4-10 years) <input type="checkbox"/> Long-Term (10+ years)	
<b>Form Submitted by:</b>		Seal Rock WD Steering Committee, 2018-2019 (revised 2020)				
<b>Action Item Status:</b>		Ongoing				

## **ATTACHMENT B: PUBLIC INVOLVEMENT SUMMARY**

Members of the steering committee provided edits and updates to the NHMP prior to the public review period as reflected in the final document.

To provide the public information regarding the draft NHMP addendum, and provide an opportunity for comment, an announcement (see text below) was announced on the Water District's website and an email contact was provided for public comment.

During the public review period there were **no** comments provided.

**To be updated after public comment period.**

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# ATTACHMENT C: ACTION ITEM FORM TEMPLATE

Mitigation Action: SRWD # (What do we want to do?)		Alignment with Plan Goals:				High Priority Action Item?
		<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> Yes
		<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7	<input type="checkbox"/> 8	
		<input type="checkbox"/> 9	<input type="checkbox"/> 10	<input type="checkbox"/> 11		
Alignment with Existing Plans/Policies:						
Rationale for Proposal (Why is this important?):						
Ideas for Implementation (How will it get done?):			Action Status Report			
Champion/ Responsible Organization:						
Internal Partners:			External Partners:			
Potential Funding Sources:		Estimated cost:		Timeline:		
				<input type="checkbox"/> Ongoing <input type="checkbox"/> Short Term (1-4 years) <input type="checkbox"/> Medium Term (4-10 years) <input type="checkbox"/> Long-Term (10+ years)		
Form Submitted by:						
Action Item Status:						

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**Dana W. Jenkins**  
LINCOLN COUNTY CLERK  
225 W. Olive Street-Room 201  
Newport Oregon 97365

*County of Lincoln*  
"Customer Service is #1"  
[www.co.lincoln.or.us/clerk/](http://www.co.lincoln.or.us/clerk/)  
15411 265.4131

**DATE:** January 22, 2021  
**TO:** All Special Districts  
**FROM:** Dana Jenkins, Lincoln County Clerk  
**RE:** Director Election on May 18, 2021

The election for special district directors will be held on May 18, 2021. Please review the enclosed information regarding your directors, and make additions and corrections as necessary. Directors check-marked will be up for election according to our records. For any position where there is a vacancy or an appointment and the term will not expire until 2023, it must go on the 2021 ballot for a 2-year unexpired term.

**PLEASE RETURN THE FORM BY EMAIL BEFORE JANUARY 27, 2021. Please email to: [djenkins@co.lincoln.or.us](mailto:djenkins@co.lincoln.or.us) This is very important, especially if you have any changes or additions!**

*emailed to  
Dana Jenkins  
1/22/21*

Please return form to: [djenkins@co.lincoln.or.us](mailto:djenkins@co.lincoln.or.us)

The County Clerk will publish a Notice of Director Election for all districts on February 2 in the News Guard and February 3 in the News Times. Candidates file verified signatures or \$10.00 filing fee not later than 5:00pm March 18, 2021 with the Lincoln County Clerk.

Please complete Part II on the information form if applicable. If the form is not returned to this office by the specified time, the election officer shall prepare the notice for the district using the most current information available. When a person is appointed to fill a vacancy in a district office, please let me know as soon as you can.

I am also enclosing a candidate filing form (SEL 190). Feel free to make as many copies of the form as needed. You may also find this form and more information on our website at: <http://www.co.lincoln.or.us/clerk/>. Click on "May 18, 2021 Special Election Information".

If you have any questions, please do not hesitate to contact our office at 541.265.4131 or [djenkins@co.lincoln.or.us](mailto:djenkins@co.lincoln.or.us)

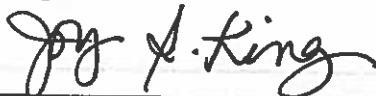
Thank you for all your help!

**SPECIAL DISTRICT DIRECTOR INFORMATION FORM**

**SEAL ROCK WATER DISTRICT**  
Attn: Joy King  
PO Box 190  
Seal Rock OR 97376

(District Name) District No: **059**  
(Contact) jking@srwd.org  
(Mail Address) Phone: 563-3529  
ed: Y vbm: Y dir: Y WATER

The information below is correct  
 Corrections should be made as indicated

Signature of Contact Person: 

**PART I**

Director Name	Pos	Elec or Appt	El Date	Term Exp	Length
✓ SAUNDRA K MIES-GRANTHAM	1	E	05/16/17	06/30/21	4 year
✓ DEANNA GRAVELLE **	2	E	05/16/17	06/30/21	4 year
✓ KAREN JACOBS OTTA	3	E	05/16/17	06/30/21	4 year
GLEN MORRIS	4	E	05/21/19	06/30/23	
ROB MILLS	5	E	05/21/19	06/30/23	

**PART II - Complete the following for appointed directors only.**

Name of Appointee	Name of Director Replaced	Date Replaced Director Elected	Length of Term

**Date of District Director Election: May 18, 2021**  
**This Form Must Be Returned By: January 27, 2021**

# Candidate Filing District

SEL 190

rev 01/21  
ORS 255 235

**i** This form must be filed with county elections official. All information must be completed or the form will be rejected.

## 2021 District Election Filing Dates

Candidate Filing February 6, 2021 to March 18, 2021

Withdrawal Date March 18, 2021

This filing is an

Original

Amendment

## Office Information

Filing for Office of:

District, Position or County:

## Filing Information

Filing with the required \$10.00 fee

Prospective Petition

## Candidate Information

### Name of Candidate

First	MI	Last	Suffix
-------	----	------	--------

## How you would like your name to appear on the ballot

## Candidate Residence/Route Address

Street Address	City	State	Zip
----------------	------	-------	-----

## Candidate Mailing Address and Contact Information: At least one phone number and email address is required.

Street Address or PO Box	City	State	Zip
--------------------------	------	-------	-----

Work Phone	Home Phone	Cell Phone	Fax
------------	------------	------------	-----

Email Address	Web Site, if applicable
---------------	-------------------------

## Race and Ethnicity *Optional*

## Occupation (present employment) If no relevant experience, None or NA must be entered.

## Occupational Background (previous employment) If no relevant experience, None or NA must be entered.



**Educational Background (schools attended) If no relevant experience, None or NA must be entered.**

Complete name of School (no acronyms)	Last Grade completed	Diploma/Degree/Certificate	Course of Study

Educational Background (other) Attach a separate sheet if necessary.

**Prior Governmental Experience (elected or appointed) If no relevant experience, None or NA must be entered.**

**Campaign Finance Information (not applicable to candidates for federal office)**

A candidate must file a Statement of Organization not later than three business days of first receiving a contribution or making an expenditure and no later than the deadline for filing a nominating petition, declaration of candidacy, or certificate of nomination, whichever occurs first, unless they meet the criteria for an exemption. To meet the criteria, the candidate must serve as their own treasurer, not have an existing candidate committee, and not expect to spend or receive more than \$750 during the entire calendar year (including in-kind contributions and personal funds).

If you have an existing candidate committee you must amend the statement of organization not later than 10 days after a change in information. This includes changes to the election you are active in and the office you are running for.

See the Campaign Finance Manual for the procedural and legal requirements of establishing and maintaining a candidate committee.

By signing this document, I hereby state that:

- I will qualify for said office if elected
- All information provided by me on this form is true to the best of my knowledge



**Warning**

Supplying false information on this form may result in conviction of a felony with a fine of up to \$125,000 and/or prison for up to 5 years. (ORS 260.715). A person may only file for one lucrative office at the same election. (ORS 249.013 and ORS 249.170)

Candidate's Signature

Date Signed