

**CARSON WATER SUBCONSERVANCY DISTRICT
BOARD OF DIRECTORS
AND CARSON RIVER WATERSHED COMMITTEE**

NOTICE OF PUBLIC MEETING

DATE: August 19, 2020

TIME: 6:30pm

LOCATION: Video Conference ZOOM Meeting

NOTICE TO PUBLIC: The State of Nevada and Carson City are currently in a declared State of Emergency in response to the global pandemic caused by the coronavirus (COVID-19) infectious disease outbreak.

In accordance with the Governor's Declaration of Emergency Directive 006, which has suspended the provisions of NRS 241.020 requiring the designation of a physical location for meetings of public bodies where members of the public are permitted to attend and participate, public meetings of Carson Water Subconservancy District will NOT have a physical location open to the public until such time this Directive is removed.

Members of the public who wish to participate during a public meeting may do so by providing public comment during the two designated public comment periods, indicated on the agenda, via telephone.

To join by telephone, you must call **(712)451-0750** and then enter **Access Code: 411219**. You may also provide public comment in advance of a meeting by written submission to the following email address: catrina@cwsd.org. For inclusion or reference in the minutes of a meeting, your public comment must include your full name and be submitted via e-mail by not later than 3pm the day before the date of the meeting.

AGENDA

Please Note: The Carson Water Subconservancy District (CWSD) Board may: 1) take agenda items out of order; 2) combine two or more items for consideration; and/or 3) remove an item from the agenda or delay discussion related to an item at any time. All votes will be conducted by CWSD Board of Directors. Reasonable efforts will be made to assist and accommodate individuals with disabilities who wish to attend the meeting. Please contact Catrina Schambra at (775)887-7450 (catrina@cwsd.org), at least two business days in advance so that arrangements can be made.

1. Call to Order the CWSD Board of Directors/Carson River Watershed Committee
2. Roll Call
3. Pledge of Allegiance
4. For Discussion Only: Public Comment - Action may not be taken on any matter brought up under public comment until scheduled on an agenda for action at a later meeting.
5. For Possible Action: Approval of Agenda
6. For Possible Action: Approval of the Board Meeting Minutes of July 15, 2020

CONSENT AGENDA

Please Note: All matters listed under the consent agenda are considered routine and may be acted upon by the Board of Directors with one action and without an extensive hearing. Any member of the Board or any citizen may request that an item be taken from the consent agenda, discussed, and acted upon separately during this meeting.

7. For Possible Action: Approval of Treasurer's Report for July 2020

8. For Possible Action: Approval of Payment of Bills for July 2020
9. For Possible Action: Approval for Debbie Neddenriep and Ed James to Attend the CA/NV Floodplain Manager Virtual Conference September 8-11
10. For Possible Action: Approval of the Addendum to Agreement Number 10148141 with HDR to increase the Pine Nut LOMR contract in the amount of \$9,000

****END OF CONSENT AGENDA****

11. For Discussion Only: A presentation by JE Fuller on the South Dayton Area Drainage Master Plan
12. For Possible Action: Approve changes to the 2020 CWSD Hazard Mitigation Plan
13. For Possible Action: Authorize CWSD Staff to pursue the Trail Rec Grant and 319 Grant
14. For Discussion Only: Update on the Carson River Watershed Workshop
15. For Discussion Only: Staff Reports - General Manager
 - Legal
 - Correspondence
16. For Discussion Only: Directors Reports
17. For Discussion Only: Update on activities in Alpine County
18. For Discussion Only: Update on activities in Storey County
19. For Discussion Only: Public Comment - Action may not be taken on any matter brought up under public comment until scheduled on an agenda for action at a later meeting.
20. For Possible Action: Adjournment

Supporting material for this meeting may be requested from Catrina Schambra at 775-887-7450 (catrina@cwsd.org) and is available on the CWSD website at www.cwsd.org.

In response to COVID-19 Emergency Directive:

Posting in public buildings in accordance with NRS 241.020 has been waived by COVID-19 Emergency Directive #6 of Governor Sisolak. Therefore, this notice and agenda of video conference meeting has been posted on or before 9am on August 11, 2020 on the following websites for the August 19, 2020 regular meeting of the Carson Water Subconservancy District and the Carson River Watershed Committee, in accordance with NRS 241.020:

Carson Water Subconservancy District Website:

<http://www.cwsd.org>

State of Nevada Public Meetings Website:

<http://notice.nv.gov>

AGENDA ITEM #6

**MINUTES OF LAST
BOARD MEETING**

CARSON WATER SUBCONSERVANCY DISTRICT
BOARD OF DIRECTORS AND
CARSON RIVER WATERSHED COMMITTEE MEETING
July 15, 2020

Draft Minutes

The CWSD July 15, 2020 Board of Directors meeting was held via Zoom Videoconference and teleconference due to Governor Sisolak's statewide Emergency Directive in response to the COVID-19 Pandemic.

Chairman Erquiaga called the meeting of the Carson Water Subconservancy District (CWSD) to order at 6:30 pm. Roll call of the CWSD Board was taken and a quorum was determined to be present.

CWSD Directors present:

Brad Bonkowski, Treasurer
Carl Erquiaga, Chairman
Stacey Giomi, Director
Ken Gray, Director
Jack Jacobs, Director
Barry Penzel, Director
Larry Walsh, Director
Mike Workman, Director

Absent Directors: Ernie Schank, Fred Stodieck, and Steve Thaler.

Roll call of the Caron River Watershed Committee was taken which included CWSD Directors and Committee Members Kathy Canfield and David Griffith. Committee Member Don Jardine was absent.

CWSD Staff present:

Brenda Hunt, Watershed Program Manager
Edwin James, General Manager
Debbie Neddenriep, Water Resource Specialist II
Catrina Schambra, Administrative Assistant/Secretary to the Board
Patrick King, CWSD Attorney

Others present:

John Sheridan, Gardnerville Ranchos GID

The Pledge of Allegiance was led by Chairman Erquiaga.

Item #4 – Discussion Only: Public Comment – None

Item #5 – For Possible Action: Approval of Agenda

Mr. James noted that there was an error on the agenda: Item #12 lists the title of the resolution to be adopted incorrectly, so this will be a discussion item only and it will be brought back for action on the August agenda. Director Penzel made a motion to approve the agenda with noted stipulation to Item #12. The motion was seconded by Committee Member Griffith and unanimously approved by the Board.

Item #6 – For Possible Action: Approval of the Board Meeting Minutes of June 17, 2020

Director Bonkowski made a motion to approve the Board Meeting Minutes of June 17, 2020 with a few typo corrections previously noted. The motion was seconded by Director Giomi and unanimously approved by the Board.

****CONSENT AGENDA****

Item #7 - For Possible Action: Approval of Treasurer's Report for June 2020

Item #8 - For Possible Action: Approval of Payment of Bills for June 2020

Item #9 - For Possible Action: Approval of Time Extension for the TCID Carson Diversion Dam Project – Contract #2019-9

Item #10 - For Possible Action: Approval of funding increase of the HDR Carson Valley Model Study in the amount of \$3,900

Item #11 - For Possible Action: Temporary Suspension of the General Manager's Car Allowance from July 15, 2020 through December 31, 2020

Director Bonkowski made a motion to approve Consent Agenda as presented. The motion was seconded by Director Giomi and unanimously approved by the Board.

****END OF CONSENT AGENDA****

Item #12 - For Discussion Only: Adopt Resolution #2020-1 to accept CWSD/Storey County Hazard Mitigation Plan

Debbie Neddenriep gave an overview of the topic. Currently CWSD is classified as a Cooperating Technical Partner (CTP) with FEMA. If CWSD is added as a "Jurisdiction" or "Annex" to a county, it would change CWSD's status and allow CWSD to be eligible to apply for bigger implementation grants. Storey County was in the process of updating their Hazard Mitigation Plan and were willing to have CWSD participate in their plan. CWSD staff worked with Storey County on the development of the Hazard Mitigation Report. Now that the report is completed CWSD needs to formally adopt the CWSD/Storey County Hazard Mitigation Plan.

Mr. James explained further that once CWSD is eligible to apply for implementation grants this will be an opportunity to work closely with counties in assisting them with obtaining grants using our expertise in the FEMA process.

In reviewing the document, the Board had lots of questions regarding the age of the information and the demographics used. It was also found to be confusing in that it only referred to CWSD's part of the plan but was not presented as such. The Board suggested certain changes and updates to be made before it was again presented at the August meeting.

No action taken.

Item #13 - For Discussion Only: Presentation Reviewing the 1998 Carson River Regional Water Management Plan

Mr. James gave a history of the report which was completed before he was hired, over 20 years ago. It was an update to a 1988 report and has not been updated since. The report only included Carson City, Douglas County and Lyon County and water supply was the focus. The goal at the time was to build a

dam on the Carson River. This report was a huge project that provided some very good information; however, some of the projections have changed significantly. He identified the areas that need updating and explained why it is so important to have more accurate projections based on current data.

Mr. James also reviewed the need to hold a workshop to discuss several water issues. He was hoping the state would take the lead on this project to update data, but they would like CWSD to pursue this instead.

Director Penzel wonders why we need this update now. Mr. James explained in 2014 CWSD had received a USBR grant to do a Basin Study for the Carson River. This Basin Study would be used to update the regional water plan. However, before this process could start CWSD became aware of this large Water for the Seasons Study that would provide information that would be useful to developing the Basin Plan. The Basin Plan was placed on hold until the Water for the Seasons Study was complete. Director Penzel thinks CWSD has a lot of supporting plans to help us project a more accurate picture, instead of hiring water market pros to do the work. He thinks we should use our own resources.

Director Jacobs commented that he thinks the water availability drives all the rest of growth, in all areas. Director Penzel agrees.

Director Bonkowski says Carson City has a very detailed water analysis. Water supply for Carson City should never be for more than 85,000 population. He feels the data is already out there and just needs to be consolidated into a useful comprehensive report. Mr. James agrees, but CWSD currently does not have the time and money to put the data together. Mr. James hopes that CWSD can get another Basin Study grant to put this plan together.

No action taken.

Item #14 – For Discussion Only: Staff Reports –

Mr. James reported on the following:

- The application for 319 Grant to continue the Watershed Coordination Program will be coming out around the end of August. Staff will be working on this application and will present it to the Board in the future. Brenda Hunt says it will probably be in September because of Covid-19 delays.
- Mr. James announced that he had been notified today that he was chosen as the 2020 Floodplain Manager of the Year Award recipient. He felt awkward announcing his own award and tried to say that it was recognition for the entire staff and CWSD, but the staff and Board members disagreed and gave much deserved kudos! The award will be presented at a virtual conference in September. Director Bonkowski asked that a press release go out to Carson Now.

Legal – None

Correspondence – None

No action was taken.

Item #15 – For Discussion Only: Directors Reports –

Director Bonkowski reported on the following:

- Carson City is currently in litigation with a Hemp Company regarding outdoor growing which is prohibited, like marijuana. Carson City owns the 90 acres of property being proposed for cultivation, but not the water rights. The city initially sent them a cease and desist order, and now they are in court. He just wanted to report this is happening so the Board is aware.

- Carson City Open Space has extended the trail system by 2.5 miles along the river. This completes an 8.5 miles long loop from Morgan Mill to Silver Springs Ranch and was grant funded.

No action was taken.

Item #16 – For Discussion Only: Update on activities in Alpine County –

Committee Member Griffith reported the following:

- Committee Member Griffith was sad to report that Committee Member Don Jardin has resigned from the Alpine County Board of Supervisors and therefore, CWSD. He was the longest serving Board Member in Alpine County – 34 years! Also, he was the longest Alpine Supervisor to serve on CWSD, almost 20 years! He will be missed. CWSD will plan to honor his years of service as soon as we can all get together to celebrate.

No action was taken.

Item #17 – For Discussion Only: Update on activities in Storey County – None

No action was taken.

Item #18 – For Discussion Only: Public Comment –

John Sheridan (Gardnerville Ranchos GID) said he understands that Mr. James will be making a presentation to Douglas County tomorrow and he would like Rocky Slough monitoring well to be added to his presentation. He also has concerns that the Alpine Decree has issues that affect Carson Valley at the expense to the aquifer that he would like addressed. Including the headwaters at Stateline. There was brief discussion. Mr. James confirmed that he was presenting to Carson City, Douglas County and Silver Springs tomorrow. He hopes to present to all water purveyors and counties over the next few months.

No action was taken.

There being no further business to come before the Board, Chairman Erquiaga adjourned the meeting at 7:42 pm.

Respectfully submitted,

Catrina Schambra

Secretary to the Board

AGENDA ITEM #7

TREASURER'S REPORT

Floodplain Management Fund
Balance Sheet
As of July 31, 2020

	Jul 31, 20
ASSETS	
Current Assets	
Checking/Savings	
1013-03 · LGIP - Floodplain	405,438.55
Total Checking/Savings	405,438.55
Total Current Assets	405,438.55
TOTAL ASSETS	405,438.55
LIABILITIES & EQUITY	
Equity	
32000 · Retained Earnings	405,127.18
Net Income	311.37
Total Equity	405,438.55
TOTAL LIABILITIES & EQUITY	405,438.55

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08/02/20

Cash Basis

Floodplain Management Fund

Profit & Loss Budget vs. Actual

July 2020

	Jul 20	Budget	\$ Over Budget	% of Budget
Ordinary Income/Expense				
Income				
5032-03 · Int. Inc.-LGIP-Floodplain	311.37	3,025.06	-2,713.69	10.3%
Total Income	311.37	3,025.06	-2,713.69	10.3%
Expense				
8009-01 · Reg. Flood Preliminary Planning	0.00	300,000.00	-300,000.00	0.0%
8009-02 · Flood Project Along SR88-Minden	0.00	40,000.00	-40,000.00	0.0%
8009-03 · CVCD- 2017 Flood Permit/Repairs	0.00	0.00	0.00	0.0%
8009-04 · DVCD -2017 Flood Permit/Repairs	0.00	0.00	0.00	0.0%
8009-06 · TCID Flood Project	0.00	35,000.00	-35,000.00	0.0%
Total Expense	0.00	375,000.00	-375,000.00	0.0%
Net Ordinary Income	311.37	-371,974.94	372,286.31	-0.1%
Other Income/Expense				
Other Income				
8000-03 · Beginning Equity	0.00	403,341.00	-403,341.00	0.0%
8001-03 · Trans. In- General Fund	0.00	0.00	0.00	0.0%
Total Other Income	0.00	403,341.00	-403,341.00	0.0%
Other Expense				
8002-03 · Trans.Out-General Fund	0.00	0.00	0.00	0.0%
Total Other Expense	0.00	0.00	0.00	0.0%
Net Other Income	0.00	403,341.00	-403,341.00	0.0%
Net Income	311.37	31,366.06	-31,054.69	1.0%

12:29 PM
08/02/20
Cash Basis

Floodplain Management Fund
Profit & Loss YTD Comparison
July 2020

	<u>Jul 20</u>	<u>Jul 20</u>
Ordinary Income/Expense		
Income		
5032-03 · Int. Inc.-LGIP-Floodplain	311.37	311.37
Total Income	<u>311.37</u>	<u>311.37</u>
Net Ordinary Income	<u>311.37</u>	<u>311.37</u>
Net Income	<u><u>311.37</u></u>	<u><u>311.37</u></u>

Balance Sheet

As of July 31, 2020

	Jul 31, 20
ASSETS	
Current Assets	
Checking/Savings	
1013-01 · Local Gov't Inv.Pool-Reserve	782,083.79
Total Checking/Savings	782,083.79
Total Current Assets	782,083.79
TOTAL ASSETS	782,083.79
LIABILITIES & EQUITY	
Equity	
4000-01 · Fund Balance - Capital Project	781,483.15
Net Income	600.64
Total Equity	782,083.79
TOTAL LIABILITIES & EQUITY	782,083.79

Profit & Loss Budget vs. Actual

July 2020

	Jul 20	Budget	\$ Over Budget	% of Budget
Ordinary Income/Expense				
Income				
5032-01 · Interest Income - LGIP Res.	600.64	5,723.24	-5,122.60	10.5%
Total Income	600.64	5,723.24	-5,122.60	10.5%
Expense				
8015-03 · Upstream Storage Evaluation		33,648.00	-33,648.00	
8015-04 · Construction Projects		715,000.00	-715,000.00	
8015-05 · Right-A-Way Lyon Cty Utility SS		125,000.00	-125,000.00	
Total Expense		873,648.00	-873,648.00	
Net Ordinary Income	600.64	-867,924.76	868,525.40	-0.1%
Other Income/Expense				
Other Income				
8000-01 · Beginning Equity		763,099.00	-763,099.00	
8001-01 · Transfer In-General Fund		145,000.00	-145,000.00	
Total Other Income		908,099.00	-908,099.00	
Net Other Income		908,099.00	-908,099.00	
Net Income	600.64	40,174.24	-39,573.60	1.5%

12:35 PM

CARSON WTR SUBCONSERVANCY DIST - ACQUISITION/CONSTRUCTION

08/02/20

Profit & Loss YTD Comparison

Cash Basis

July 2020

	<u>Jul 20</u>	<u>Jul 20</u>
Ordinary Income/Expense		
Income		
5032-01 · Interest Income - LGIP Res.	600.64	600.64
Total Income	<u>600.64</u>	<u>600.64</u>
Net Ordinary Income	<u>600.64</u>	<u>600.64</u>
Net Income	<u><u>600.64</u></u>	<u><u>600.64</u></u>

CARSON WATER SUBCONSERVANCY DISTRICT - GENERAL FUND
Balance Sheet
As of July 31, 2020

	Jul 31, 20
ASSETS	
Current Assets	
Checking/Savings	
1013-00 · Cash in Checking - U. S. Bank	9,216.66
1014-00 · Local Gov't Inv. Pool-Regular	652,364.92
1030-00 · Petty Cash	105.76
Total Checking/Savings	661,687.34
Other Current Assets	
1055-00 · Payroll Deposit - Carson City	500.00
Total Other Current Assets	500.00
Total Current Assets	662,187.34
TOTAL ASSETS	662,187.34
LIABILITIES & EQUITY	
Liabilities	
Current Liabilities	
Other Current Liabilities	
3360-00 · Accrued Vacation	25,758.30
3362-00 · Accrued sick leave	58,171.36
Total Other Current Liabilities	83,929.66
Total Current Liabilities	83,929.66
Total Liabilities	83,929.66
Equity	
4000-00 · Fund Balance	602,795.12
Net Income	-24,537.44
Total Equity	578,257.68
TOTAL LIABILITIES & EQUITY	662,187.34

CARSON WATER SUBCONSERVANCY DISTRICT - GENERAL FUND

08/08/20

Profit & Loss Budget vs. Actual

Cash Basis

July 2020

	Jul 20	Budget	\$ Over Budget	% of Budget
Ordinary Income/Expense				
Income				
5008-00 · Alpine Co. Joint Powers contrib		10,733.00	-10,733.00	
5009-00 · Churchill County Ad Valorem		218,984.88	-218,984.88	
5010-00 · Lyon County Ad Valorem		187,253.01	-187,253.01	
5011-00 · Douglas County Ad Valorem		606,308.49	-606,308.49	
5012-00 · Carson City Ad Valorem		439,622.53	-439,622.53	
5022-00 · Water Lease - Mud Lake		51,765.00	-51,765.00	
5031-00 · Interest Income-LGIP Reg.	620.05	4,821.36	-4,201.31	12.9%
5050-00 · Watershed Coordinator Grant				
5050-13 · NDEP-WS Coord IV 2019-2022		164,800.00	-164,800.00	
Total 5050-00 · Watershed Coordinator Grant		164,800.00	-164,800.00	
5058-00 · 208 Water Quality Plan				
5058-04 · NDEP-LID Implementation 2018-20		3,900.00	-3,900.00	
Total 5058-00 · 208 Water Quality Plan		3,900.00	-3,900.00	
5060-00 · Misc. Income	9.40	6,000.00	-5,990.60	0.2%
5082-00 · Alpine Co.-CASGEM Grant		400.00	-400.00	
5100-00 · NDEP -Drone Grant		18,165.00	-18,165.00	
6003-00 · FEMA-MAS #9		81,420.00	-81,420.00	
6004-00 · BOR WaterSMART Grant		53,078.00	-53,078.00	
6005-00 · FEMA - MAS # 10		319,590.00	-319,590.00	
Total Income	629.45	2,166,841.27	-2,166,211.82	0.0%
Expense				
7015-00 · Salaries & Wages	30,442.81	413,300.00	-382,857.19	7.4%
7020-00 · Employee Benefits	12,201.02	172,217.00	-160,015.98	7.1%
7021-00 · Workers Comp Ins.		2,300.00	-2,300.00	
7101-00 · Director's Fees				
7101-01 · Director Benefits	9.28	100.00	-90.72	9.3%
7101-02 · Director's Fees-Alpine Co.	80.00	2,800.00	-2,720.00	2.9%
7101-00 · Director's Fees - Other	640.00	13,100.00	-12,460.00	4.9%
Total 7101-00 · Director's Fees	729.28	16,000.00	-15,270.72	4.6%
7102-00 · Insurance	4,934.79	5,100.00	-165.21	96.8%
7103-00 · Office Supplies	-36.87	2,100.00	-2,136.87	-1.8%
7104-00 · Postage		1,050.00	-1,050.00	
7105-00 · Rent	3,146.00	37,752.00	-34,606.00	8.3%
7106-00 · Telephone/Internet	309.94	5,000.00	-4,690.06	6.2%
7107-00 · Travel-transport/meals/lodging				
7107-01 · Car Allowance	283.21		283.21	100.0%
7107-00 · Travel-transport/meals/lodging - Other		16,000.00	-16,000.00	
Total 7107-00 · Travel-transport/meals/lodging	283.21	16,000.00	-15,716.79	1.8%
7108-00 · Dues & Publications		1,100.00	-1,100.00	
7109-00 · Miscellaneous Expense		1,000.00	-1,000.00	
7110-00 · Seminars & Education		1,500.00	-1,500.00	
7111-00 · Office Equipment		3,000.00	-3,000.00	
7112-00 · Bank Charges		50.00	-50.00	
7114-00 · Outside Professional Services		30,000.00	-30,000.00	
7115-00 · Accounting		16,800.00	-16,800.00	
7116-00 · Legal		32,000.00	-32,000.00	
7117-00 · Lost Lakes Expenses		13,500.00	-13,500.00	
7118-00 · Mud Lake O & M		1,200.00	-1,200.00	
7120-00 · Integrated Watershed Programs				
7120-07 · Watershed Tour		6,000.00	-6,000.00	
7120-33 · Watershed Coord IV 2019-21				
7120-34 · WS Coord Grant MATCH 2019-21		9,900.00	-9,900.00	
7120-33 · Watershed Coord IV 2019-21 - Other	11.67	49,200.00	-49,188.33	0.0%

CARSON WATER SUBCONSERVANCY DISTRICT - GENERAL FUND

08/08/20

Profit & Loss Budget vs. Actual

Cash Basis

July 2020

	Jul 20	Budget	\$ Over Budget	% of Budget
Total 7120-33 · Watershed Coord IV 2019-21	11.67	59,100.00	-59,088.33	0.0%
Total 7120-00 · Integrated Watershed Programs	11.67	65,100.00	-65,088.33	0.0%
7126-00 · NDEP Drone Sub-Grant 2020	7.20	305.00	-297.80	2.4%
7215-00 · Sierra NV Journeys-Family Night				
7215-01 · SNJ 2020-21		3,279.00	-3,279.00	
Total 7215-00 · Sierra NV Journeys-Family Night		3,279.00	-3,279.00	
7332-00 · Carson River Work Days				
7332-06 · CR Work Days 2020-21		26,000.00	-26,000.00	
Total 7332-00 · Carson River Work Days		26,000.00	-26,000.00	
7337-00 · Carson River Restoration				
7337-01 · Carson Valley Conserv District				
7337-20 · CVCD Genoa Bank EXTENDED		70,000.00	-70,000.00	
7337-25 · CVCD - Bioengineering 2020-21		65,000.00	-65,000.00	
7337-26 · CVCD - Westwood Channel 2020-21		100,000.00	-100,000.00	
Total 7337-01 · Carson Valley Conserv District		235,000.00	-235,000.00	
7337-03 · Dayton Valley Conserv				
7337-31 · DVCD-Restoration Proj .EXTENDED		40,000.00	-40,000.00	
7337-36 · DVCD - Fort Churchill 2020-21		75,000.00	-75,000.00	
Total 7337-03 · Dayton Valley Conserv		115,000.00	-115,000.00	
7337-04 · Lahontan Conserv.Dist				
7337-43 · LCD- Clearing & Snagging 20-21		20,000.00	-20,000.00	
Total 7337-04 · Lahontan Conserv.Dist		20,000.00	-20,000.00	
Total 7337-00 · Carson River Restoration		370,000.00	-370,000.00	
7404-00 · Noxious Weeds Control-CR Wtrshd		75,000.00	-75,000.00	
7406-00 · 208 Water Quality Mgmt. Plan				
7406-03 · LID Implementation 2018-6/30/20	0.70		0.70	100.0%
7406-00 · 208 Water Quality Mgmt. Plan - Other		1,210.00	-1,210.00	
Total 7406-00 · 208 Water Quality Mgmt. Plan	0.70	1,210.00	-1,209.30	0.1%
7437-00 · FEMA MAS #9	7.25	66,824.00	-66,816.75	0.0%
7438-00 · BOR WaterSMART Market Program				
7438-01 · Water Mktg Study-LUMOS 2019-21		53,078.00	-53,078.00	
Total 7438-00 · BOR WaterSMART Market Program		53,078.00	-53,078.00	
7439-00 · FEMA MAS #10	11.32	297,642.00	-297,630.68	0.0%
7500-00 · USGS Stream Gage Contract		78,405.00	-78,405.00	
7508-00 · USGS Do.Co.WQ & GW Monitoring				
7508-03 · DoCo WQ/GW Mon. 2019-21		16,890.00	-16,890.00	
7508-04 · USGS Middle Carson GW 20-21		15,250.00	-15,250.00	
Total 7508-00 · USGS Do.Co.WQ & GW Monitoring		32,140.00	-32,140.00	
7524-00 · USGS-GW Lvl & WQ in Ch.Co.				
7524-02 · USGS-GW Lvl & WQ-ChCo 2018-22		5,680.00	-5,680.00	
Total 7524-00 · USGS-GW Lvl & WQ in Ch.Co.		5,680.00	-5,680.00	
7600-00 · Alpine County Projects				
7600-09 · Al.Co.-CASGEM		5.00	-5.00	
7600-10 · Al.Co.-Mesa GW Monitoring	2.37		2.37	100.0%
7600-12 · AWG Programs 202-21		25,000.00	-25,000.00	
Total 7600-00 · Alpine County Projects	2.37	25,005.00	-25,002.63	0.0%

CARSON WATER SUBCONSERVANCY DISTRICT - GENERAL FUND
Profit & Loss Budget vs. Actual
July 2020

	Jul 20	Budget	\$ Over Budget	% of Budget
7610-00 · Douglas County Projects				
7610-10 · Do.Co.Reg.Pipeline Debt Service		125,000.00	-125,000.00	
Total 7610-00 · Douglas County Projects		125,000.00	-125,000.00	
7620-00 · Carson City Projects				
7620-11 · CC Reg.Pipeline Debt Service		125,000.00	-125,000.00	
Total 7620-00 · Carson City Projects		125,000.00	-125,000.00	
7640-00 · Churchill County Projects				
7640-09 · Lahontan Vly.Wtr.Lvl. 2018-21	5.00	20,000.00	-19,995.00	0.0%
7640-18 · Dixie Vlt Wtr Lvl Meas 2019-22		21,000.00	-21,000.00	
7640-19 · TCID-Diversion Dam River Gates		15,000.00	-15,000.00	
Total 7640-00 · Churchill County Projects	5.00	56,000.00	-55,995.00	0.0%
Total Expense	52,055.69	2,176,637.00	-2,124,581.31	2.4%
Net Ordinary Income	-51,426.24	-9,795.73	-41,630.51	525.0%
Other Income/Expense				
Other Income				
8005-00 · Beginning Equity		642,848.30	-642,848.30	
Total Other Income		642,848.30	-642,848.30	
Other Expense				
8002-00 · Transfer Out-Acq/Const Fund		145,000.00	-145,000.00	
8008-00 · Preliminary Planning		385,000.00	-385,000.00	
Total Other Expense		530,000.00	-530,000.00	
Net Other Income		112,848.30	-112,848.30	
Net Income	-51,426.24	103,052.57	-154,478.81	-49.9%

CARSON WATER SUBCONSERVANCY DISTRICT - GENERAL FUND

08/09/20

Profit & Loss YTD Comparison

Cash Basis

July 2020

	Jul 20	Jul 20
Ordinary Income/Expense		
Income		
5009-00 · Churchill County Ad Valorem		
5010-00 · Lyon County Ad Valorem		
5011-00 · Douglas County Ad Valorem		
5012-00 · Carson City Ad Valorem		
5022-00 · Water Lease - Mud Lake		
5031-00 · Interest Income-LGIP Reg.	620.05	620.05
5060-00 · Misc. Income	9.40	9.40
6003-00 · FEMA-MAS #9		
6005-00 · FEMA - MAS # 10		
Total Income	629.45	629.45
Expense		
7015-00 · Salaries & Wages	30,442.81	30,442.81
7020-00 · Employee Benefits	12,201.02	12,201.02
7021-00 · Workers Comp Ins.		
7101-00 · Director's Fees		
7101-01 · Director Benefits	9.28	9.28
7101-02 · Director's Fees-Alpine Co.	80.00	80.00
7101-00 · Director's Fees - Other	640.00	640.00
Total 7101-00 · Director's Fees	729.28	729.28
7102-00 · Insurance	4,934.79	4,934.79
7103-00 · Office Supplies	-36.87	-36.87
7105-00 · Rent	3,146.00	3,146.00
7106-00 · Telephone/Internet	309.94	309.94
7107-00 · Travel-transport/meals/lodging		
7107-01 · Car Allowance	283.21	283.21
Total 7107-00 · Travel-transport/meals/lodging	283.21	283.21
7108-00 · Dues & Publications		
7111-00 · Office Equipment		
7114-00 · Outside Professional Services		
7116-00 · Legal		
7120-00 · Integrated Watershed Programs		
7120-33 · Watershed Coord IV 2019-21	11.67	11.67
Total 7120-00 · Integrated Watershed Programs	11.67	11.67
7126-00 · NDEP Drone Sub-Grant 2020	7.20	7.20
7215-00 · Sierra NV Journeys-Family Night		
7332-00 · Carson River Work Days		
7337-00 · Carson River Restoration		
7337-01 · Carson Valley Conserv District		
7337-20 · CVCD Genoa Bank EXTENDED		
Total 7337-01 · Carson Valley Conserv District		
Total 7337-00 · Carson River Restoration		
7406-00 · 208 Water Quality Mgmt. Plan		
7406-03 · LID Implementation 2018-6/30/20	0.70	0.70
Total 7406-00 · 208 Water Quality Mgmt. Plan	0.70	0.70
7437-00 · FEMA MAS #9		
7437-01 · South Dayton Valley ADMP(JEF)		
7437-02 · North CC ADMP (MB)		
7437-03 · Pinenut Cr. Restudy-Remap.(HDR)		
7437-04 · Flood Awareness 2019		

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Cash Basis

CARSON WATER SUBCONSERVANCY DISTRICT - GENERAL FUND**Profit & Loss YTD Comparison**

July 2020

	Jul 20	Jul 20
7437-00 · FEMA MAS #9 - Other	7.25	7.25
Total 7437-00 · FEMA MAS #9	7.25	7.25
7438-00 · BOR WaterSMART Market Program		
7438-01 · Water Mktg Study-LUMOS 2019-21		
Total 7438-00 · BOR WaterSMART Market Program		
7439-00 · FEMA MAS #10		
7439-01 · Carson Valley Flood Model (HDR)		
7439-02 · West CC Study (Kimley-Horn)		
7439-03 · RuhenStroth ADMP (Fuller)		
7439-04 · Ch Cty Flood Maps (Precision)		
7439-00 · FEMA MAS #10 - Other	11.32	11.32
Total 7439-00 · FEMA MAS #10	11.32	11.32
7500-00 · USGS Stream Gage Contract		
7500-03 · USGS Stream Flow Gauges 2019-21		
Total 7500-00 · USGS Stream Gage Contract		
7508-00 · USGS Do.Co.WQ & GW Monitoring		
7508-03 · DoCo WQ/GW Mon. 2019-21		
Total 7508-00 · USGS Do.Co.WQ & GW Monitoring		
7524-00 · USGS-GW Lvl & WQ in Ch.Co.		
7524-02 · USGS-GW Lvl & WQ-ChCo 2018-22		
Total 7524-00 · USGS-GW Lvl & WQ in Ch.Co.		
7526-00 · USGS-Eagle/Dayt/Ch.Vly. 2016-20		
7600-00 · Alpine County Projects		
7600-10 · Al.Co.-Mesa GW Monitoring	2.37	2.37
Total 7600-00 · Alpine County Projects	2.37	2.37
7640-00 · Churchill County Projects		
7640-09 · Lahontan Vly.Wtr.Lvl. 2018-21	5.00	5.00
7640-18 · Dixie Vlt Wtr Lvl Meas 2019-22		
Total 7640-00 · Churchill County Projects	5.00	5.00
Total Expense	52,055.69	52,055.69
Net Ordinary Income	-51,426.24	-51,426.24
Net Income	-51,426.24	-51,426.24

AGENDA ITEM #8

PAYMENT OF BILLS

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Cash Basis

CARSON WATER SUBCONSERVANCY DISTRICT - GENERAL FUND
Transaction Detail by Account
July 2020

Type	Date	Num	Name	Memo	Paid Amount	Balance
1013-00 · Cash in Checking - U. S. Bank						
Check	07/01/2020	10022	Euronev, Ltd.	July 2020 Rent	-3,146.00	-3,146.00
Check	07/04/2020	10023	Lumos & Assoc., Inc.	Inv#105076 Proj#9834	-4,004.75	-7,150.75
Check	07/04/2020	10024	Precision Water Resources Engineeri...	Inv#1965 ChCty Flood Map Project	-4,255.00	-11,405.75
Check	07/04/2020	10025	JE Fuller Hydrology & Geomorpholog...	Inv.#P3247.01-7 & P3121.01-18	-28,090.44	-39,496.19
Deposit	07/11/2020			Deposit	4,799.17	-34,697.02
Check	07/11/2020	ACH	Nevada Retail Network SIG	2nd Qtr Report -Workers Comp	-319.87	-35,016.89
Check	07/11/2020	10026	Konica Minolta Business Solutions U...	Acct#3091 6/1/20-6/30/20	-189.40	-35,206.29
Check	07/11/2020	10027	King & Russo, Ltd.	Professional Services June 2020	-2,000.00	-37,206.29
Check	07/11/2020	10028	Sierra Nevada Journeys	Family Watershed Nights 2019-20	-4,477.00	-41,683.29
Check	07/12/2020	10029	Carson City	CWSD Payroll #14	-20,806.19	-62,489.48
Check	07/12/2020	10030	Warren Reed Insurance, Inc.	FY 2020-21	-4,934.79	-67,424.27
Check	07/12/2020	10031	Nevada News Group	Acct#1060827	-133.20	-67,557.47
Check	07/12/2020	10032	Kimley-Horn & Associates, Inc.	Inv.#16885880 Project #291417000.1	-18,496.00	-86,053.47
Check	07/12/2020	10033	HDR Engineering, Inc.	Inv. #1200274635/#1200274548	-5,486.16	-91,539.63
Deposit	07/13/2020			Deposit	50,000.00	-41,539.63
Check	07/15/2020	10034	Michael Baker International, Inc.	Inv#170572NCC ADMP	-331.02	-41,870.65
Check	07/15/2020	10035	River Wranglers	INV#5 -FEMA 9 FAW-4/1/20-7/31/20	-285.18	-42,155.83
Deposit	07/18/2020			Deposit	5,967.33	-36,188.50
Check	07/18/2020	10036	David Griffith	July ALCo Director Fees	-80.00	-36,268.50
Check	07/18/2020	10037	Truckee Meadows Parks Foundation	Americorps Inv #154	-3,275.00	-39,543.50
Check	07/18/2020	10038	Robert Loveberg	Inv#P18030101-10 Apr-Jun 2020	-1,106.50	-40,650.00
Check	07/18/2020	10039	Carson Valley Conservation District	Genoa Inv #20	-3,685.50	-44,335.50
Check	07/18/2020	10040	River Wranglers	CCRWD #4	-17,214.64	-61,550.14
Deposit	07/20/2020			Deposit	64,265.66	-2,715.52
Deposit	07/25/2020			Deposit	58,279.12	60,994.64
Check	07/25/2020	10041	Carson City	CWSD Payroll #15	-22,770.13	38,224.51
Check	07/25/2020	10042	Churchill County	Apr-Jun 2020, Lahontan Vly. & Dixie Vly. Wtr. Lvl. ...	-7,965.23	30,259.28
Check	07/25/2020	10043	Office Depot Business Credit	Acct #6011 5685 11775 7761	-294.49	29,964.79
Check	07/25/2020	10044	Lumos & Assoc., Inc.	Inv#105354 Proj#9834	-418.50	29,546.29
Check	07/25/2020	10045	Charter Communications	Acct#8354110010917880	-309.94	29,236.35
Check	07/25/2020	ACH	U.S. Geological Survey	Inv#90825381 Qtrly Pymt JFA #19ZJJFA00127	-19,601.00	9,635.35
Check	07/25/2020	ACH	U.S. Geological Survey	Inv#90825379 Qtrly Pymt JFA #18WSNV00134	-1,465.00	8,170.35
Check	07/25/2020	ACH	U.S. Geological Survey	Inv#90825380 Qtrly Pymt JFA #19ZJJFA00128	-4,222.50	3,947.85
Check	07/25/2020	ACH	U.S. Geological Survey	Inv#90825378 Qtrly Pymt JFA #17WSNV00139	-3,174.00	773.85
Total 1013-00 · Cash in Checking - U. S. Bank					773.85	773.85
1014-00 · Local Gov't Inv. Pool-Regular						
Deposit	07/01/2020			Interest	620.05	620.05
Deposit	07/13/2020		LGIP	Transfer to General Fund	-50,000.00	-49,379.95
Total 1014-00 · Local Gov't Inv. Pool-Regular					-49,379.95	-49,379.95
3307-00 · CC Payroll Due						
General Jo...	07/12/2020			Payroll #14 (6/19/20-7/2/20)	-20,806.19	-20,806.19
Check	07/12/2020	10029	Carson City	Payroll #14 (6/19/20-7/2/20)	20,806.19	
General Jo...	07/25/2020			Payroll #15 (7/3/2020-7/16/2020)	-22,770.13	-22,770.13
Check	07/25/2020	10041	Carson City	Payroll #15 (7/3/2020-7/16/2020)	22,770.13	
Total 3307-00 · CC Payroll Due						
5009-00 · Churchill County Ad Valorem						
Deposit	07/25/2020	122675	Churchill County	4th Qtr Ad Valorem Taxes	-11,058.37	-11,058.37
Total 5009-00 · Churchill County Ad Valorem					-11,058.37	-11,058.37
5010-00 · Lyon County Ad Valorem						
Deposit	07/18/2020	00146...	Lyon County	FY 19-20 4th Quarter Ad Valorem Taxes	-3,531.60	-3,531.60
Total 5010-00 · Lyon County Ad Valorem					-3,531.60	-3,531.60
5011-00 · Douglas County Ad Valorem						
Deposit	07/18/2020	706861	Douglas County	June Ad Valorem Taxes	-2,435.73	-2,435.73
Total 5011-00 · Douglas County Ad Valorem					-2,435.73	-2,435.73
5012-00 · Carson City Ad Valorem						
Deposit	07/11/2020	90308...	Carson City	May Ad Valorem Taxes	-4,799.17	-4,799.17
Deposit	07/25/2020	90308...	Carson City	June Ad Valorem Taxes	-774.45	-5,573.62
Total 5012-00 · Carson City Ad Valorem					-5,573.62	-5,573.62
5022-00 · Water Lease - Mud Lake						
Deposit	07/25/2020	90308...	Carson City	Mud Lake Water Usage FY 19/20	-46,446.30	-46,446.30
Total 5022-00 · Water Lease - Mud Lake					-46,446.30	-46,446.30
5031-00 · Interest Income-LGIP Reg.						
Deposit	07/01/2020			Interest	-620.05	-620.05

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Cash Basis

CARSON WATER SUBCONSERVANCY DISTRICT - GENERAL FUND

Transaction Detail by Account

July 2020

Type	Date	Num	Name	Memo	Paid Amount	Balance
Total 5031-00 · Interest Income-LGIP Reg.					-620.05	-620.05
6003-00 · FEMA-MAS #9						
Deposit	07/20/2020	FEMA		Draw 17	-28,106.32	-28,106.32
Total 6003-00 · FEMA-MAS #9					-28,106.32	-28,106.32
6005-00 · FEMA - MAS # 10						
Deposit	07/20/2020	FEMA		Draw 8	-36,159.34	-36,159.34
Total 6005-00 · FEMA - MAS # 10					-36,159.34	-36,159.34
7015-00 · Salaries & Wages						
General Jo...	07/12/2020			Salary Payroll #14 Fryer	2,399.74	2,399.74
General Jo...	07/12/2020			Salary Payroll #14 Hunt	2,362.68	4,762.42
General Jo...	07/12/2020			Salary Payroll #14 James	5,555.14	10,317.56
General Jo...	07/12/2020			Salary Payroll #14 Neddenriep	1,930.38	12,247.94
General Jo...	07/12/2020			Salary Payroll #14 Schambra	2,330.04	14,577.98
General Jo...	07/25/2020			Salary Payroll #15 Fryer	2,868.04	17,446.02
General Jo...	07/25/2020			Salary Payroll #15 Hunt	2,618.54	20,064.56
General Jo...	07/25/2020			Salary Payroll #15 James	5,643.70	25,708.26
General Jo...	07/25/2020			Salary Payroll #15 Neddenriep	2,301.84	28,010.10
General Jo...	07/25/2020			Salary Payroll #15 Schambra	2,432.71	30,442.81
Total 7015-00 · Salaries & Wages					30,442.81	30,442.81
7020-00 · Employee Benefits						
General Jo...	07/12/2020			Benies Payroll #14 Fryer	378.46	378.46
General Jo...	07/12/2020			Benies Payroll #14 Hunt	1,269.52	1,647.98
General Jo...	07/12/2020			Benies Payroll #14 James	2,272.20	3,920.18
General Jo...	07/12/2020			Benies Payroll #14 Neddenriep	995.42	4,915.60
General Jo...	07/12/2020			Benies Payroll #14 Schambra	1,029.40	5,945.00
General Jo...	07/25/2020			Benies Payroll #15 Fryer	456.67	6,401.67
General Jo...	07/25/2020			Benies Payroll #15 Hunt	1,348.07	7,749.74
General Jo...	07/25/2020			Benies Payroll #15 James	2,295.28	10,045.02
General Jo...	07/25/2020			Benies Payroll #15 Neddenriep	1,109.45	11,154.47
General Jo...	07/25/2020			Benies Payroll #15 Schambra	1,046.55	12,201.02
Total 7020-00 · Employee Benefits					12,201.02	12,201.02
7021-00 · Workers Comp Ins.						
Check	07/11/2020	ACH	Nevada Retail Network SIG	1st Qtr Report	319.87	319.87
Total 7021-00 · Workers Comp Ins.					319.87	319.87
7101-00 · Director's Fees						
7101-01 · Director Benefits						
General Jo...	07/25/2020			Director Benies Payroll #15 Bonkowski	1.16	1.16
General Jo...	07/25/2020			Director Benies Payroll #15 Erquiaga	1.16	2.32
General Jo...	07/25/2020			Director Benies Payroll #15 Giomi	1.16	3.48
General Jo...	07/25/2020			Director Benies Payroll #15 Gray	1.16	4.64
General Jo...	07/25/2020			Director Benies Payroll #15 Jacobs	1.16	5.80
General Jo...	07/25/2020			Director Benies Payroll #15 Penzel	1.16	6.96
General Jo...	07/25/2020			Director Benies Payroll #15 Schank		6.96
General Jo...	07/25/2020			Director Benies Payroll #15 Stodieck		6.96
General Jo...	07/25/2020			Director Benies Payroll #15 Thaler		6.96
General Jo...	07/25/2020			Director Benies Payroll #15 Walsh	1.16	8.12
General Jo...	07/25/2020			Director Benies Payroll #15 Workman	1.16	9.28
Total 7101-01 · Director Benefits					9.28	9.28
7101-02 · Director's Fees-Alpine Co.						
Check	07/18/2020	10036	David Griffith	July Alpine Cty Director Fees	80.00	80.00
Total 7101-02 · Director's Fees-Alpine Co.					80.00	80.00
7101-00 · Director's Fees - Other						
General Jo...	07/25/2020			Director Fee Payroll #15 Bonkowski	80.00	80.00
General Jo...	07/25/2020			Director Fee Payroll #15 Erquiaga	80.00	160.00
General Jo...	07/25/2020			Director Fee Payroll #15 Giomi	80.00	240.00
General Jo...	07/25/2020			Director Fee Payroll #15 Gray	80.00	320.00
General Jo...	07/25/2020			Director Fee Payroll #15 Jacobs	80.00	400.00
General Jo...	07/25/2020			Director Fee Payroll #15 Penzel	80.00	480.00
General Jo...	07/25/2020			Director Fee Payroll #15 Schank		480.00
General Jo...	07/25/2020			Director Fee Payroll #15 Stodieck		480.00
General Jo...	07/25/2020			Director Fee Payroll #15 Thaler		480.00
General Jo...	07/25/2020			Director Fee Payroll #15 Walsh	80.00	560.00
General Jo...	07/25/2020			Director Fee Payroll #15 Workman	80.00	640.00
Total 7101-00 · Director's Fees - Other					640.00	640.00

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CARSON WATER SUBCONSERVANCY DISTRICT - GENERAL FUND
Transaction Detail by Account
July 2020

Type	Date	Num	Name	Memo	Paid Amount	Balance
Total 7101-00 · Director's Fees					729.28	729.28
7102-00 · Insurance						
Check	07/12/2020	10030	Warren Reed Insurance, Inc.	FY 2020-21 POOL Insurance Premium	4,934.79	4,934.79
Total 7102-00 · Insurance					4,934.79	4,934.79
7103-00 · Office Supplies						
Check	07/11/2020	10026	Konica Minolta Business Solutions U...	June Copies	189.40	189.40
Total 7103-00 · Office Supplies					189.40	189.40
7105-00 · Rent						
Check	07/01/2020	10022	Euronev, Ltd.	July 2020 Rent	3,146.00	3,146.00
Total 7105-00 · Rent					3,146.00	3,146.00
7106-00 · Telephone/Internet						
Check	07/25/2020	10045	Charter Communications	JULY Phone/Internet Svcs.	309.94	309.94
Total 7106-00 · Telephone/Internet					309.94	309.94
7107-00 · Travel-transport/meals/lodging						
7107-01 · Car Allowance						
General Jo...	07/12/2020			Car Allowance Payroll #14 James	283.21	283.21
General Jo...	07/25/2020			Car Allowance Payroll #15 James		283.21
Total 7107-01 · Car Allowance					283.21	283.21
Total 7107-00 · Travel-transport/meals/lodging					283.21	283.21
7108-00 · Dues & Publications						
Check	07/12/2020	10031	Nevada News Group	Publication/Nevada Appeal - Annual Fiscal Report	133.20	133.20
Total 7108-00 · Dues & Publications					133.20	133.20
7111-00 · Office Equipment						
Check	07/25/2020	10043	Office Depot Business Credit	Conference Phone	294.49	294.49
Total 7111-00 · Office Equipment					294.49	294.49
7114-00 · Outside Professional Services						
Check	07/18/2020	10037	Truckee Meadows Parks Foundation	Americorps 4th Qtr Payment - Inv #154	3,275.00	3,275.00
Total 7114-00 · Outside Professional Services					3,275.00	3,275.00
7116-00 · Legal						
Check	07/11/2020	10027	King & Russo, Ltd.	Professional Services June 2020	2,000.00	2,000.00
Total 7116-00 · Legal					2,000.00	2,000.00
7215-00 · Sierra NV Journeys-Family Night						
Check	07/11/2020	10028	Sierra Nevada Journeys	SJC Family WS Nights 2019-20	4,477.00	4,477.00
Total 7215-00 · Sierra NV Journeys-Family Night					4,477.00	4,477.00
7332-00 · Carson River Work Days						
Check	07/18/2020	10040	River Wranglers	INV#4 4/1/20-6/30/20	17,214.64	17,214.64
Total 7332-00 · Carson River Work Days					17,214.64	17,214.64
7337-00 · Carson River Restoration						
7337-01 · Carson Valley Conserv District						
7337-20 · CVCD Genoa Bank EXTENDED						
Check	07/18/2020	10039	Carson Valley Conservation District	Genoa Inv#20 2/1/20-6/30/20	3,685.50	3,685.50
Total 7337-20 · CVCD Genoa Bank EXTENDED					3,685.50	3,685.50
Total 7337-01 · Carson Valley Conserv District					3,685.50	3,685.50
Total 7337-00 · Carson River Restoration					3,685.50	3,685.50
7406-00 · 208 Water Quality Mgmt. Plan						
7406-03 · LID Implementation 2018-6/30/20						
Check	07/18/2020	10038	Robert Loveberg	Apr-Jun 2020 LID Implementation	1,106.50	1,106.50
Total 7406-03 · LID Implementation 2018-6/30/20					1,106.50	1,106.50
Total 7406-00 · 208 Water Quality Mgmt. Plan					1,106.50	1,106.50
7437-00 · FEMA MAS #9						
7437-01 · South Dayton Valley ADMP(JEF)						
Check	07/04/2020	10025	JE Fuller Hydrology & Geomorpholog...	South Dayton ADMP 6/1/20-6/30/20	20,786.44	20,786.44

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Cash Basis

CARSON WATER SUBCONSERVANCY DISTRICT - GENERAL FUND
Transaction Detail by Account
July 2020

Type	Date	Num	Name	Memo	Paid Amount	Balance
Total 7437-01 · South Dayton Valley ADMP(JEF)					20,786.44	20,786.44
7437-02 · North CC ADMP (MB)						
Check	07/15/2020	10034	Michael Baker International, Inc.	NCC ADMP thru 6/28/2020	331.02	331.02
Total 7437-02 · North CC ADMP (MB)					331.02	331.02
7437-03 · Pinenut Cr. Restudy-Remap.(HDR)						
Check	07/12/2020	10033	HDR Engineering, Inc.	Pinenut Creek 5/24/20-6/30/20	4,434.58	4,434.58
Total 7437-03 · Pinenut Cr. Restudy-Remap.(HDR)					4,434.58	4,434.58
7437-04 · Flood Awareness 2019						
7437-41 · River Wranglers-FAW						
Check	07/15/2020	10035	River Wranglers	INV#5 FAW -4/1/20-7/31/20	285.18	285.18
Total 7437-41 · River Wranglers-FAW					285.18	285.18
Total 7437-04 · Flood Awareness 2019					285.18	285.18
Total 7437-00 · FEMA MAS #9					25,837.22	25,837.22
7438-00 · BOR WaterSMART Market Program						
7438-01 · Water Mktg Study-LUMOS 2019-21						
7438-02 · BOR WaterSmart-LUMOS MATCH						
Check	07/25/2020	10044	Lumos & Assoc., Inc.	Professional Services 6/13/20-7/10/20	418.50	418.50
Total 7438-02 · BOR WaterSmart-LUMOS MATCH					418.50	418.50
7438-01 · Water Mktg Study-LUMOS 2019-21 - Other						
Check	07/04/2020	10023	Lumos & Assoc., Inc.	Professional Services 5/16/20-6/12/20	4,004.75	4,004.75
Total 7438-01 · Water Mktg Study-LUMOS 2019-21 - Other					4,004.75	4,004.75
Total 7438-01 · Water Mktg Study-LUMOS 2019-21					4,423.25	4,423.25
Total 7438-00 · BOR WaterSMART Market Program					4,423.25	4,423.25
7439-00 · FEMA MAS #10						
7439-01 · Carson Valley Flood Model (HDR)						
Check	07/12/2020	10033	HDR Engineering, Inc.	CV Model Response 5/24/20-6/30/20	1,051.58	1,051.58
Total 7439-01 · Carson Valley Flood Model (HDR)					1,051.58	1,051.58
7439-02 · West CC Study (Kimley-Horn)						
Check	07/12/2020	10032	Kimley-Horn & Associates, Inc.	FEMA 10-West CC ADP- Svcs thru June 30, 2020	18,496.00	18,496.00
Total 7439-02 · West CC Study (Kimley-Horn)					18,496.00	18,496.00
7439-03 · RuhenStroth ADMP (Fuller)						
Check	07/04/2020	10025	JE Fuller Hydrology & Geomorpholog...	Ruhenstroth ADMP 6/1/20-6/30/20	7,304.00	7,304.00
Total 7439-03 · RuhenStroth ADMP (Fuller)					7,304.00	7,304.00
7439-04 · Ch Cty Flood Maps (Precision)						
Check	07/04/2020	10024	Precision Water Resources Engineeri...	Ch Cty Flood Map Project (6/1/20-6/30/20)	4,255.00	4,255.00
Total 7439-04 · Ch Cty Flood Maps (Precision)					4,255.00	4,255.00
Total 7439-00 · FEMA MAS #10					31,106.58	31,106.58
7500-00 · USGS Stream Gage Contract						
7500-03 · USGS Stream Flow Gauges 2019-21						
Check	07/25/2020	ACH	U.S. Geological Survey	Qtrly Pymt JFA #19ZJJFA00127	19,601.00	19,601.00
Total 7500-03 · USGS Stream Flow Gauges 2019-21					19,601.00	19,601.00
Total 7500-00 · USGS Stream Gage Contract					19,601.00	19,601.00
7508-00 · USGS Do.Co.WQ & GW Monitoring						
7508-03 · DoCo WQ/GW Mon. 2019-21						
Check	07/25/2020	ACH	U.S. Geological Survey	Qtrly Pymt JFA #19ZJJFA00128	4,222.50	4,222.50
Total 7508-03 · DoCo WQ/GW Mon. 2019-21					4,222.50	4,222.50
Total 7508-00 · USGS Do.Co.WQ & GW Monitoring					4,222.50	4,222.50
7524-00 · USGS-GW Lvl & WQ in Ch.Co.						
7524-02 · USGS-GW Lvl & WQ-ChCo 2018-22						
Check	07/25/2020	ACH	U.S. Geological Survey	Qtrly Pymt JFA #18WSNV00134	1,465.00	1,465.00
Total 7524-02 · USGS-GW Lvl & WQ-ChCo 2018-22					1,465.00	1,465.00
7524-00 · USGS-GW Lvl & WQ in Ch.Co. - Other						

11:36 AM
08/02/20
Cash Basis

CARSON WATER SUBCONSERVANCY DISTRICT - GENERAL FUND
Transaction Detail by Account
July 2020

Type	Date	Num	Name	Memo	Paid Amount	Balance
Check	07/25/2020	ACH	U.S. Geological Survey	Qtrly Pymt JFA #17WSNV00139 (FINAL)	3,174.00	3,174.00
Total 7524-00 · USGS-GW Lvl & WQ in Ch.Co. - Other					3,174.00	3,174.00
Total 7524-00 · USGS-GW Lvl & WQ in Ch.Co.					4,639.00	4,639.00
7640-00 · Churchill County Projects						
7640-09 · Lahontan Vly.Wtr.Lvl. 2018-21						
Check	07/25/2020	10042	Churchill County	Apr-Jun 2020, Lahontan Vly. Wtr. Lvl. Meas.	3,825.00	3,825.00
Total 7640-09 · Lahontan Vly.Wtr.Lvl. 2018-21					3,825.00	3,825.00
7640-18 · Dixie Vlt Wtr Lvl Meas 2019-22						
Check	07/25/2020	10042	Churchill County	Apr-Jun 2020, Dixie Vly Wtr. Lvl. Meas.	4,140.23	4,140.23
Total 7640-18 · Dixie Vlt Wtr Lvl Meas 2019-22					4,140.23	4,140.23
Total 7640-00 · Churchill County Projects					7,965.23	7,965.23
TOTAL						

CWSD Petty Cash Transaction Record

February-July 2020

Date	G/L No.	Description	Debits	Credits	Balance
		1/30/2020 Petty Cash balance			\$100.00
		(Note: PC not replenished during COVID-19 Lockdown)			
3/3/20	7103-00	Debbie Neddenriep		\$0.05	\$100.05
	Office Supplies	Copies			
3/4/20	7103-00	Debbie Neddenriep		\$1.20	\$101.25
	Office Supplies	Copies			
3/7/20	7103-00	99 Cent Store -Brenda Hunt	\$2.14		\$99.11
	Office Supplies	cups			
3/9/20	7103-00	Dollar Tree - Catrina Schambra	\$12.85		\$86.26
	Office Supplies	bags			
4/11/20	7103-00	Catrina Schambra		\$0.10	\$86.36
	Office Supplies	Copies			
5/15/20	7103-00	PUBLIC		\$10.00	\$96.36
	Office Supplies	Watershed Maps			
7/31/20	5060-00	Misc. Income		\$9.40	\$105.76
	Misc. Income				

Date:

8/2/20

Prepared by:

C Schambra

Approved by:

Edwina James

:cat

AGENDA ITEM #9

CARSON WATER SUBCONSERVANCY DISTRICT

TO: BOARD OF DIRECTORS

FROM: EDWIN D. JAMES

DATE: August 19, 2020

SUBJECT: Agenda Item #9 – For Possible Action: Approval for Debbie Neddenriep and Ed James to Attend the CA/NV Floodplain Manager Virtual Conference September 8-11

DISCUSSION: The 2020 Annual Floodplain Management Association Virtual Conference will be held September 8-11. Ed James has been awarded the 2020 Floodplain Manager of the Year Award and will be recognized during the conference. Ed James and Debbie Neddenriep would like approval to attend. Registration is \$300 per person and CWSD will be reimbursed through MAS #10 grant with FEMA. Attached are their Conference Request Forms.

STAFF RECOMMENDATION: Approve attendance to 2020 Virtual FMA Conference for Ed James and Debbie Neddenriep.

CONFERENCE REQUEST

NAME: _____ Ed James and Debbie Neddenriep _____

DATE REQUESTED: _____ 8-19-20 _____

MODE OF TRAVEL: _____ N/A _____

DESTINATION: _____ N/A _____

PURPOSE: _____ Attend the Virtual FMA 2020 Annual Conference _____

**MEETING
DATES:** _____ September 8-11, 2020 _____

**ESTIMATED
COSTS:** _____ \$ 300 per person _____

APPROVED BY:

Chairman

Date

AGENDA ITEM #10

CARSON WATER SUBCONSERVANCY DISTRICT

TO: BOARD OF DIRECTORS

FROM: EDWIN D. JAMES

DATE: August 19, 2020

SUBJECT: Agenda Item #10 – For Possible Action: Approval of the Addendum to Agreement Number 10148141 with HDR to increase the Pine Nut LOMR contract in the amount of \$9,000.00

DISCUSSION: Attached is a letter from HDR requesting additional funds to complete the Pine Nut LOMR. The reason for the increase is due to new guidance from FEMA associated with two-dimensional (2D) modeling and deliverables. This increase in funding will come out of the FEMA grant from studies that came in under budget. Attached is addendum to Agreement Number 10148141.

STAFF RECOMMENDATION: Approve General Manager to sign Addendum to Agreement # 10148141.



**ADDENDUM TO AGREEMENT NUMBER 10148141
AGREEMENT BETWEEN
CARSON WATER SUBCONSERVANCY DISTRICT AND
HDR ENGINEERING, INC. FOR PROFESSIONAL SERVICES**

WHEREAS, on December 19, 2018, the CARSON WATER SUBCONSERVANCY DISTRICT (hereinafter referred to "CWSD") and HDR ENGINEERING INC. (hereinafter referred to as "HDR") entered into a Contractor Agreement (hereinafter "Agreement #10148141") addressing funding from CWSD to HDR for services in connection with the project known as Pine Nut Creek LOMR ("Pine Nut LOMR"); and

WHEREAS, CWSD has received funding from Federal Emergency Management Agency (FEMA) for Mapping Activity Statement (MAS) #9 to conduct several flood studies including the Pine Nut LOMR ; and

WHEREAS, CWSD has revised the budget for the Pine Nut LOMR study to provide HDR with additional funding of \$9,000.

NOW, THEREFORE IT IS AGREED:

1. An additional amount not to exceed \$9,000 will be provided to Agreement #10148141 with HDR.
2. All other terms of Agreement #10148141 shall remain in full force and effect.

IN WITNESS WHEREOF, the parties have executed this Addendum on the day and year written below.

DATE: _____

HDR ENGINEERING, INC.

Agent

DATE: _____

CARSON WATER
SUBCONSERVANCY DISTRICT

Edwin D. James, General Manager

Mitch Blum
HDR Engineering Inc.
August 6th, 2020

Ed James
Carson Water Subconservancy District
777 E. Williams St., Suite 110A
Carson City, NV 89701

Dear Mr. James:

This letter is a change order request for additional funding in the amount of \$9,000 for the Pine Nut Creek Letter of Map Revision. These additional funds shall be applied to the Floodplain Mapping and Flood Risk Products tasks. The rationale and cost for this additional funding is as follows:

FEMA is currently in the process of developing new guidance for two dimensional (2D) modeling and associated deliverables. HDR Staff have been integrally involved in this process and have been given draft guidance to follow for future submittals to FEMA.

In particular FEMA guidance for floodway modeling techniques, mapping, and submittal products have been refined 2D analyses. These revisions to floodway guidance has resulted in analyses and reporting effort above and beyond anticipated levels.

In addition to floodway analyses, guidance has been changed for water surface profile products included in the TSDN. The new guidance dictates a more complicated procedure to develop a contour based profile product.

In this changing FEMA 2D modeling landscape, these extra efforts will make the submittal and approval process more acceptable to FEMA.

Thank you for your consideration on this.

Sincerely,



Mitch Blum
HDR Engineering Inc.

AGENDA ITEM #11

CARSON WATER SUBCONSERVANCY DISTRICT

TO: BOARD OF DIRECTORS

FROM: EDWIN D. JAMES

DATE: August 19, 2020

SUBJECT: Agenda Item #11 – For Discussion Only: A presentation by JE Fuller on the South Dayton Area Drainage Master Plan

DISCUSSION: Attached is a presentation that Mike Kellogg with JE Fuller will give on the South Dayton Area Drainage Master Plan. This plan was presented to the public on July 29, 2020 and will be presented to the Lyon County Commissioners on August 20, 2020.

STAFF RECOMMENDATION: Receive and file.

South Dayton Valley Area Drainage Master Plan



CWSD Board Meeting
August 19, 2020 | 6:30pm

What is an Area Drainage Master Plan (ADMP)?

- Planning-level study of flood risk within a watershed
- Goals:
 - Develop a comprehensive understanding of the off-site existing condition flood risk
 - Develop alternative mitigation solutions

Project Funding

- FEMA Cooperative Technical Partner (CTP) grant
- Lyon County



FEMA

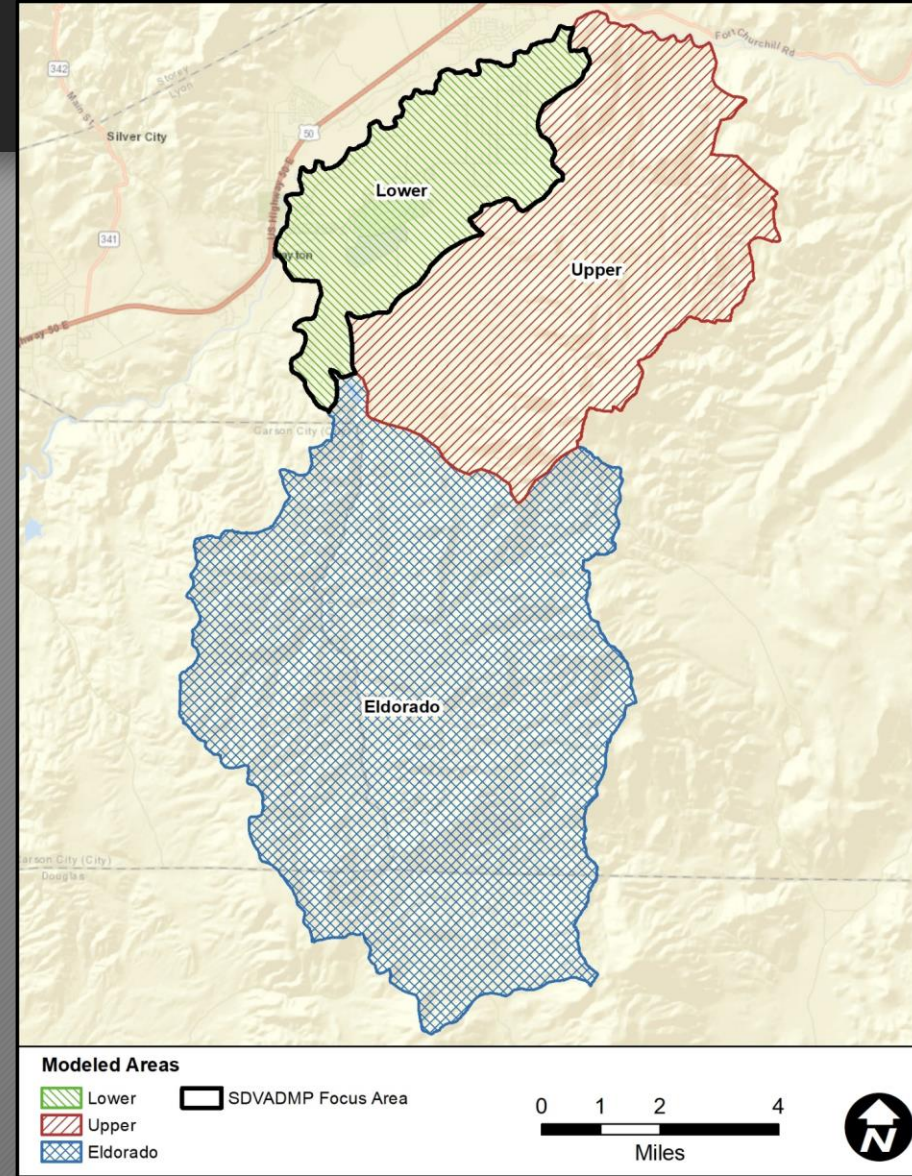


ADMP



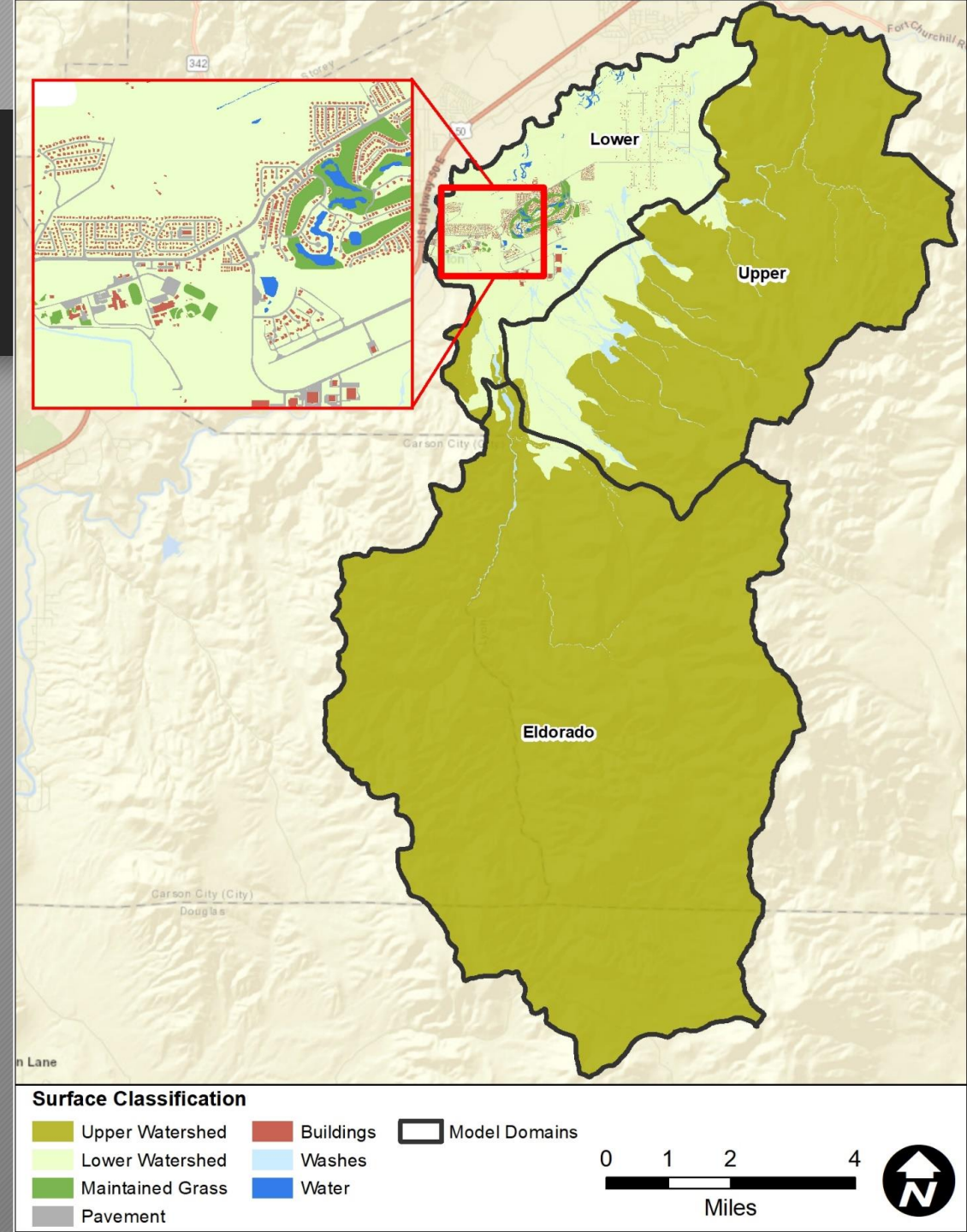
ADMP Major Project Elements

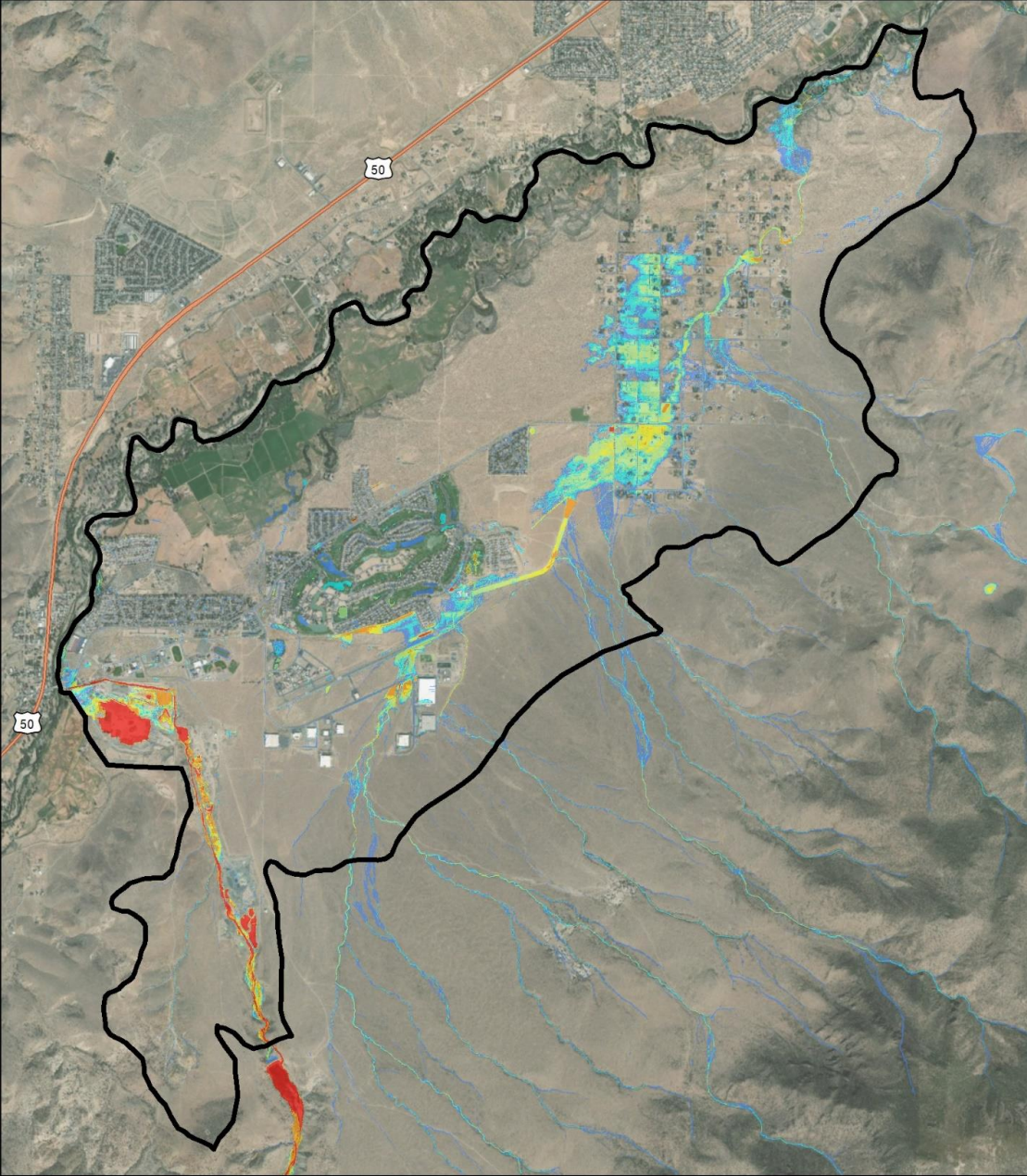
- Data Collection
- Topographic Mapping (USGS LiDAR)
- Watershed Assessment (landforms)
- Flood Risk Assessment
 - Hydrologic Modeling
 - Hydraulic (2D) Modeling
- Flood Risk Classification (people, buildings, roads)
- Sediment Engineering
- Economic Loss Estimates
- Regional Alternative



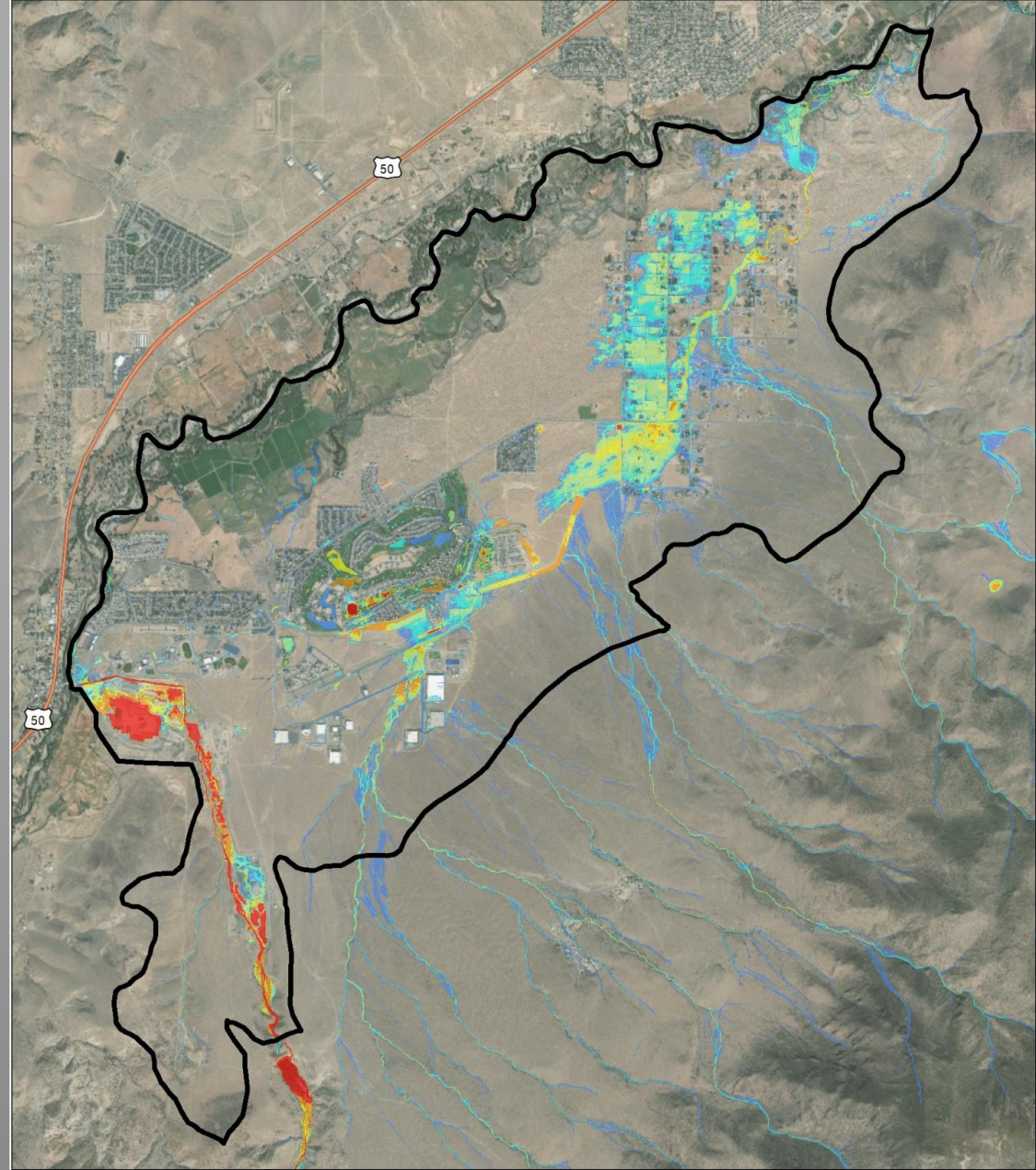
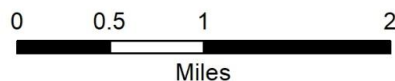
Flood Risk Assessment

- Hydrologic Modeling
 - New NDOT Method for Storm Shape
 - 25-year, 24-hour storm
 - County Design Standards
 - 100-year, 6-hour storm
 - 100-year, 24-hour storm
- Hydraulic Modeling (FLO-2D)
 - Three Separate Models





25-Year, 24-Hour Flow Depth (feet)

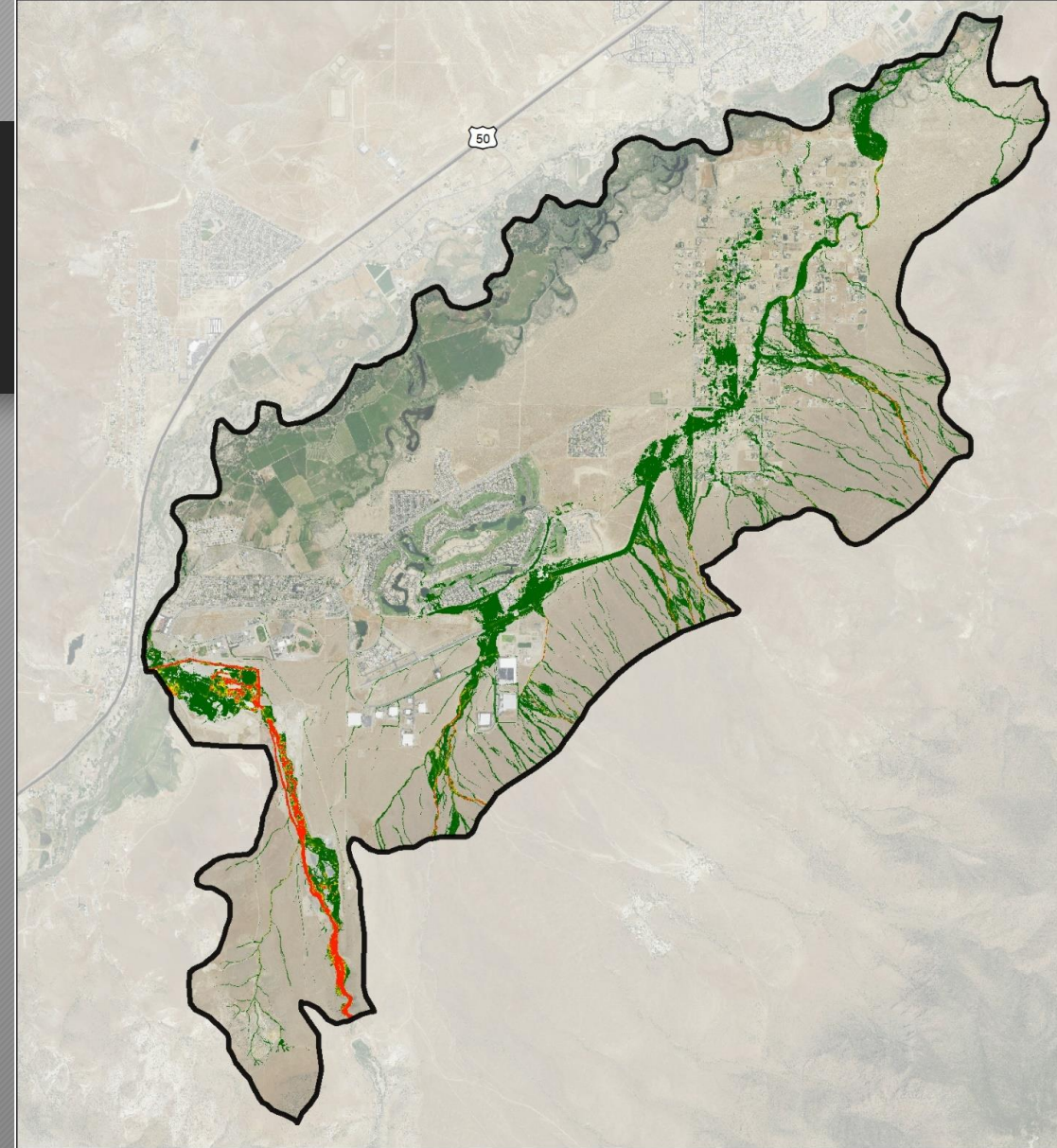


100-Year, 24-Hour Flow Depth (feet)



Flood Risk Assessment

- Sediment Engineering
 - Collected 12 samples
 - Identify watercourses with high sediment transport
 - Quantify sediment yield



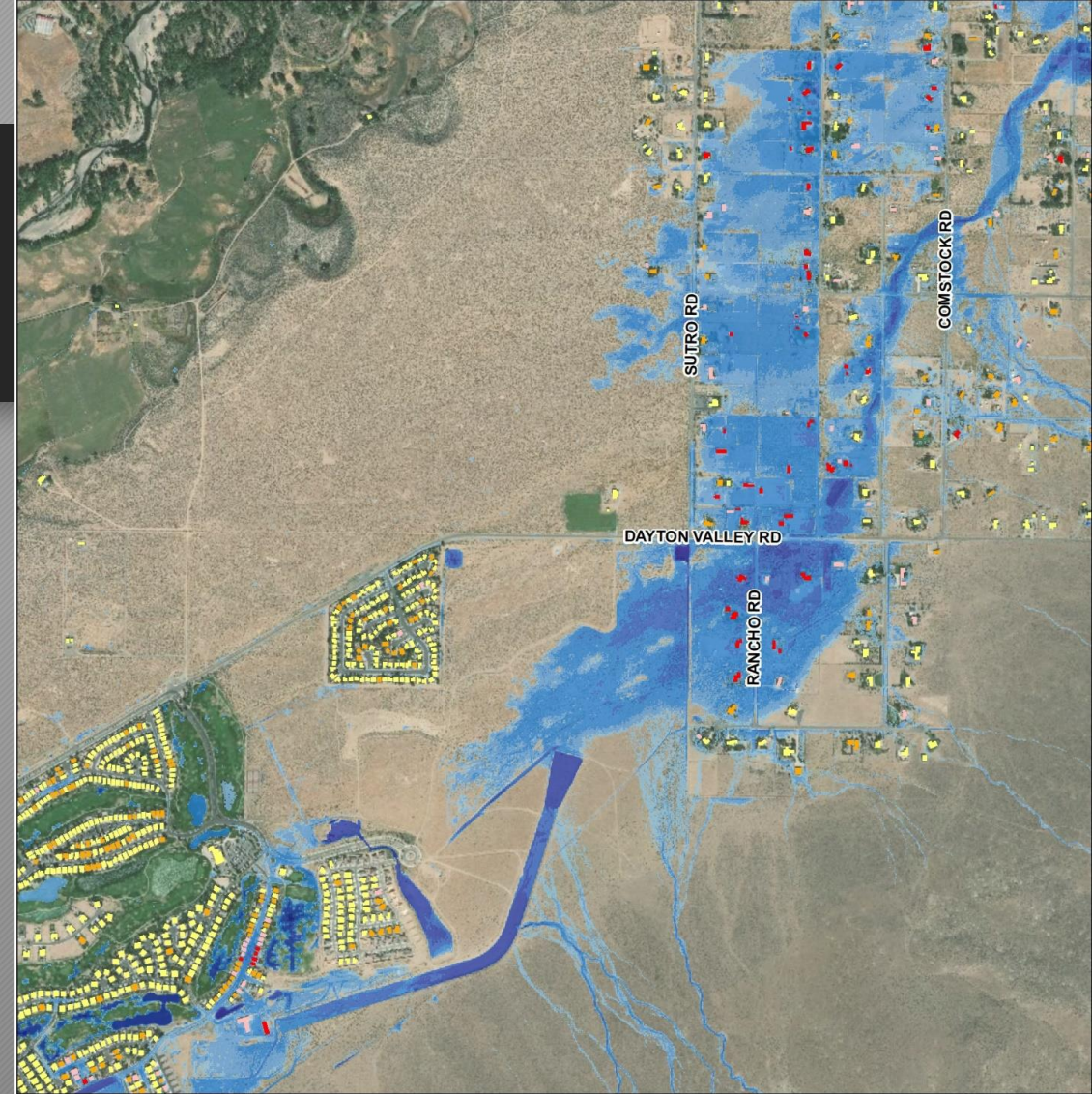
Relative Sediment Transport Capacity (100-year 24-hour)

Yang Sediment Transport  SDVADMP Focus Area



Flood Risk Classification

- Identify specific flood risk areas:
 - Pedestrians
 - Vehicles
 - Buildings



Building Inundation Hazard

- Very Low (Depth < 0.25 feet)
- Low (Depth 0.25 feet to 0.5 feet)
- Moderate (Depth 0.5 feet to 1 foot)
- High (Depth > 1 foot)

100-year 24-hour Max. Depth (ft)

- < 0.25
- 0.25 - 0.5
- 0.5 - 1
- 1 - 2
- 2 - 3
- 3 - 6
- > 6

0 1,000 2,000 4,000
Feet



Flood Risk Classification

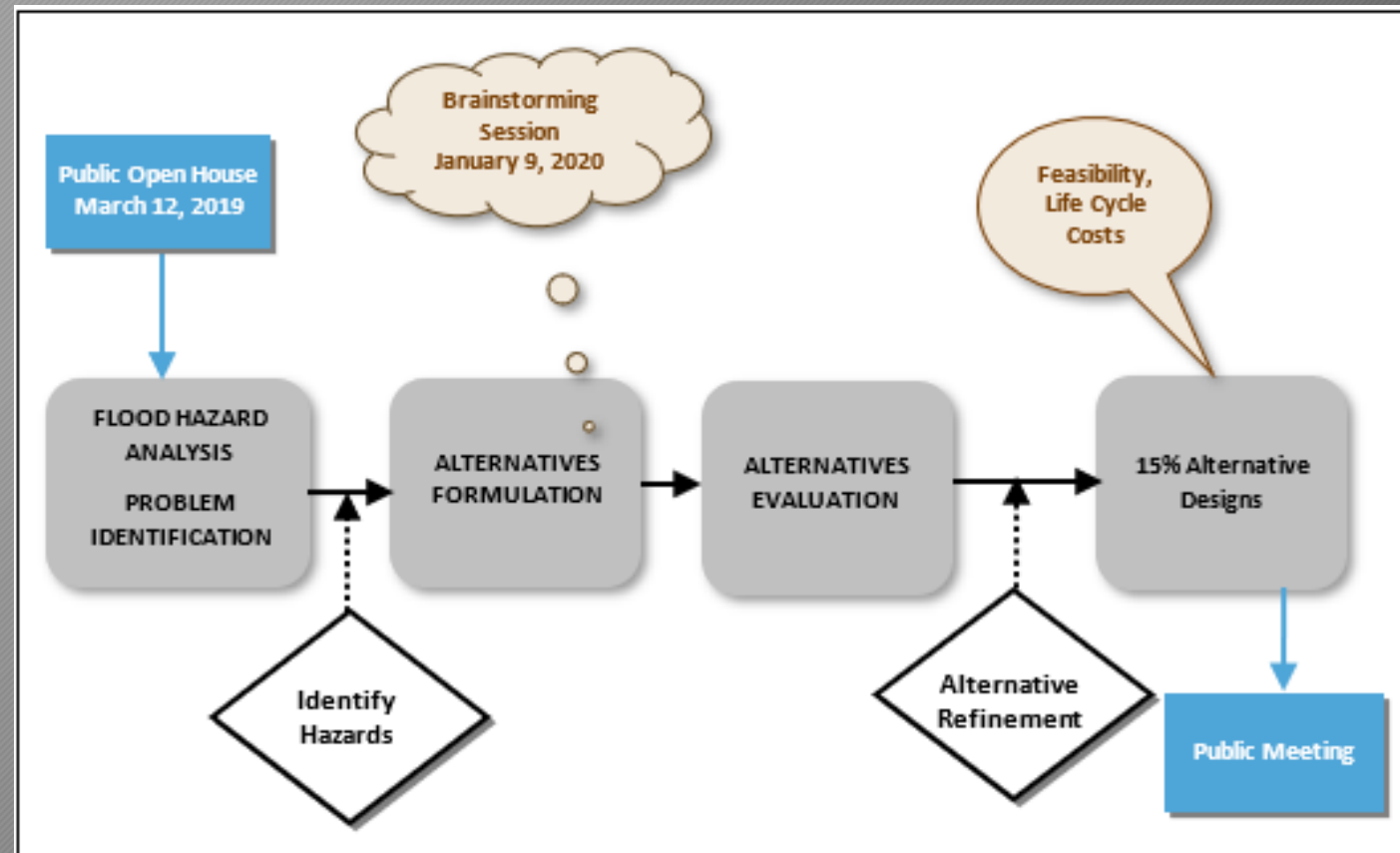
- HAZUS Analysis

- FEMA model used for estimating potential economic losses from natural disasters

Base Conditions					
Recurrence Interval	Direct Building Economic Loss				
	Residential	Commercial	Industrial	Others	Total Property ¹
	\$ millions	\$ millions	\$ millions	\$ millions	\$ millions
25Y24H	2.68	0.21	0.45	0.43	3.77
100Y24H	5.93	0.36	0.69	0.67	7.65
100Y6H	0.78	0.05	0.08	0.06	0.97
1. May not be additive due to rounding in internal HAZUS calculations					

Alternatives - Regional Mitigation Alternatives

- South Dayton Valley unique challenges
 - Minimal drainage infrastructure
 - Highly distributary flow
- Community-wide solutions





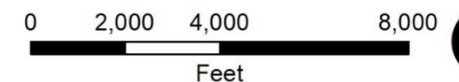
Three Mitigation Alternatives

- Detention/Sediment Basins
 - Collector Channels
 - Conveyance Channels
 - Upsized Culverts
 - New Culverts
- Provides a regional solution
 - The Lyon County Comprehensive Master Plan: South Dayton Bypass Road
 - The basins and channel are located primarily on public land
 - Minimize the number of private parcels

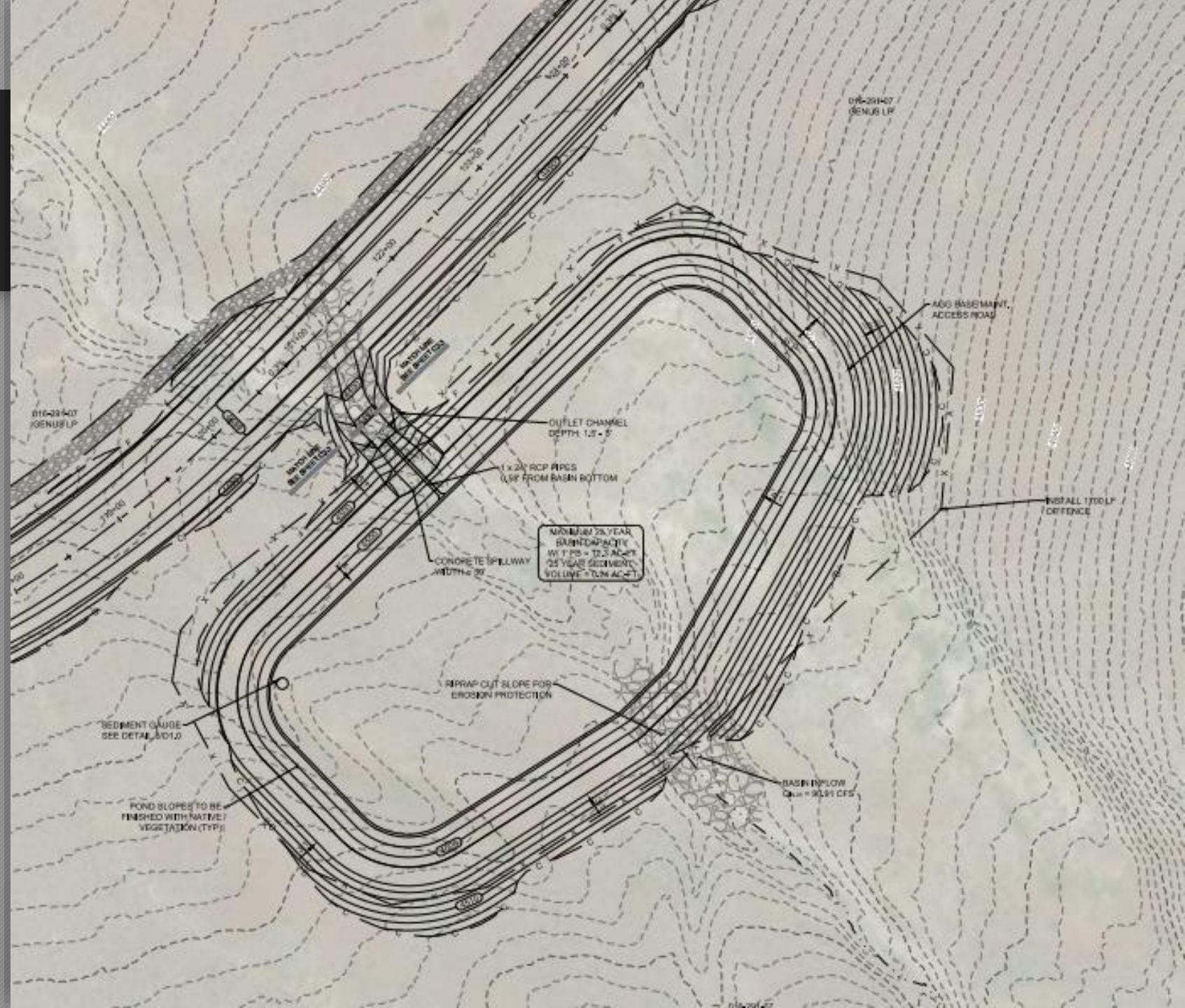


Selected Mitigation System

-  Collector/Conveyance Channel
-  Sediment/Detention Basin



Sediment / Detention Basin



Building Impacts

Recurrence Interval Storm	Proposed Conditions Building Counts				Existing Conditions Building Count ¹	Buildings Removed (Benefit)
	Building Count Flow Depth	Building Count Flow Depth	Building Count Flow Depth	Total Building Count		
	0.25' < h ≤ 0.5'	0.5'< h ≤ 1'	1' < h			
Proposed Conditions (25-year System)						
25Y24H	314	47	12	373	445	72
100Y24H	351	80	27	458	580	122
100Y6H	432	53	7	492	499	7
Proposed Conditions (100-year System)						
25Y24H	314	47	12	373	445	72
100Y24H	345	62	15	422	580	158
100Y6H	432	53	7	492	499	7

Flood Risk Area Reduction Benefit

Recurrence Interval Storm	Flood Risk Inundation Area	Total Benefit
	Acres	Acres Removed from Flood Risk (depth < 0.25 feet)
Base Conditions		
25Y24H	770	-
100Y24H	1,165	-
Proposed Conditions (25-year System)		
25Y24H	347	423
100Y24H	751	414
Proposed Conditions (100-year System)		
25Y24H	337	433
100Y24H	501	664

Project Phasing

Phase	Structure Elements	25-Year Structure Cost Estimate ²	100-Year Structure Cost Estimate ²
Phase 1	Conveyance Channel (5,200 LF ¹)	\$3,030,000	\$4,500,000
Phase 2	Conveyance Channel (4,500 LF)	\$2,600,000	\$3,800,000
Phase 3	Conveyance Channel (1,100 LF) Basin #6	\$700,000 \$2,400,000	\$970,000 \$2,800,000
Phase 4	Conveyance Channel (7,200 LF)	\$4,200,000	\$6,100,000
Phase 5	Conveyance Channel (2,300 LF) Basin #5 Basin #4	\$1,350,000 \$1,100,000 \$3,100,000	\$2,000,000 \$2,200,000 \$4,400,000
Phase 6	Conveyance Channel (3,700 LF)	\$2,200,000	\$3,200,000
Phase 7	Conveyance Channel (900 LF) Basin #3	\$515,000 \$2,000,000	\$760,000 \$3,200,000
Phase 8	Conveyance Channel (3,300 LF)	\$1,950,000	\$3,000,000
Phase 9	Conveyance Channel (2,500 LF) Basin #2 Basin #1	\$1,500,000 \$2,000,000 \$2,600,000	\$2,200,000 \$2,200,000 \$3,000,000

1. LF = linear feet (approximate)
2. Construction costs have been rounded for simplification. See Appendix B for a detailed breakdown of cost estimates.



Potential Mitigation Phasing

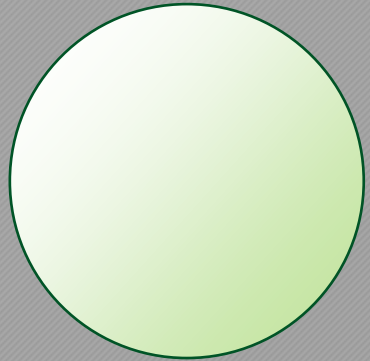


0 2,000 4,000 8,000

Feet



ADMP Provides a Range of Solutions



Development
Guidelines

Site-Specific
Solutions
(Ranchos)

Full Regional
Solution

Questions



Prepared by:



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Richard Waskowsky, PE
richard@jefuller.com



Ryan Spreeman, PE
rspreeman@lumosinc.com

AGENDA ITEM #12

CARSON WATER SUBCONSERVANCY DISTRICT

TO: BOARD OF DIRECTORS

FROM: EDWIN D. JAMES

DATE: August 19, 2020

SUBJECT: Agenda Item #12 – For Possible Action: Approve changes to the 2020 CWSD Hazard Mitigation Plan

DISCUSSION: At the July CWSD Board meeting, several Directors had comments regarding the CWSD Hazard Mitigation Plan (Plan). Attached is a revised draft copy of the Plan. Once the Board approves the changes to the Plan, CWSD will need to send it to FEMA for their approval. Once FEMA approves the Plan then CWSD will need to adopt the Plan by Resolution.

STAFF RECOMMENDATION: Provide comments or changes to the CWSD Hazard Mitigation Plan and authorize CWSD to send the Plan to FEMA.



Carson Water Subconservancy District

**Storey County Hazard Mitigation Plan
2020**

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List of Acronyms & Common Terms

CRC	Carson River Coalition
CRS	Community Rating System
CWSD	Carson Water Subconservancy District
CTP	Cooperating Technical Partner
FEMA	Federal Emergency Management Agency
NFIP	National Flood Insurance Program
FMP2018	Carson River Watershed Floodplain Management Plan
Stewardship Plan	Carson River Watershed Adaptive Stewardship Plan
Watershed	Carson River Watershed

1.1 CARSON WATER SUBCONSERVANCY DISTRICT

The Carson Water Subconservancy District (CWSD) is a unique multi-county, bi-state agency which crosses both agency and political boundaries between counties and other stakeholders. CWSD Board of Directors consists of eleven members with representatives from four counties within the watershed and includes several agricultural representatives. Additionally, two representatives from Alpine County and one representative from Storey County serve on the Carson River Watershed Committee.

CWSD's mission is to work within existing governmental frameworks to promote cooperative action in the Carson River Watershed which crosses both agency and political boundaries. CWSD acts as lead agency for integrated watershed planning and facilitates the Carson River Coalition (CRC). CWSD strives to involve all counties and communities within the watershed as it develops regional planning and management solutions for the Carson River Watershed. CWSD also works to ensure flood hazards within the region are recognized, prioritized, and addressed.

- CWSD has no regulatory authority.
- CWSD is funded by ad valorem taxes and federal, state, and local grants.
- CWSD is the designated Clean Water Act 208 Planning Agency.
- CWSD's Adaptive Stewardship Plan for the Carson River Watershed meets the funding requirements of EPA's clean water act, section 319.
- CWSD's is a Cooperating Technical Partner (CTP) with FEMA and signed a Charter Agreement with FEMA. As such, CWSD leverages its revenue with FEMA CTP funding.
- CWSD recently completed the 2018 Regional Floodplain Management Plan for the Carson River Watershed.

SECTION TWO

Carson Water Subconservancy District

Jurisdiction Information for Storey County Hazard Mitigation Plan

2.1 HISTORY, LOCATION, AND GEOGRAPHY

The Carson River Watershed (Watershed) is located east of the Sierra range in Nevada and California (Figure 1). The Watershed is surrounded by mountains ranging in elevation from 6,000 to 11,000 feet MSL and flows north and then east the Carson Sink. The area is seismically active with a complex series of faults spanning a large area of Western Nevada. The Genoa Fault Zone is one of the most active faults in the region (Ramelli, et al., 1999).

The watershed consists of 3,966 square miles, with 606 square miles located in California. The Carson River flows approximately 184 miles from its headwaters in Alpine County, California, to the terminus at the Carson Sink in Churchill County, Nevada. The upper watershed in the Sierra Nevada experiences long, very cold winters and short, moderate to warm summers. The upper elevations receive more than 40 inches of precipitation per year, usually as snowfall, decreasing to about four to eight inches in the arid to semi-arid valley floors. Habitats within the watershed range from dry, salt desert scrublands, and sagebrush steppes to lush mountain meadows, forest, and aspen groves. Watershed characteristics and history are comprehensively detailed in Section 3 of the Carson River Watershed Adaptive Stewardship Plan (CWSD 2017).¹

¹ <http://www.cwsd.org/carson-river-watershed-adaptive-stewardship-plan/>

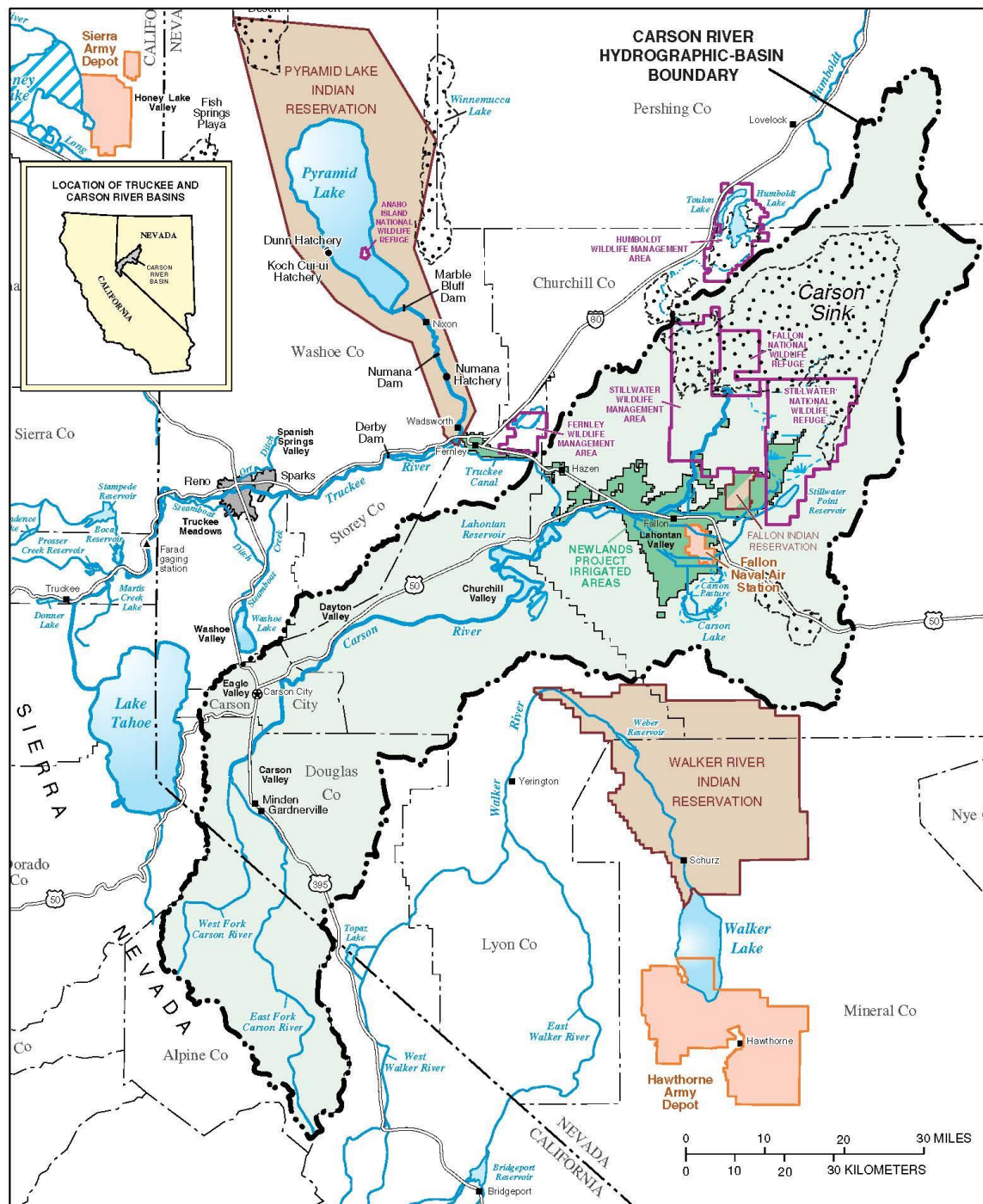


Figure1. USGS hydrologic features map of the Carson River watershed and surroundings.

2.2 DEMOGRAPHICS

Population centers in the watershed include the Minden/Gardnerville area in Douglas County, Carson City, Dayton and Silver Springs in Lyon County, Virginia City in Storey County, and Fallon in Churchill County. The physical setting of the watershed has somewhat influenced the occurrence and size of population centers. Localized urban and residential areas (often located along or near the river) are separated by larger areas of ranchlands, farmlands, or sagebrush. Table 2.1 lists each watershed county's entire population and indicates an increase over the last few decades, with Lyon and Douglas Counties experiencing the greatest population growth. Lyon County and Douglas County also provide the greatest opportunities for continued floodplain protection.

Table 2.1 Carson River Watershed Demographics		
County	2000	2019
Alpine County, California	1,113	1,071*
Carson City, Nevada	52,457	55,438
Churchill County, Nevada	23,982	25,387
Douglas County, Nevada	41,259	48,300
Lyon County, Nevada	34,501	54,657
Storey County, Nevada	3,399	4,084
* Alpine County 2015 data		
2000 & 2015 Alpine County Source: US Census Data (www.data.gov)		
2019 Source: Nevada Department of Taxation (https://tax.nv.gov/Publications/Population_Statistics_and_Reports/)		

3.1 HAZARD IDENTIFICATION

CSWD tabulated hazard rankings taking into account the historical occurrence of each respective hazard, the potential area of impact when the disaster does occur, and the magnitude. Please see Table 3-1 below for scoring criteria.

Table 3-1. Vulnerability Ratings Rubric

		Probability/ Frequency	Magnitude	Onset	Duration
Lowest	1	Highly unlikely (less than every 25 years)	No injuries or deaths expected, minimal property damage	Greater than 30 days of warning	Only brief moments
	2	Fairly unlikely (10-25 years)	Between 1 and 5 injuries or deaths, minor property damage	5-30 days of warning	1-24 hours
	3	Moderate (5-10 years)	Between 5 and 25 injuries or deaths, moderate property damage	1-5 days of warning	Days to weeks
	4	Likely (1-5 years)	Between 25 and 50 injuries or deaths, severe property damage	1-10 hours of warning	Weeks to months
Highest	5	Highly likely (once per year)	Greater than 50 injuries or deaths, catastrophic property damage	No warning	Months to years

In Table 3.2, CWSD addresses 5 hazards which pose a threat in the Carson River Watershed: alluvial fan flooding, riverine flooding, drought, severe weather, wildland fires, and hazardous materials events,. CWSD has a regional focus on hazards in the watershed.

Table 3-2. 2020 Carson Water Subconservancy District Hazard Rankings

	<i>Probability/ Frequency (1=lowest, 5=highest)</i>	<i>Magnitude (1=lowest, 5=highest)</i>	<i>Onset (1=slowest, 5=fastest)</i>	<i>Duration (1=shortest, 5=longest)</i>	<i>Average</i>	<i>Rank</i>
Alluvial Fan Flooding	3.00	5.00	4.00	2.00	3.50	1
Riverine Flooding	3.00	4.00	3.00	3.00	3.25	2
Drought	2.00	3.00	1.00	5.00	2.75	3
Severe Weather	2.00	2.00	3.00	2.00	2.25	4
Wildland Fire (Post Fire)	2.00	3.00	2.00	2.00	2.25	4
Hazardous Materials Event	1.00	1.00	5.00	2.00	2.25	4

3.2 PLANNING FOR RISK AND VULNERABILITY

CWSD is a regional watershed planning agency which provides technical, financial, and outreach to Alpine County, California; Carson City, Churchill County, Douglas County, Lyon County, and Storey County Nevada. CWSD is a cooperating technical partner (CTP) with FEMA.

3.3 VULNERABILITY ASSESSMENT

In the past, CWSD has participated in various counties' hazard mitigation planning processes. Although each county may have a slight difference in the hazards mitigation scoring, CWSD focuses on flooding, drought, and stormwater hazards.

3.3.1 Identifying Critical Infrastructure

Being a regional watershed planning agency CWSD does not own or operate any facilities or infrastructure.

3.3.2 Data Limitations

Carson Water Subconservancy District is a regional watershed planning agency. As such, CWSD collects, compiles, and analyzes data from State and Federal Agencies regarding floods, droughts, severe weather, earthquakes, wildland fires, and hazardous materials events.

3.3.3 Repetitive Loss Properties

The repetitive loss properties recorded in the Carson River Watershed are listed in Table 3.4.

Table 3.4. Repetitive Losses in Carson River Watershed	
JURISDICTION	REPETITIVE LOSS PROPERTIES:
Alpine County	The only repetitive loss property is in Bear Valley, which is not in the Carson River Watershed.
Carson City	3 repetitive loss properties
Churchill County	1 repetitive loss property
Lyon County	0 repetitive loss properties
Douglas County	Within Douglas County, there are 2 repetitive loss properties in Genoa, 2 repetitive loss properties in Gardnerville, and 5 repetitive loss properties in Minden.
Storey County	0 repetitive loss properties
Source:	Carson River Watershed Floodplain Management Plan 2018

3.3.4 Exposure Assessment

Since 1998, CWSD has been collecting and studying various hazards in the Carson River Watershed. CWSD has various studies and data available on cwsd.org. Examples include the Carson River Watershed Adaptive Stewardship Plan (2017) and the Carson River Watershed Floodplain Management Plan (2018).

3.4 HAZARD PROFILES AND VULNERABILITY ASSESSMENTS

3.4.1 Alluvial Fan Flooding

Planning Significance: High

As a cooperative agency, CWSD works with counties to address ways to reduce flood risks in the watershed. On June 6, 2005, CWSD became a Cooperating Technical Partner (CTP) with FEMA. Alluvial fan flooding is defined in the 2018 Carson River Watershed Floodplain Management Plan is “flooding [aka flash flooding] results from intense rainfall during summer thunderstorms on alluvial fan surfaces (gently sloping, fan-shaped landforms common just below mountain canyons). Flash flooding is characterized by high-velocity flows, sediment and bedload transport, erosion and deposition, and unpredictable flow paths.” CWSD has coordinated several alluvial fan drainage studies in the Carson River Watershed. These studies have focused on reducing flood risks in communities with significant risk from flash flooding.

3.4.2 Riverine Flooding

Planning Significance: High

As a cooperative agency, CWSD works with counties to address ways to reduce flood risks in the watershed. On June 6, 2005, CWSD became a Cooperating Technical Partner (CTP) with FEMA. Riverine (or main channel) flooding occurs in valley bottoms during large winter storms, when prolonged heavy rain falls on mountain snowpacks. Since then CWSD has coordinated several flood studies in the Carson River Watershed. These studies have focused on reducing flood risks.

3.4.2 Drought

Planning Significance: High

As a cooperative agency, CWSD works with counties and various water purveyors in the Watershed to ensure adequate water supplies during droughts. CWSD provides regions water supply studies and provides funding assistance to intertie the various water purveyors together to provide water redundancy.

3.4.3 Severe Weather

Planning Significance: Moderate

As a cooperative agency, CWSD works with counties to address severe weather. CWSD has conducted several studies evaluating stormwater impacts to various communities in the Watershed. These studies identify storm hazards and propose various projects to reduce these hazards.

3.4.4 Wildland Fire (Post Fire)

As a cooperative agency, CWSD works with counties to address increased flood hazards due to impacts caused by wildfires.

3.4.5 Hazardous Materials Events

As a cooperative agency, CWSD works with counties to address Hazardous Materials Events as they relate to impacts to surface and groundwater supplies.

4.1 LEGAL AND REGULATORY CAPABILITIES

CWSD does not have any legal or regulatory capability but provides technical and financial support to the various communities in the Carson River Watershed.

Table 4.1 is a list of various hazard mitigation support that CWSD provides in the watershed:

Master Plan	If asked, CWSD provides technical assistance, review and / or comment
Zoning Ordinance	If asked, CWSD provides technical assistance, review and / or comment
Subdivision Ordinance	If asked, CWSD provides technical assistance, review and / or comment
Growth management related to water supply	If asked, CWSD provides technical assistance, review and / or comment
Floodplain ordinance	Funded through FEMA, CWSD provides technical assistance and support city/county ordinance update.
Other special purpose ordinance (stormwater, steep slope, wildfire)	With Section 208 funding provided by NDEP, CWSD is providing technical assistance and support for city/county to review Low Impact Development Ordinances.
Stormwater management program	Provides information on ways to reduce storm water through the use of low impact development reports
Reduce flood risk	Provide funding and technical support to reduce flood risks
Water Supply	Provide funding and technical support to enhance water reliability

4.2 ADMINISTRATIVE AND TECHNICAL CAPABILITIES

The administrative and technical capability of the CWSD provides an identification of the staff resources available to expedite the actions identified in the Mitigation Strategy.

Table 4-2: Administrative and Technical Capability

Staff/Personnel Resources	Position
Planner/Engineer with knowledge of land development/land management practices	Licensed Engineer
Engineer/ Professional trained in construction practices related to buildings and/or infrastructure	Licensed Engineer
Planner/engineer/scientist with an understanding of natural hazards	Watershed Program Manager
Personnel skilled in GIS	Watershed Program Specialist
Floodplain Manager	Water Resources Specialist 2, CFM

4.3 FINANCIAL CAPABILITIES

Specific financial and budgetary tools available to CWSD for hazard mitigation include ad valorem taxes from watershed counties.

Table 4-3: Fiscal Capability

Financial Resources	Accessible or Eligible to Use (Yes/No/Don't Know)
Community Development Block Grants (CDBG)	No
Capital improvements project funding	No
Authority to levy taxes for specific purposes	CWSD has authority to levy \$.03 per \$100 from assessed valuation of properties located in the Nevada portion of the Watershed.
Fees for water, sewer, gas, or electric service	No
Insurance	No
Impact fees for homebuyers or developers for new developments/homes	No
Incur debt through general obligation bonds	No
Incur debt through special tax and revenue bonds	No
Incur debt through private activity bonds	No
Withhold spending in hazard-prone areas	No
Fire Department, Plan Review fees	No
Ambulance fees	No
Business license and events fees	No
Assistance available through mutual aid agreements/Quad County resources	No

Table 4-4: CWSD Mitigation Capability

Applicable Programs, Plans, Policies, Regulations, Funding, or Practices	Point of Contact	Strengths	Key Mitigation Accomplishments
Water Law, Flood & Drought Policy, Engineering	Edwin D. James	Understanding of State and Federal Water Law, Legislative Process, Funding Mechanisms to leverage local money to achieve Regional Watershed Management goals	Through FEMA Cooperating Technical Partner grants, assist counties in data collection for flood and mitigation studies & expand community engagement and flood awareness. Procured USBR grant to create Water Marketing Strategy to reduce conflict and ensure water sustainability
Watershed Program Management	Brenda Hunt	Coordinates integrated watershed management process and facilitates Carson River Coalition Stakeholder group.	Through Watershed Literacy Campaign, help residents understand they live in a watershed and how open floodplain lands are the best defense against flooding.
Watershed Program Specialist	Shane Fryer	Manages and monitors weed grants to reduce wildland fires; assists counties in monitoring river projects	Lead for the Invasive Species Working Group; Uses drones to monitor projects, & coordinates with conservation districts to reduce weeds.
Water Resource Specialist 2	Debbie Neddenriep	Grant Management of FEMA grants from cradle to grave: aka grant.gov, PARS system, ND Grants, and Mapping Information Platform. Coordinate community engagement and flood awareness in Carson River Watershed	Lead for community engagement and flood awareness. Project lead for Floodplains as Community Assets videos.

4.4 CURRENT MITIGATION CAPABILITIES

Table 4-4 lists CWSD’s primary strengths and actions taken to increase capabilities.

5.1 MITIGATION GOALS AND OBJECTIVES

CWSD reviewed the hazard profiles as a basis for developing mitigation goals and objectives. CWSD works with local governments to address mitigation capability as it relates to flooding, drought, severe weather and in some cases, invasive species reduction to reduce wildland fuels.

Table 4-5: Mitigation Goals		
Goal Number	Goal Description	Objective
1	Goal 1: Promote increased and ongoing involvement in hazard-mitigation planning and projects.	Coordinate Carson River Watershed hazard mitigation planning with local, state and federal plans. Create Carson River Hazard Mitigation Plan
2	Goal 2: Reduce the possibility of damage and losses due to drought.	Property protection: CWSD works to improve water supply - 2013 Regional Comprehensive Watershed Plan (2013) considers long-term water system viability in the Carson River Watershed.
		Property protection: CWSD works to improve water supply - Water Marketing Strategy for the Carson River Watershed to ensure water supply and reduce conflict between users.
		Create annual water rate report of 13 water purveyors in the Carson River Watershed.
		Property protection: CWSD helps fund USGS well monitoring of water levels in Carson River Watershed.
3	Goal 3: Reduce the possibility of damage and losses due to floods.	2018 Regional Floodplain Management Plan lists potential projects and suggested actions to mitigate flood hazards. This plan was adopted by Storey County Board 12/2018.
		2019 North Dayton Valley Area Drainage Master Plan includes Mark Twain Community of Storey County.
		CWSD is funded through FEMA to assist local counties and city conduct community engagement and flood outreach in the Carson River Watershed.

Mitigation actions are usually grouped into six broad categories: prevention, property protection, public education and awareness, natural resource protection, emergency services, and structural projects. Table 4-5 lists CWSD goals and potential actions selected for this HMP.

5.2 IDENTIFYING, EVALUATING, AND PRIORITIZING MITIGATION ACTIONS

CWSD identified, evaluated, and prioritized each mitigation action. To complete this task, the STAPLE+E evaluation criteria was used, including rankings of zero for lowest and three for highest priority, acceptance, feasibility etc., and the rankings for each action were totaled. See Table 5-2 for the evaluation criteria.

Table 5-2: STAPLE+E Evaluation Criteria for Mitigation Actions

Evaluation Category	Discussion “It is important to consider...”	Considerations
Social	The public Support for the overall mitigation strategy and specific mitigation actions	Community acceptance; adversely affects population
Technical	If the mitigation action is technically feasible and if it is the whole or partial solution	Technical feasibility; Long-term solutions; Secondary impacts
Administrative	If the community has the personnel and administrative capabilities necessary to implement the action or whether outside help will be necessary	Staffing; Funding allocation; Maintenance/operations
Political	What the community and its members feel about issues related to the environment, economic development, safety, and emergency management	Political support; Local champion; Public support
Legal	Whether the community has the legal authority to implement the action, or whether the community must pass new regulations	Local, State, and Federal authority; Potential legal challenge
Economic	If the action can be funded with current or future internal and external sources, if the costs seem reasonable for the size of the project, and if enough information is available to complete a FEMA Benefit Cost Analysis	Benefit/cost of action; Contributes to other economic goals; Outside funding required; FEMA Benefit Cost Analysis
Environmental	The impact on the environment because of public desire for a sustainable and environmentally healthy community	Effect on local flora and fauna; Consistent with community environmental goals; Consistent with local, State and Federal laws

References

Carson Water Subconservancy District /Brenda Hunt. 2017. *Adaptive Stewardship Plan*.

Carson Water Subconservancy District /Deborah Neddenriep. 2018. *Carson River Watershed Floodplain Management Plan*. <http://www.cwsd.org/wp-content/uploads/2018/10/2018-10-18-RFMP-Bd-Approved-Final.pdf>.

AGENDA ITEM #13

CARSON WATER SUBCONSERVANCY DISTRICT

TO: BOARD OF DIRECTORS

FROM: EDWIN D. JAMES

DATE: August 19, 2020

SUBJECT: Agenda Item #13 – For Possible Action: Authorize CWSD Staff to pursue the Trail Rec Grant and 319 Grant

DISCUSSION:

CWSD staff would like to pursue a Nonpoint Source Pollution Management Program 319(h) Grant. The proposal would be to work with Douglas County's Storm Water Utility to implement a LID (low impact development) project to reduce nutrients and help alleviate the excessive algal growth in the East Fork Carson River. The Proposal is currently under development and further details will be provided at the board meeting.

CWSD staff would also like to pursue a Nevada State Parks Recreational Trail Program Grant to expand the current Carson River Aquatic Trail to Cradlebaugh Bridge in Douglas County. This proposal would place interpretive signage and improve river put-ins and take-outs. The current Aquatic Trails Map would also be updated to include the new put-in at Cradlebaugh bridge. The grant would fund:

- 1) CWSD staff time to coordinate and administer the project
- 2) The revision and reprinting of the Aquatic Trail Map
- 3) Permits to allow enhancements of river accesses
- 4) Improvements to the Cradlebaugh Bridge put-in, Mexican Dam Portage and Santa Maria Ranch take-out
- 5) Any materials needed (Rocks, Logs, pavers etc.)
- 6) 4 Interp. Signs @ Cradlebaugh, Carson River Park, Morgan Mill & Santa Maria

CWSD has already contacted Scott Morgan, Community Services Director with Douglas County, Greg Berggen, Trails Coordinator with Carson City, and Jeff Page, County Manager with Lyon County. All have expressed their support for the proposal. Public access through the Bentley Heritage Conservation Easement along the Carson River has greatly eased the private land concerns in Douglas County allowing for the expansion of the Aquatic Trail. This expansion would add eight miles of flatwater to the existing trail with accesses in Douglas, Carson City and Lyon counties.

Staff will present further details on both proposals during the board meeting.

STAFF RECOMMENDATION: Authorize CWSD Staff to pursue the Trail Rec Grant and 319 Grant.

AGENDA ITEM #14

CARSON WATER SUBCONSERVANCY DISTRICT

TO: BOARD OF DIRECTORS

FROM: EDWIN D. JAMES

DATE: August 19, 2020

SUBJECT: Agenda Item #14 – For Discussion Only: Update on the Carson River Watershed Workshop

DISCUSSION: Staff will give an update on the Carson River Watershed Workshop. There are still several details that need to be worked out. We are looking at a possible date of October 14, 2020. Attached is a draft outline.

STAFF RECOMMENDATION: Receive and file.

Draft Outline for the Carson River Watershed Virtual Workshop

Addressing Nevada Water Supply Challenges in the Carson River Watershed

- Welcoming
- Show the CWSD video
- Presentation by Bunny Bishop, Chief of NV DWR Water Planning Department –
Outline goals for the Water Planning Department
- Presentation by Ed James, GM for CWSD –
Overview of the Water Supply for the Carson River Watershed
- Presentation by Nick Charles, Lumos & Associates –
Carson River Water Marketing Study
- BREAK
- Presentation by Eric Morway, USGS – **Middle and Upper Carson River Studies**
- Presentation by Kip Allander, USGS – **Humboldt Watershed Study**
- Presentation by Jon Benedict, DWR – **Humboldt Watershed Management by DWR**
- Lunch Break
- Presentation by Adam Sullivan & Micheline Fairbank, Deputy State Engineers -
NDWR's modernization of its management of Nevada's water resources
- Presentation TBD
- Presentation TBD
- BREAK
- Round table Discussion with Water Professionals regarding various water topics

STAFF REPORTS

CARSON WATER SUBCONSERVANCY DISTRICT

TO: BOARD OF DIRECTORS

FROM: EDWIN D. JAMES

DATE: August 19, 2020

SUBJECT: Agenda Item #15 - For Information Only: Staff Report

DISCUSSION: The following is a partial list of meetings/activities attended by Ed James and during July and August:

Ed James Activities:

- Faith Valley Zoom Meeting
- Carson City LID Presentation
- Grant invoicing/reporting
- Weekly Staff meetings
- Several Water Purveyors Meetings, which he will go into more detail during staff report
- Regional Water System and Flood Committee Meeting

Catrina Schambra Activities:

- In addition to routine admin duties, completed yearend reporting and ongoing audit preparation.

Brenda Hunt Activities:

Watershed Coordination Grant:

- Attended virtual FEMA CTP Special Topics training on Aug 3-5. It was an incredible training. See attached Agenda.
- Follow up from Forum WQ Implementation Workshop and documentation of project/program status and addition of new projects to Stewardship Plan.
- Began researching Funding Strategy and Stewardship Plan Implementation Strategy per Task 7 of our grant.
- Worked with Staff and Neon to determine next steps with Drinking Water film do over and Social Media Strategy.
- Conducted CRC Education Working Group Meeting via ZOOM on July 8. Reviewed meeting notes, sent out, and uploaded
- Shane and I did a site visit to determine better placement for the Watershed Sign that sheared off during a windstorm last winter. It needs to be relocated further south on US 580 when entering Eagle Valley.
- Discussions and strategies with Shane, Loren, and Debbie about updating CWSD website.
- Working with Loren - AmeriCorps on creation of a Carson River Watershed Agricultural BMPs white paper. Loren has been researching what practices would be most applicable to our Watershed and will be arranging it in a similar manner to our Low Impact Development white paper from 2015.
- Working with Kelli Nevills, Source Water Protection Specialist with NV Rural Water Association and Courtney Walker, DC Stormwater Manager on a stormwater water quality project in Minden's Ironwood neighborhood.
- Faith Valley Restoration Meeting with USFS, American Rivers, CWSD to discuss next steps relating to the project and CWSD's water rights.
- Participated in the Dayton Valley ADMP Public Meeting
- Met internally to determine whether to apply for USEPA Clean Water Act Section 319 Water Quality Grant through NDEP when notice of Grant Funding Opportunity comes out, and to put together a preproposal for the NV State Parks Trail funding.
- Completed AmeriCorps end of term evaluation process.
- USEPA Mercury Site released updated outreach material. Will provide to CWSD Board at August meeting.
- Attending virtual Low-Tech Restoration Technics Workshop Aug. 11-14.

Low Impact Development Grant:

- Scheduled and met with Carson City staff, Robb Fellows –Stormwater Manager, Lee Plemel, Community Development Director and CWSD staff, Ed James, Brenda Hunt and our contractor, Rob Loveberg on next steps to bring LID ordinances to the CC Planning Commission by Sept. 30th meeting.
- Set up meeting for with Aaron Parks, NV Builders Association, and invited representatives from the ASCE (American Society of Civil Engineers) and APWA (American Public Works Association).
- Created doodle polls and worked with the remaining Counties to schedule meetings to bring LID forward in their respective jurisdictions.

NFWF:

- Coordination with Shane on wrapping up NFWF grant. Reviewed final NFWF report.

Admin:

- Organized Watershed Coordination Program staff meetings with Shane and Loren
- Attended virtual CWSD Staff Meetings

- Timesheets
- Completed Summary of Activities

Shane Fryer Activities:

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- Continued to coordinate project between: NDEP, CWSD, R.O. Anderson and Carson Valley Conservation District
- Surveyed in elevations from benchmarks on Page Ranch
- Flew missions on the Page Ranch with precise ground control points.
- Surveyed in elevations from benchmarks in Hope Valley for Forth Crossing Project
- Worked with Carson City, The Nature Conservancy, Alpine Watershed Group and Douglas County to develop new projects. New Projects include TNC (Brockliss slough), Douglas (algae reach, East Fork), Cason City (Combs drainage).
- Began digitizing DVCD river project in GIS
- Began creating Carson River Structure Inventory in GIS

NFWF

- Collected Invoices from Dayton Valley Conservation District, Carson City and The Churchill County Mosquito Communicated with, Vector, and Noxious Weed Abatement District.
- Processed Final invoice for grant
- Completed Final report (15 pages)
- Processed Final programmatic reporting

CWSD Weed Abatement

- Collected final invoices for 2019/2020 year from Dayton Valley Conservation District, Carson City and The Churchill County Mosquito Vector and Noxious Weed Abatement District, Carson Valley Conservation District, Alpine & Upper Carson WMA about end of fiscal year.

Watershed Coord

- Communicating with active restoration partners, American Rivers (Beaver Analog, Alpine Watershed Group (4th Crossing) and Carson Valley
- Remote CRC meeting (Education Working Group)
- Site visit with Carson City on Mexican Dam Portage
- Outreach and request for support for a Non-Motorized Trail Grant for Aquatic Trail

Watershed Campaign

- COVID safe site selection for video recording Community Drinking water video

Debbie Neddenriep Activities

- In addition to FEMA grant administration and reporting, attended several training webinars including Cooperating Technical Partners (see attached description)

STAFF RECOMMENDATION: Receive and file.

Cooperating Technical Partners (CTP)

Special Topics Webinar

Dates: Monday, August 3 – Wednesday, August 5 (2.5 Days)

Zoom Line: TBD

DAY 1 (PM Session): Webinar Kickoff, Setting the Stage, and CTP Program Nuts & Bolts

12:30-12:45 p.m. <i>(Note: All times are EDT)</i>	Welcome, Administrative Announcements, and Course Overview	Laura Algeo, National CTP Program Coordinator, Risk Management Directorate
12:45-1:45 p.m.	Welcome and Objectives from Upper Leadership	Tom Glen, Chief; Bradley Dean Data and Communications Branch, Risk Management Directorate
1:45-2:30 p.m.	Setting the Stage; Icebreaker Activity on Communication Challenges and Learning Goals	Community Engagement and Risk Communication (CERC) Instructors
2:30-3:00 p.m.	Program Goals and Community Outreach, and Mitigation Strategies (COMS) Activities	Laura Algeo
3:00-4:00 p.m.	Grants Management and Oversight	Laura Algeo
4:00-4:15 p.m.	Wrap-up & Adjourn	

DAY 2 (Full Day): Community-Based Social Marketing (CBSM) Plenary and Workshop Exercises

10:00-10:15 a.m.	Welcome and Recap from Day 1	Laura Algeo
10:15-11:45 a.m.	Keynote Kick-off: <u>Community-Based Social Marketing (CBSM)</u>	Dr. McKenzie-Mohr (<u>Bio</u>)
11:45-12:45 p.m.	Lunch / Break	
12:45-3:45 p.m.	CBSM Workshop Exercises	Dr. McKenzie-Mohr
3:45-4:00 p.m.	Wrap-up & Adjourn	

DAY 3 (Full Day): Planning for Action, Peer to Peer Learning, and Webinar Conclusion

10:00-10:15 a.m.	Welcome and Recap from Day 2	Laura Algeo
10:15-11:45 a.m.	Planning for Action: Data-Driven Decision Making; Leveraging Multiple Data Sources; Addressing Mitigation in Comprehensive Plans	CERC Instructors
11:45-12:30 p.m.	CTP Peer Presentation #1: Effective Community Engagement in a Virtual Environment	Tara Lanzrath, Kansas Department of Agriculture
12:30-1:30 p.m.	Lunch / Break	
1:30-2:15 p.m.	CTP Peer Presentation #2: North Dakota Risk Communication: Base Level Engineering and the North Dakota Risk Assessment Map Service	Laura Horner, North Dakota State Water Commission
2:15-3:00 p.m.	CTP Peer Presentation #3: Projects and Work for Colorado	Marta Blanco Castano, Colorado Water Conservation Board
3:00-3:45 p.m.	CTP Peer Presentation #4: Making Technical Information Meaningful	Rebecca Leitschuh, Illinois State Water Survey
3:45-4:00 p.m.	Course Wrap-up & Adjourn	

CORRESPONDENCE

Subconservancy's Ed James floodplain manager of the year

Staff Reports

Edwin James, the Carson Water Subconservancy District General Manager, is the 2020 California, Nevada, and Hawaii Floodplain Management Association's Floodplain Manager of the Year. This award recognizes James for his efforts and contributions to floodplain management in the Carson River Watershed.

The Floodplain Manager of the Year Award is designed to honor an individual or team responsible for the development or implementation of a distinguished local program or activity. This award is given by the Association to individuals or teams who are highly instrumental in carrying forward the goals and objectives of floodplain management. James' effort to balance the municipal, economic, and environmental needs within the watershed has earned him this respected award. During the past 20-plus years, his work with the counties and Carson River Coalition members in the Carson River Watershed resulted in reduced flood risks to our watershed community.

Under James' leadership and working with our partners CWSD:

- Developed, adopted, and updated the Carson River Watershed Regional Floodplain Management Plan,

- Became an active Co-operative Technical Partner with the Federal Emergency Management Agency (FEMA), and

- Continues to leverage CWSD funding to help counties implement floodplain management projects

and elevate flood awareness throughout the watershed.

"It is a great honor to receive this award but the recognition should not only go to me but to all the entities and people who have worked to reduce the flood risk in the Carson River Watershed. This award represents the effort and

leadership of the Carson Water Subconservancy District's Board and staff, the Carson River Coalition, including Alpine County, Douglas County, Carson City, Storey County, Lyon County, and Churchill County, as well as state and federal agencies, and non-government entity

partners (NGOs). These combined efforts have helped protect floodplain lands and provide information on ways that communities can reduce their flood risk," James said.

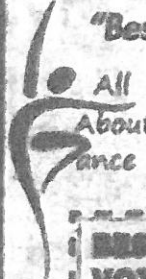
James will receive the award this September at the Annual FMA Conference.

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Record Courier

August 8, 2020



Subconservancy's Ed James floodplain manager of the year

1d ago

Edwin James, the Carson Water Subconservancy District General Manager, is the 2020 California, Nevada, and Hawaii Floodplain Management Association's Floodplain Manager of the Year. This award recognizes James for his efforts and contributions to floodplain...

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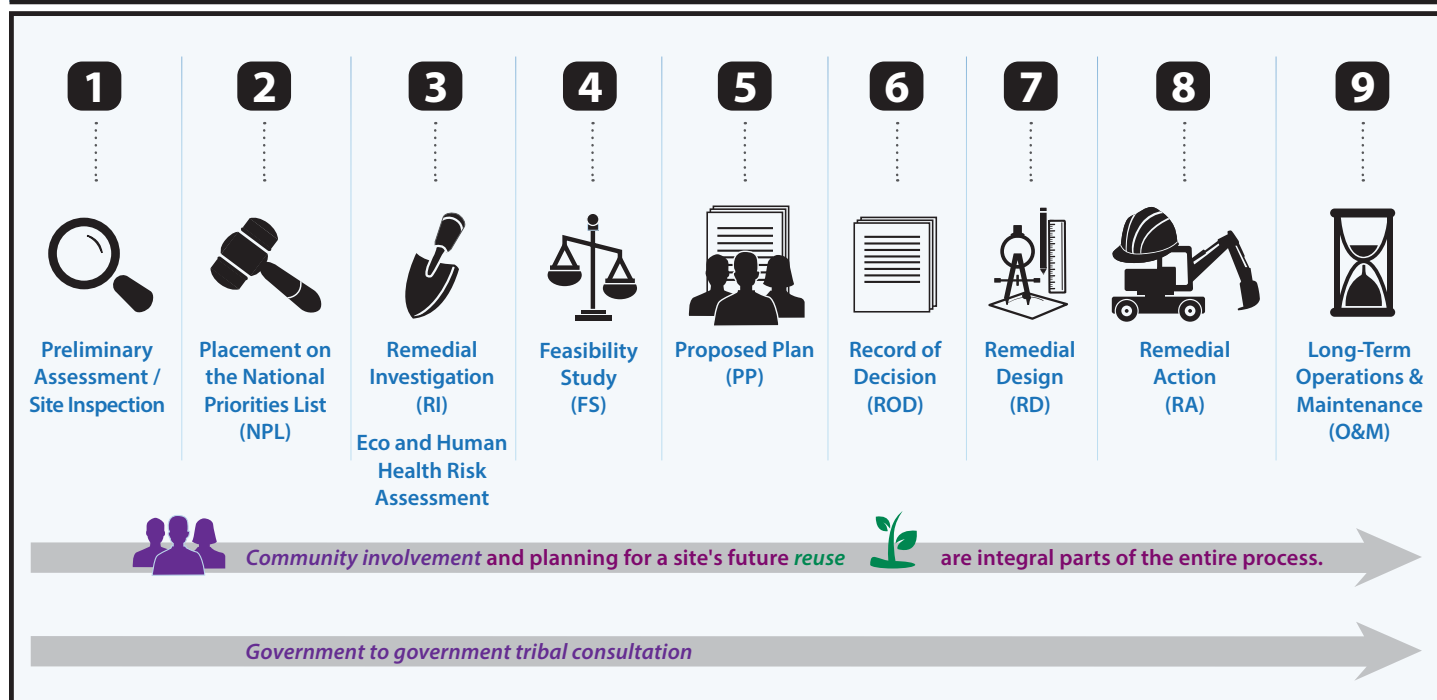
Carson River Mercury Superfund Site (CRMS) at a Glance

U.S. Environmental Protection Agency • Region 9 • San Francisco, CA • August 2020

What is a Superfund site? What is EPA's role in cleaning it up?

The Environmental Protection Agency's (EPA's) mission is to protect human health and the environment. Public concerns about pollution led to the establishment of EPA on December 2, 1970. In the 1970s, EPA identified hazardous waste sites across the country. These sites posed public health risks and environmental threats. In response, Congress passed the Comprehensive Environmental Response, Compensation and Liability Act or the "[Superfund law](#)." Under this law, EPA holds companies accountable for pollution at the most toxic waste sites. It also provides a way to clean up sites with no responsible parties. The law requires [community involvement](#) throughout the process.

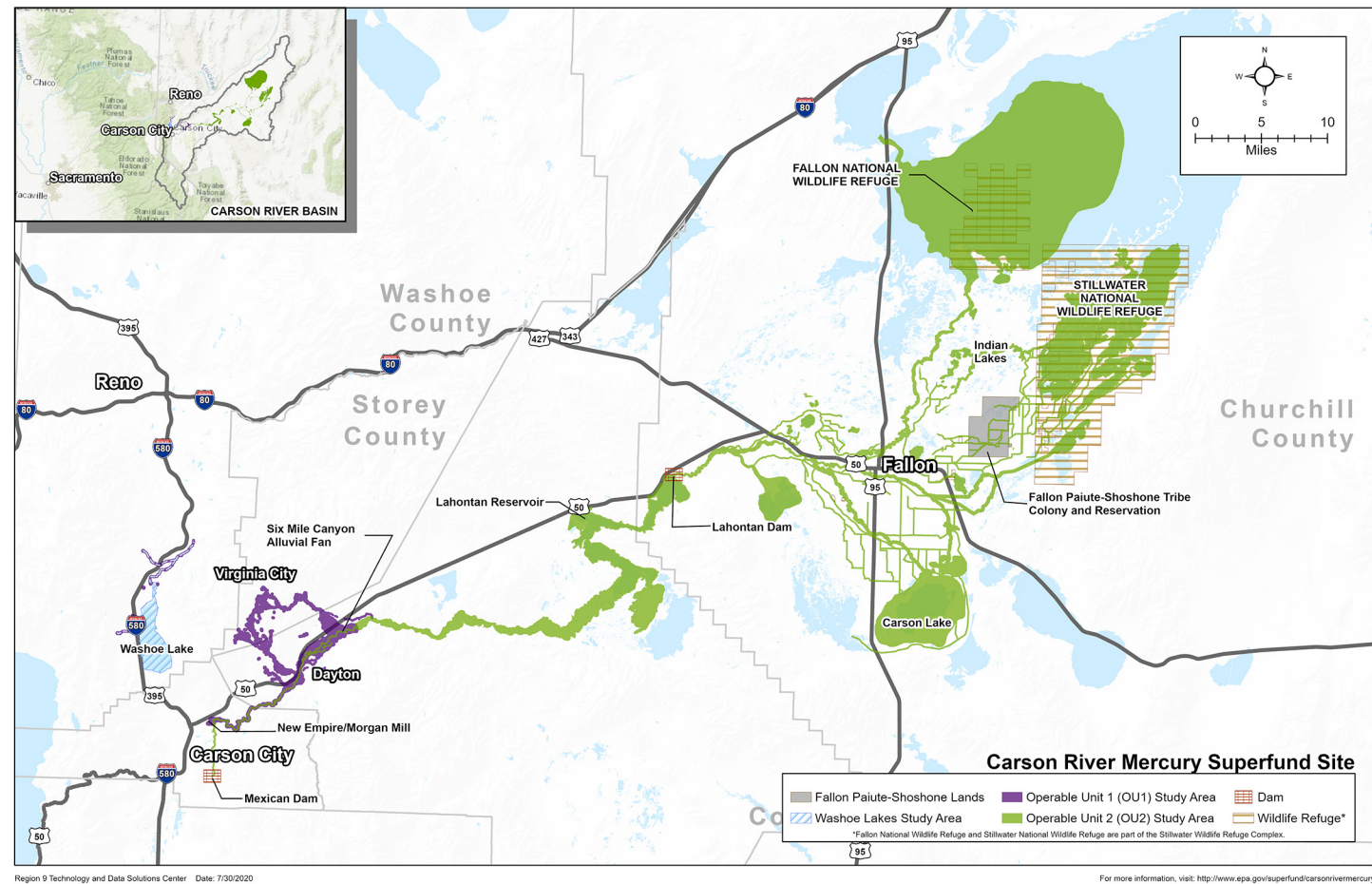
The Superfund Process



What is the Carson River Mercury Superfund Site?

In 1859, miners discovered large natural deposits of gold and silver, also known as the Comstock Lode, in Carson City, Virginia City and Dayton, Nevada. Miners used mercury to process gold and silver ore. Two hundred and thirty-six mills processed the ore. Over several years, this mining process released 14 million pounds of mercury into the environment.

Due to mercury contamination, the [Carson River Mercury Superfund Site](#) (CRMS) was added to the [National Priorities List](#) in 1990. This list consists of highly toxic waste sites called Superfund sites. The CRMS spans five counties and more than 130 river miles in northwestern Nevada. Historic mill sites in Carson City, Virginia City, Dayton, Washoe Valley and Pleasant Valley have mercury contamination. Waterways located next to mill sites spread mercury from the 100-year floodplain of Carson River to the terminal ends (see page 2). EPA's site investigation found mercury in soil, sediments (i.e., earthen materials that settle to the bottom of a water body), fish and wildlife.



Are there health risks associated with eating mercury-contaminated fish?

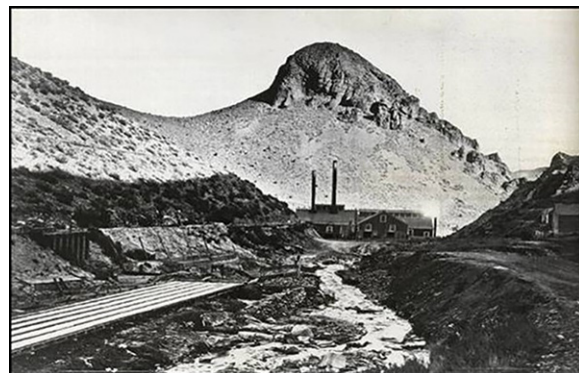
EPA has found dangerously-high levels of mercury in fish tissue at the CRMS. Mercury contamination presents a serious health risk to those who eat the fish. It can cause permanent damage to the nervous system and might result in disabilities for developing fetuses and children.

Why is CRMS divided into Operable Units 1 and 2?

EPA divided the site into two cleanup areas called “operable units” (OUs). This helps EPA better manage the site investigation and cleanup. The first OU (OU1) includes the former mill sites, related mine tailings and contaminated soils. The second OU (OU2) includes the Carson River and adjacent floodplains from the Mexican Dam in Carson City to the lakes and wetlands south, northeast and east of Fallon. The community uses both OUs for recreation, conservation, agriculture, and commercial and residential development.

What is the status of OU1?

In 1995, EPA finalized the cleanup plan for OU1. Since then, EPA and the Nevada Division of Environmental Protection (NDEP) have excavated (dug up), capped, backfilled and/or removed contaminated soils from the site. EPA’s OU1 assessment found the only potential significant health risks are to children under six whose house is located on mercury-contaminated soil (arsenic and lead are also of concern). These children may accidentally eat the soil when playing outdoors.



If you think you live in the footprint of OU1, EPA and NDEP may be available to sample the soil in your residential yard. If your yard soil exceeds mercury, arsenic and/or lead levels that may cause health risks and you agree to us doing the work, we can take further action.

What about OU2?

EPA did a Remedial Investigation (RI) and Feasibility Study (FS) for OU2. The RI looks at where contamination from the mining process went and in what concentrations. Based on these findings, EPA determines possible risks to human health and the environment.

Through this investigation, EPA found high levels of mercury (but not arsenic and lead) in sediment and aquatic life along Carson River. The FS used the investigation information to develop cleanup options (or alternatives) for OU2. In December 2018, EPA issued the FS for OU2.

Why is it taking so long to clean up the CRMS?

CRMS is complex and one of the largest Superfund sites in the country. EPA is currently considering measures to address immediate threats to human health and the environment in OU2. Due to technology limitations, EPA cannot clean up the mercury contamination in soil, fish and water bodies. EPA plans to monitor contamination and prevent further spreading.



Who is responsible for fish advisories?

State governments have the primary responsibility for protecting their communities from possible risks from eating contaminated fish. Fish and shellfish concentrate mercury in their bodies in the form of methylmercury. Due to high methylmercury levels in fish, the Nevada State Health Division has issued a health advisory. The health advisory recommends no consumption of fish in the Carson River from Dayton to Lahontan Dam and all waters in the Lahontan Valley.

EPA discourages people from eating all fish, wild plants and waterfowl in areas where mercury levels may be high within the site boundaries (see map on page 2 for location). Catch and release fishing, swimming and other recreational activities are safe. For more information go to: www.ndow.org/fish

What is next?

For the OU2 area, EPA expects to issue a Proposed Plan for public review and comment in late Fall 2020. EPA will not select a cleanup option until considering public comments. EPA is considering hosting a virtual public meeting.



Carson River Mercury Superfund Site

Who can I contact for more information?

You can contact EPA Remedial Project Managers, **Andy Bain** (bain.andrew@epa.gov) at (415) 972-3167 or **Sarah Watson** (watson.sarah@epa.gov) at (415) 972-3032. You can also contact **Dave Friedman** (dfriedman@ndep.nv.gov) with NDEP at (775) 687-9385.

Can I receive email updates about CRMS? Yes. If you are interested in receiving email updates about CRMS, contact **Community Involvement Coordinator Hilary Clark** (clark.bilary@epa.gov) at (415) 947-4538.

Website Links:

Superfund law: www.epa.gov/superfund/what-superfund

Community Involvement: semspub.epa.gov/work/09/100001839.pdf

Carson River Mercury Superfund Site: www.epa.gov/superfund/carsonrivermercury

National Priorities List: www.epa.gov/superfund/superfund-national-priorities-list-npl

Comstock Lode: www.nps.gov/places/virginia-city-historic-district.htm

NDOW: www.ndow.org/fish/