



NEVADA DIVISION OF
**ENVIRONMENTAL
PROTECTION**



Nevada Department of
**CONSERVATION &
NATURAL RESOURCES**



Board for Financing Water Projects

January 20, 2021

10:00 AM

To be held Virtually

Lifesize: <https://call.lifesizecloud.com/4155018>

Skype for Business: <https://skype.lifesizecloud.com/4155018>

Call in from Mobile/Phone (audio only): United States: +1 (877)
422-8614

Meeting extension: 4155018#

This meeting will *not* be broadcast over the Internet.

Drinking Water funding update

as of January 4, 2021

Cash in fund	\$67,760,147.52
Committed funds not yet disbursed	\$20,730,214.37
Add commitments for Board consideration	\$20,019,493.00
Total committed funds after Board approval	\$40,749,707.37
Lowest cash flow balance in three (3) years²	\$58,376,415

Drinking Water funding update

as of January 4, 2021

	Jan 2021 to June 2021	July 2021 to June 2022	July 2022 to June 2023	July 2023 to Dec 2023
Cash balance forward	\$60,411,017	\$58,376,415	\$59,815,049	\$71,309,108
Receipts from grants awarded ¹	\$0	\$10,334,770	Not forecasted	Not forecasted
Receipts from bonds issued	\$0	Not forecasted	Not forecasted	Not forecasted
Receipts from treasurer's Interest¹	\$1,029,187	\$628,381	\$634,111	\$369,462
Receipts of loan principal	\$6,404,100	\$13,381,110	\$13,777,017	\$6,668,035
Receipts of loan interest	\$2,054,379	\$3,919,960	\$3,574,539	\$1,654,439
Payments for debt service	(\$332,338)	(\$3,044,538)	(\$2,958,938)	(\$2,727,200)
Payments to loan recipients ³	(\$10,473,783)	(\$24,414,322)	(\$4,176,825)	(\$150,000)
Cash balance forward	\$58,376,415	\$59,815,049	\$71,309,108	\$77,886,773

¹ Estimate only for planning purposes. All numbers are subject to change.

² Estimated at 1% A.P.R. on undisbursed cash in the fund. Subject to change.

³ Values contain planned loans not yet presented to the Board for Financing Water Projects for funding.

Drinking Water funding update

as of January 4, 2021

Current funds to obligate for principal forgiveness loans	\$3,883,261.78
Less projects for board consideration	\$3,295,493
Remaining funds to obligate for principal forgiveness loans	\$587,768.78
Pending 2021 Grant (estimated allotment)	\$2,552,800
Total Principal Forgiveness Funds	\$3,140,568.78

Capital Improvements Grant funding update

as of January 4, 2021

Current Cash	\$2,799,384.39
Reserved for Administration	\$15,496.11
Committed funds not yet disbursed	\$1,267,395.15
Projects for Consideration:	\$1,193,026.00
Un-committed funds:	\$343,092.61

Committed funds not yet disbursed:			
GP2001	Lovellock Meadows Water District	Storage Tank 1 rehabilitation	\$138,923.15
DP2101	Lovellock Meadows Water District	Storage Tank 2 rehabilitation	\$487,500.00
DP2102	Churchill County	New well for redundant source requirements	\$640,972.00
Total			\$1,267,395.15
Projects for consideration			
#8	Alamo Sewer and Water GID	Arsenic Treatment	\$693,026
#14	Las Vegas Valley Water District (Big Bend)	Treatment plant improvements; storage rehabilitation; distribution; electrical controls	\$500,000
Total			\$1,193,026.00
Letter of Intent Submitted			
	Pershing County Water Conservation District	Rodgers Flume Replacement	\$2,160,000

Capital Improvements Grant funding update

as of January 4, 2021

AB 541	2019 Legislative Session, Section 17	\$3,000,000
The State Board of Finance shall issue general obligation bonds of the State of Nevada in the face amount of not more than \$3,000,000 in the 2019-2021 biennium as provided in NRS 349.986 for the program for providing grants for water conservation and capital improvements to certain water systems.		
Less 2019B Series issued December 10, 2019		\$1,500,000
Less 2020B Series issued November 10, 2020		\$1,500,000
Remaining Authority		\$0

Arbitrage Rebate:

For construction projects = two-year expenditure requirement for the 2019B Series:

Period	Cumulative Expenditures
6 Months	10%
12 Months	45%
18 Months	75%
24 Months	100%

Increased funding for Board-approved loans

Beatty Water and Sanitation District

- \$85,000 approved on June 25, 2019
- PER and ER to address additional and redundant sources of safe drinking water
- Additional work needed to address the State Historic Preservation Office
- Additional \$15,000 requested
 - Total Loan commitment: \$100,000 principal forgiveness funding

Truckee Meadows Water Authority (TMWA)

- \$100,000 approved on June 20, 2018
- Consolidate Old Forty West Motel into TMWA due to very high arsenic levels in drinking water supply
- Additional review and fees due to evaluations by the Union Pacific Railroad
- Additional \$16,000
 - Total Loan commitment: \$116,000 principal forgiveness funding

Increased funding for Board-approved loans

Mount Rose Bowl Property Owners' Water Company

- \$500,000 approved on April 17, 2019
- Source water treatment for lead and copper exceedances
- New storage tank
- Increase in iron levels in the source water since project started compelled new designs and additional costs for permits
- Additional \$25,000 requested
 - Total Loan commitment: \$525,000 principal forgiveness funding



Greg Lovato
Administrator

Jennifer Carr
*Deputy
Administrator*

Jeffrey Kinder
*Deputy
Administrator*

Rick Perdomo
*Deputy
Administrator*

*Project #8A
Gold Country Water Company, Inc.,
PER & ER
Nitrate Mitigation Need*



Nevada Department of
**CONSERVATION &
NATURAL RESOURCES**

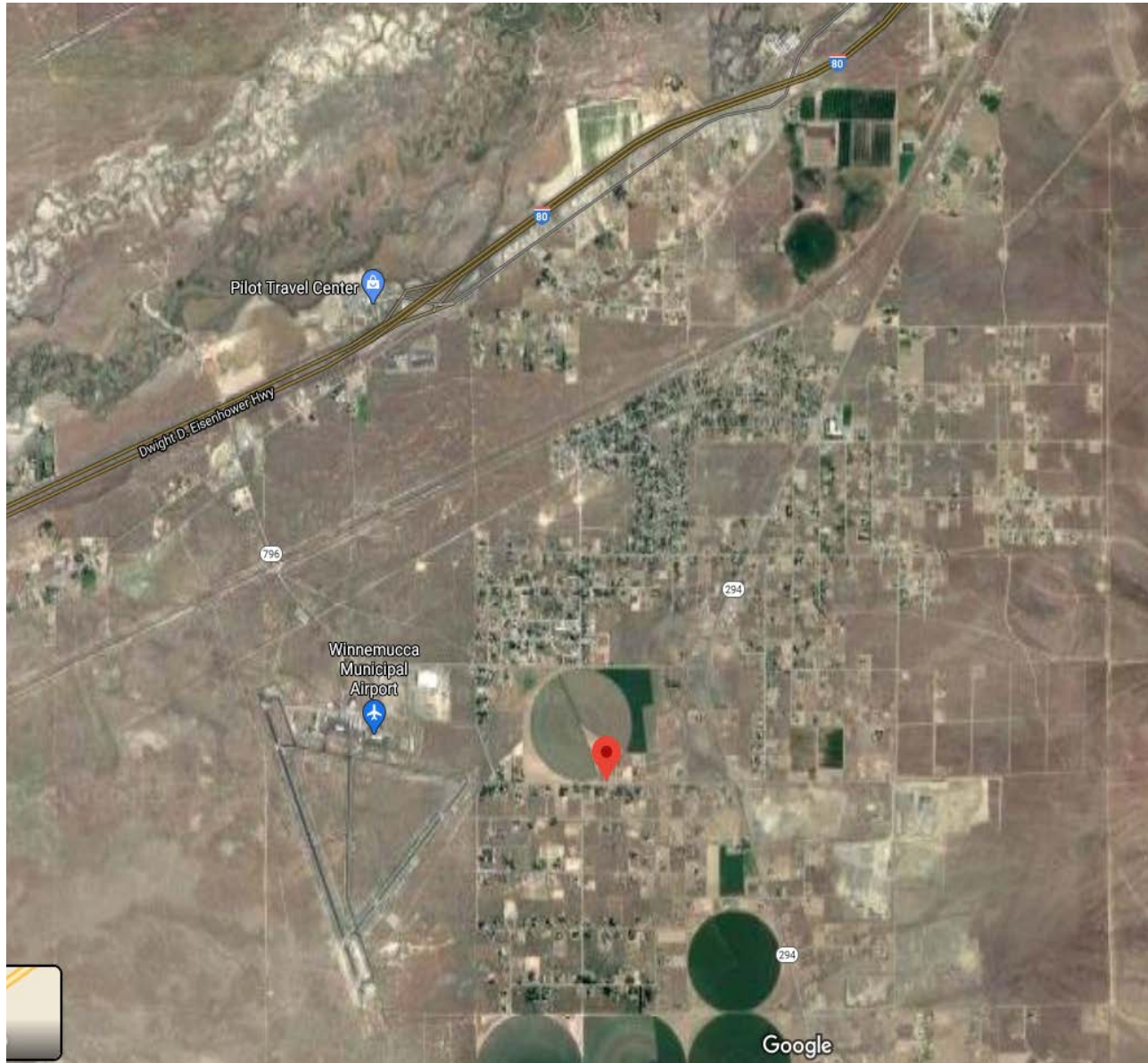


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Gold Country PWS – general service area



Nevada Department of
**CONSERVATION &
NATURAL RESOURCES**

Humboldt County Gold Country Water Company, Inc.

Privately Owned Community PWS
Gold Country water system

- 425 total connections (950 residents)

Priority list Rank #1

- 2 GWs, one domestic and one fire well
- Intertie with Star City and also Winnemucca Airport Water System.
- Over 2000 AFY with one of the wells mainly used for irrigation supply
- 6" - 12" pipes
- 285k storage tank
- No outstanding SDWA compliance issues
- Water Conservation Plan - 2015



PER/ER to explore options to address increasing nitrate levels in the current source water

- Sustainable long-term solutions
 - Alternative options
 - Consolidations
 - New infrastructure
- Motivated Management
- Has been closely monitoring the water quality and analyzing for TN trends for a while. Well 1 exceeded MCL in 2011, Well 2 above 7 ppm and trending upwards



GOLD COUNTRY WATER COMPANY
HUMBOLDT COUNTY, NEVADA

EXHIBIT 1

GOLD COUNTRY
WELL LOCATIONS

DRAWN BY: DLR
DATE: 12/20/20

Gold Country PWS (NV0003049)

PER/ER



Preliminary determination for ER needs for water project:

- No ground disturbance anticipated



- To address impending acute water quality issue;
- Assure sustainable safe drinking water supply



Feasibility:

- Engineer's estimated cost \$44k ;
- No outstanding compliance issues;
- Experienced management;
- Working Closely with Humboldt County
- No new technical capacity required;



Ready to proceed

- January 2021 – July 2021

Gold
Country
Water
Company,
Inc.

PER/ER

\$37,400 Principal Forgiveness Loan

\$6,600 local match

\$44,000 Project cost

Preparation of a PER and ER is eligible for principal forgiveness funding up to \$100,000. A 15% match is required.

- Financial information provided demonstrates financial capacity for the system
- System is generating enough revenue to cover operations and maintenance.
- Rates are regulated by the Public Utilities Commission of Nevada.



Greg Lovato
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*Deputy
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Jeffrey Kinder
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Rick Perdomo
*Deputy
Administrator*

Project #8B

Cottonwood Mobile Home Park, Inc. PWS repair and rehabilitation



Nevada Department of
**CONSERVATION &
NATURAL RESOURCES**

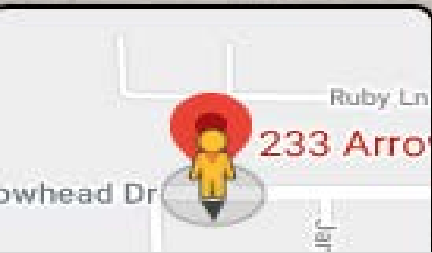
233 Arrowhead Dr
Carson City, Nevada



Street View



Cottonwood
MHP, Carson
City



Carson City Cottonwood Mobile Home Park

Privately owned Community PWS

- 91 total connections (151 residents)
- 3 GW wells – 37.79 AFY
- No water meters
- Very Old Pipes (4,500 ‘)
- 2”-4” pipes do not meet current NAC
- No current infrastructure for emergency drinking water supply
- No outstanding SDWA compliance issues
- Priority list Rank #84



PER/ER to explore options to rehabilitate ageing infrastructure



Needs an emergency water connection with Carson City PWS



- Motivated HOA Board
- Has been doing groundwork for few years
- Ready for PER/ER

Carson City Cottonwood Mobile Home Park

PER/ER



Preliminary determination for ER needs for subsequent water project:

- Old pipes >50 years old;
- FONSI eligible



- To improve water conservation;
- Community preparedness for uninterrupted supply of drinking water during



TMF

- Engineer's estimated cost \$28.5k
- No outstanding compliance issues;
- No new technical capacity required



Ready to Start & estimates 6 months to complete

Carson City
Cottonwood
Mobile
Home Park

PER/ER

\$24,225 Principal Forgiveness Loan

\$4,275 local match

\$28,500 Project cost

Preparation of a PER and ER is eligible for principal forgiveness funding up to \$100,000. A 15% match is required.

- Financial information provided demonstrates financial capacity for the system
- System is generating enough revenue to cover operations and maintenance.



Greg Lovato
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Jeffrey Kinder
*Deputy
Administrator*

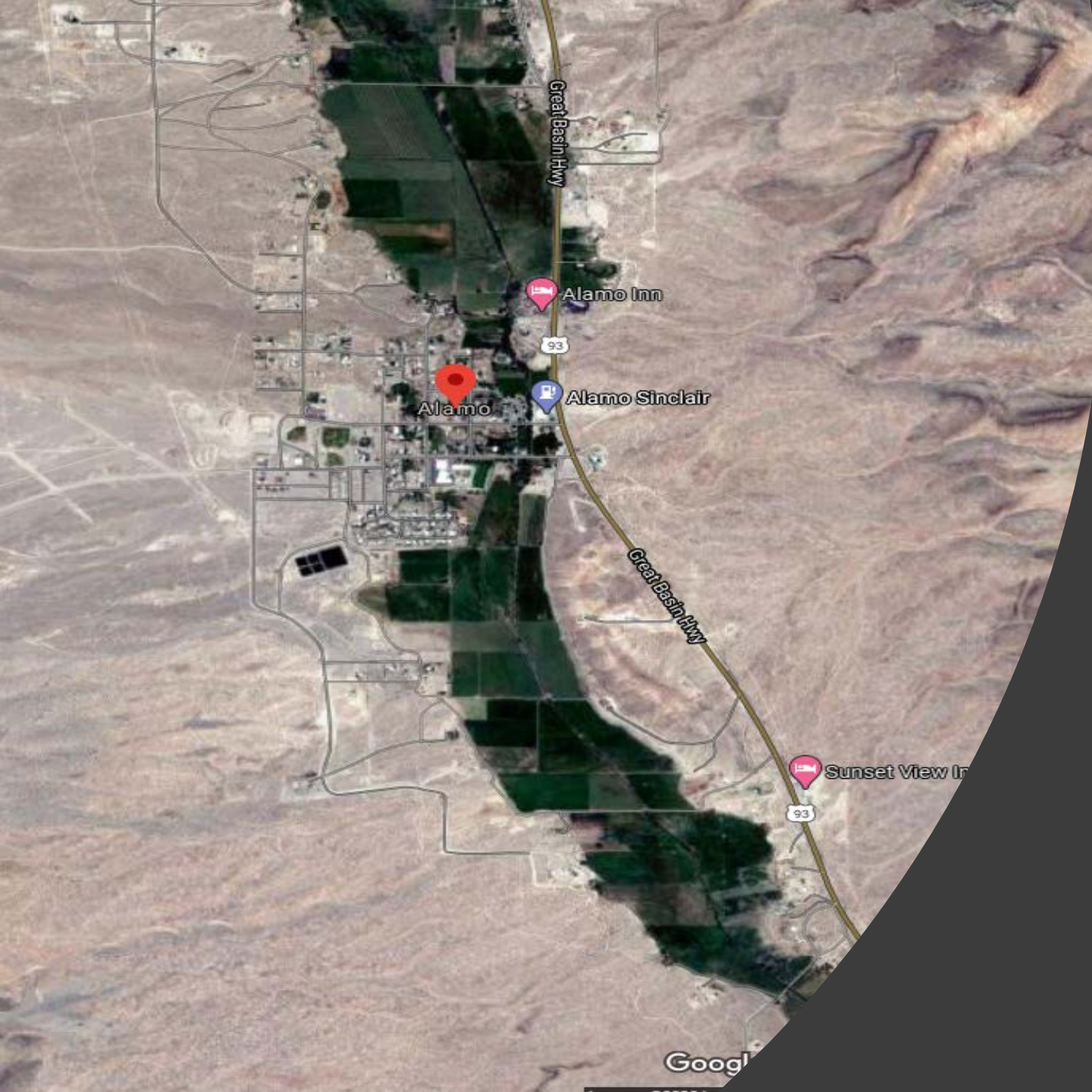
Rick Perdomo
*Deputy
Administrator*

Project #9

Alamo Sewer Water GID Arsenic Treatment Facility



Nevada Department of
**CONSERVATION &
NATURAL RESOURCES**



Alamo Sewer and Water GID, Lincoln County

Lincoln County Alamo Public Water System

Publicly Owned Community PWS

- 304 total connections (1000 residents)

Priority list Rank #72



- Sandhill Well is the only viable current source
- Alamo Industrial Park Well, 6 others, high manganese
- Preliminary Engineering Study (2018) and PER (2019/20)
- Pilot Study in 2020
- 465 k storage tank (5-10 years remaining life)
- 5 minimally significant deficiencies (2019 - BSDW)
- Corrected in 2019 but became non-source soon as water levels receded



- Arsenic Treatment Facility
- Practical solution for community
- Meets community preferences to minimize chemical handling & associated risks
- Concerns over project cost estimates for prior alternative (\$1,430 k)
- Motivated Community
- GID has been doing groundwork for a while
- Pilot study
- July 2020 –Board approved SRF loan application

LEGAL DESCRIPTION

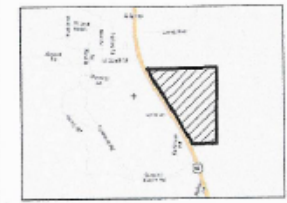
DESCRIPTION FROM PLAT NO. 21-2008-0017
LINCOLN COUNTY APN 004-130-003
MOUNT Diablo MINERAL, NEVADA
775 RISE
SECTION 9, LOT 1
SECTION 9, LOTS 2-3, NE/4NW/4, NE/4SW/4, SE/4SW/4, NE/4SE/4
CONTAINING 12820 ACRES, MORE OR LESS
BOUNDING & RESERVING TO THE USA

1. A RIGHT OF WAY FOR DITCHES AND CANALS
2. ALL LEASABLE MINERAL DEPOSITS
3. RIGHT OF WAY (DITCH-026187) FOR IRRIGATION PURPOSES TO RIGHT
4. ANY VALID EXISTING RIGHTS
5. RIGHT OF WAY FOR IRRIGATION PURPOSES TO ALAMO IRRIGATION COMPANY
6. RIGHT OF WAY FOR FIBER OPTIC CABLE TO LINCOLN COUNTY TELEPHONE SYSTEM

SURVEYED DESCRIPTION (ALSO REFERRED AS FOLLOWS)

Beginning at the southwest corner of Section 9, Township 7 South, Range 61 East, Mount Diablo Meridian, Lincoln County, Nevada, thence North 88°27'11" East 2621.66 feet along section line to the north quarter corner of said Section 9; thence South 00°32'12" West 2305.27 feet along quarter section line to the center quarter corner of said Section 9; thence continuing South 00°38'15" West 1301.02 feet to the southeast corner of the northeast quarter of the adjacent quarter of said Section 9; thence South 05°04'55" West 1181.28 feet along adjacent line to the westerly right of way line of US Highway 93 and a point on a non-tangent curve to the left having a radius of 70500.00 feet, a central angle of 02°17'27", and a chord that bears North 287°12'57" West 208.78 feet; thence along said curve and said right of way a distance of 585.86 feet; thence North 20°56'40" West 2001.06 feet along said right of way to a point on section line; thence North 00°14'56" East 75.30 feet along section line to the southeast corner of Lot 1, Section 9, Township 7 South, Range 61 East, Mount Diablo Meridian; thence North 88°24'27" West 44.00 feet along the south line of said Lot 1 to a point on the westerly right of way line of US Highway 93; thence North 25°13'36" West 734.20 feet along said right of way to a curve to the right having a radius of 83000.00 feet, a central angle of 06°04'30", and a chord that bears North 25°55'15" West 748.47 feet; thence along said curve and said right of way a distance of 747.08 feet to a point on section line; thence South 08°28'48" East 743.00 feet along section line to the POINT OF BEGINNING.

Contains 6008457 square feet or 266.826 acres, more or less.
Hatched area of 118620 square feet or 5.270 acres, more or less is fenced by HOOT and also encumbered by the fiber optic easement in the patent.



Line #	Length	Direction
L1	50.00	S0° 38' 10"W
L2	75.45	S96° 42' 20"W
L3	27.80	S20° 58' 48"E
L4	77.54	S66° 03' 20"W
L5	66.00	S66° 03' 20"W

1. MAINTAIN ACCESS VIA EXISTING DIRT ROAD TO ADJOINING PROPERTY (NOTE PRIVATE EASEMENT IS SHOWN)
2. PROPOSED 86' PRIVATE EASEMENT FOR ROADSIDE TO BE DEDICATED IN FUTURE PHASES
3. 30' POWER EASEMENT
4. 30' DRAINAGE EASEMENT
5. ALAMO CITY SEWER & WATER EASEMENT-2011-139979
6. FOUND SECTION CORNER AS NOTED
7. FOUND ROBAR W/1-1/2" HIGH ALUMINUM CAP STAMPED "TLS 13499"
8. SET REBAR W 2IN ALUMINUM CAP STAMPED "TLS 21005"

REFERENCES

- (1) BEAR DEPARTMENT SURVEY NO. 2007
- (2) PLAT NO. 21-2008-0017
- (3) RIGHT OF WAY PLANS PROJECT NO. S-144(16) & SFF-080-000
- (4) AGREEMENT TO CONVEY POINT NO. 00076
- (5) RECORD OF SURVEY DOC #132541 BOOK 0-41

BASIS OF BEARING

THE BASIS OF BEARING FOR THIS SURVEY IS NORTH STATE PLANE COORDINATE NEVADA EAST ZONE. ALL DISTANCES NOTED ARE GROUND DISTANCES. PROJECT SCALE FACTOR IS 1.00024772.

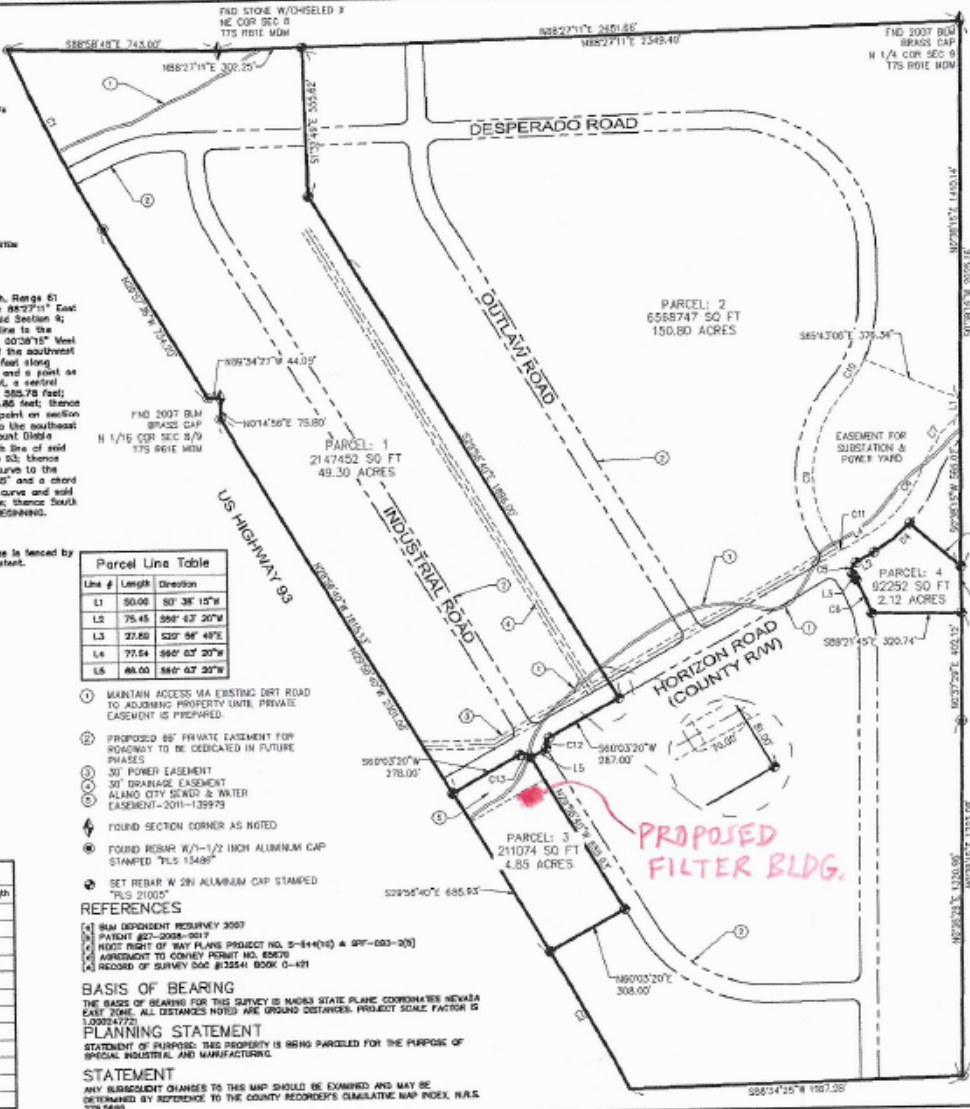
PLANNING STATEMENT

STATEMENT OF PURPOSE: THIS PROPERTY IS BEING PARCELED FOR THE PURPOSE OF SPECIAL INDUSTRIAL AND MANUFACTURING.

STATEMENT

ANY SUBSEQUENT CHANGES TO THIS MAP SHOULD BE EXAMINED AND MAY BE DETERMINED BY REFERENCE TO THE COUNTY RECORDER'S SIMILAR MAP INDEX, N.R.S. 278.5680

Curve #	Radius	Bearing	Length	Chord Direction	Chord Length
C1	8300.00	S10°42'20"	747.08	S55° 53' 16"E	746.46
C2	10500.00	S17°22'27"	585.86	N28° 17' 57"W	583.78
C3	633.00	S18°00'56"	187.33	S21° 02' 47"W	186.93
C4	30.11	S74°31'0"	44.25	S16° 58' 43"W	43.84
C5	833.00	S7°30'41"	66.43	S25° 37' 20"E	69.34
C6	833.00	S75°10'51"	595.33	S34° 49' 29"W	256.59
C7	467.26	S38°32'33"	305.13	S40° 28' 03"W	313.89
C8	467.26	S75°42'34"	572.90	S10° 10' 27"E	527.22
C9	833.00	S10°00'18"	148.87	S23° 17' 12"E	146.48
C10	30.00	S00°00'00"	47.78	N74° 56' 45"W	42.43
C11	30.00	S00°00'00"	47.78	S15° 02' 30"W	42.43
C12	30.00	S00°00'00"	47.78	N74° 56' 45"W	42.43
C13	30.00	S00°00'00"	47.78	N74° 56' 45"W	42.43



SURVEYOR'S CERTIFICATE

I, TERRY L. THOMAS, A PROFESSIONAL LAND SURVEYOR LICENSED BY THE STATE OF NEVADA, DO HEREBY CERTIFY THAT:
1. THIS PLAN REPRESENTS THE RESULTS OF A SURVEY CONDUCTED UNDER MY DIRECT SUPERVISION AT THE INSTANCE OF LINCOLN COUNTY.
2. THE LAND SURVEYED IS WITHIN SECTIONS 8 & 9, T7S R61E MDM AND THE SURVEY WAS COMPLETED ON AUGUST 15, 2008.
3. THIS PLAN COMPLIES WITH APPLICABLE STATE STATUTES AND ANY LOCAL ORDINANCES ON THE DATE THAT THE GOVERNING BODY GAVE ITS FINAL APPROVAL.
4. THE MONUMENTS ARE OF THE CHARACTER SHOWN AND OCCUPY THE POSITIONS INDICATED AND ARE OF SUFFICIENT NUMBER AND DURABILITY.

OWNER'S CERTIFICATE

We certify that we are the owners of the lands being divided with the boundary shown herein, consent to the preparation and recording of this final plat heretofore shown as "ALAMO INDUSTRIAL PLAT," and have caused the same to be surveyed and plotted as such, streets and easements on these lands and do hereby offer to dedicate to Lincoln County and its successors and assigns all public streets, public rights of way or easements of drainage or ditches, within the terms of County Commissioners may change in whole or in part of any day thereafter.

COUNTY COMMISSIONER _____ DATE _____
ACKNOWLEDGMENT
 STATE OF NEVADA _____
 COUNTY OF LINCOLN _____
 THIS INSTRUMENT WAS ACKNOWLEDGED BEFORE ME ON THIS _____ DAY OF _____ 20____
 BY _____ MY COMMISSION EXPIRES ON THE _____ DAY OF _____ 20____

LINCOLN COUNTY PLANNING COMMISSION APPROVAL
 THE COMMISSIONERS OF THE PLANNING AND COMPREHENSIVE PLANNING OF THE COUNTY OF LINCOLN, NEVADA, ON _____ DAY OF _____ 20____ DO APPROVE FOR THE PURPOSE OF EASEMENTS SHOWN FOR PUBLIC USE.
 DIRECTOR: LEO WARRIOR COMMISSIONER _____ DATE _____

LINCOLN COUNTY ASSESSOR
 I HEREBY CERTIFY THAT THE OWNERSHIP INFORMATION CONTAINED HEREON IS CORRECT AND THAT ALL CHANGES HAVE BEEN MADE.
 MARK HOYT, ASSESSOR _____ DATE _____

LINCOLN COUNTY TREASURER
 I HEREBY CERTIFY PURSUANT TO NRS 278.466 AND 278.468 THAT THE TAXES FOR FISCAL YEAR 2008-2009 ON THE PARCELS SHOWN W/1-1/2" HIGH ALUMINUM CAPS ACCESS TO LINCOLN COUNTY AS NOTED BY PATENT NO. 21-2008-0017, DATED APRIL 15, 2008, ARE PAID IN FULL.
 SHAWN PERKINS, TREASURER _____ DATE _____

LINCOLN COUNTY RECORDER
 I HEREBY CERTIFY PURSUANT TO NRS 278.047 AND 278.048 THAT THE MAP HAS BEEN RECORDED WITHIN ONE YEAR OF THE ALAMO DEPARTMENT OF PUBLIC WORKS IS RECEIVED IN AN ACCEPTABLE FORMAT FOR RECORDING, THE TREASURER'S SIGNATURE AND DATE IS WITHIN THE MAP AND YEAR AS THE RECORDING DATE, AND ALL FEES AND TAXES HAVE BEEN PAID FOR THE RECORDATION OF THIS DOCUMENT.
 MARY ELLEN REICHERT _____ DATE _____

SCALE
HORIZ. 1" = 200'

SUNRISE ENGINEERING
 1335 GARDNER W. HORNE, SUITE 140
 NORTH LAS VEGAS, NV 89102
 TEL: 702-333-0000
 WWW.SUNRISE-ENG.COM

PARCEL MAP
 LINCOLN COUNTY
 ALAMO INDUSTRIAL PARK
 IN SEC 8 & 9 T7S R61E MDM
 BY AND FOR COUNTY COMMISSIONER _____ DATE _____
 COUNTY RECORDER _____ DATE _____
08-007

Alamo Sewer and Water GID (NV0000005)

Arsenic Treatment Using Adsorptive Media



Preliminary determination for ER needs for water project:

- No new or significant ground disturbance & work within current facility premises
- Potentially CATEX eligible



- Safe drinking water meeting community reservations against Chlorination



- Engineer's estimated cost \$1,706,960
- Looked at Ion Exchange and Oxidation coagulation/filtration technology
- Proposed project addresses concerns of ability to sustainably operate PWS
- Management experienced with SRF projects
- No new technical & managerial capacity required;



Ready to proceed

- Design: February 2021
- Bids March; Done by October 2022

Alamo Sewer and Water GID

Arsenic
Treatment
Using
Adsorptive
Media

\$1,000,000 Principal Forgiveness Loan

\$693,026 Capital Improvement Grant

\$13,934 local match

\$1,706,960 Project cost

System is addressing a chronic health condition with this project and therefore, eligible to receive up to \$1,000,000 in principal forgiveness funding.

System is eligible to receive up to 40.6% of the total project costs as grant funds per the Board's current policy.

- Financial information provided demonstrates financial capacity for the system
- System is generating enough revenue to cover operations and maintenance.



Greg Lovato
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Project #10

*Las Vegas Valley Water District,
Big Bend Water District
Systemwide Upgrades*



Nevada Department of
**CONSERVATION &
NATURAL RESOURCES**

Big Bend, LVVWD, Nevada



Colorado River Heritage Greenway Park and Trails

Sunrise Adventures Ridgeview Resort

Big Bend Water District

IHOP

Laughlin

Sam's Club

Aquarius Casino Resort

The Home Depot

Findlay Chevy Buick GMC

Laughlin Outlet Center

Edgewater Casino Resort

L & M Food Services

In-N-Out Burger

Tropicana Laughlin

NEVADA ARIZONA

Google

Las Vegas Valley Water District

Big Bend

Publicly Owned Community PWS, part of Big Bend Water District/GID
Town of Ruth

- 2,188 total connections/2,300 customer accounts (9,000 population)



- ICCP system or raw water intake structure & bond raw water pipeline for cathodic protection;
- Rehabilitate 1130 zone water tank
- HVAC replacement for ozone generator room
- Upgrade pumping station motor control centers and appurtenances

Priority list Rank #14



- Long pending project
- Feasible project to be able to avail SRF funding support within LVVWD

- More than 60 miles distribution pipelines
- 6 pumping stations
- Five water storage reservoirs
- All water supplied is sourced from Colorado River using River Intake Facility



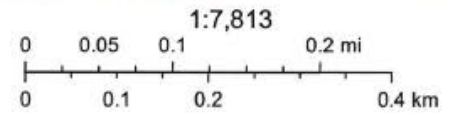
- Engaged and motivated Community
- Extensive planning and BPT based project selection
- 2017 – 9-member Citizen advisory Committee authorized to propose projects & December 2017 Board adopted recommendations to seek SRF loan /funding support

1130 Zone Tank Map

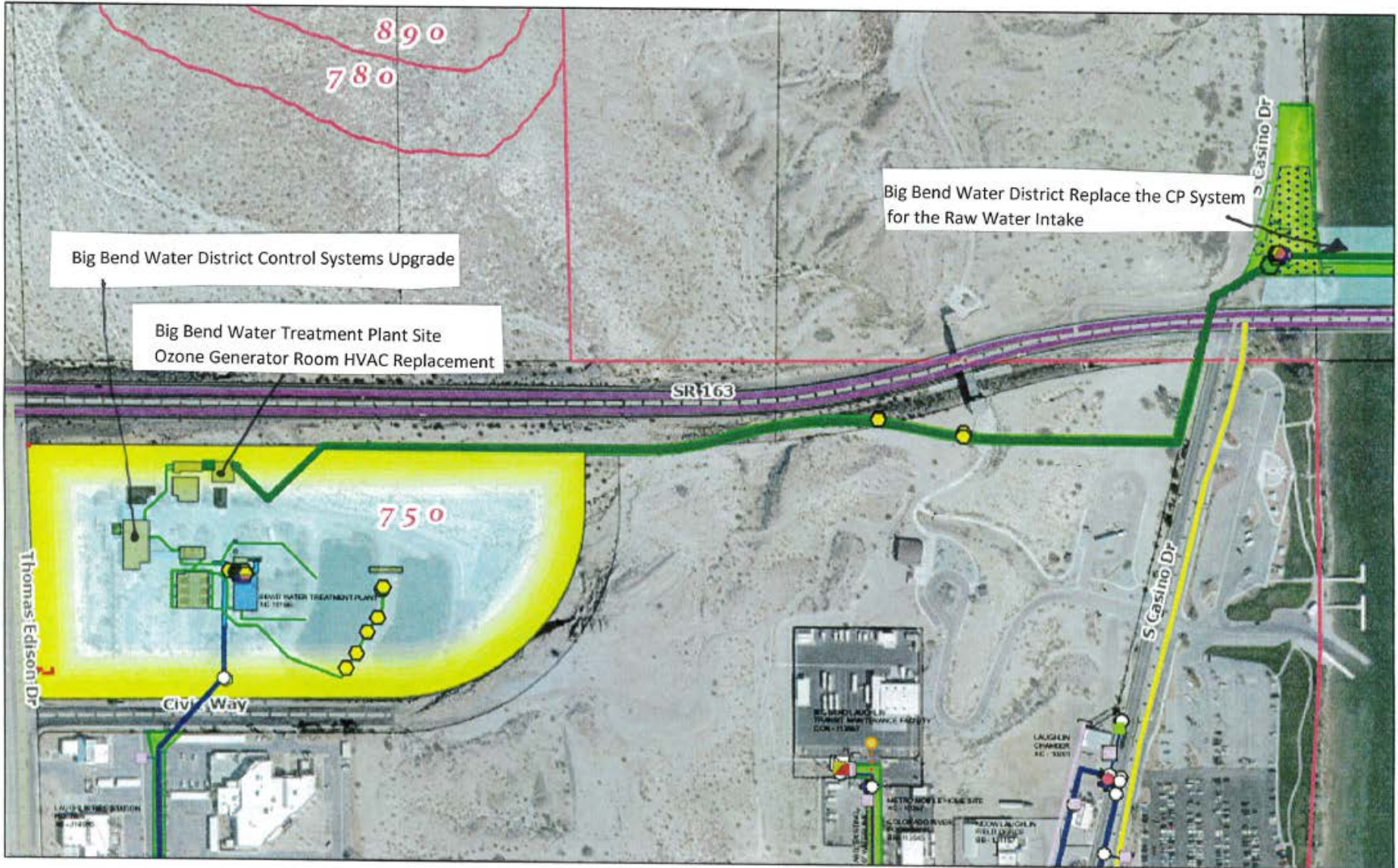


May 13, 2020

- | | | | | |
|----------------------|---------------------|----------------|--------------|---------|
| Pressure Zone Label | Domestic Commercial | Combined Valve | Closed Valve | Hydrant |
| Service Point | Fireline | AVAR | PRV | Active |
| Domestic Residential | Irrigation | Zone Valve | Abandoned | Hydrant |
| | | | | Reducer |

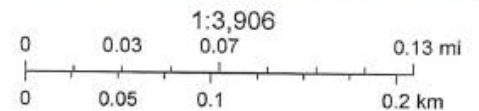


Big Bend Water Treatment Plant



May 13, 2020

- | | | | | | |
|---------------------|------------|---------------|--------------|----------|-------------|
| Pressure Zone Label | Fireline | Unknown Valve | Abandoned | Reducer | End of Main |
| Service Point | Irrigation | AVAR | Closed Valve | Blow Off | Backflow |
| Domestic Commercial | Combined | Active | Hydrant | Hydrant | Low Point |

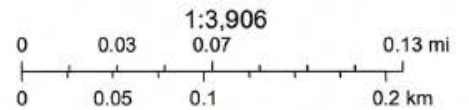


Casino Drive Pumping Station



May 13, 2020

- | | | | | |
|---------------------|---------------------|------------|---------|-----------|
| Pressure Zone Label | Unknown | Valve | Hydrant | Blow Off |
| Service Point | AVAR | Zone Valve | Hydrant | Low Point |
| | Domestic Commercial | Active | Reducer | Backflow |



Las Vegas Valley Water District (Big Bend)

System-wide Rehabilitation Works



Preliminary determination for ER needs for water project:

- No new ground disturbance & work at existing facility premises or easements
- CATEX eligible



- Helps reestablish Ruth PWS Capacity & self-sustainable goals for the community



- Engineer's estimated cost \$1,500,000;
- Fair attempts to consider reasonable alternatives ;
- No outstanding compliance issues;
- Management experienced with SRF projects
- No new technical & managerial capacity required;



Ready to proceed

- Design: January 2021
- Work tentatively will complete by April 2022

A blue scroll graphic with rounded corners and a shadow, containing text. The scroll is oriented vertically and has a slight curve at the top and bottom.

Las Vegas Valley Water District (Big Bend)

System-wide Rehabilitation Works

\$1,000,000 Principal Forgiveness Loan

\$500,000 Capital Improvement Grant

\$1,500,000 Project cost

System is designated disadvantaged and therefore, qualifies for up to \$1,000,000 in principal forgiveness funding.

System is eligible to receive up to 71% of the total project costs as grant funds per the Board's current policy.

- Financial information provided demonstrates financial capacity for the system
- System is generating enough revenue to cover operations, maintenance, debt service and reserve requirements.



Greg Lovato
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*Deputy
Administrator*

Jeffrey Kinder
*Deputy
Administrator*

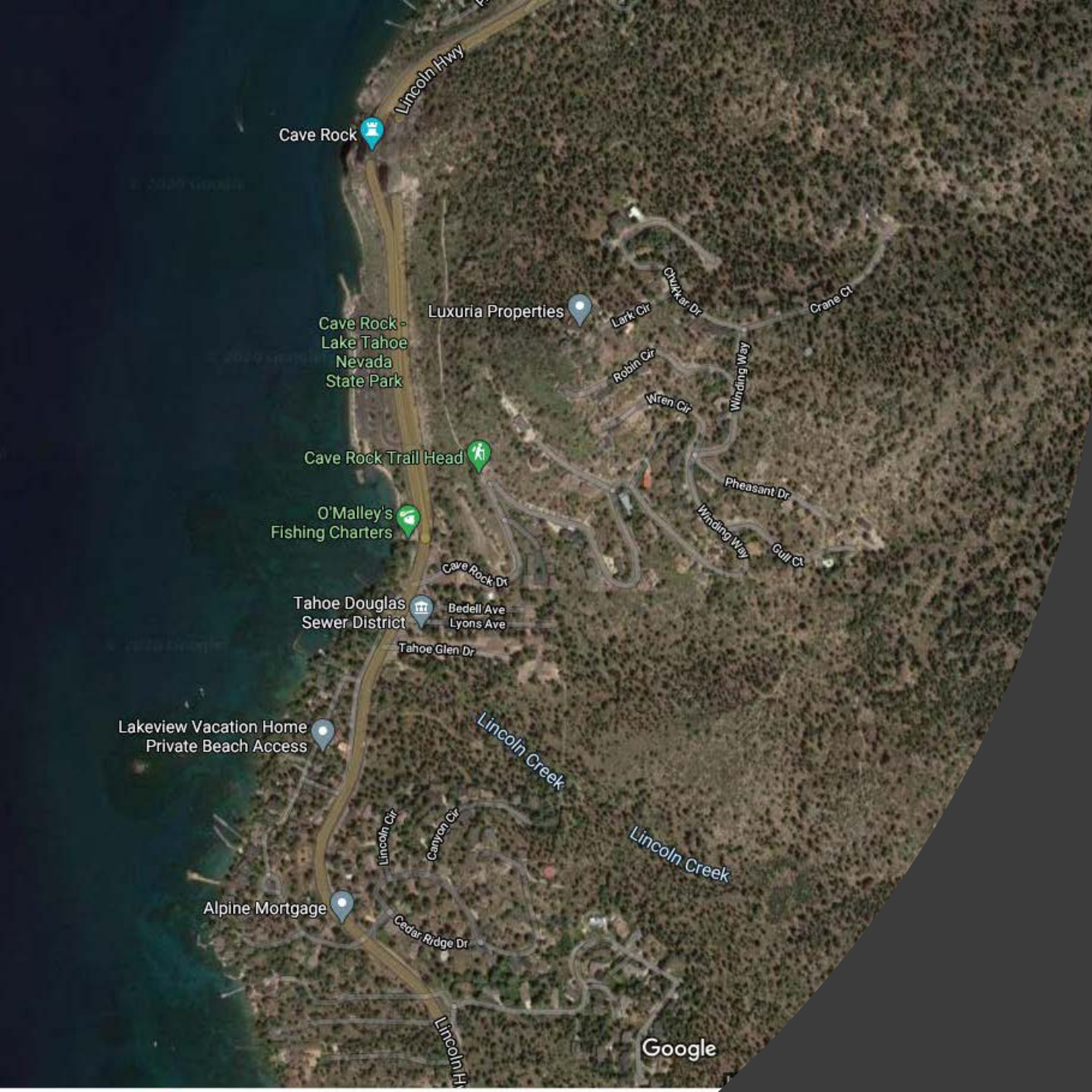
Rick Perdomo
*Deputy
Administrator*

Project #11

Douglas County Cave Rock Skyland PWS Systemwide upgrades



Nevada Department of
**CONSERVATION &
NATURAL RESOURCES**



Douglas County Cave Rock Skyland

Douglas County

Cave Rock - Skyland Public Water System

Publicly Owned Community PWS

- 2,800 population served)
- 1,085 service connections



- Replace 15,500' pipeline
- Water Treatment Plant Redundancy
- Modify Lake Intake

Priority list Rank #21

- Lake Intake
- Preliminary Engineering Study (2017 onwards)
- 750 gpm As treatment plant
- 3-storage tanks (198k Lower Cave Rock, 216k Upper Cave Rock, and 850 k Skyland tank
- Two significant deficiencies identified in 2015 (water intake and distribution system)
- 2008 water conservation plan and 2015 Master Plan
- TRPA



- Careful consideration and prioritization
- Value Engineering CMAR & 3 GMPs



- Motivated Community
- County planning March 2017 onwards
- Board approved SRF loan application & Debt Management Commission Met in December as well

APE:

CELL BOUNDARY FOR
WATER TREATMENT
PLANT UPGRADE
INTERNAL EXTERNAL WORK

Cave Rock Skyland Water Treatment Plant



CAVE ROCK WATER TREATMENT PLANT

BEDELL WY

LYONS AV

TAHOE GLEN DR

HWY 50



PROJECT MANAGER:	FIRST LAST	DESIGNED BY:	FIRST LAST	CHECKED BY:	FIRST LAST	DRAWN BY:	FIRST LAST	DATE:	MONTH DATE, YEAR	PROJECT NUMBER:	00000
ISSUE:	DATE:	DESCRIPTION:									

PROJECT NAME AND LOGO:

CAVE ROCK WATER SYSTEM
WATER TREATMENT PLANT
UPGRADE

SHEET:		TREATMENT PLANT APE	
FILE NAME:		SCALE:	1:40

APE:

TRENCH FOR PIPELINE
WORK WITHIN RIGHT-OF-
WAY

CONTACTS ASPHALT PAVING

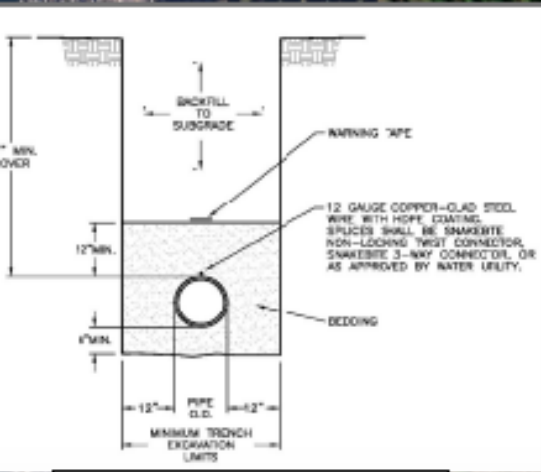
Lincoln Highway Pipeline Replacement



			PROJECT MANAGER:	FIRSTLAST	RESTAMP:
			DESIGNED BY:	FIRSTLAST	
			CHECKED BY:	FIRSTLAST	
			DRAWN BY:	FIRSTLAST	
			DATE:	MONTH DATE, YEAR	
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER:	XXXX	

PROJECT NAME AND LOGO:
CAVE ROCK WATER SYSTEM LINCOLN HIGHWAY PIPELINE REPLACEMENT

SHEET:	LINCOLN HWY PIPELINE APE
FILE NAME:	
SCALE:	1:40



**DOUGLAS COUNTY
TRENCH RESTORATION
DETAIL B06**

Cave Rock Pipeline Replacement

APE:
 3-FOOT TRENCH FOR PIPEL
 ALL WORK WITHIN RIGHT-OF-WAY OR UTILITY EASEMENT
 IMPACTS ASPHALT PAVIN

		PROJECT NUMBER	FIRST LEGT	LAST LEG	PROJECT NUMBER	DATE				
		DRAWN BY	FIRST LEGT		CAVE ROCK WATER SYSTEM PIPELINE REPLACEMENT	<table border="1"> <tr> <td>DATE</td> <td>BY</td> </tr> <tr> <td></td> <td></td> </tr> </table>	DATE	BY		
	DATE	BY								
		CHECKED BY	FIRST LEGT							
		DATE	FIRST LEGT							
	DATE	PROJECT NUMBER	00000							

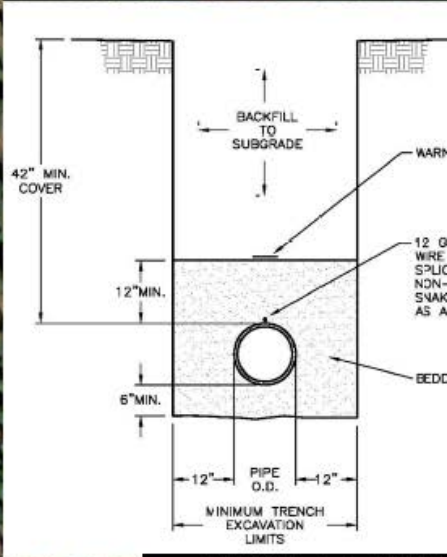


APE:

HIDDEN WOODS PIPELINE
IMPROVEMENTS
LAKERIDGE WATER BOOSTER
STATION IMPROVEMENTS

WORK CONFINED TO RIGHT-OF-WAY
OR
BOOSTER PUMP STATION

IMPACTS ASPHALT



**DOUGLAS COUNTY
TRENCH RESTORATION
DETAIL B06**

	PROJECT MANAGER:	FIRSTLAST	FE STAMP:	PROJECT NAME AND LOCATION: CAVE ROCK WATER SYSTEM- HIDDEN WOODS PIPELINE LAKERIDGE WATER BOOSTER STATION IMPROVEMENTS	SHEET: HIDDEN
	DESIGNED BY:	FIRSTLAST			
	CHECKED BY:	FIRSTLAST			
	DRAWN BY:	FIRSTLAST			
	DATE:	MONTH DATE, YEAR			
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER:	XXXXX	SCALE: SC



WATER INTAKE PUMP STATION

APE:

**CAVE ROCK WATER SYSTEM
WATER INTAKE PUMP STATION**

**WORK CONFINED TO INSIDE PUMP
STATION
AND SUBMERGED INTAKE LINE**



PROJECT MANAGER:	FIRST LAST	PE STAMP:
DESIGNED BY:	FIRST LAST	
CHECKED BY:	FIRST LAST	
DRAWN BY:	FIRST LAST	
DATE:	MO NTH DATE, YEAR	
PROJECT NUMBER:	XXXXXX	
ISSUE	DATE	DESCRIPTION

PROJECT NAME AND LOGO:

**CAVE ROCK WATER SYSTEM-
WATER INTAKE PUMP STATION
IMPROVEMENTS**

SHEET:		CAVE ROCK WATER INTAKE PUMP STATION APE
FILE NAME:		SHEET:
SCALE:	1:40	

Douglas County

(NV0000259)

Cave Rock Skyland Water Service Area 3-phase systemwide upgrades



Preliminary determination for ER needs for water project:

- No known cultural and historic resources of concern within APE
- TRPA
- FONSI eligible



- Addresses high priority projects
- Balancing resources and needs



- Engineer's estimated cost \$18,000,000
- Proposed project addresses concerns over ability to sustainably operate PWS long-term;
- Management experienced with SRF projects
- No new technical & managerial capacity required;



Ready to proceed

- Design: 2020-21
- First Contract -2021;
- Initiation of operations by 2021

Estimated Project Schedule

CMAR & 3 GMP packages

Design: October 2020 to December 2021

Contract Award: February 2021 to March 2022

Construction Start: February 2021 to March 2022

Construction Complete/Initiation of Operations -
November 2021 to September 2023

Douglas County

Cave Rock
Skyland Water
Service Area
3-phase
systemwide
upgrades

\$16,250,000 Traditional 20-year Loan

\$250,000 Principal Forgiveness Loan

\$1,000,000 Local funding

\$500,000 U.S. Forest Service Grant

\$18,000,000 Project cost

System is seeking a traditional loan of more than \$2 million, has submitted a complete application and is ready to proceed.

- Financial information provided demonstrates financial capacity for the system
- System is generating enough revenue to cover operations, maintenance, debt service and reserve requirements.



Greg Lovato
Administrator

Jennifer Carr
*Deputy
Administrator*

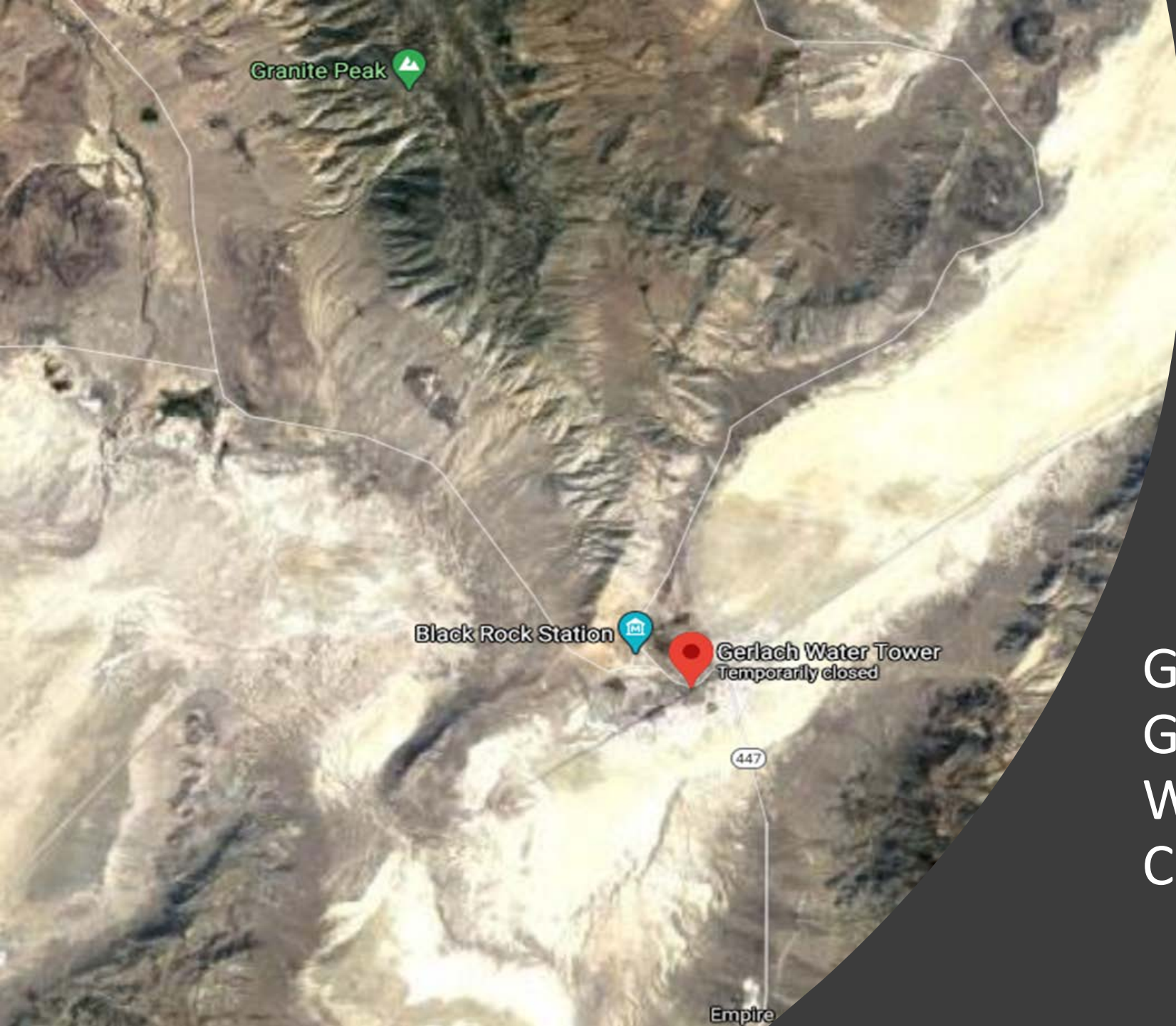
Jeffrey Kinder
*Deputy
Administrator*

Rick Perdomo
*Deputy
Administrator*



Nevada Department of
**CONSERVATION &
NATURAL RESOURCES**

Project #12 Gerlach GID Transmission line Appurtenances Rehabilitation



Granite Peak



Black Rock Station



Gerlach Water Tower
Temporarily closed

447

Empire

Gerlach
GID,
Washoe
County

Washoe County Gerlach GID Public Water System

Publicly Owned Community PWS, part of Gerlach GID

- 151 total connections (120 residents)
- Water meters are 20 years old

Priority list Rank #56

- 2 Mountain Springs & 3 Spring Vaults to collect water
- 3 Storage Tanks (105k, 150k, & 300k)
- Water Conservation Plan in 2014
- No significant deficiencies (BSDW 2015)
- Corrected in 2019 but became non-source soon as water levels receded



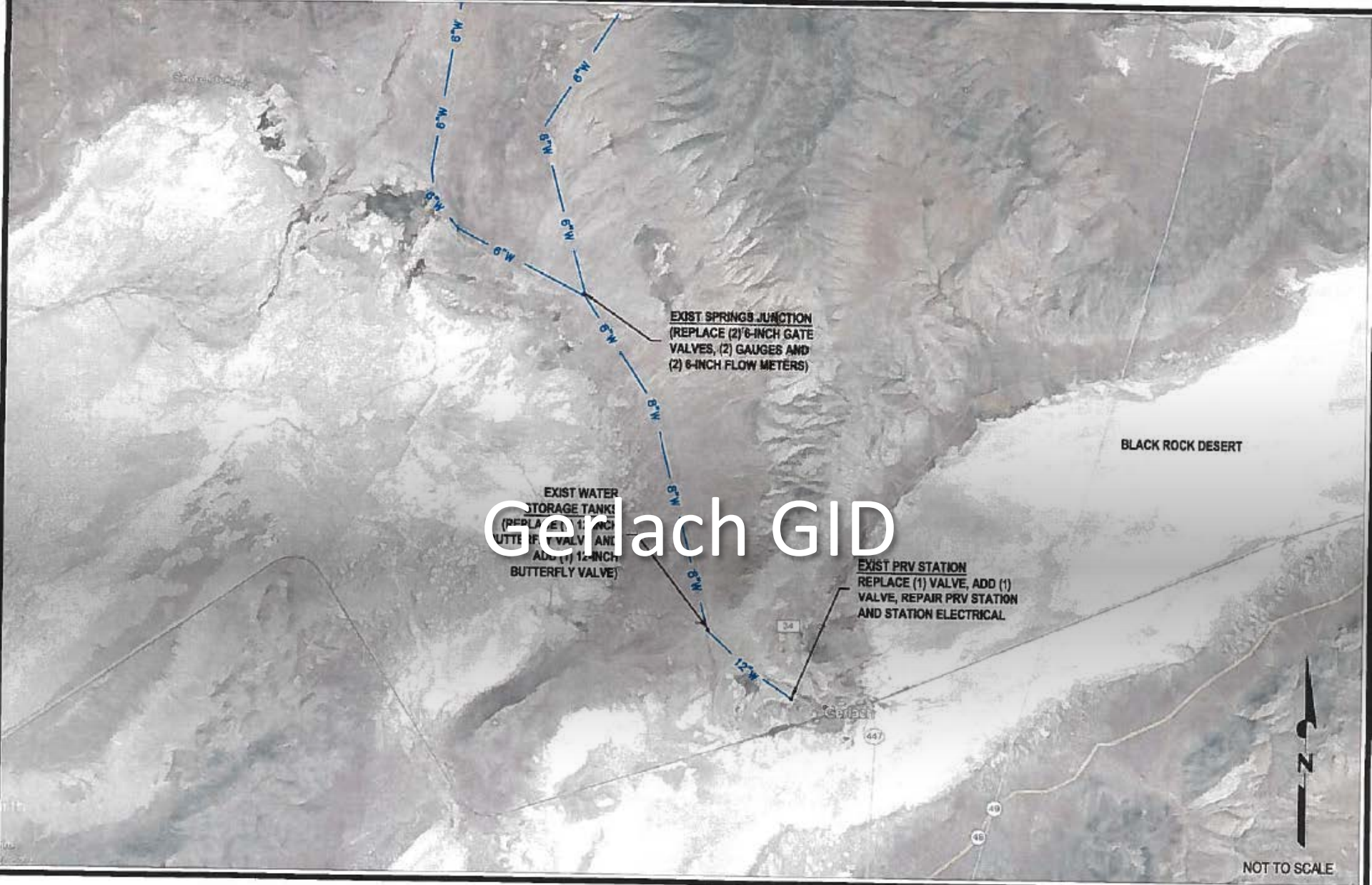
- Replace Pressure relief valve system
- Several gate valves, rebuild two pressure reducing valves
- Install electrical service to building that houses pressure relive system



- Long pending project
- No action alternative is not feasible



- Motivated Community
- July 2020 –Board of Trustees letter supporting SRF loan application
- Gerlach PW Supervisor is authorized to sign



Gerlach GID

EXIST WATER STORAGE TANKS
(REPLACE (1) 12-INCH BUTTERFLY VALVE AND ADD (1) 12-INCH BUTTERFLY VALVE)

EXIST SPRINGS JUNCTION
(REPLACE (2) 6-INCH GATE VALVES, (2) GAUGES AND (2) 6-INCH FLOW METERS)

EXIST PRV STATION
REPLACE (1) VALVE, ADD (1) VALVE, REPAIR PRV STATION AND STATION ELECTRICAL

BLACK ROCK DESERT



NOT TO SCALE



PROJECTS SITE MAP
GERLACH GID
SRF APPLICATION



Gerlach

GID

(NV0000071)

Transmission
Line
Appurtenances
&
Rehabilitation



Preliminary determination for ER needs for water project:

No new ground disturbance & work within or along existing pipeline

- Potentially eligible for CATEX



- Helps improve capacity
- Facilitates emergency shutdown during emergencies
- Monitor inline water quality and flow



- Engineer's estimated cost \$145,000;
- No reasonable scope for alternatives ;
- No outstanding compliance issues;
- Management experienced with SRF projects



- No new technical & managerial capacity required;

Ready to proceed

- Contract: March 2021
- Work tentatively will complete by July 2022

Gerlach GID

Transmission Line Appurtenances & Rehabilitation

\$128,000 Principal Forgiveness Loan

\$17,000 Local funding

\$145,000 Project cost

System is designated disadvantaged and therefore, qualifies for up to \$1,000,000 in principal forgiveness funding.

- Financial information provided demonstrates financial capacity for the system
- System is generating enough revenue to cover operations, maintenance, debt service and reserve requirements.



Greg Lovato
Administrator

Jennifer Carr
*Deputy
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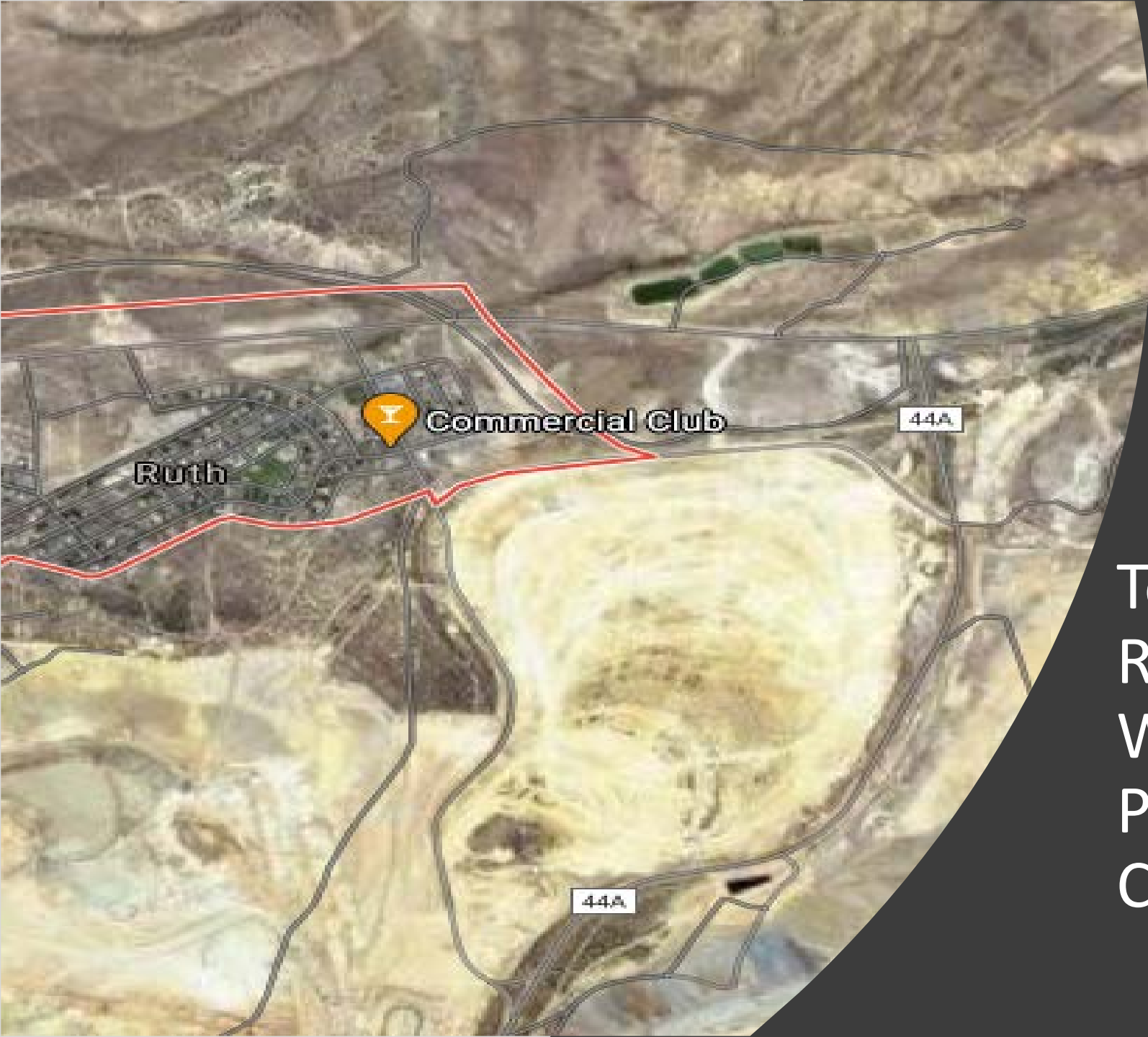
Jeffrey Kinder
*Deputy
Administrator*

Rick Perdomo
*Deputy
Administrator*

*Project #13
McGill Ruth Consolidated
Sewer & Water GID
Ruth Storage Tank Repairs*



Nevada Department of
**CONSERVATION &
NATURAL RESOURCES**



Ruth



Commercial Club

44A

44A

Town of
Ruth –
White
Pine
County



Ruth Tank

White Pine County McGill Ruth Public Water System

Publicly Owned Community PWS, part of GID
Town of Ruth

- 285 total connections (440 residents)



Priority list Rank #72

- 2 Springs operated by McGill and 18-mile pipeline belongs to Ruth
- Currently buys water from City of Ely
- Ely Intertie – 7-mile pipeline from Murray Canyon
- Water Conservation Plan in 2011
- Needs redundant water supply (BSDW 2013)
- Corrected in 2019 but became non-source soon as water levels receded



- Replace Corroded Steel in the Tank;
- Add a Water Circulator;
- Sandblast & repaint the tank
- Reestablish independent Ruth PWS Capacity & Reduce Costs
- This is the missing piece to go with the current ongoing new water source exploration efforts also funded by SRF Board
- Motivated Community
- GID has been doing groundwork for a while
- Modified and renewed lease with Robinson Mine – March 2020
- July 2020 –Board approved SRF loan application

McGill Ruth Consolidated Sewer & Water GID

(NV000163 & 164)

Ruth Storage Tank Rehabilitation



Preliminary determination for ER needs for water project:

- No ground disturbance & work at existing Ruth Tank
- CATEX eligible



- Helps reestablish Ruth PWS Capacity & self-sustainable goals for the community



- Engineer's estimated cost \$543,750;
- repair needs have no reasonable alternatives ;
- No outstanding compliance issues;
- Management experienced with SRF projects
- No new technical & managerial capacity required;



Ready to proceed

- Contract: February 2021
- Work tentatively will complete by February 2022

McGill-Ruth Consolidated Sewer & Water GID

Ruth Storage Tank Rehabilitation

\$433,750 Principal Forgiveness Loan

\$110,000 Local funding

\$543,750 Project cost

System qualified for principal forgiveness funding based on Ruth's economic conditions and the project addressing their only source of storage.

- Financial information provided demonstrates financial capacity for the system
- System is generating enough revenue to cover operations, maintenance, debt service and reserve requirements.



Greg Lovato
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*Deputy
Administrator*

Jeffrey Kinder
*Deputy
Administrator*

Rick Perdomo
*Deputy
Administrator*

Project #14 Esmeralda County

*Town of Goldfield & Silver Peak–
Esmeralda County – Systemwide
Radio Read Meter Installations*



Nevada Department of
**CONSERVATION &
NATURAL RESOURCES**



Silver Peak and Goldfield,
Esmeralda County, NV

Esmeralda County Goldfield & Silver Peak Water Systems

Publicly Owned Community PWSs

Goldfield water system

- 315 total connections (375 residents)
- Water meters are 20 years old

Silver Peak water system

- 108 total connections (111 residents)
- Water meters are 20 years old

Priority list Rank #63 and #77

- 2 GW wells each – 300 AFY each
- 4"-8" PVC
- BSDW notes lack of secondary containment for chlorine tank for Silver Peak PWS
- Permits were issued in July 2020



- Needs 450 meters for radio read;
- Software and hardware to maintain;
- Training



- Ease and safe operations
- Better water auditing leads to Water Conservation & Reduce costs
- Current estimates ->meters lost accuracy by 20%



- Motivated Board
- Has been doing groundwork for a while
- Currently adopting water use regulations

Goldfield & Silver Peak

(NV000072 &
NV000363)

Radio Read Meter Installation



Preliminary determination for ER needs for water project:

- No ground disturbance & work at existing meter boards
- CATEX eligible



- To improve water conservation;
- Improved worker safety and efficiency of data collection
- Reduced costs



- Engineer's estimated cost \$366,118 ;
- No outstanding compliance issues;
- Current workforce to install and minimal need for new hires;
- No new technical capacity required;



Ready to proceed

- Contract: August 2021
- Work to start in September 2021

Esmeralda County

Radio Read Meter Installation

\$366,118 Principal Forgiveness Loan

\$366,118 Project cost

System is designated disadvantaged and therefore, qualifies for up to \$1,000,000 in principal forgiveness funding.

- Financial information provided demonstrates financial capacity for the system
- System is generating enough revenue to cover operations, maintenance, debt service and reserve requirements.

Scale to determine Grant Amount

NRS 349.983(3)

- ✓ The Board shall develop a scale to be used to determine that amount, but the recipient must not be required to provide an amount less than 15 percent or more than 75 percent of the total cost of the project for which the grant is awarded.
- ✓ The scale must be based upon the average household income of the customers of the recipient,
- ✓ And provide adjustments for the demonstrated economic hardship of those customers,
- ✓ the existence of an imminent risk to public health,
- ✓ and any other factor that the Board determines to be relevant.

No recommended changes

Project Need	Possible Points	Community Points
Acute health concern per current Drinking Water State Revolving Fund Loan (SRF) priority list.	15	
Chronic health concern per current SRF priority list.	10	
System condition per current SRF priority list.	5	
Project Points		0

Persons Regularly Served per Bureau of Safe Drinking Water Information System	Possible Points	Community Points
Fewer than 500	25	
500 - 999	15	
1000 - 1999	8	
2000 - 3999	4	
4000 - 5999	2	
6000 and above	0	
Project Points		0

Recommended Updates

Community Need for State Assistance	Possible Points	Community Points
State Mean Household Income/Public Water Supply Mean Household Income, recent income survey or most recent US census:		
1.75 or more (very low income)	70	
1.60 – 1.74	50	
1.45 – 1.59	30	
1.30 – 1.44	20	
1.15 – 1.29	10	
1.00 – 1.14	0	
Project Points		0

Average = Mean household income (2019 ACS Nevada: \$77,319)

Middle = Median household income (2019 ACS Nevada: \$57,598)

Recommended Updates

Adopted Sufficient Residential Water Rate	Possible Points	Community Points
Sufficient rate is below 1.5% of the communities Median Household Income	0	
Sufficient rate is 1.5% to 2.0% of the communities Median Household Income	15	
Sufficient rate is above 2.0% of the communities Median Household Income	25	
Project Points		0

- Remove Property Tax Rate. Allocate points to monthly residential water rate.
- Gives more points to a system that has a high sufficient rate.

Recommended Updates

Other Factors	Possible Points	Community Points
Approved, up-to-date Operations and Maintenance Manuals, Cross-Connection Control Plans, and Emergency Response Plans	5	
Approved, up-to-date Water Conservation Plan	3	
Approved, up-to-date source water protection program in place	5	
Asset management plan and/or fiscal sustainability plan in place and updated within the last five (5) years	15	
Applicant has obtained alternate funding up to the maximum extent possible	15	
Project Points		0

- Removes project management and system funding requirements.
- Encourages pre-planning and responsible operations.

Recommended Updates

Deductions	Possible Points	Community Points
Applicant has not committed to adequately funding a capital replacement fund	-30	
Second home/vacation homes account for >30% of connections	-30	
Applicant did not demonstrate adequate project management or project oversight on prior grant that reduced project delays and cost over-runs.	-25	
Applicant failed to timely submit required financial reports, draw requests, and progress reports for prior grant project	-10	
Opportunity for local or alternate funding not utilized	-30	
Project Points		0

- “at or above” State median household income removed

Project Details					Existing Scale		Revised Scale		Effect of Revision	
County Location	Population Served	Mean Household Income	Median Household Income	Project Cost Estimate						
White Pine	700	56,245.00	66,818.00	\$1,000,000.00	55%	\$550,000.00	55%	\$550,000.00	0.0%	\$0.00
Churchill	750	65,350.00	51,514.00	\$1,000,000.00	49%	\$490,000.00	52%	\$522,000.00	3.2%	\$32,000.00
Lincoln	900	55,234.00	56,875.00	\$1,000,000.00	41%	\$406,000.00	38%	\$382,000.00	-2.4%	-\$24,000.00
Pershing	5,278	50,417.00	41,696.00	\$1,000,000.00	60%	\$598,000.00	55%	\$550,000.00	-4.8%	-\$48,000.00
Clark	9,300	44,783.00	33,851.00	\$1,000,000.00	71%	\$714,000.00	74%	\$742,000.00	2.8%	\$28,000.00

Nevada

77,319.00 57,598.00