



NEVADA DIVISION OF
**ENVIRONMENTAL
PROTECTION**



Board for Financing Water Projects

December 6, 2022

9:00 AM

Location:

The Richard H. Bryan Building

Tahoe Hearing Room

901 South Stewart Street, 2nd Floor

Carson City, NV 89701

To Access Virtually

Microsoft TEAMS

Meeting ID: 250 154 648 609; Passcode: wG6jZX

Call in from Mobile/Phone (audio only): 1-775-321-6111

Meeting extension: 903761604#



Greg Lovato
Administrator

Jennifer Carr
*Deputy
Administrator*

Jeffrey Kinder
*Deputy
Administrator*

Rick Perdomo
*Deputy
Administrator*

James R. Lawrence
Acting Director



Agenda 2:

Introductions



Greg Lovato
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Jennifer Carr
*Deputy
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Jeffrey Kinder
*Deputy
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Rick Perdomo
*Deputy
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James R. Lawrence
Acting Director



Nevada Department of
**CONSERVATION &
NATURAL RESOURCES**

Agenda 3:

Public Comment



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Agenda 4:

Approval of October 5, 2022 Board meeting minutes

Drinking Water funding update

as of November 17, 2022

Cash in fund	\$80,708,366
Less debt service reserves	\$(6,005,263)
Add undrawn grant balance	4,142,303
Available for projects	\$78,845,406
Committed funds not yet disbursed	21,356,200
Add commitments for Board consideration	5,011,500
Total committed funds after Board approval	26,367,700
Add projects in discussion with NDEP-OFA	60,463,021
Total committed and potential project loans	
Lowest cash flow balance in three (3) years	\$78,508,859

Drinking Water Cash Flow Projections¹

as of November 17, 2022

	Year 1	Year 2	Year 3
Cash balance forward	\$79,947,863	\$97,973,087	\$98,412,809
Receipts from grants awarded (base)	4,309,730	8,798,880	8,798,880
Receipts from Infrastructure Grant awarded (BIL funding) ²	16,234,140	16,650,400	17,955,000
Transfer to the CWSRF program ³	0	(30,000,000)	0
Receipts from bonds issued	6,000,975	5,000,000	5,000,000
Receipts from treasurer's interest ⁴	1,433,696	1,995,646	2,255,956
Receipts from loan principal	13,595,253	13,745,873	14,262,005
Receipts from loan interest	3,712,597	3,514,473	3,169,637
Payments for debt service on bonds	(3,209,150)	(3,045,025)	(2,960,238)
Payments for loan recipients ⁵	(23,880,292)	(17,428,863)	(9,229,950)
Change in debt service reserves	(173,725)	1,208,338	(1,562,913)
Cash balance forward	\$97,973,087	\$98,412,809	\$136,101,186

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

²BIL funding does not include grants for emerging contaminants or lead service line replacement.

³Transfer to CWSRF is dependent upon budget approval, EPA consent, and program demand

⁴Estimated at 2.0% A.P.R. on undisbursed cash in the fund. Subject to change.

⁵Includes loans not yet approved by the Board for Financing Water Projects

Drinking Water funding update

as of November 17, 2022

Current funds to obligate for principal forgiveness loans		\$5,823,553
Less projects for board consideration	\$4,461,500	
Less projects in discussion for funding	\$1,362,530	
Available funds to obligate for principal forgiveness loans after board meeting	\$0	
Available from the 2022 BIL Supplemental Grant (Application in October with funding in Spring 2023)		\$10,198,370

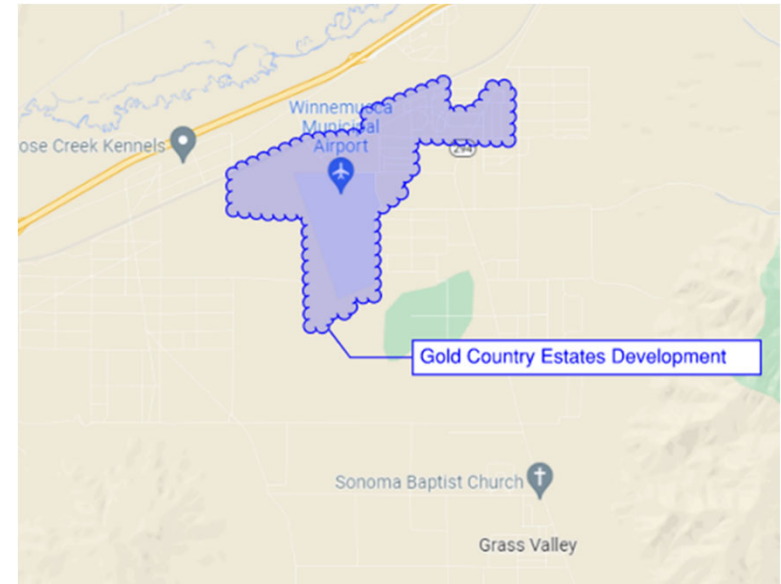
Capital Improvements Grant funding update

as of November 17, 2022

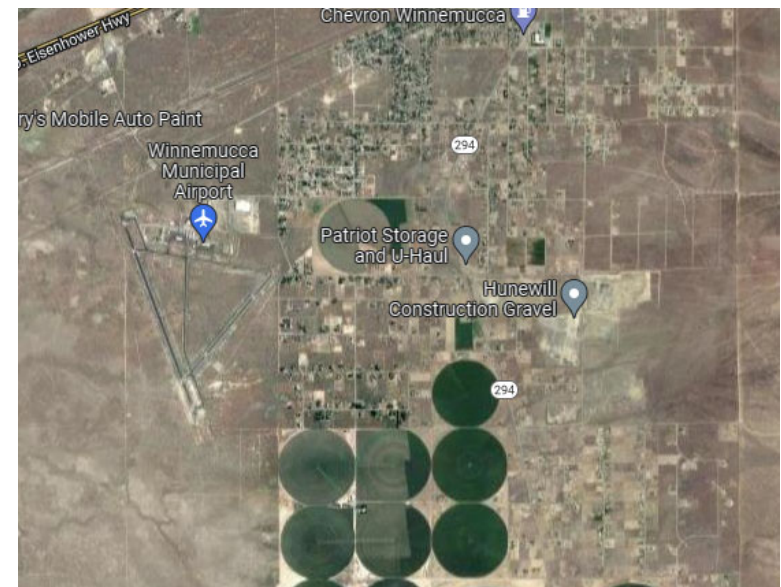
Current Cash	\$9,761,719.75
Reserved for Administration	\$29,511.40
Committed funds not yet disbursed	\$9,686,769.95
Projects for Consideration:	\$0
Un-committed funds:	\$245,346.24 ¹

¹ Includes estimated bond interest earnings for the next 12 months

Humboldt County– Gold Country Water System – Consolidation and New Well

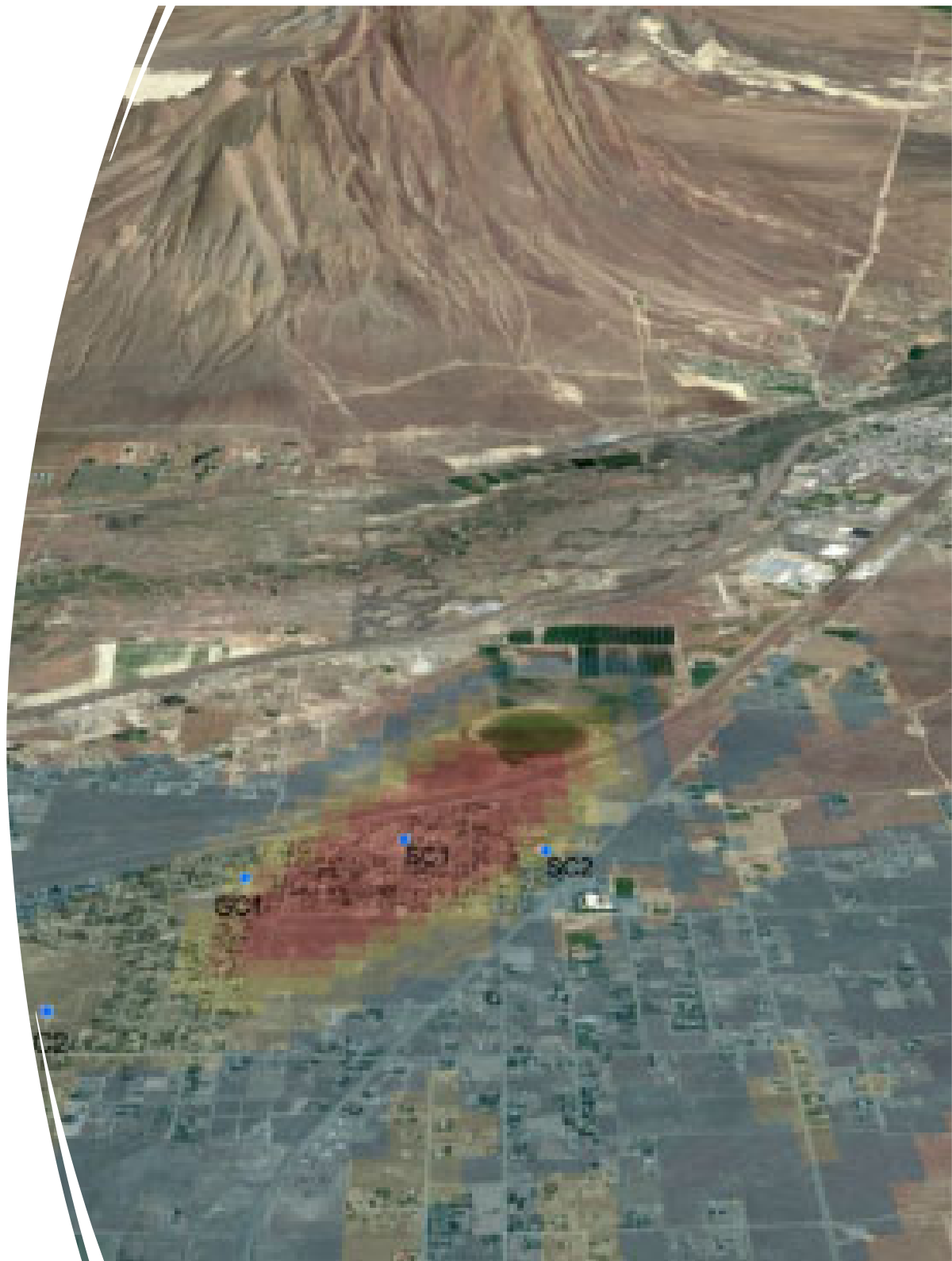


Gold Country Estates is a small community in Humboldt County, in Grass Valley adjacent to Winnemucca, with an approximate population of 1,630.



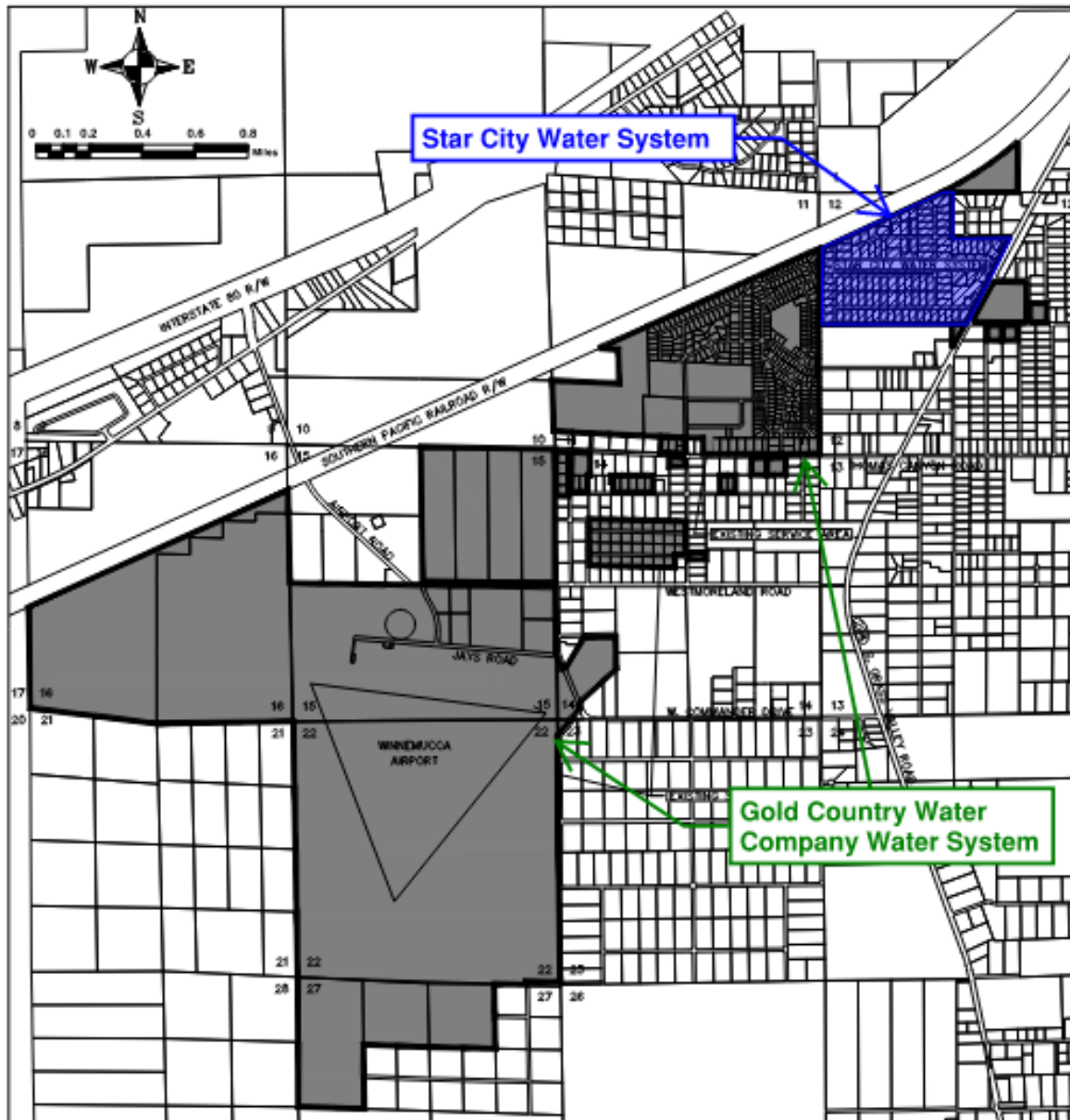
Water System Needs

The Gold Country water system has struggled with high nitrate concentration levels and compliance with drinking water standards.



Proposed Project

Component #1-Consolidation

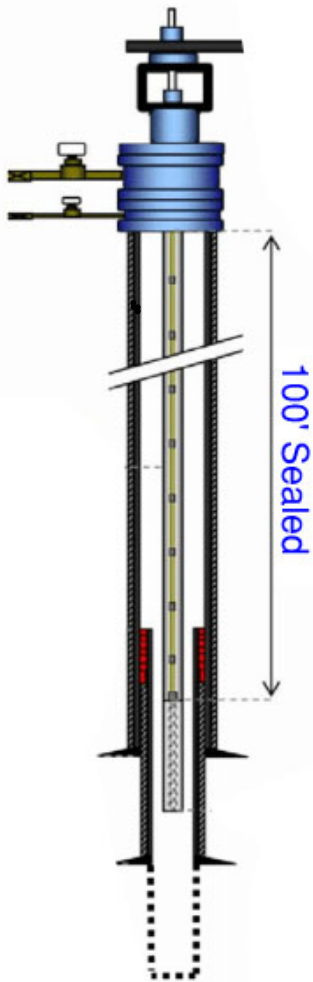


A consolidation and connection with Star City, an adjacent community recently purchased by Humboldt County, will allow immediate water source for mixing to ensure nitrate levels are below MCL's and provide source redundancy to both water systems.

Proposed Project

Component #2-New Well

The consolidated Gold Country water system and Star City water system requires additional sources for mixing to continue to mitigate the high nitrate concentration issues.

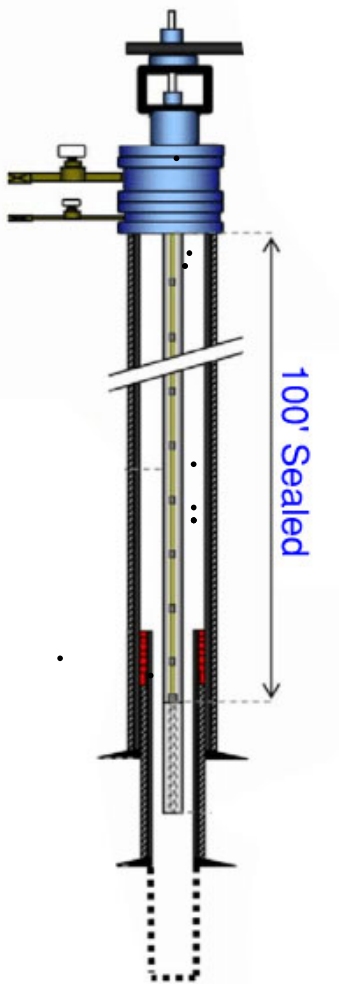


Proposed Project

Component #2-New Well

Correction to Staff Report

- Well location
- Transmission line



Proposed Project

Component #3: Refinance of Gold Country Debt

Humboldt County has requested a \$550,000* Traditional Loan from DWSRF for the purpose of refinancing Gold Country loans to Humboldt County

Correction to Staff Report:

Balances are after the January 1, 2023 debt service collection

DW1103 Outstanding Balance: \$363,530.61

GCWcco-1 Outstanding Balance: \$145,212.28

Total debt outstanding Jan 2, 2023: \$508,742.89*

*Difference to cover bond counsel fees

Project Cost Estimates and Funding Sources

	DWSRF	Capital Improvements Grant	Local	Total
Planning Costs Already Incurred	\$0.00	\$0.00	\$0.00	\$0.00
Planning Costs	\$0.00	\$0.00	\$0.00	\$0.00
Design and Engineering	\$150,000.00	\$0.00	\$0.00	\$150,000.00
Land Acquisition	\$50,000.00	\$0.00	\$0.00	\$50,000.00
Construction/Improvements	\$1,100,000.00	\$0.00	\$0.00	\$1,100,000.00
Administration	\$50,000.00	\$0.00	\$0.00	\$50,000.00
Water System Asset Purchase	\$500,000.00	\$0.00	\$0.00	\$500,000.00
Refinance	\$550,000.00	\$0.00	\$0.00	\$550,000.00
Totals	\$2,400,000.00	\$0.00	\$0.00	\$2,400,000.00

Budget includes the following:

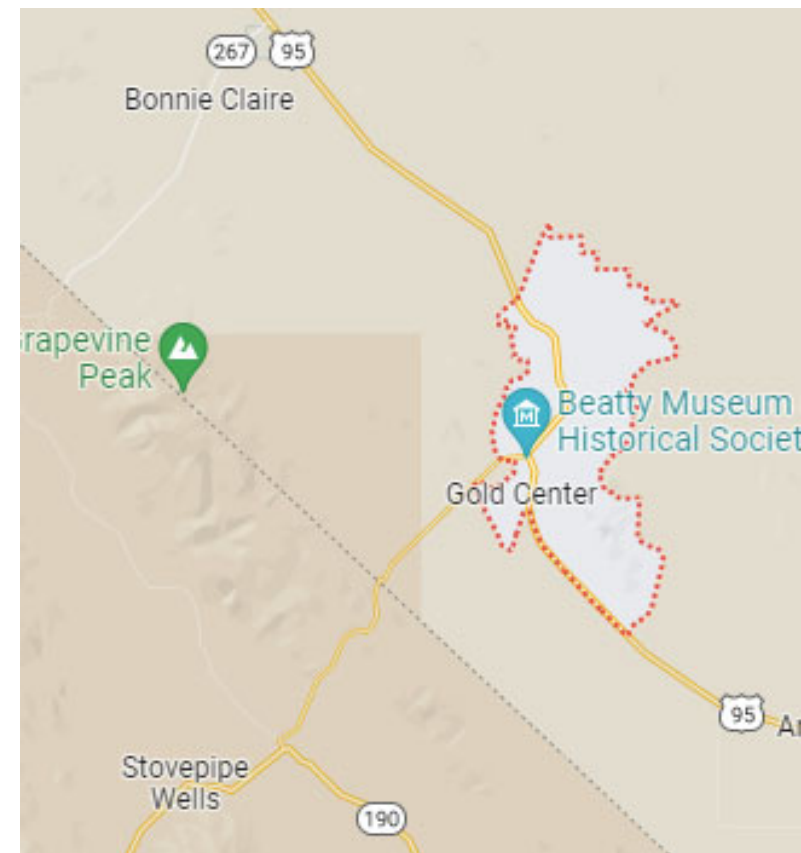
- *Humboldt County's purchase of Gold Country Water system - \$500,000*
- *Humboldt County 's refinance of existing SRF debt - \$550,000*

Estimated Project Schedule

- **Design and Engineering: March – August 2023**
- **Contract Bidding: August/September 2023**
- **Construction Start: September 2023**
- **Construction Completion: April/May 2024**

Beatty Water & Sewer GID– Booster Tank Replacement and recoating of three tanks

- Beatty is a small community in Nye County with an approximate population of 881. This older mining community has many water system facilities that are beyond their service life or require significant repairs.*



Beatty GID Infrastructure

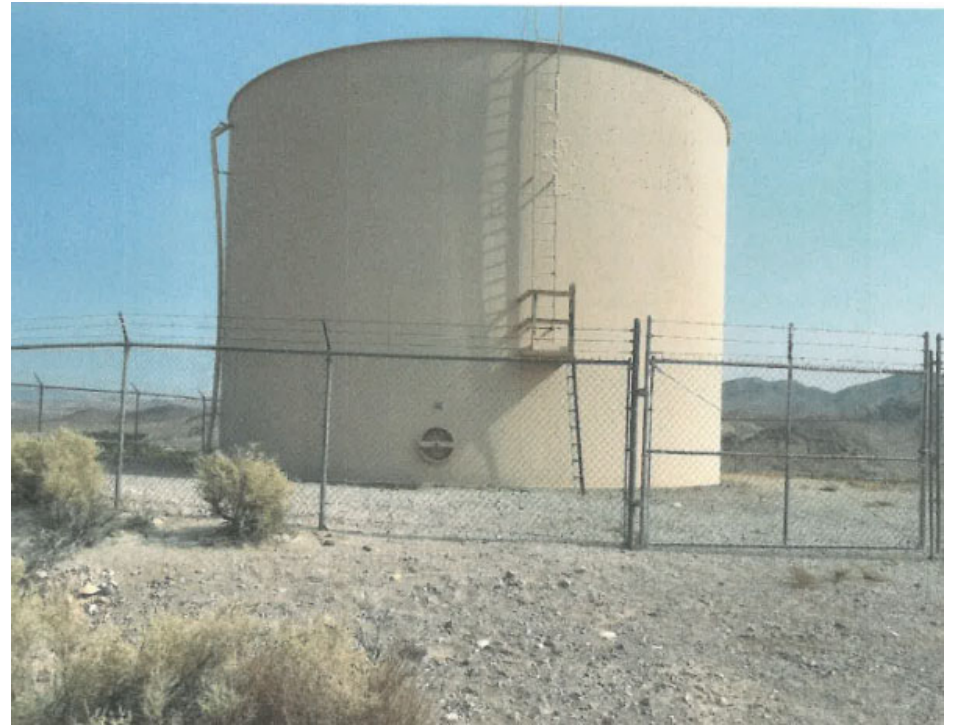
- *Three active wells*
- *Three water tanks, a booster station with tank, and 168,000 feet of pipe.*
- *Water treatment facilities for arsenic compliance*
- *Mixing is used for fluoride compliance*



Beatty GID Water System Needs



Booster Water Tank



Middle Water Tank

- Booster Station is in poor condition and lacks adequate capacity
- Repairs and failing internal coating on the Indian Spring Tank, the Middle Tank and the South Tank

Beatty GID Proposed Project



Indian Springs Water Tank



South Water Tank

- New 25,000-gallon Booster Tank (replaces 10,000-gallon tank)
- Internal recoating of the Indian Spring water tank, the South Water Tank and the Middle Tank

Beatty Project Cost Estimates and Funding Sources

	DWSRF	Capital Improvements Grant	Local	Total
Planning Costs Already Incurred	\$0.00	\$0.00	\$0.00	\$0.00
Planning Costs	\$5,000.00	\$0.00	\$5,000.00	\$10,000.00
Design and Engineering	\$110,400.00	\$0.00	\$0.00	\$110,400.00
Construction/Improvements	\$809,600.00	\$0.00	\$0.00	\$809,600.00
Administration	\$25,000.00	\$0.00	\$25,000.00	\$50,000.00
Financing	\$100,000.00	\$0.00	\$0.00	\$100,000.00
Totals	\$1,050,000.00	\$0.00	\$30,000.00	\$1,080,000.00

Beatty Estimated Project Schedule

- **Design:** **January – February 2023**
- **Construction Bid/Award:** **May 2023**
- **Construction Start:** **June 2023**
- **Construction Completion:** **September 2023**

Silver Springs Mutual Water Company Lake Street Well Replacement

- Silver Springs is a small community in Lyon County, north-east of Carson City with an approximate population of 3,070.*





Silver Springs Mutual Water Company - Water System Infrastructure

- *The water system currently utilizes three active wells, three water tanks, a booster station, and 194,470 feet of pipe. Water treatment facilities are in use for the removal of arsenic and mixing is used to further reduce arsenic concentrations.*
- *Two backup generators are installed in the system, one at the booster station and one at the Lake Street well.*

Water System Needs

- *The Lake Street Well in the Silver Springs Mutual Water system has failed and is offline. The failure, first thought to be caused by the pump, was determined to be caused by the well cap, allowing sand and rocks into the casing.*
- *The re-establishment of the Lake Street Well is needed to meet system needs for redundancy. There is arsenic treatment at this source, which is needed for mixing with other sources to meet arsenic maximum contaminant loads.*

Proposed Project

The Silver Springs Mutual Water Company proposes to replace the Lake Street well at the same location to continue to utilize the on-site arsenic treatment, backup generator, and the production seen at this site prior to failure.

Project Cost Estimates and Funding Sources

	DWSRF	Capital Improvements Grant	Local	Total
Planning	\$0.00	\$0.00	\$0.00	\$0.00
Design and Engineering	\$151,000.00	\$0.00	\$0.00	\$0.00
Equipment & Materials	\$0.00	\$0.00	\$75,000.00	\$75,000.00
Construction/Improvements	\$1,249,000.00	\$0.00	\$0.00	\$1,249,000.00
Administration	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$1,400,000.00	\$0.00	\$75,000.00	\$1,324,000.00

Estimated Project Schedule

- **Design and Engineering:** **March 2023**
- **Contract Bidding:** **April 2023**
- **Construction Start:** **June 2023**
- **Construction Completion:** **March 2024**



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Agenda Item 9: Board Comments



Greg Lovato
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Agenda Item 10: Public Comments



Greg Lovato
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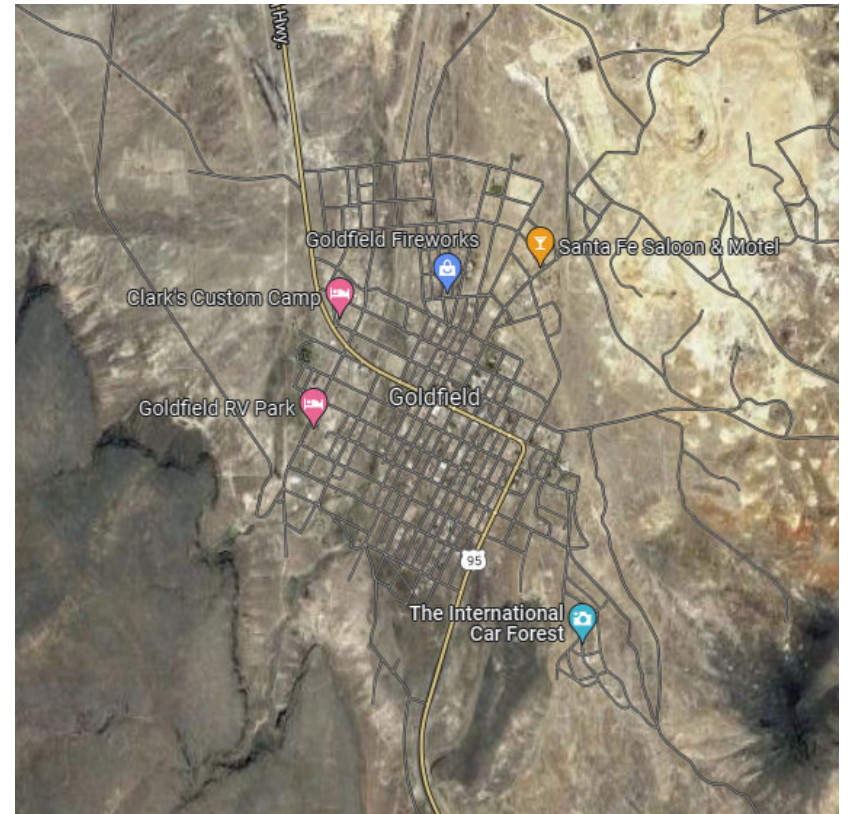
Agenda Item 11: Next Board Meeting

Status	Date of Meeting	Loan Applications Due Date
Confirmed	Tuesday, December 6, 2022	Monday, October 31 ,2022
Proposed	Wednesday, March 22, 2023	Friday, February 3, 2023
Proposed	Wednesday, June 28, 2023	Friday, May 12, 2023
Proposed	Wednesday, August 16, 2023	Friday, July 7, 2023
Proposed	Wednesday, November 15, 2023	Friday, October 6, 2023

To allow for consistency in scheduling, Staff is proposing that starting in SFY 2024 board meetings be held on a quarterly basis. Meetings would be the second month of each quarter (February, May, August, & November), held the third Wednesday of that month.

*Meetings are subject to cancellation if no projects or business is slated for the agenda.

Esmeralda County– Goldfield Water System – PER Loan Request



Goldfield is a small community in Esmeralda County, about 20 miles south of Tonopah, with an approximate population of 300.

Goldfield Water System Infrastructure

- *The water system currently utilizes one active well from the Klondike Field, three water tanks, a booster station, and 194,470 feet of pipe.*
- *Water treatment facilities are in use for the removal of arsenic and mixing is used to further reduce arsenic concentrations.*
- *Water usage is measured with meters that are being upgraded to AMR radio read meters. Two backup generators are installed in the system, one at the booster station and one at the Lake Street well.*

Water System Needs

The Goldfield Arsenic removal treatment system lacks the settling volume for sufficient backwash of filters. Without the volume to allow backwash settling time, the ferric arsenate floc is forced back through the filter media.

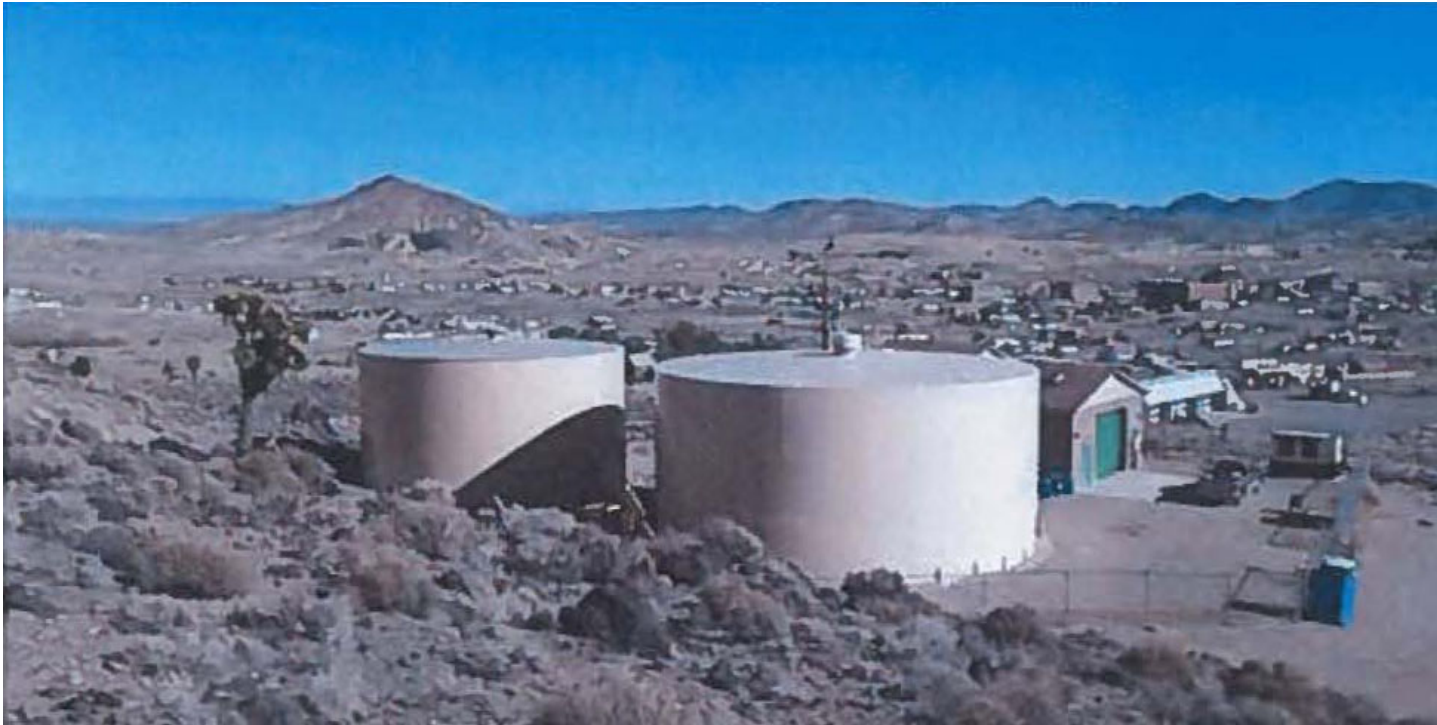
The result is that the filter media is less effective at removing the arsenic and the requires more frequent replacement.



Many operational modifications have been attempted in order to achieve more effective treatment processes.

Proposed Project

A PER is proposed to evaluate to address the ferric arsenate settlement issues and analyze the system to improve operational efficiency and the effectiveness of arsenic removal



A larger settling volume is likely to be needed, which will increase the size of the treatment structure. This PER will determine the most feasible and economically viable means to achieve this larger settlement volume and treatment structure.

Also to be addressed with this PER is the addition of an isolated and ventilated room for the storage of hazardous chemicals to increase the safety of staff.

Project Cost Estimates and Funding Sources

	DWSRF	Capital Improvements Grant	Local	Total
Planning Costs Already Incurred	\$0.00	\$0.00	\$0.00	\$0.00
Planning Costs	\$0.00	\$0.00	\$0.00	\$0.00
Design and Engineering	\$63,750.00	\$0.00	\$11,250.00	\$75,000.00
Construction/Improvements		\$0.00	\$0.00	\$0.00
Administration	\$0.00	\$0.00	\$0.00	\$0.00
Financing	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$63,750.00	\$0.00	\$11,250.00	\$75,000.00

Estimated Project Schedule

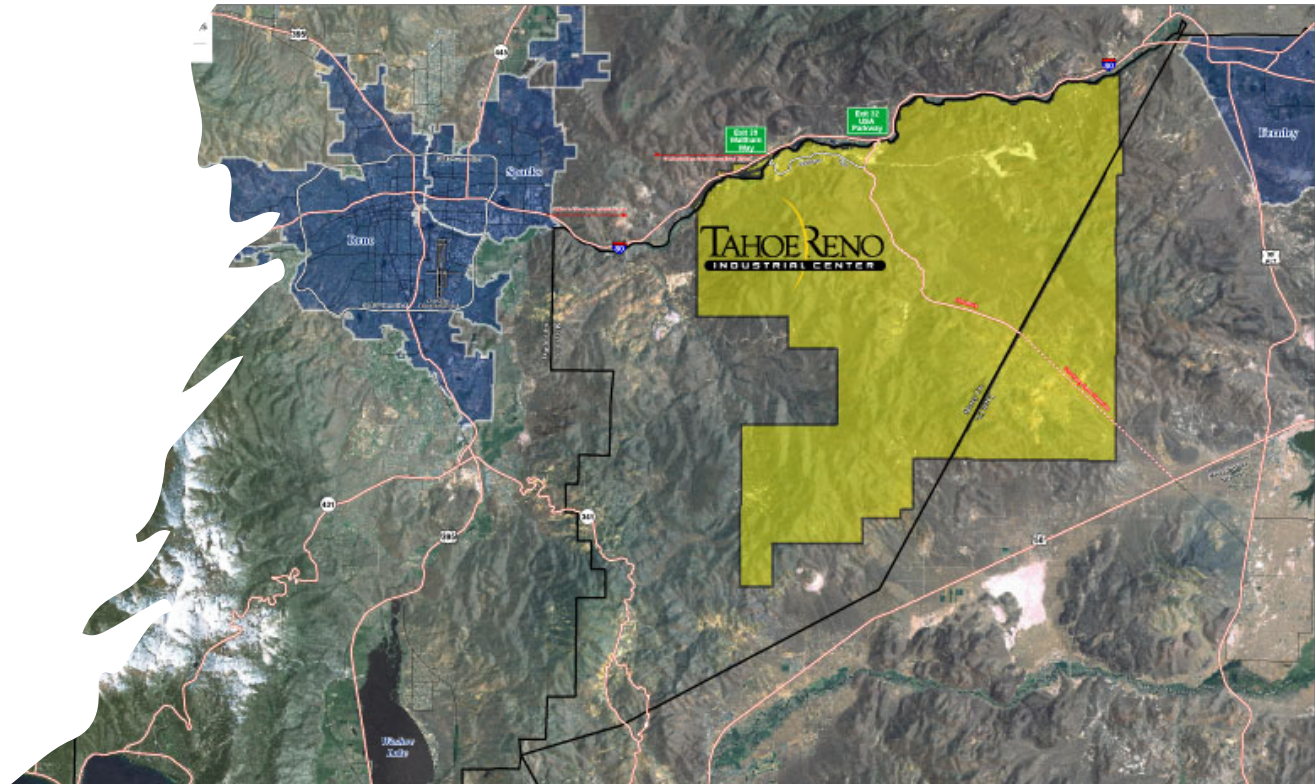
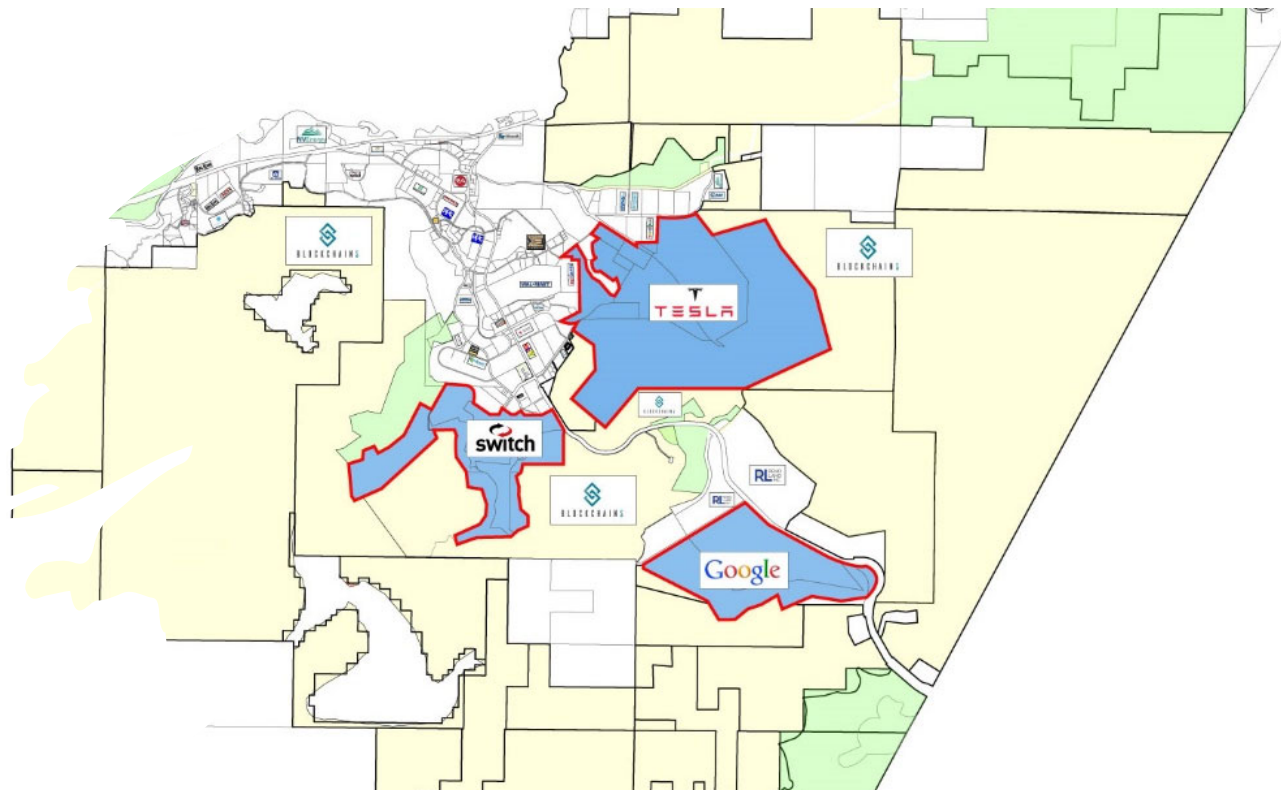
PER and ER:

January – June 2023









Tahoe Reno Industrial Center (TRI- GID) PER Loan Request

The TRI-GID is a 107,000-acre industrial park. The park is located in Storey County Nevada about nine miles east of Reno-Sparks.



TRI-GID System

-  -Eight existing wells
-  -One additional well is planned for construction in 2022/2023
-  -Serve about 20,000 employees
-  -Arsenic in groundwater ranges from 3 ppb to 15 ppb
-  -Arsenic Treatment Plant located at Well 2
-  -Concerns over increased arsenic concentrations with increased pumping to meet new demand

TRI-GID Water System Needs

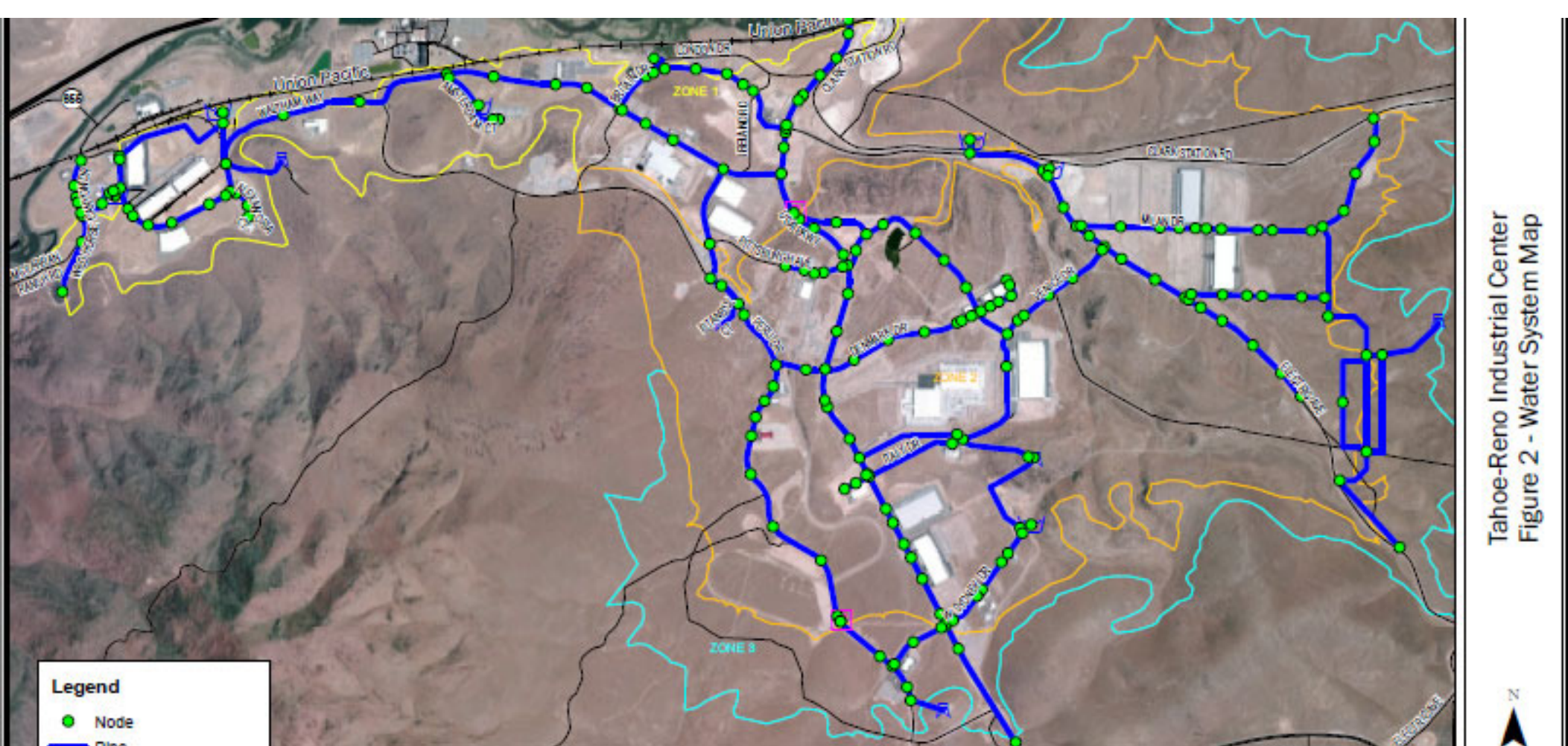
- Need to understand better the existing arsenic levels in groundwater across TRIGID service area
- Determine best course of action for long term arsenic compliance

TRI-GID Proposed Project

- The PER will evaluate Possible solutions include:
 - Well-specific arsenic treatment
 - Blending of treated well water with well water
- Project Costs and a Rate Study
- Preparation of a Water Conservation Plan
- Environmental Impacts

TRI-GID Project Cost Estimates and Funding Sources

	DWSRF	Capital Improvements Grant	Local	Total
Planning Costs Already Incurred	\$0.00	\$0.00	\$0.00	\$0.00
Planning Costs Already Incurred	\$0.00	\$0.00	\$0.00	\$0.00
Design and Engineering	\$97,750.00	\$17,250.00		\$115,000.00
Construction/Improvements	\$0.00	\$0.00	\$0.00	\$0.00
Administration	\$0.00	\$0.00	\$0.00	\$0.00
Financing	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$97,750	\$17,250.00	\$0.00	\$115,000.00



TRI-GID Estimated Schedule

January 2023 – June 30, 2023

TRI-GID Water Conservation

- Fully metered
- Major overhaul occurred in 2020 and 2021
- All meters were inventoried
- Completed a comprehensive upgrade to radio read technology (meter reading was done by hand prior to 2020).
- Discovered several meters during this process that were not in our database
- Regional water reuse project