



State of Utah

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Lieutenant Governor

Department of
Environmental Quality

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Executive Director

DIVISION OF WATER QUALITY

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Executive Secretary

MEMORANDUM

TO: Utah Water Quality Board

THROUGH: John K. Mackey, PE

FROM: Engineering Section

DATE: September 22, 2022

SUBJECT: Finance Committee Meeting – FY 2023 Funding Requests

BACKGROUND

Over the past few years the WQ Board has been cautious and responsible with fund balances by retaining reserve funds. However, due to the new incoming BIL funding and the increased requirements that will be placed upon these reserves, some of the past reserves were allocated in previous Board meetings to supplement projects that had seen increases in costs and to avoid potential additional requirements that would be associated with BIL funding. This has essentially left the funds at the incoming funding levels and a smaller reserve.

EQUIVALENCY REQUIREMENTS

Equivalency requirements are currently Build America, Buy America (BABA), American Iron and Steel (AIS), Davis-Bacon wages, Disadvantaged Business Enterprises (DBE) and Environmental Review sometimes internally referred to as First Round Funding. As part of the award of the Capitalization Grant and General Supplemental Grants from EPA the CWSRF program must award projects with Equivalency requirements. In general equivalency requirements are expected to be fulfilled within two years of the grant award. These projects must close their funding during the fiscal year of the grant and projects may be used to fulfill previous years equivalency requirements but cannot be utilized for future years.

Table 1: Equivalency Need (in millions)

Fiscal Year of Grant	FY22	FY23	FY24	FY25	FY26
Capitalization Grant	\$0.0	\$6.0	\$6.0	\$6.0	\$6.0
General Supplemental	\$9.4	\$10.3	\$11.2	\$12.2	\$12.2
Annual Equivalency Need	\$9.4	\$16.3	\$17.2	\$18.2	\$18.2
Cumulative Equivalency Need	\$9.4	\$25.7	\$33.5	\$37.2	\$55.4

Projects funding during the January 2022 Board meeting have fulfilled our Capitalization Grant requirements for FY22. The FY22 General Supplemental Grant needs projects funded with equivalency requirements. **Based on these needs staff recommends attempting to issue 9.4 million in funding with equivalency requirements.**

AVAILABLE BALANCES EVALUATION

Attachment 1 to this memorandum is a current Financial Report showing available fund balances. Balances can be brought up from Utah Wastewater Loan Fund to projects funded under CWSRF requirements. Thus, staff will focus on the Total Available Loan Funds balances. Due to recent Congressionally Directed Spending Requests (AKA Earmarks) staff recommends not awarding future capitalization grants until they are received. In addition, recently the Board has held back an annual reserve of \$5 million in Utah Wastewater Loan Funding for potential emergency projects. These recommendations are represented as subtraction of \$6 million and \$5 million annually.

Table 2: Available Loan Fund Balances

Funding Fiscal Year	FY23	FY24	FY25	FY26	FY27
Total Available Loan Funds	\$13.3	\$19.5	\$48.8	\$90.6	\$131
Future Capitalization Grants (cumulative at \$6/year)		-\$6	-\$12	-\$18	-\$24
Reserve (cumulative at \$5/year)		-\$5	-\$10	-\$15	-\$20
Available	\$13.3	\$8.5	\$26.8	\$57.6	\$87

Utilizing these assumptions, **staff recommends the Board consider authorization of \$8.5 to \$9.7 million in funding during FY23.** Following this recommendation will leave \$9.8-\$11 million in funding available in June 2023.

AVAILABLE PRINCIPAL FORGIVENESS BALANCES EVALUATION

As part of the Attachment I Financial Report is an estimation of unobligated balances for Additional Subsidization (AKA Principal Forgiveness). These are available balances the Board can award principal forgiveness to projects which will result in user fees greater than the State Affordability Criteria. The available principal forgiveness remaining balances is an estimate and could be as low as \$4.0 or as high as \$6.5 in FY24 (depending on the Cap Grant). **Staff recommends the Board award up to \$2.9 million in principal forgiveness.** This funding would be part of the \$8.5-\$9.7 million previously recommended and not in addition to.

Table 3: Summary of Principal Forgiveness Balances

Funding Fiscal Year	FY23	FY24	FY25	FY26	FY27
Principal Forgiveness Remain Balance	\$3.0	\$4.6	\$10.7	\$17.3	\$23.8

RECOMMENDED PROJECTS FOR WATER QUALITY BOARD CONSIDERATION

In June 2022, the Board received applications with the requested funding of nearly \$70 Million. As there are not sufficient funds to provide the funding requested, it is necessary to bring the requests to the Finance Committee for review. Staff has a brief summary of each project in Enclosure 1 and a cost model for each project as Attachments 3 through 9. Below Table 4 is showing a summary of Funding Requests. Historically, when the Board funds Planning, Engineering, or construction management services it is done from the Utah Wastewater Loan Fund or Hardship Grant Fund to avoid Federal Architectural and Engineering procurement requirements.

Table 4: Summary of Project Requests

Entity	Planning, Engineering, & CMS	Construction	Total Requested Funding
Long Valley SID	\$210,700	\$1,212,000	\$1,422,700
Lewiston	\$0	\$2,144,000	\$2,144,000
Hanksville	\$323,036	\$1,747,564	\$2,070,600
Springdale	\$411,500	\$3,799,600	\$4,211,100

Entity	Planning, Engineering, & CMS	Construction	Total Requested Funding
North Logan	\$0	\$10,550,000	\$10,550,000
Delta	\$1,322,000	\$15,317,000	\$16,639,000
Central Valley	\$0	\$33,200,000	\$33,200,000

STAFF EVALUATED FUNDING SCENARIO

Staff evaluated a scenario to obligate between \$8.8 million in funding.

Table 5: Summary of Additional Funding Requests

Entity	CWSRF	Principal Forgiveness	UWLF	Hardship Grant
Long Valley SID	\$1,250,000	\$0	\$220,000	\$0
Lewiston	\$0	\$1,000,000	\$400,000	-\$460,000
Hanksville	\$0	\$1,800,000	\$350,000	\$0
Springdale	\$0	\$0	\$0	\$0
North Logan	\$2,600,000	\$0	\$0	\$0
Delta	\$0	\$0	\$200,000 (previously authorized)	\$200,000
Central Valley	\$0	\$0	\$0	\$0

ENCLOSURE 1

LONG VALLEY SID

At the August 24th Board Meeting, Long Valley was authorized by the board for a design advance of \$84,300. Long Valley is asking for a loan for the remaining \$1,274,200. The total amount that Long Valley is asking for is \$1,358,500.

Long Valley SID is proposing the four following upgrades to increase the resiliency and automation of their system:

1. Replacing the old manual bar screen with an automatic screen auger to eliminate the need for manual service of the bar screens and remove non-organic solids to extend the lifespan of the lagoons.
2. Increase the volume of the lift station wet well to increase the holding capacity in the case of a power failure as well as handle higher flows during tourist season.
3. Extend the sewer line further into Mt. Carmel Junction and Glendale to hookup more buildings to the sanitary sewer.
4. Map and inspect the sewer system and conduct repairs to prevent Infiltration and Inflow.

Long Valley needs to upgrade its system because of the lack of full time employees, and the high possibility of power outages due to their remoteness. Long Valley is also planning to expand the sewer collection lines to receive more sewage and take more septic systems out of service. Staff is supportive of this project as a loan from the WQB would improve the resiliency and safety of this remote system, as well as connect more homes to sewer service.

ADDITIONAL FUNDING OPTIONS:

1. The Board could fully fund the project with equivalency requirements.
2. The Board could authorize the design advance to be forgiven as a grant with no further funding.

LEWISTON CITY

Lewiston is requesting additional funding for the project. Lewiston City was authorized by the board a design advance of \$186,000 at the February 26, 2020 meeting. On March 25, 2020 the Board authorized a hardship grant of \$500,000.00 to construction assistance, which includes the design advance amount. The U.S. Department of Agriculture - Rural Development (USDA- RD) also authorized a loan of \$2,052,000 and was obligated at 1.875%, for a 40 years term and a grant of

\$483,000 for the project. In addition, Lewiston self-funded an anticipated share at \$144,000. *The total project was anticipated at \$3.06 million.* The proposed project consists of improvements and upgrades that are needed to replace aging infrastructure, eliminate capacity limitations, improve wastewater treatment performance and enhance the overall system maintainability, flexibility, reliability, and customer service.

In June 2021, the City bid the project and the lowest bid came in over the original construction estimate. With the higher than estimated construction bid, the overall project costs are now estimated to be \$5.3 million. The bids indicated that higher costs are due to higher pipe material costs and higher labor costs due to market conditions. *A total of \$5.3 million is needed to complete the project.* Of the entire \$5.3 million total project cost, Lewiston is short by \$2,144,000. Lewiston City requested additional funding of \$2,144,000 to pay for cost overruns on their construction project. Updated funding alternatives that include various mixtures of loan and grant are provided in Attachment 4.

In addition, funding with USDA-RD indicated support for additional and a funding package in the form of 80:20 loan-to-grant proportions. Based on the cost model and the evident hardship, the Board could best assist the city by bringing additional funds in the form of principal forgiveness. Without additional grant funding (principal forgiveness), the sewer rate exceeds Board affordability criteria. Therefore, the board may consider funding additional principal forgiveness. Due to limitations of DWQ hardship funding, staff has indicated an option of a funding package to repay the previous advances from the Hardship Grant Fund as a loan.

ADDITIONAL FUNDING OPTION:

1. The Board could authorize \$1,000,000 in principal forgiveness and a \$400,000 loan to repay the Planning and Design Advances (shown as a current balance -\$460,000 in the Hardship Grant column of Table 5).
2. The Board could instruct Lewiston to fully exhaust pursuing additional funding from USDA-RD.

HANKSVILLE

Hanksville was authorized a hardship planning advance in the amount of \$36,000 at the December 15, 2021 board meeting. On August 24, 2022 the board authorized a design advance in the amount of \$162,000. The proposed project includes repairing lagoons that were damaged due to flooding on September 2, 2021. Along with lagoon repairs the lagoons have trouble maintaining 3 feet depth of water during the winter months. To maintain water depth, canal water is pumped into the lagoons. Therefore, the Town would like to divide the secondary cell to help maintain a consistent depth in the lagoons. In addition to maintaining minimum water depth, other improvements are recommended. These include lowering the first cell to allow for more hydraulic head between the flume and water surface of the primary cell, routing a section of pipe directly from the flume to the secondary cell for operational maintenance, and increasing the exterior dike height to prevent future flood events from damaging the cells again. The recommended increase in height is based

on high water marks at the site along with accounts from town personnel of reported floodwater depths. Finally, the hydraulic conductivity of the clay liners will be assessed to determine whether or not the clay liners need to be replaced. The replacement of clay liners was assumed into the probable costs.

The Town had a sewer master plan developed in May 2022 which included a preliminary opinion of probable costs for the above projects of \$2,030,600. Once contingency is included and their local contribution of \$26,000 the total amount of money the Town is in need of for this project is \$2,044,600. Currently, the Town has their current monthly fee at \$15.50. If the town was required to find a private loan in the amount of \$2,044,600 their sewer cost as a percent of MAGI would be 6.20%. If the Town was given a water quality board loan in the amount of \$2,044,600 their sewer cost as a percent of MAGI would be 4.94%. If the Town was given either \$1,300,000 or 1,800,000 in principal forgiveness their sewer cost as a percent of MAGI would be 2.31% or 1.3% respectively.

ADDITIONAL FUNDING OPTIONS:

3. The Board could fully fund the project with a significant portion funded as principal forgiveness and funded with equivalency requirements. The Staff believes without Board funding a project will not occur.

SPRINGDALE

The Town of Springdale is requesting funding of a \$4.2 million wastewater project. In addition to Springdale the Town's wastewater system is used by the neighboring community of Rockville as well as Zion National Park. Springdale's collection system flows to treatment lagoons to the west of Rockville. Currently the Town's wastewater is treated with a wastewater lagoon treatment facility which periodically discharges effluent water into the Virgin River. On May 6, 2021, Springdale received a Notice of Violation and Compliance Order (NOV/CO) from the Division of Water Quality (DWQ). The NOV/CO was a result of elevated total suspended solids (TSS) and *E. coli* levels in exceedance with their wastewater discharge permit. This project will allow Springdale City to maintain compliance with DWQ discharge requirements, specifically it will make it possible for the plant to make improvements that are predicted to help reduce the levels of TSS as well as reduce the levels of phosphorus in the treatment effluent. The proposed project is to construct or upgrade the sewer systems & lagoon treatment facility. Updated funding alternatives that include various mixtures of loan and grant are provided in Attachment 6.

Springdale is currently pursuing funding from the Community Impact Board (CIB) and is on the funding list for the October 2022 CIB meeting. CIB staff have indicated support for the project with potential funding from loan at 2.5% for a 30-year term. CIB's loan funds are at historic lows and staff is unsure if CIB will be able to fully fund the project. Per discussion with the Town a potential funding package split with CIB. Staff has discussed with Springdale that if the Board funds a project it could be bid as one project with funding coming from the UWLF or the Board may require Springdale could split the project into two bids with one project funded by CIB and

the other project funded by the Board with CWSRF equivalency requirements. The overall project could roughly be split and bid as headworks project and filters project. Due to equivalency requirements staff recommends if the Board funds the project it be funding with equivalency requirements.

ADDITIONAL FUNDING OPTIONS:

1. The Board could authorize a loan for the construction of the headworks or filters with equivalency requirements.
2. The Board could partially fund the project from Utah Wastewater Loan Funds.
3. The Board could recommend staff wait to hear the results of the CIB funding meeting. This might require bringing Springdale to the December 2022 Board meeting.

NORTH LOGAN

North Logan is currently constructing a replacement for the existing main gravity trunk line taking all of North Logan’s sewer flows to the Logan City Treatment Plant. This trunk line will connect to existing infrastructure as well as new developments planned in the area – these developments are a major factor in the subsequent phases of the project. The upgrades are driven by growth and a capital improvement plan.

The trunk line project is divided into seven phases. The first Phase is completed, Phases 2 is currently under construction, and Phase IV is ready to bid. The remaining Phases have been prioritized based on development pressure and avoiding additional costs caused by delays. Staff is highly concerned about funding a project which is already under construction. Even utilizing Utah Wastewater Loan Fund is challenging backtracking compliance with the loan program and authorizing previously invoiced work. If items are found to be non-compliant it is difficult if not impossible to make corrections or adjustments. For this reason, staff does not recommend funding Phase III. If Phase III is funded it must be funded from Utah Wastewater Loan Fund.

PHASE	BID	PHASE DETAILS	SEGMENT LENGTH	ANTICIPATED NORTH LOGAN COST SHARE
III	Yes	1800N 600W to 1650N 600W	1,128'	\$1.8M
IV	Late 2022	600W 1650N to 700W 1450N	2,022'	\$2.6 M
V	Spring 2023	1400N 800W to 1200N 800W	1,320'	\$0.895 M
VI	2024 - 2025	400W 2200N to 600W 1800N	3,825'	\$4.1 M
VII	2026 - 2027	2200N 150E to 2200N 100W	1,760'	\$1.7M
			Total	\$11.095M

Additional Funding Options:

1. The Board could fund \$2.6 million to Phase IV with equivalency requirements.
2. The Board could fund \$3.5 million to Phase IV and V with equivalency requirements.

DELTA

Delta City provides wastewater treatment to 3,500 residents. On August 24, 2022 the board authorized a hardship grant in the amount of \$200,000 and a short-term loan in the amount of \$200,000 at an interest rate of 0% over 5 years. The City finished their wastewater master plan in 2019, and found deficiencies and system failures. Delta City's sewer system consists of six zones that they would like to work on improvements for. Improvements to Zone A include bypassing Lift Station A and replacing approximately 43,200 feet of clay pipe, asbestos cement pipe, and concrete pipes and manholes. Zone B and C improvements include replacing the force main line between Lift Station B and the lagoons, upgrading Lift Station C, and include replacing approximately 17,860 feet of clay pipe and asbestos cement pipe and associated manholes with these zones. Improvements to Zones D and E consist of replacing approximately 16,725 feet of concrete pipe and associated manholes. Zone F improvements include upgrading Lift Station F and installing a new force main line from Lift Station F to connect to the new force main interceptor from Lift Station B. Actual quantities and prioritization of pipe replacement will be determined based on the results of the next sewer video inspection. The cost for these wastewater improvements were estimated at \$16,750,000. Delta was encouraged by staff to apply by the June 30th deadline. However, at this time staff is concerned the project is not fully developed in its scope and Delta's appetite for the required projected rate increases. Staff believes Delta will reduce the scope of the project to reduce the required rate increase. In addition, staff and Delta believe they will be eligible for funding by USDA-RD.

Additional Funding Options:

1. The Board could instruct Delta to work with USDA-RD and/or the Community Impact Board to secure funding for the project.
2. The Board could instruct Delta to further scope their project and resubmit an application for next year's funding by June 30, 2023.
3. Staff does not see an option to partially fund this project at this time.

CENTRAL VALLEY WATER RECLAMATION FACILITY

Central Valley Water Reclamation Facility (CVWRF) provides wastewater treatment to several cities and districts. CVWRF is in the process of upgrading the water reclamation facility to a Biological Nutrient Removal treatment process in order to comply with the TBPEL as well as improve other aspects of water quality prior to discharge to the Jordan River. South Salt Lake City (SSL) was funded separately from CVWRF due to the increased hardship they are experiencing in comparison to the other entities served by CVWRF. CVWRF has bid the majority of the projects

associated with the upgrades to the facility necessary to meet the TBPEL. Almost all of the projects came in higher than anticipated when CVWRF and SSL came to the Board. The overall improvement project has increased from approximately \$187 Million to \$305 Million.

CVWRF is seeking any amount of additional funding that the Board is able to provide, and would appreciate being brought back for consideration, in the event that additional funding becomes available in the near future. CVWRF continues to consider all funding options and will find ways to finance the projects, however, CVWRF recognizes the benefit of Water Quality Board Funds.

In order to not encumber the entire upgrade, the federal money provided by the WQ Board to both CVWRF and South Salt Lake was used to fund the contract awarded for The Biological Nutrient Removal Basin (BNR) Project. The Bid contract included American Iron and Steel, Davis Bacon Wages, and Disadvantaged Business Enterprise requirements. It is anticipated that any additional funding would also be applied to that project, freeing up money from other sources to be utilized for the many other projects that are being constructed on a similar time frame with the BNR project.

ADDITIONAL FUNDING OPTIONS:

1. The Board could consider authorizing any amount up to the requested amount.
2. The Board could opt not to provide additional funding at this time, but leave the door open if additional Board Funds become available to have CVWRF come back at that time.

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Additional Funding Requests
ATTACHMENT 1

ATTACHMENT 1- Financial Status Report

	State Fiscal Year 2023	State Fiscal Year 2024	State Fiscal Year 2025
STATE REVOLVING FUND (SRF)			
CAP Grant Base Program			
Capitalization Grants Awards (FY22)	\$ 6,096,000		
Future Capitalization Grant (estimated)		\$ 6,000,000	\$ 6,000,000
State Cap Grant Match (FY22)	\$ 1,219,200	\$ -	\$ -
Future State Cap Grant Match (estimated)		\$ 1,200,000	\$ 1,200,000
CAP Grant General Supplemental			
General Supplemental Grants	\$ 9,378,000		
Future General Supplemental Grant (estimated)		\$ 10,294,350	\$ 11,234,025
State General Supplemental Grants Match	\$ 937,800		
Future State Gen. Sup Grants Match (estimated)		\$ 1,029,435	\$ 2,246,805
SRF - 2nd Round			
Account Balance	\$ 39,411,663	\$ (5,262,231)	\$ (2,501,078)
Interest Earnings at 0.4676%	\$ 139,649	\$ (22,375)	\$ (10,635)
Loan Repayments (5255)	\$ 10,060,741	\$ 20,400,749	\$ 20,164,590
Total Funds Available	\$ 67,243,053	\$ 33,639,927	\$ 38,333,707
CWSRF Program Obligations			
Admin Expenses 4% of all CAP Grant Awards	\$ (638,680)	\$ (696,774)	\$ (734,361)
Cap Grant Principal Forgiveness (PF) (FY18-22)	\$ (13,534,600)		
Future Cap Grant (PF portion)		\$ (600,000)	\$ (600,000)
General Supplemental Grants (PF portion)	\$ (4,595,220)		
Future General Supplemental Grants (PF portion)		\$ (5,044,232)	\$ (5,504,672)
OSG Cost Share Balances (FY20-21)	\$ (80,784)		
Project Obligations			
Central Valley Water Reclamation Facility	\$ (12,100,000)	\$ -	\$ -
Moab City	\$ (80,000)	\$ -	\$ -
Provo City	\$ (27,045,000)	\$ (16,800,000)	\$ -
South Salt Lake City (A)	\$ (524,000)	\$ -	\$ -
Millville City Loan	\$ (5,146,000)	\$ -	\$ -
Mountain Green	\$ (5,500,000)	\$ (1,500,000)	\$ -
Payson City	\$ (2,000,000)	\$ (11,500,000)	\$ -
Loan Authorizations			
South Davis Sewer District (with NPS)			\$ (14,176,000)
Millville Refinance Loan	\$ (1,261,000)		\$ -
Planned Projects			
Long Valley	\$ -		\$ -
North Logan	\$ -		\$ -
Lewiston	\$ -		\$ -
Springdale	\$ -		
Delta	\$ -		
Central Valley	\$ -		
CWSRF Obligations	\$ (72,505,284.00)	\$ (36,141,005.50)	\$ (21,015,033.25)
CWSRF Remaining Loan Balance	\$ (5,262,231.31)	\$ (2,501,078.20)	\$ 17,318,673.93

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ATTACHMENT 2

Add. Sub. - Principal Forgiveness			
PF Balances (max for FY18-22)	\$ 13,534,600	\$ 3,015,820	\$ 4,660,052
Future Cap Grant (PF portion)	\$ -	\$ 600,000	\$ 600,000
General Supplemental Balances (PF portion)	\$ 4,595,220		
Future General Supplemental Grants (PF portion)		\$ 5,044,232	\$ 5,504,672
Project Obligations			
South Salt Lake City (A)	\$ (2,000,000)		
Millville City	\$ (3,604,000)		
Provo City	\$ (4,000,000)	\$ (3,000,000)	
Payson City		\$ (1,000,000)	
Add. Sub. Authorizations			
Millville City Refinance	\$ (3,750,000)		
South Salt Lake Increase	\$ (1,760,000)		
Planned Projects			
Lewiston	\$ -		
Hanksville	\$ -		
Principal Forgiveness Remaining Balance	\$ 3,015,820.00	\$ 4,660,051.50	\$ 10,764,723.75
	State Fiscal Year	State Fiscal Year	State Fiscal Year
UTAH WASTEWATER LOAN FUND (UWLF)	2023	2024	2025
Funds Available			
UWLF	\$ 26,611,697	\$ 15,602,351	\$ 17,367,207
Sales Tax Revenue	\$ 1,468,266	\$ 3,587,500	\$ 3,587,500
Loan Repayments (5260)	\$ 2,000,988	\$ 2,473,791	\$ 2,808,235
Total Funds Available	\$ 30,080,951	\$ 21,663,642	\$ 23,762,942
General Obligations			
State Match Transfers Base Cap Grant	\$ (1,219,200)	\$ (1,200,000)	\$ (1,200,000)
State Match Transfers Gen. Supplemental Grant	\$ (937,800)	\$ -	\$ -
State Match Transfers Gen. Supplemental Grant (est)		\$ (1,029,435)	\$ (2,246,805)
State Match Reserve for Historic Cap Grant Values		\$ (368,400)	\$ (368,400)
DWQ Administrative Expenses	\$ (1,698,600)	\$ (1,698,600)	\$ (1,698,600)
Project Obligations			
South Salt Lake City (B)	\$ (4,891,000)	\$ -	\$ -
Loan Authorizations			
Spanish Fork	\$ (4,500,000)	\$ -	\$ -
South Salt Lake City	\$ (1,032,000)	\$ -	\$ -
Delta	\$ (200,000)		
Planned Projects			
Hanksville	\$ -	\$ -	\$ -
Long Valley	\$ -		
Springdale	\$ -		
Lewiston	\$ -		
Total Obligations	\$ (14,478,600)	\$ (4,296,435)	\$ (5,513,805)
UWLF Remaining Loan Balance	\$ 15,602,351	\$ 17,367,207	\$ 18,249,137
TOTAL LOAN FUND BALANCE	\$ 13,355,940	\$ 19,526,180	\$ 46,332,534
PROJECT RESERVE		\$ (5,000,000)	\$ (10,000,000)
TOTAL AVAILABLE LOAN FUNDS	\$ 13,355,940	\$ 14,526,180	\$ 36,332,534

ATTACHMENT 2-Financial Status Report – Potential Obligations

STATE REVOLVING FUND (SRF)	State Fiscal Year 2023	State Fiscal Year 2024	State Fiscal Year 2025
CAP Grant Base Program			
Capitalization Grants Awards (FY22)	\$ 6,096,000		
Future Capitalization Grant (estimated)		\$ 6,000,000	\$ 6,000,000
State Cap Grant Match (FY22)	\$ 1,219,200	\$ -	\$ -
Future State Cap Grant Match (estimated)		\$ 1,200,000	\$ 1,200,000
CAP Grant General Supplemental			
General Supplemental Grants	\$ 9,378,000		
Future General Supplemental Grant (estimated)		\$ 10,294,350	\$ 11,234,025
State General Supplemental Grants Match	\$ 937,800		
Future State Gen. Sup Grants Match (estimated)		\$ 1,029,435	\$ 2,246,805
SRF - 2nd Round			
Account Balance	\$ 39,411,663	\$ (9,472,231)	\$ (6,728,979)
Interest Earnings at 0.4676%	\$ 139,649	\$ (40,276)	\$ (28,612)
Loan Repayments (5255)	\$ 10,060,741	\$ 20,400,749	\$ 20,164,590
Total Funds Available	\$ 67,243,053	\$ 29,412,026	\$ 34,087,829
CWSRF Program Obligations			
Admin Expenses 4% of all CAP Grant Awards	\$ (638,680)	\$ (696,774)	\$ (734,361)
Cap Grant Principal Forgiveness (PF) (FY18-22)	\$ (13,534,600)		
Future Cap Grant (PF portion)		\$ (600,000)	\$ (600,000)
General Supplemental Grants (PF portion)	\$ (4,595,220)		
Future General Supplemental Grants (PF portion)		\$ (5,044,232)	\$ (5,504,672)
OSG Cost Share Balances (FY20-21)	\$ (80,784)		
Project Obligations			
Central Valley Water Reclamation Facility	\$ (12,100,000)	\$ -	\$ -
Moab City	\$ (80,000)	\$ -	\$ -
Provo City	\$ (27,045,000)	\$ (16,800,000)	\$ -
South Salt Lake City (A)	\$ (524,000)	\$ -	\$ -
Millville City Loan	\$ (5,146,000)	\$ -	\$ -
Mountain Green	\$ (5,500,000)	\$ (1,500,000)	\$ -
Payson City	\$ (2,000,000)	\$ (11,500,000)	\$ -
Loan Authorizations			
South Davis Sewer District (with NPS)			\$ (14,176,000)
Millville Refinance Loan	\$ (1,261,000)		\$ -
Planned Projects			
Long Valley	\$ (1,250,000.00)		\$ -
North Logan	\$ (2,600,000.00)		\$ -
Lewiston	\$ (360,000.00)		\$ -
Springdale	\$ -		
Delta	\$ -		
Central Valley	\$ -		
CWSRF Obligations	\$ (76,715,284.00)	\$ (36,141,005.50)	\$ (21,015,033.25)
CWSRF Remaining Loan Balance	\$ (9,472,231.31)	\$ (6,728,979.12)	\$ 13,072,795.97

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Add. Sub. - Principal Forgiveness			
PF Balances (max for FY18-22)	\$ 13,534,600	\$ 215,820	\$ 1,860,052
Future Cap Grant (PF portion)	\$ -	\$ 600,000	\$ 600,000
General Supplemental Balances (PF portion)	\$ 4,595,220		
Future General Supplemental Grants (PF portion)		\$ 5,044,232	\$ 5,504,672
Project Obligations			
South Salt Lake City (A)	\$ (2,000,000)		
Millville City	\$ (3,604,000)		
Provo City	\$ (4,000,000)	\$ (3,000,000)	
Payson City		\$ (1,000,000)	
Add. Sub. Authorizations			
Millville City Refinance	\$ (3,750,000)		
South Salt Lake Increase	\$ (1,760,000)		
Planned Projects			
Lewiston	\$ (1,000,000)		
Hanksville	\$ (1,800,000)		
Principal Forgiveness Remaining Balance	\$ 215,820.00	\$ 1,860,051.50	\$ 7,964,723.75
UTAH WASTEWATER LOAN FUND (UWLF)	State Fiscal Year 2023	State Fiscal Year 2024	State Fiscal Year 2025
Funds Available			
UWLF	\$ 26,611,697	\$ 14,992,351	\$ 16,757,207
Sales Tax Revenue	\$ 1,468,266	\$ 3,587,500	\$ 3,587,500
Loan Repayments (5260)	\$ 2,000,988	\$ 2,473,791	\$ 2,808,235
Total Funds Available	\$ 30,080,951	\$ 21,053,642	\$ 23,152,942
General Obligations			
State Match Transfers Base Cap Grant	\$ (1,219,200)	\$ (1,200,000)	\$ (1,200,000)
State Match Transfers Gen. Supplemental Grant	\$ (937,800)	\$ -	\$ -
State Match Transfers Gen. Supplemental Grant (est)		\$ (1,029,435)	\$ (2,246,805)
State Match Reserve for Historic Cap Grant Values		\$ (368,400)	\$ (368,400)
DWQ Administrative Expenses	\$ (1,698,600)	\$ (1,698,600)	\$ (1,698,600)
Project Obligations			
South Salt Lake City (B)	\$ (4,891,000)	\$ -	\$ -
Loan Authorizations			
Spanish Fork	\$ (4,500,000)	\$ -	\$ -
South Salt Lake City	\$ (1,032,000)	\$ -	\$ -
Delta	\$ (200,000)		
Planned Projects			
Hanksville	\$ (350,000)	\$ -	\$ -
Long Valley	\$ (220,000)		
Springdale	\$ -		
Lewiston	\$ (40,000)		
Total Obligations	\$ (15,088,600)	\$ (4,296,435)	\$ (5,513,805)
UWLF Remaining Loan Balance	\$ 14,992,351	\$ 16,757,207	\$ 17,639,137
TOTAL LOAN FUND BALANCE	\$ 5,735,940	\$ 11,888,279	\$ 38,676,656
PROJECT RESERVE		\$ (5,000,000)	\$ (10,000,000)
TOTAL AVAILABLE LOAN FUNDS	\$ 5,735,940	\$ 6,888,279	\$ 28,676,656

ATTACHMENT 3-Long Valley Cost Model

**Attachment 1
 Long Valley SID - Water Quality Board
 20 Year Loan Static Cost Model**

Project Costs

Legal/Bonding	\$	20,000
DWQ Loan Origination Fee	\$	15,000
Engineering - Design	\$	84,300
Engineering - CMS	\$	126,400
WWTP	\$	269,000
Lift Station	\$	234,000
Collection System	\$	262,000
Other	\$	220,000
Construction subtotal	\$	985,000
Contingency (~20%)	\$	192,000
Total Project Cost	\$	1,422,700

Current Customer Base & User Charges

Initial Total Customer (ERU's)	690
MAGI for Long Valley SID (2020):	\$37,029
Affordable Monthly Rate at 1.4%	\$43.20
Impact Fee/Hookup Fee (per ERU):	\$150
Current Monthly Fee (per ERU)	\$34.00
Debt Service	\$73,000
Annual O&M expense	\$36,000

Project Funding

Local Contribution	\$	64,200
Amount to be Funded	\$	1,358,500
WQB Grant	\$	-
Total Project Cost	\$	1,422,700

Funding Conditions

Loan Repayment Term:	20
Reserve Funding Period:	6

ESTIMATED COST OF SEWER SERVICE

Principal Forgiveness	WQB Loan	Private Loan Amount	WQB Loan Interest Rate	Private Loan Interest Rate*	WQB Loan Debt Service	WQB Loan Reserve	Private Loan Debt Service	Annual Sewer	Existing Debt Service	Total Annual Sewer Cost	Monthly Sewer Cost/ERU	Sewer Cost as % of MAGI	Financial Burden
	0	1,358,500		3.20%	0	0	93,009	36,000	73,000	202,009	24.40	0.79%	LOW
	1,358,500	0	0.50%		71,547	17,887	0	36,000	73,000	198,434	23.97	0.78%	LOW
	1,358,500	0	1.00%		75,282	18,820	0	36,000	73,000	203,102	24.53	0.79%	LOW
	1,358,500	0	1.50%		79,127	19,782	0	36,000	73,000	207,909	25.11	0.81%	LOW
	1,358,500	0	2.00%		83,081	20,770	0	36,000	73,000	212,852	25.71	0.83%	LOW
	1,358,500	0	2.50%		87,144	21,786	0	36,000	73,000	217,930	26.32	0.85%	LOW

*Staff Estimate

ATTACHMENT 4- Lewiston Cost Model

ATTACHEMENT 4																												
Lewiston City - Water Quality Board																												
20 Year Loan Static Cost Model																												
Project Costs																												
Legal Bonding - Environmental														\$	40,000													
DWQ Loan Origination Fee														\$	21,000													
Engineering - Design & CMS														\$	433,000													
Collections														\$	-													
Lift station														\$	-													
Headworks														\$	-													
Treatment														\$	4,390,000													
Construction subtotal														\$	4,390,000													
Contingency (10%)														\$	439,000													
Total Project Cost:														\$	5,323,000													
Project Funding																												
Local Contribution														\$	144,000													
Requested Funding by WQB														\$	2,144,000													
WQB Existing Design Grant														\$	186,000													
WQB Existing Construction Grant														\$	314,000													
USDA-RD Existing Grant														\$	483,000													
USDA-RD Existing Loan														\$	2,052,000													
Total Project Cost:														\$	5,323,000													
ESTIMATED COST OF SEWER SERVICE																												
Principal Forgiveness + Existing Hardship Grant	WQB Loan	RD Grant including existing	Existing & Possible RD Loan	WQB Loan Interest Rate	Current RD Loan Interest Rate	WQB Loan Debt Service	WQB Loan Reserve	Market Loan Debt Service	Annual Sewer	Existing Debt Service	Total Annual Sewer Cost	Monthly Sewer Cost/ ERU	Sewer Cost as % of MAGI	Financial Burden														
500,000	0	911,800	3,767,200	0.00%	1.875%	0	0	168,390	121,500	0	289,890	86.28	2.20%	HIGH														
500,000	2,144,000	483,000	2,052,000	0.00%	1.875%	107,200	26,800	91,722	121,500	0	347,222	103.34	2.64%	HIGH														
1,000,000	1,644,000	483,000	2,052,000	0.00%	1.875%	82,200	20,550	91,722	121,500	0	315,972	94.04	2.40%	HIGH														
1,500,000	1,144,000	483,000	2,052,000	0.00%	1.875%	57,200	14,300	91,722	121,500	0	284,722	84.74	2.16%	HIGH														
2,000,000	644,000	483,000	2,052,000	0.00%	1.875%	32,200	8,050	91,722	121,500	0	253,472	75.44	1.93%	HIGH														
1,100,000	500,000	691,800	2,887,200	0.00%	1.875%	25,000	6,250	129,055	121,500	0	281,805	83.87	2.14%	HIGH														
1,274,000	226,000	711,800	2,967,200	0.00%	1.875%	11,300	2,825	132,631	121,500	0	268,256	79.84	2.04%	HIGH														
1,000,000	226,000	766,600	3,186,400	0.00%	1.875%	11,300	2,825	142,429	121,500	0	278,054	82.75	2.11%	HIGH														
1,500,000	226,000	666,600	2,786,400	0.00%	1.875%	11,300	2,825	124,549	121,500	0	260,174	77.43	1.98%	HIGH														
2,000,000	226,000	566,600	2,386,400	0.00%	1.875%	11,300	2,825	106,669	121,500	0	242,294	72.11	1.84%	Medium														
2,458,000	226,000	475,000	2,020,000	0.00%	1.875%	11,300	2,825	90,292	121,500	0	225,917	67.24	1.72%	Medium														
-Final Rows represent principal forgiveness less \$226,000 for planning and design as Utah Wastewater Loan Fund Loan in order to meet procurement requirements																												

ATTACHMENT 5- Hanksville Cost Model

**HANKSVILLE - Water Quality Board
 30 Year Loan Static Cost Model**

Project Costs

Legal/Bonding	\$	15,000
Loan Origination Fee	\$	25,000
Planning Advance	\$	36,600
Engineering - Design	\$	188,000
Engineering - CMS	\$	135,000
Wastewater Treatment Plant	\$	1,483,000
Contingency (13%)	\$	188,000
Total Project Cost:	\$	2,070,600

Current Customer Base & User Charges

Initial Total Customer (ERU's)	81
MAGI for Hanksville Town (2020):	\$25,400
Affordable Monthly Rate at 1.4%	\$29.63
Impact Fee (per ERU):	\$0
Current Monthly Fee (per ERU)	\$15.50
Debt Service	\$3,228
Annual O&M expense	\$13,250

Project Funding

Local Contribution	\$	26,000
Amount to be Funded	\$	2,044,600
WQB Grant	\$	-
Total Project Cost:	\$	2,070,600

Funding Conditions

Loan Repayment Term:	30
Reserve Funding Period:	6

ESTIMATED COST OF SEWER SERVICE

Principal Forgiveness	WQB Loan	Private Loan Amount	WQB Loan Interest Rate	Private Loan Interest Rate*	WQB Loan Debt Service	WQB Loan Reserve	Private Loan Debt Service	Annual Sewer	Existing Debt Service	Total Annual Sewer Cost	Monthly Sewer Cost/ ERU	Sewer Cost as % of MAGI	Financial Burden
	0	2,044,600	0.00%	3.50%	0	0	111,168	13,250	3228	127,646	131.32	6.20%	HIGH
	2,044,600	0	0.00%	3.50%	68,153	17,038	0	13,250	3228	101,670	104.60	4.94%	HIGH
1,200,000	844,600	0	0.00%	3.50%	28,153	7,038	0	13,250	3228	51,670	53.16	2.51%	HIGH
1,300,000	744,600	0	0.00%	3.50%	24,820	6,205	0	13,250	3228	47,503	48.87	2.31%	MEDIUM
1,400,000	644,600	0	0.00%	3.50%	21,487	5,372	0	13,250	3228	43,336	44.58	2.11%	MEDIUM
1,500,000	544,600	0	0.00%	3.50%	18,153	4,538	0	13,250	3228	39,170	40.30	1.90%	MEDIUM
1,600,000	444,600	0	0.00%	3.50%	14,820	3,705	0	13,250	3228	35,003	36.01	1.70%	LOW
1,650,000	394,600	0	0.00%	3.50%	13,153	3,288	0	13,250	3228	32,920	33.87	1.60%	LOW
1,700,000	344,600	0	0.00%	3.50%	11,487	2,872	0	13,250	3228	30,836	31.72	1.50%	LOW
1,750,000	294,600	0	0.00%	3.50%	9,820	2,455	0	13,250	3228	28,753	29.58	1.40%	LOW
1,800,000	244,600	0	0.00%	3.50%	8,153	2,038	0	13,250	3228	26,670	27.44	1.30%	LOW

ATTACHMENT 6- Springdale Cost Model

ATTACHEMENT 6													
Town of Springdale - Water Quality Board													
20 Year Loan Static Cost Model													
Project Costs							Current Customer Base & User Charges						
Legal/Bonding				\$	20,000						Initial Total Customer (ERU's)		1,291
DWO Loan Origination Fee				\$	40,000						MAGI for Springdale/Rockville (2020):		\$34,000
Engineering - Design & CMS				\$	411,500						Affordable Monthly Rate at 1.4%		\$39.67
General Construction		\$	235,000								Impact Fee (per ERU):		\$1,000
Filters		\$	1,540,000								Current Monthly Fee (per ERU)		\$24.65
Headworks		\$	603,000								Debt Service		\$0
Transfer Structure		\$	165,000								Annual O&M expense		\$500,000
Other		\$	287,700										
Construction subtotal					\$2,830,700								
Contingency (30%)					\$908,850								
Total Project Cost:					\$4,211,100								
							CIB Funding Conditions			Funding Conditions			
							Loan Repayment Term:	20	Loan Repayment Term: 20				
							Reserve Funding Period:	NA	Reserve Funding Period: 6				
Project Funding							ERUs Breakdown						
Local Contribution				\$	211,100								
Amount to be CIB					\$2,000,000								
Amount to be Funded					\$2,000,000								
WQB Grant				\$	-								
Total Project Cost:					\$ 4,211,100								
								Percent Flow	ERUs	To be funded by ERU Percent			
							Zion NP	40%	581	\$ 1,684,440			
							Hotels	35%	387	\$ 1,473,885			
							Residential	25%	323	\$ 1,052,775			
ESTIMATED COST OF SEWER SERVICE							SYSTEMWIDE CONNECTION (RESIDENTIAL AND INDUSTRY)						
Principal Forgiveness	WQB Loan	Market Loan Amount	WQB Loan Interest Rate	CIB Loan Interest Rate*	WQB Loan Debt Service	WQB Loan Reserve	Market Loan Debt Service	Annual Sewer	Existing Debt Service	Total Annual Sewer Cost	Monthly Sewer Cost/ ERU	Sewer Cost as % of MAGI	Financial Burden
	0	4,000,000		2.50%	0	0	256,589	500,000	0	756,589	48.84	1.72%	MEDIUM
	2,000,000	2,000,000	0.00%	0.00%	100,000	25,000	100,000	500,000	0	725,000	46.80	1.65%	MEDIUM
	2,000,000	2,000,000	2.50%	2.50%	128,294	32,074	128,294	500,000	0	788,662	50.91	1.80%	MEDIUM
\$2,000,000	0	2,000,000	0.00%	2.50%	0	0	128,294	500,000	0	628,294	40.56	1.43%	MEDIUM
750,000	302,775	2,947,225	0.00%	2.50%	15,139	3,785	189,056	500,000	0	707,979	45.70	1.61%	MEDIUM
ESTIMATED COST OF SEWER SERVICE							RESIDENTIAL CONNECTIONS ONLY						
	0	1,052,775		2.50%	0	0	67,532	125,000	0	192,532	49.67	1.75%	MEDIUM
	1,052,775	0	0.00%	2.50%	52,639	13,160	0	125,000	0	190,798	49.23	1.74%	MEDIUM
250,000	802,775	0	0.00%	2.50%	40,139	10,035	0	125,000	0	175,173	45.19	1.60%	MEDIUM
500,000	552,775	0	0.00%	2.50%	27,639	6,910	0	125,000	0	159,548	41.16	1.45%	MEDIUM
750,000	302,775	0	0.00%	2.50%	15,139	3,785	0	125,000	0	143,923	37.13	1.31%	LOW

ATTACHMENT 7- North Logan Cost Model

**North Logan - Water Quality Board
 20 Year Loan Static Cost Model**

Project Costs

Legal/Bonding	\$	50,000
DWQ Loan Origination Fee	\$	129,376
Engineering - Design & CMS	\$	100,000
<i>Phase 3 - Priority (Fall 2022)</i>	\$	1,950,000
<i>Phase 4.1 - 1500 N to 1800 N (2023)</i>	\$	3,200,000
<i>Phase 4.2 - 1200 N to 1400 N (2023)</i>	\$	1,200,000
<i>Phase 5 - Residential Development (2023-2025)</i>	\$	4,200,000
Construction subtotal	\$	10,550,000
Contingency (20%)	\$	2,110,000
Total Project Cost:	\$	12,937,600

Current Customer Base & User Charges

Initial Total Customer (ERUs)	3,231
MAGI for North Logan (2020):	\$51,900
Affordable Monthly Rate at 1.4%	\$60.55
Impact Fee (per ERU):	\$3,300
Current Monthly Fee (per ERU)	\$60.69
Debt Service	\$0
Annual O&M expense	\$2,101,000

Project Funding

Local Contribution	\$	-
Amount to be Funded	\$	12,937,600
WQB Grant	\$	-
Total Project Cost:	\$	12,937,600

Funding Conditions

Loan Repayment Term:	20
Reserve Funding Period:	6

ESTIMATED COST OF SEWER SERVICE

Principal Forgiveness	WQB Loan	Private Loan Amount	WQB Loan Interest Rate	Private Loan Interest Rate*	WQB Loan Debt Service	WQB Loan Reserve	Private Loan Debt Service	Annual Sewer	Existing Debt Service	Total Annual Sewer Cost	Monthly Sewer Cost/ ERU	Sewer Cost as % of MAGI	Financial Burden
-	0	12,937,600	0.00%	3.50%	0	0	910,303	2,101,000	0	3,011,303	77.67	1.80%	MEDIUM
-	12,937,600	0	0.00%	3.50%	646,880	161,720	0	2,101,000	0	2,909,600	75.04	1.74%	MEDIUM
-	3,500,000	9,437,600	1.00%	3.50%	193,954	48,488	664,040	2,101,000	0	3,007,482	77.57	1.79%	MEDIUM
-	3,500,000	9,437,600	2.00%	3.50%	214,049	53,512	664,040	2,101,000	0	3,032,600	78.22	1.81%	MEDIUM
-	3,500,000	9,437,600	3.00%	3.50%	235,255	58,814	664,040	2,101,000	0	3,059,108	78.90	1.82%	MEDIUM
-	2,600,000	10,337,600	1.00%	3.50%	144,080	36,020	727,365	2,101,000	0	3,008,464	77.59	1.79%	MEDIUM
-	2,600,000	10,337,600	2.00%	3.50%	159,007	39,752	727,365	2,101,000	0	3,027,124	78.08	1.81%	MEDIUM
-	2,600,000	10,337,600	3.00%	3.50%	174,761	43,690	727,365	2,101,000	0	3,046,816	78.58	1.82%	MEDIUM

*Staff Estimate

ATTACHMENT 8- Delta Cost Model

**ATTACHMENT 8
 Delta - Water Quality Board
 20 Year Loan Static Cost Model**

Project Costs

Legal/Bonding	\$	30,000
DWQ Loan Origination Fee	\$	170,000
Funding Admin	\$	20,000
Environmental Services	\$	35,000
UDOT Coordination	\$	8,000
Engineering - Planning, Design, & CMS	\$	1,279,000
<i>Collections</i>	\$	9,195,196
<i>Lift station</i>	\$	1,376,400
<i>Mobilization</i>	\$	800,000
<i>General Project Items</i>	\$	1,322,500
Construction subtotal	\$	12,694,096
Contingency	\$	2,615,904
Total Project Cost:	\$	16,852,000

Project Funding

ARPA Funds	\$	213,000
Amount to be Funded	\$	16,639,000
WQB Grant	\$	-
Total Project Cost:	\$	16,852,000

Current Customer Base & User Charges

Initial Total Customer (ERU's)	1,108
MAGI for Delta City (2020):	\$44,200
Affordable Monthly Rate at 1.4%	\$51.57
Impact Fee (per ERU):	\$0
Current Monthly Fee (per ERU)	\$28.00
Debt Service	\$0
Annual O&M expense	\$265,396

Funding Conditions

Loan Repayment Term:	20
Reserve Funding Period:	6

ESTIMATED COST OF SEWER SERVICE

Principal Forgiveness	WQB Loan	Private Loan Amount	WQB Loan Interest Rate	Private Loan Interest Rate*	WQB Loan Debt Service	WQB Loan Reserve	Private Loan Debt Service	Annual Sewer	Existing Debt Service	Total Annual Sewer Cost	Monthly Sewer Cost/ ERU	Sewer Cost as % of MAGI	Financial Burden
	0	16,639,000	0.00%	4.00%	0	0	1,224,327	265,396	0	1,489,723	112.04	3.04%	HIGH
	16,639,000	0	0.00%	4.00%	831,950	207,988	0	265,396	0	1,305,334	98.17	2.67%	HIGH
	16,639,000	0	0.50%	4.00%	876,317	219,079	0	265,396	0	1,360,792	102.35	2.78%	HIGH
	16,639,000	0	1.00%	4.00%	922,055	230,514	0	265,396	0	1,417,965	106.65	2.90%	HIGH
	16,639,000	0	1.50%	4.00%	969,151	242,288	0	265,396	0	1,476,834	111.07	3.02%	HIGH
	16,639,000	0	2.00%	4.00%	1,017,587	254,397	0	265,396	0	1,537,379	115.63	3.14%	HIGH
500,000	16,139,000	0	0.00%	4.00%	806,950	201,738	0	265,396	0	1,274,084	95.82	2.60%	HIGH
1,000,000	15,639,000	0	0.00%	4.00%	781,950	195,488	0	265,396	0	1,242,834	93.47	2.54%	HIGH
1,500,000	15,139,000	0	0.00%	4.00%	756,950	189,238	0	265,396	0	1,211,584	91.12	2.47%	HIGH
2,000,000	14,639,000	0	0.00%	4.00%	731,950	182,988	0	265,396	0	1,180,334	88.77	2.41%	HIGH

*Staff Estimate

ATTACHMENT 9- Central Valley Cost Model

Central Valley - Water Quality Board												
20 Year Loan Static Cost Model Additional Funding Request												
Project Costs						Current Customer Base & User Charges						
BNR Process Basins					\$ 126,200,000	Total ERU's (Projected 2020)					\$ 175,630	
Blower Building					\$ 51,000,000	Weighted Average MAGI (2021):					\$ 42,801	
Total Project Cost:					\$ 177,200,000	Affordable Monthly Rate at 1.4%					\$ 49.93	
Project Funding												
Cash from member entities					\$ 21,095,665	Current Impact Fee					Varies	
*South Salt Lake Funding					\$ 11,146,000	Current Average Monthly Fee (per ERU)					\$ 27.65	
Publicly issued bonds@3.5%					\$ 46,658,335	Existing O&M expenses Treatment & Collection					Varies	
WQB Loan Existing					\$ 65,100,000	New O&M expenses Treatment					\$ 28,798,976	
WQB Loan Requested					\$ 33,200,000	Existing Sewer Debt Service					Varies	
Total Project Cost:					\$ 177,200,000	Existing Treatment Debt Service					\$ 20,375,081	
*SSL Obtained Separate Financing Through the WQB for their portion of the project												
						Funding Conditions						
						Loan Repayment Term: 20						
						Reserve Funding Period: 6						
ESTIMATED COST OF SEWER SERVICE												
WQB Loan Amount	WQB Loan Interest Rate	Annual WQB Loan Debt Service	Existing WQB Debt Service	Required other new Debt Service Payments*	Weighted Interest Rate for Project	Annual Sewer O&M Cost	Total Annual Sewer Cost	Monthly Treatment Cost/ERU	Increase in Cost Per ERU/Month Treatment Only	Average Per ERU/Month Cost	Weighted Average MAGI	Weighted Average Burden
						\$ 28,798,976	\$ 49,174,057	\$ 23.33		\$ 27.02	0.76%	Low
\$ 33,200,000	0.00%	\$ 1,660,000	\$ 3,791,797	\$ 3,282,931	1.97%	\$ 28,798,976	\$ 57,908,785	\$ 27.48	\$ 4.14	\$ 31.17	0.87%	Low
\$ 33,200,000	1.00%	\$ 1,839,788	\$ 3,791,797	\$ 3,282,931	2.13%	\$ 28,798,976	\$ 58,088,573	\$ 27.56	\$ 4.23	\$ 31.25	0.88%	Low
\$ 33,200,000	1.10%	\$ 1,858,367	\$ 3,791,797	\$ 3,282,931	2.15%	\$ 28,798,976	\$ 58,107,152	\$ 27.57	\$ 4.24	\$ 31.26	0.88%	Low
\$ 33,200,000	1.30%	\$ 1,895,848	\$ 3,791,797	\$ 3,282,931	2.19%	\$ 28,798,976	\$ 58,144,632	\$ 27.59	\$ 4.26	\$ 31.28	0.88%	Low
\$ 33,200,000	1.35%	\$ 1,905,285	\$ 3,791,797	\$ 3,282,931	2.20%	\$ 28,798,976	\$ 58,154,070	\$ 27.59	\$ 4.26	\$ 31.28	0.88%	Low
\$ 33,200,000	1.50%	\$ 1,933,758	\$ 3,791,797	\$ 3,282,931	2.23%	\$ 28,798,976	\$ 58,182,543	\$ 27.61	\$ 4.27	\$ 31.30	0.88%	Low
\$ 33,200,000	1.78%	\$ 1,987,552	\$ 3,791,797	\$ 3,282,931	2.29%	\$ 28,798,976	\$ 58,236,337	\$ 27.63	\$ 4.30	\$ 31.32	0.88%	Low
\$ 33,200,000	2.00%	\$ 2,030,403	\$ 3,791,797	\$ 3,282,931	2.33%	\$ 28,798,976	\$ 58,279,188	\$ 27.65	\$ 4.32	\$ 31.34	0.88%	Low
\$ 33,200,000	3.50%	\$ 2,335,988	\$ 3,791,797	\$ 3,282,931	2.69%	\$ 28,798,976	\$ 58,584,772	\$ 27.80	\$ 4.47	\$ 31.49	0.88%	Low
*3.5% interest rate used for estimating other new debt service												

ATTACHMENT 9- Central Valley Cost Model (continued)

Central Valley - Water Quality Board
 20 Year Loan Static Cost Model Additional Funding Request

CENTRAL VALLEY CURRENT WEIGHTED AVERAGE MAGI CALCULATION				
Member Entity	MAGI	current monthly Average Bill	current % MAGI	Current ERUs
Cottonwood I.D.	\$ 50,400.00	\$ 20.00	0.48%	36,329
Granger-Hunter I.D.	\$ 36,400.00	\$ 29.50	0.97%	27,000
Kearns I.D.	\$ 37,300.00	\$ 39.99	1.29%	20,000
Murray City	\$ 45,200.00	\$ 56.28	1.49%	9,663
Mt. Olympus I.D.	\$ 45,200.00	\$ 21.00	0.56%	54,688
Taylorville-Bennion I.D.	\$ 41,400.00	\$ 28.86	0.84%	25,329
Weighted Average	\$42,800.59	\$27.02	0.77%	

Financial Burden Matrix					
FNI	Modified MAGI				
	Below 1.4%	1.4% to 1.75%	1.75% to 2.1%	2.1% to 2.45%	Above 2.45%
Below 1.5	Low	Low	Medium	Medium	High
1.5 to 2.5	Low	Medium	Medium	High	High
Above 2.5	Medium	Medium	High	High	High

CENTRAL VALLEY FINANCIAL NEED INDICATOR CALCULATION				
Member Entity	Unemployment Rate	Poverty Rate	Threshold LQI	Population Growth Rate
Cottonwood I.D.	3.58%	7.43%	\$ 39,447.50	31.28%
Granger-Hunter I.D.	4.20%	11.70%	\$ 34,429.00	8.49%
Kearns I.D.	4.60%	8.60%	\$ 40,896.00	4.98%
Murray City	4.20%	6.30%	\$ 33,595.00	5.83%
Mt. Olympus I.D.	4.20%	6.30%	\$ 33,595.00	5.83%
Taylorville-Bennion I.D.	4.50%	9.80%	\$ 37,209.00	2.72%
Weighted Average	4.10%	8.04%	\$ 35,785.06	10.87%
State Values	3.60%	9.10%	\$ 35,445.00	18.60%
Score	2.25	1.00	1.00	3.00
Weight	4.00	2.50	2.50	1.00
Weighted Score	9	2.5	2.5	3
Financial Need Indicator (Sum of weighted Scores/10)				1.7