Utah Water Quality Board Meeting
Via Zoom
Meeting Link

May 26, 2021
Board Meeting Begins at 8:30 am

AGENDA

Water Quality Board Meeting – Roll Call

A. Electronic Meeting Notice .......................................................................................................................... Jennifer Grant

B. Minutes:
   Approval of Minutes for April 28, 2021 Water Quality Board Meeting ........................................ Jennifer Grant

C. Executive Secretary’s Report .................................................................................................................. Erica Gaddis

D. Funding:
   1. Financial Report ............................................................................................................................. Krystol Carfaro
   2. Clarification of Appointment of Ken Hoffman as Official Signatory ................................................. Erica Gaddis

E. Other
   1. Wastewater Operator Certification Council Recognition of Service - Paul Fulgham & Brent Justensen
      ...................................................................................................................................................... Jennifer Grant
   2. Jordan River E. coli Total Maximum Daily Load Introduction......................................................... Sandy Wingert
   3. 2020 Triennial Review of Utah WQ Standards ................................................................................. Chris Bittner

G. Public Comment Period

H. Meeting Adjournment

Next Meeting June 23, 2021 at 8:30 am
DEQ Board Room 1015
195 North 1950 West
Salt Lake City, UT 84116
State of Utah

I, Jennifer Grant, Chair of the Water Quality Board, have determined that the May 26th 2021 meeting of the Water Quality Board will be held electronically without an anchor location.

This determination is based on the following facts:

1. Utah is currently dealing with Covid 19, which has been determined to be a pandemic. Covid 19 is extremely contagious and can be deadly to those who contract it, especially those of advanced age and underlying health conditions.

2. The Agency offices are in Salt Lake County, which is currently in the State’s moderate risk category.

3. A vast majority of Agency staff and the members of the Water Quality Board are teleworking to avoid unnecessary contact with others.

4. The Governor’s Office has made workplace adjustments for Executive Branch employees to return to the office. However, those adjustments do not take effect until May 31, 2021.

5. The Water Quality Board uses an electronic platform which allows interested parties to view the meeting, hear discussions and provide written comments.

Dated this 21st day of May, 2021.

Jennifer Grant
Chair, Water Quality Board

DWQ-2021-009849
MINUTES

UTAH DEPARTMENT OF ENVIRONMENTAL QUALITY
UTAH WATER QUALITY BOARD
Via Zoom

April 28, 2021
8:30 am Board Work Meeting
9:30 am Board Meeting

UTAH WATER QUALITY BOARD MEMBERS PRESENT
Steven Earley
Gregg Galecki
Jennifer Grant
Brandon Gordon
Mike Luers
Emily Niehaus
Kim Shelley
James Webb
James VanDerslice

DIVISION OF WATER QUALITY STAFF MEMBERS PRESENT
Robert Beers
Jennifer Berjikian
Emily Cantón
Krystol Carfaro
Eric Castrejon
Skyler Davies
Amy Dickey
Judy Etherington
Erica Gaddis
Jodi Gardberg
Dan Griffith
Angela Gunderson
Dan Hall
Samantha Heusser
Ken Hoffman
Brenda Johnson
Danielle Lenz
Glen Lischeske
Leanna Littler-Woolf
John Mackey
Christine Osborne
Winnie Pan
Andrew Pompeo
Jeanne Riley
Mark Stanger
Jeff Studenka
Sarah Ward
Sandy Wingert
Beth Wondimu

OTHERS PRESENT
Corey Twedt
Mayor David Hair
Chad Brown
Lance Houser
Kaden Figgins
Millville City
Millville City
Franson Civil Engineers
Franson Civil Engineers
Garfield County
Ms. Grant called the Work Meeting to order at 8:30 AM.

Presentation of Financial Burden Criteria – Draft Policy Discussion

Ms. Grant called the Board Meeting to order at 8:30 AM and took roll call for the members of the Board and audience.

Ms. Grant read the Electronic Meeting Notice regarding the Water Quality Board meeting being held electronically, April 28, 2021 without an anchor location.

APPROVAL OF MINUTES OF MARCH 24, 2021 BOARD MEETING

Motion: Dr. VanDerslice moved to approve the minutes of the March 24, 2021 Board meeting.

Ms. Niehaus seconded the motion. The motion passed unanimously with Mr. Earley recusing himself as he was not present at the March meeting.

EXECUTIVE SECRETARY REPORT
Dr. Gaddis updated the Water Quality Board regarding the following items.

National and Regional

American Rescue Plan Act (ARPA) of 2021 funding request to the Governor’s Office of Planning and Budget (GOPB). DEQ has prepared three requests for ARPA funding

- $48 million for Utah’s Rural Asset Management Program for Utility Planning (RAMP-UP Utah)
  - Grants for 47 disadvantaged communities (44 rural) to reduce existing debt for sewer projects
  - Incentivizes management-directed (annual) capital investments in community sewer infrastructure
  - Loan repayments will create an ongoing financing mechanism for Utah’s rural/hardship communities into the future
  - Early repayment to the Utah Wastewater Loan Fund addresses cash flow concerns for WQB to finance additional critical community infrastructure
  - Incentivizes annual and proactive investment for sewer infrastructure
- $100 million - wastewater infrastructure $50 million to loans and $50 million to grants
  - Represents about 25% of active construction/shovel ready around the state.
- $36 million - drinking water projects (12 projects) and $12 million allocated to lead in schools across the state.

American Jobs Act - $58 billion to upgrade and modernize America’s drinking water, wastewater and stormwater systems, tackle new contaminants, and support clean water infrastructure across rural America.
DWQ is considering a request for a septic replacement program and/or for modernizing several training programs including:

- Wastewater Operator Certification Program
- Registered Stormwater Inspector Program
- Onsite Training, and Nutrient Management Plan

State and Division Issues and Initiatives

Water Quality Board Upcoming

- Work Meeting
  - Hardship Criteria Policy
- Board Replacements
  - Jennifer Grant – Manufacturing Industry
  - Gregg Galecki – Mineral Industry
  - Emily Niehaus – Government Representative
  - Jim VanDerslice – Public Representative

Division Management

- Introduction of New Staff
  - Glen Lischeske - Engineering

FUNDING REQUESTS

Financial Report: Ms. Carfaro updated the Water Quality Board on the Loan Funds and Hardship Grant Funds as indicated in the packet.

Millville City – Additional Funding Request: Mr. Hoffman presented a request for a new wastewater collection system including house laterals and septic tank abandonment. Millville requests to utilize $1 million of $1.5 million for laterals and asks the Board to reauthorize the remaining $500,000 toward the collection system funding. In addition, Millville is requesting that the Board consider authorization of additional principal forgiveness funding.

Motion: Mr. Earley moved to approve the staff recommendation to unauthorize $500,000 of the Hardship Grant funding from the March 2020 funding package for private laterals and authorize an additional $3,000,000 in total funding including the unauthorized $500,000 as a loan for 30 years at 0% interest and $2,500,000 in principal forgiveness subject to the following special conditions:

1. Millville must agree to participate annually in the Municipal Wastewater Planning Program (MWPP).
2. As part of the facility planning, Millville must complete a Water Conservation and Management Plan.
3. Millville must pursue and retain funding necessary to fully implement the collection system project.
4. Millville must develop and implement an asset management program that is consistent with EPA’s Fiscal Sustainability Plan guidance.

Ms. Niehaus seconded the motion. The motion passed by a majority vote with Mr. Webb recusing himself as he missed most of the discussion and no response from Mr. Gordon.
AQUIFER CLASSIFICATION
Request for Public Hearing – Bryce Canyon Area Aquifer Classification: Ms. Ward requested authorization to conduct a public hearing for an aquifer classification petition for the Bryce Canyon Area, Garfield County, Utah with Ms. Wallace of the UGS presenting the petition to the Board.

Motion: Mr. Galecki moved to hold a public hearing for the Bryce Canyon Area Aquifer Classification. Mr. Galecki also volunteered to be the hearing officer.

Ms. Niehaus seconded the motion. The motion passed by a majority vote with no response from Mr. Gordon.

OTHER BUSINESS
Waste Water Operator Certification Council Annual Report for 2020: Mr. Burrell the WWOCC Chair presented the Board with the 2020 Annual Report for the Utah Wastewater Operator Certification Program.

Jordan River E. coli Total Maximum Daily Load Introduction: This preliminary briefing was deferred to the May 2021 Water Quality Board meeting due to time constraints.

Request for Public Comment – FY 2021 Intended Use Plan: Ms. Carfaro requested approval from the Board to send to public comment the FY 2021 Intended Use Plan (IUP).

Motion: Mr. Luers moved to send the FY 2021 Intended Use Plan (IUP) to public notice.

Mr. Webb and Mr. Galecki both seconded the motion. The motion passed with a majority vote with no response from Mr. Gordon and Ms. Niehaus.

PUBLIC COMMENTS
Ms. Kathy Ryan with the Green River City Council asked for assistance with an ongoing salinity issue in the Green River, Utah area.

MEETING ADJOURNMENT
Motion: Mr. Earley moved to adjourn the meeting.

Mr. Galecki seconded the motion. The motion passed unanimously.

To listen to the full recording of the Water Quality Board meeting.
https://deq.utah.gov/boards/utah-water-quality-board-meetings
Next Meeting – May 26, 2021
Meeting begins at 8:30 am
Via Zoom
https://us02web.zoom.us/j/7074990271

Jennifer Grant, Chair
Utah Water Quality Board

DWQ-2021-008004
## LOAN FUNDS FINANCIAL STATUS REPORT MAY 2021

### STATE REVOLVING FUND (SRF)

<table>
<thead>
<tr>
<th>Funds Available</th>
<th>State Fiscal Year</th>
<th>State Fiscal Year</th>
<th>State Fiscal Year</th>
<th>State Fiscal Year</th>
<th>State Fiscal Year</th>
<th>State Fiscal Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capitalization Grants Awards (FFY18 - 20)</td>
<td>14,635,801</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>State Match (FFY18 - 20)</td>
<td>1,671,600</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Future Capitalization Grants (estimated)</td>
<td>8,357,000</td>
<td>8,000,000</td>
<td>8,000,000</td>
<td>8,000,000</td>
<td>8,000,000</td>
<td>8,000,000</td>
</tr>
<tr>
<td>Future State Match (estimated)</td>
<td>1,671,400</td>
<td>1,600,000</td>
<td>1,600,000</td>
<td>1,600,000</td>
<td>1,600,000</td>
<td>1,600,000</td>
</tr>
<tr>
<td>SRF - 2nd Round</td>
<td>43,417,555</td>
<td>52,723,604</td>
<td>17,465,861</td>
<td>4,414,258</td>
<td>14,633,776</td>
<td>44,460,589</td>
</tr>
<tr>
<td>Interest Earnings at 0.4252%</td>
<td>30,769</td>
<td>224,181</td>
<td>74,265</td>
<td>18,769</td>
<td>62,223</td>
<td>189,046</td>
</tr>
<tr>
<td>Loan Repayments (5255)</td>
<td>2,195,775</td>
<td>18,554,076</td>
<td>17,484,132</td>
<td>20,400,749</td>
<td>20,164,590</td>
<td>20,115,402</td>
</tr>
<tr>
<td><strong>Total Funds Available</strong></td>
<td>71,979,900</td>
<td>81,101,861</td>
<td>44,624,258</td>
<td>34,433,776</td>
<td>44,460,589</td>
<td>74,365,038</td>
</tr>
</tbody>
</table>

### Project Obligations

- Central Valley Water Reclamation Facility: (8,324,000) (24,976,000) (6,800,000) - - -
- Duchesne City: (27,295) - - - - -
- Moab City: (80,000) - - - - -
- Provo City: (6,045,000) (28,000,000) (20,000,000) (8,800,000) - -
- South Salt Lake City (A): (630,000) (2,160,000) (234,000) - - -

### Loan Authorizations

- Millville City: (1,150,000) - - - - -
- South Davis Sewer District (with NPS): - (7,000,000) (7,176,000) - - -
- Mountain Green: - (1,500,000) (4,000,000) (1,500,000) - -
- Payson City: - (2,000,000) (9,500,000) - - -
- Millville: (3,000,000) - - - - -

### Planned Projects

None at this time

**Total Obligations**: (19,256,295) (63,636,000) (40,210,000) (19,800,000) - - -

**SRF Unobligated Funds**

<table>
<thead>
<tr>
<th></th>
<th>State Fiscal Year</th>
<th>State Fiscal Year</th>
<th>State Fiscal Year</th>
<th>State Fiscal Year</th>
<th>State Fiscal Year</th>
<th>State Fiscal Year</th>
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<tbody>
<tr>
<td></td>
<td>52,273,604</td>
<td>17,465,861</td>
<td>4,414,258</td>
<td>14,633,776</td>
<td>44,460,589</td>
<td>74,365,038</td>
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</tbody>
</table>

### UTAH WASTEWATER LOAN FUND (UWLF)

<table>
<thead>
<tr>
<th>Funds Available</th>
<th>State Fiscal Year</th>
<th>State Fiscal Year</th>
<th>State Fiscal Year</th>
<th>State Fiscal Year</th>
<th>State Fiscal Year</th>
<th>State Fiscal Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>UWLF</td>
<td>21,023,629</td>
<td>15,600,679</td>
<td>16,664,785</td>
<td>13,233,073</td>
<td>16,058,164</td>
<td>19,217,698</td>
</tr>
<tr>
<td>Loan Repayments (5260)</td>
<td>190,000</td>
<td>2,917,806</td>
<td>2,495,988</td>
<td>2,473,791</td>
<td>2,808,235</td>
<td>2,655,353</td>
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</table>

<table>
<thead>
<tr>
<th>General Obligations</th>
<th>State Fiscal Year</th>
<th>State Fiscal Year</th>
<th>State Fiscal Year</th>
<th>State Fiscal Year</th>
<th>State Fiscal Year</th>
<th>State Fiscal Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>State Match Transfers</td>
<td>(3,343,000)</td>
<td>(1,600,000)</td>
<td>(1,600,000)</td>
<td>(1,600,000)</td>
<td>(1,600,000)</td>
<td>(1,600,000)</td>
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<tr>
<td>DWQ Administrative Expenses</td>
<td>(412,950)</td>
<td>(1,636,200)</td>
<td>(1,636,200)</td>
<td>(1,636,200)</td>
<td>(1,636,200)</td>
<td>(1,636,200)</td>
</tr>
</tbody>
</table>

### Project Obligations

- Kane Co Water Conservancy Dist (Duck Creek): (400,000)
- South Salt Lake City (B): (1,457,000) (2,205,000) (1,779,000) - - -

### Loan Authorizations

- Spanish Fork: - (4,500,000) - - -

### Planned Projects

None at this time

*WQB Agenda Items*
## LOAN FUNDS FINANCIAL STATUS REPORT MAY 2021

<table>
<thead>
<tr>
<th>Total Obligations</th>
<th>(5,612,950)</th>
<th>(5,441,200)</th>
<th>(9,515,200)</th>
<th>(3,236,200)</th>
<th>(3,236,200)</th>
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<tbody>
<tr>
<td>UWLF Unobligated Funds</td>
<td>$15,600,679</td>
<td>$16,664,785</td>
<td>$13,233,073</td>
<td>$16,058,164</td>
<td>$19,217,698</td>
<td>$22,224,352</td>
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<tr>
<td>Total Loan Fund Balance</td>
<td>68,324,283</td>
<td>34,130,646</td>
<td>17,647,331</td>
<td>30,691,940</td>
<td>63,678,287</td>
<td>96,589,389</td>
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<tr>
<td>Project Reserve</td>
<td>-</td>
<td>(5,000,000)</td>
<td>(10,000,000)</td>
<td>(15,000,000)</td>
<td>(20,000,000)</td>
<td>(25,000,000)</td>
</tr>
<tr>
<td>Total Available Loan Funds</td>
<td>68,324,283</td>
<td>29,130,646</td>
<td>7,647,331</td>
<td>15,691,940</td>
<td>43,678,287</td>
<td>71,589,389</td>
</tr>
</tbody>
</table>

*WQB Agenda Items*
## HARDSHIP GRANT FUNDS (HGF)

### Funds Available

<table>
<thead>
<tr>
<th></th>
<th>State Fiscal Year 2021</th>
<th>State Fiscal Year 2022</th>
<th>State Fiscal Year 2023</th>
<th>State Fiscal Year 2024</th>
<th>State Fiscal Year 2025</th>
<th>State Fiscal Year 2026</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beginning Balance</td>
<td>995,282</td>
<td>865,476</td>
<td>1,115,830</td>
<td>1,504,626</td>
<td>2,789,273</td>
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</tr>
<tr>
<td>Federal HGF Beginning Balance (5250)</td>
<td>6,078,433</td>
<td>-</td>
<td>-</td>
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</tr>
<tr>
<td>State HGF Beginning Balance (5265)</td>
<td>2,182,451</td>
<td>-</td>
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<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Interest Earnings at 0.4252%</td>
<td>5,854</td>
<td>4,232</td>
<td>3,680</td>
<td>4,745</td>
<td>6,398</td>
<td>11,860</td>
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<tr>
<td>UWLF Interest Earnings at 0.4252%</td>
<td>14,899</td>
<td>66,334</td>
<td>70,859</td>
<td>56,267</td>
<td>68,279</td>
<td>81,714</td>
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<tr>
<td>Hardship Grant Assessments (5255)</td>
<td>171,191</td>
<td>707,904</td>
<td>1,106,077</td>
<td>1,030,544</td>
<td>1,934,499</td>
<td>767,302</td>
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<tr>
<td>Interest Payments - 5260</td>
<td>-</td>
<td>341,724</td>
<td>319,738</td>
<td>297,241</td>
<td>275,471</td>
<td>253,943</td>
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<tr>
<td>Advance Repayments</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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</tr>
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</table>

### Total Funds Available

Total Funds Available: 8,452,827 $2,115,476 $2,365,830 $2,504,626 $3,789,273 $3,904,093

### Financial Assistance Project Obligations

<table>
<thead>
<tr>
<th>Obligation Description</th>
<th>State Fiscal Year 2021</th>
<th>State Fiscal Year 2022</th>
<th>State Fiscal Year 2023</th>
<th>State Fiscal Year 2024</th>
<th>State Fiscal Year 2025</th>
<th>State Fiscal Year 2026</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eagle Mountain City - Construction Grant</td>
<td>(510,000)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Emigration Sewer Imp Dist - Planning Grant</td>
<td>(26,158)</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Kane Co Water Conservancy Dist (Duck Creek) - Hardship Grant</td>
<td>(3,034,500)</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Lewiston City - Design and Construction</td>
<td>(274,000)</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<td>-</td>
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<tr>
<td>Millville City - Design and Construction</td>
<td>(1,000,000)</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<td>-</td>
</tr>
<tr>
<td>Spanish Fork - Hardship Grant</td>
<td>-</td>
<td>(250,000)</td>
<td>(250,000)</td>
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</tr>
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</table>

### Non-Point Source/Hardship Grant Obligations

<table>
<thead>
<tr>
<th>Obligation Description</th>
<th>State Fiscal Year 2021</th>
<th>State Fiscal Year 2022</th>
<th>State Fiscal Year 2023</th>
<th>State Fiscal Year 2024</th>
<th>State Fiscal Year 2025</th>
<th>State Fiscal Year 2026</th>
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</thead>
<tbody>
<tr>
<td>Fitzgerald ARDL interest-rate buy down</td>
<td>(51,056)</td>
<td>-</td>
<td>-</td>
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<tr>
<td>McKees ARDL interest-rate buy down</td>
<td>(55,261)</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Munk Dairy ARDL interest-rate buy down</td>
<td>(16,017)</td>
<td>-</td>
<td>-</td>
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<tr>
<td>(FY12) Utah Department of Agriculture</td>
<td>(277,928)</td>
<td>-</td>
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<tr>
<td>(FY15) DEQ - Ammonia Criteria Study</td>
<td>(27,242)</td>
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<tr>
<td>(FY15) DEQ - Nitrogen Transformation Study</td>
<td>(14,500)</td>
<td>-</td>
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<tr>
<td>(FY17) DEQ - Utah Lake Water Quality Study</td>
<td>(348,301)</td>
<td>-</td>
<td>-</td>
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<tr>
<td>(FY20) Wasatch Co Health Dept Ground WQ Study</td>
<td>(18,387)</td>
<td>-</td>
<td>-</td>
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<tr>
<td>BYU - Bioassays to Investigate Nutrient Limitation</td>
<td>(652)</td>
<td>-</td>
<td>-</td>
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<tr>
<td>USU - Historic Trophic State/Nutrient Concentrations Paleo</td>
<td>(105,793)</td>
<td>-</td>
<td>-</td>
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<tr>
<td>FY 2018 - Remaining Payments</td>
<td>(39,739)</td>
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<td>FY 2019 - Remaining Payments</td>
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<td>FY 2020 - Remaining Payments</td>
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<td>FY 2021 - Remaining Payments</td>
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<tr>
<td>Future NPS Annual Allocations</td>
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<td>(1,000,000)</td>
<td>(1,000,000)</td>
<td>(1,000,000)</td>
<td>(1,000,000)</td>
<td>(1,000,000)</td>
</tr>
</tbody>
</table>

### Planned Projects

None at this time

### Total Obligations

Total Obligations: (7,457,546) $1,250,000 $1,250,000 $1,000,000 $1,000,000 $1,000,000

### HGF Unobligated Funds

HGF Unobligated Funds: $995,282 $865,476 $1,115,830 $1,504,626 $2,789,273 $2,904,093

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*WQB Agenda Items*
# State of Utah

## Wastewater Project Assistance Program

### Project Priority List

*As of May 14, 2021*

<table>
<thead>
<tr>
<th>Rank</th>
<th>Project Name</th>
<th>Funding Authorized</th>
<th>Total Points</th>
<th>Project Need</th>
<th>Potential Improvement</th>
<th>Population Affected</th>
<th>Special Consideration</th>
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<tbody>
<tr>
<td>1</td>
<td>South Davis Sewer District</td>
<td>x</td>
<td>138</td>
<td>50</td>
<td>18</td>
<td>10</td>
<td>60</td>
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<tr>
<td>2</td>
<td>Payson</td>
<td>x</td>
<td>120</td>
<td>35</td>
<td>17</td>
<td>8</td>
<td>60</td>
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<td>3</td>
<td>Spanish Fork Water Reclamation Facility</td>
<td>x</td>
<td>117</td>
<td>50</td>
<td>19</td>
<td>8</td>
<td>40</td>
</tr>
<tr>
<td>4</td>
<td>Millville City</td>
<td>x</td>
<td>114</td>
<td>45</td>
<td>46</td>
<td>3</td>
<td>20</td>
</tr>
<tr>
<td>5</td>
<td>Mountain Green</td>
<td>x</td>
<td>108</td>
<td>50</td>
<td>14</td>
<td>4</td>
<td>40</td>
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<tr>
<td>6</td>
<td>Fairview City</td>
<td></td>
<td>107</td>
<td>50</td>
<td>15</td>
<td>2</td>
<td>40</td>
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<td>7</td>
<td>San Juan Spanish Valley SSD</td>
<td>x</td>
<td>86</td>
<td>25</td>
<td>0</td>
<td>1</td>
<td>60</td>
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<tr>
<td>8</td>
<td>Wellington City</td>
<td>x</td>
<td>74</td>
<td>10</td>
<td>21</td>
<td>3</td>
<td>40</td>
</tr>
<tr>
<td>9</td>
<td>Lewiston City</td>
<td>x</td>
<td>67</td>
<td>10</td>
<td>16</td>
<td>1</td>
<td>40</td>
</tr>
</tbody>
</table>
MEMORANDUM

TO: Utah Water Quality Board

FROM: Erica Brown Gaddis, PhD
Division Director

DATE: May 26, 2021

SUBJECT: Clarification of Appointment of Ken Hoffman as Official Signatory

On October 28, 2020, the Board approved Ken Hoffman as the Water Quality Engineering Section Manager as official signatory for official documents associated with the Utah Wastewater Project Assistance Program.

This request is for the Water Quality Board to clarify in Ken Hoffman’s approved role as official signatory. For official documents associated with the Utah Wastewater Project Assistance Program Ken Hoffman will be conducting this role under the title of the Assistant Executive Secretary of the State of Utah Department of Environmental Quality Water Quality Board.

DWQ-2021-009457
MEMORANDUM

TO: Water Quality Board

THROUGH: Erica Brown Gaddis, Director, Division of Water Quality

FROM: Sandy Wingert, Watershed Protection Section

DATE: May 26, 2021

SUBJECT: Preliminary Briefing of the Jordan River Watershed-wide E. coli Total Maximum Daily Load Study

The Utah Division of Water Quality (DWQ) is developing a Jordan River Watershed-wide Total Maximum Daily Load (TMDL) Study to address impairments of the drinking water and recreational beneficial uses due to E. coli. This study addresses E. coli exceedances that resulted in Clean Water Act (CWA) Section 303(d) impairment listings of several assessment units in the Jordan River watershed in the 2006 through 2014 Integrated Reports. Staff will present an overview of the TMDL development strategy, analyses completed to date, and a timeline for completion to the Water Quality Board during the meeting scheduled for April 28, 2021.

Watershed Description

The Jordan River watershed is a part of the Great Salt Lake Basin which incorporates much of northern and western Utah as well as portions of Idaho, Wyoming, and Nevada. The total area of the Great Salt Lake Basin is about 35,000 mi². The Jordan River watershed comprises the downstream end of the Provo/Jordan River Basin and is one of three river basins that contribute flow to the Great Salt Lake. It has been heavily hydrologically modified to convey water across the valley predominantly for agricultural and municipal uses. Utah Lake is the single largest source of flows to the Jordan River. Other tributaries contribute flow from both east and west, but these, are subject to a complex network of diversions, return flows from canals, stormwater discharge, and exchange agreements between culinary and agricultural users. The Jordan River watershed incorporates all of Salt Lake County and some of the most densely populated areas of Utah.

Impaired Waterbodies

The 2016 Integrated Report states that 16% of the river miles assessed within the Jordan River watershed are failing to protect at least one of their designated uses; Beneficial Use Class 1C
(drinking water) and 2B (infrequent primary contact recreation) due to elevated levels of \textit{E. coli}. These impaired river miles are located within 13 assessment units (AUs) and include both east and west side tributaries and the main stem of the Jordan River from the confluence of Little Cottonwood Creek to the Great Salt Lake (Table 1 and Figure 1). These AUs are deemed a high priority for TMDL development due to the high recreational use, culinary use, ongoing TMDL studies and watershed planning, waterborne pathogen pollutant, and a combination of both point and non-point sources of pollution.
Figure 1. *E. coli* impaired assessment units within the Jordan River watershed.
Table 1. *E. coli* impaired assessment units within the Jordan River watershed.

<table>
<thead>
<tr>
<th>Assessment Unit</th>
<th>Description</th>
<th>Impaired Beneficial Use</th>
<th>Year Listed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jordan R-1</td>
<td>Jordan River from Farmington Bay upstream contiguous with the Davis County line</td>
<td>2B</td>
<td>2010</td>
</tr>
<tr>
<td>Jordan R-2</td>
<td>Jordan River from Davis County line upstream to North Temple Street</td>
<td>2B</td>
<td>2006</td>
</tr>
<tr>
<td>Jordan R-3</td>
<td>Jordan River from North Temple to 2100 South</td>
<td>2B</td>
<td>2006</td>
</tr>
<tr>
<td>Jordan R-4</td>
<td>Jordan River from 2100 South to the confluence with Little Cottonwood Creek</td>
<td>2B</td>
<td>2014</td>
</tr>
<tr>
<td>Jordan R-5</td>
<td>Jordan River from the confluence with Little Cottonwood Creek to 7800 South</td>
<td>2B</td>
<td>2006</td>
</tr>
<tr>
<td>Mill Creek-1</td>
<td>Mill Creek from confluence with Jordan River to Interstate 15 crossing</td>
<td>2B</td>
<td>2014</td>
</tr>
<tr>
<td>Mill Creek-2</td>
<td>Mill Creek and tributaries from Interstate 15 to USFS Boundary</td>
<td>2B</td>
<td>2008 (FC)</td>
</tr>
<tr>
<td>Little Cottonwood-1</td>
<td>Little Cottonwood Creek and tributaries from Jordan River to Metropolitan WTP</td>
<td>2B</td>
<td>2014</td>
</tr>
<tr>
<td>Big Cottonwood-1</td>
<td>Big Cottonwood Creek and tributaries from Jordan River to Big Cottonwood WTP</td>
<td>2B</td>
<td>2014</td>
</tr>
<tr>
<td>Lower Emigration</td>
<td>Emigration Creek and tributaries from Jordan River to stream gage at Rotary Glen Park</td>
<td>2B</td>
<td>2014</td>
</tr>
<tr>
<td>Parley’s-1</td>
<td>Parleys Canyon Creek and tributaries from 1300 East to Mountain Dell Reservoir</td>
<td>1C/2B</td>
<td>2010</td>
</tr>
<tr>
<td>Rose</td>
<td>Rose Creek and tributaries from confluence with Jordan River to headwaters</td>
<td>2B</td>
<td>2014</td>
</tr>
<tr>
<td>Butterfield/Midas</td>
<td>Butterfield Creek and tributaries from confluence with Jordan River to headwaters</td>
<td>2B</td>
<td>2014</td>
</tr>
</tbody>
</table>
Approach
Per requirements of Section 303(d) of the CWA, states assess water quality and identify impaired waters. The purpose of developing TMDLs for these impaired waters is to restore, protect, and maintain the quality of waters of the state for their designated beneficial uses. It is the Division of Water Quality’s policy to develop plans and strategies through a locally led, collaborative process with the Jordan River Commission, Jordan River Watershed Council, Salt Lake County Stormwater Coalition and other stakeholders.

TMDLs include a thorough assessment of defined beneficial uses and their associated water quality standards, a determination of the pollutant loading capacity of impaired waters, excess pollutant loads, significant sources of pollutant loading, and an allocation of pollutant loads to those sources. The pollutant loading evaluation includes both point and nonpoint sources in addition to defining a margin of safety to account for the analytical uncertainty associated with the development of the TMDL.

E. coli, unlike other pollutants, are living organisms and can multiply and persist in soil and water environments. Use of watershed models for estimating relative loads is warranted for these analyses given the intensive hydrological modifications, diverse pollutant sources, and permitted point sources allocations within the drainage. The technical approach includes using the Bacteria Source Load Calculator to characterize bacteria source inputs for a larger watershed scale model, Hydrological Simulation Program – FORTRAN (HSPF). This dynamic model allows for the simulation of land and soil contaminant runoff processes with in-stream hydraulic and sediment-chemical interactions. Model outputs can then be used to determine appropriate pollutant loads and reductions necessary to protect Jordan River watershed’s beneficial uses.

Following the analysis of water quality data, a project implementation plan will be prepared that outlines strategies to decrease pollutants where feasible, attain water quality standards, and restore the river to full support status. The project implementation plan will also include an evaluation of existing best management practices and completed implementation projects in the watershed. The implementation plan will satisfy requirements for obtaining federal 319 funding and provide reasonable assurance that the non-point source load reductions identified in the TMDL will be achieved.

Schedule
DWQ Staff and cooperators (Salt Lake County) have collected water quality data throughout the Jordan River watershed to support these studies since 2006. In 2019, staff met with key stakeholders (Jordan River Watershed Council, Salt Lake County Stormwater Coalition) to determine possible sources and direct future monitoring efforts. The official kick-off meeting was held on February 5, 2019 at the Jordan River Watershed Council meeting where staff introduced the background information of assessment listings and TMDL development. Model selection and development occurred in 2020. Future stakeholder meetings will focus on data summaries, watershed characterization, and model introduction. Monitoring is on-going.
September 2022 is the goal date for submission to EPA for final approval (Table 2).

Table 2. Jordan River watershed E. coli TMDL development schedule.

<table>
<thead>
<tr>
<th>Date</th>
<th>Schedule</th>
</tr>
</thead>
<tbody>
<tr>
<td>February 5, 2019</td>
<td>Kickoff Stakeholder Meeting (Jordan River Watershed Council)</td>
</tr>
<tr>
<td>March 21, 2021</td>
<td>Salt Lake County Stormwater Coalition: TMDL Update</td>
</tr>
<tr>
<td>April 21, 2021</td>
<td>Salt Lake County Stormwater Coalition: TMDL Tracking Tool Update</td>
</tr>
<tr>
<td>April 28, 2021</td>
<td>Water Quality Board Introduction</td>
</tr>
<tr>
<td>June 2021</td>
<td>HSPF Model Update Complete</td>
</tr>
<tr>
<td>June 2021</td>
<td>Jordan River Commission Technical Advisory Committee: TMDL and Model Introduction</td>
</tr>
<tr>
<td>Summer 2021</td>
<td>HSPF Model Calibration and Validation</td>
</tr>
<tr>
<td>Fall 2021</td>
<td>HSPF Model Scenario, Report Writing</td>
</tr>
<tr>
<td>Fall 2021</td>
<td>Stakeholder Meeting: Model Scenario Discussion</td>
</tr>
<tr>
<td>Winter 2021</td>
<td>Model Report, TMDL Report Writing</td>
</tr>
<tr>
<td>Winter 2021</td>
<td>Stakeholder Meeting (if necessary)</td>
</tr>
<tr>
<td>1st Quarter 2022</td>
<td>Internal Draft Report</td>
</tr>
<tr>
<td>2nd Quarter 2022</td>
<td>Stakeholder meeting &amp; Stakeholder Draft Due</td>
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<tr>
<td>June 2022</td>
<td>Water Quality Board preliminary approval &amp; initiate rule-making</td>
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<tr>
<td>July 2022</td>
<td>30-day rulemaking process</td>
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<tr>
<td>August 2022</td>
<td>Address public comments</td>
</tr>
<tr>
<td>September 2022</td>
<td>Water Quality Board request for formal adoption into rule Submit to EPA for final approval</td>
</tr>
</tbody>
</table>
MEMORANDUM

TO: Water Quality Board

THROUGH: Erica Gaddis, PhD, Director

FROM: Chris Bittner, Standards Coordinator

DATE: May 26, 2021

SUBJECT: Informational Item - Completion of the 2020 Water Quality Standards Triennial Review

Water quality standards are the foundation for the Clean Water Act programs administered by DWQ. Designated uses, narrative and numeric criteria, and antidegradation policies comprise the standards and only the Board has the authority to revise these standards. Utah is required by R317-2-1C and 40 CFR § 131.20 to review our water quality standards at least once every 3 years and this process is called the triennial review. Although potential improvements to the standards are considered when they are identified, the triennial review provides a formal opportunity for the Board, staff, EPA and the public to recommend changes.

Staff informed the Board of commencement of the 2020 triennial review at the June, 2020 meeting. DWQ subsequently published a public notice to solicit comments and convened a public hearing. Only EPA submitted comments.

The primary outcome of the review is a list of potential standards revisions to be considered over the next 3 years. The list does not preclude higher priority revisions not currently identified. The Responsiveness Summary includes the public notice, comments received, comment responses, and the list of priorities. Staff will review the list of the upcoming priorities at the Board meeting.

DWQ-2021-009459