



State of Utah

GARY R. HERBERT
Governor

SPENCER J. COX
Lieutenant Governor

Department of
Environmental Quality

Alan Matheson
Executive Director

DIVISION OF WATER QUALITY
Walter L. Baker, P.E.
Director

Water Quality Board
Myron E. Bateman, Chair
Shane E. Pace, Vice-Chair
Clyde L. Bunker
Steven K. Earley
Gregg A. Galecki
Jennifer Grant
Michael D. Luers
Alan Matheson
Walter L. Baker
Executive Secretary

Utah Water Quality Board Meeting
DEQ Building Board Room 1015
195 N 1950 W
Salt Lake City, UT 84116
February 24, 2016

Work Meeting Begins @ 8:30 a.m.

Ground Water Section Dan Hall

Board Meeting Begins @ 9:30 a.m.
AGENDA

- A. **Water Quality Board Meeting – Roll Call**
- B. (Tab 1) **Minutes:**
Approval of Minutes for January 27, 2016 WQ Board Meeting Myron Bateman
- C. **Executive Secretary’s Report** Walt Baker
- D. **Legislative Update** Walt Baker
- E. (Tab 2) **Funding Requests:**
 - 1. Financial Report Emily Cantón
 - 2. Tooele Request: *Hardship Planning Grant* Lisa Nelson
 - 3. Monitoring Gold King Mine Release Request: *Hardship Grant* Erica Gaddis
- F. (Tab 3) **Rulemaking:**
 - 1. Request to Adopt Amendment to Rule R317-1-3.3: *Technology-Based Phosphorus Effluent Limits* John Mackey
- G. (Tab 4) **Other Business:**
 - 1. Enforcement Update Leah Ann Lamb

Next Meeting March 23, 2016
DEQ Building Board Room 1015
195 North 1950 West
Salt Lake City, Utah 84116

Revised 2/17/2016

In compliance with the American Disabilities Act, individuals with special needs (including auxiliary communicative aids and services) should contact Ashley Nelsen, Office of Human Resources, at (801) 903-3978, TDD (801) 903-3978, at least five working prior to the scheduled meeting



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MINUTES

UTAH DEPARTMENT OF ENVIRONMENTAL QUALITY

UTAH WATER QUALITY BOARD

DEQ Building Board Room – 1015

195 North 1950 West

Salt Lake City, UT 84116

January 27, 2016

UTAH WATER QUALITY BOARD MEMBERS PRESENT

Alan Matheson	Jennifer Grant
Steven Earley	Michael Luers
Gregg Galecki	Shane Pace
Myron Bateman	Clyde Bunker

DIVISION OF WATER QUALITY STAFF MEMBERS PRESENT

Erica Gaddis, Leah Ann Lamb, Jenny Potter, Ally Gagon, Marsha Case, Nicole Froula, Jeff Studenka, William Damery, John Mackey, Rhonda Thiele, Judy Etherington, Emily Cantón, Lisa Nelson, Jennifer Robinson and Paul Krauth.

OTHERS PRESENT

<u>Name</u>	<u>Organization Representing</u>
Ross Sollars	AEEC
Jesse Stewart	Salt Lake City
Cory Angerth	U.S. Geological Survey
Jeff Beckman	Bowen Collins
Rob Dubuc	Western Resources
Douglas Nelsen	Sunrise Engineering
Justin Atkinson	Sunrise Engineering
Giles Demke	Salt Lake City Water Reclamation
Sandra Allen	Attorney General's Office
Debra Meyers	USDA
Lance Kovel	USDA
Zane DeWeese	Coalville City
Trever Johnson	Coalville City
Jim Goodley	J-U-B Engineering

Kenny Eppich
Keith Broadhead
Jim Olson
Linda Gould

Mt. Olympus District
Epic Engineering
Brown & Caldwell
DEQ Air Quality

Myron Bateman called the Board meeting to order at 9:35 AM and took roll call for the members of the Board and audience.

APPROVAL OF MINUTES OF THE DECEMBER 7, 2015 MEETING

Motion: It was moved by Mr. Pace to approve the minutes for the December 7, 2015 meeting. Mr. Galecki seconded the motion. The motion was unanimously passed. Mr. Bunker abstained from the vote.

EXECUTIVE SECRETARY REPORT

- Mr. Baker updated the board on the Gold King Mine Spill. New Mexico and various other entities including Colorado are seeking damages from the EPA. Utah has not started this process, but a meeting will be held with EPA on February 5th to get updates and continue to move forward on how Utah will proceed forward. The Attorney General's office is working with DEQ directly on this matter. Utah will be asking EPA and its contractors to assuage our concerns over the increase in loadings of metals coming from Colorado mines and the impact they could have for the future. DWQ has largely been made financially whole by the State Emergency Management office for the costs of our efforts responding to the spill. The State will now seek to be reimbursed by EPA.
- POTW peer review legislation and DWQ met with the POTW group and its attorneys and gave input on improving the suggested bill. Currently, the bill has not been numbered and is a protected document. We see five main unacceptable issues and although improvements have been made, they are not resolved yet. Mr. Baker will keep the board updated on this bill as it moves on the hill. Mr. Luers wanted the record to reflect that he is not part of the group of six POTWs sponsoring the legislation, nor has he been invited to participate in the crafting of the legislation.
- Sales tax bill update, involving Senate Bill 80, by Stuart Adams. The purpose of the bill is to take 1/16% of the sales tax that is allocated to transportation projects and put it into water programs specifically a restricted account dedicated to Bear River development and the Lake Powell pipeline projects. There is also some discussion on removing all sales tax earmarks for water projects. SB 80 will be heard today in a committee meeting and we will keep the Board updated.
- Spills DWQ has had a spill coordinator since June 2015 when Doug Wong was hired. He was a dedicated employee. In October, we were advised by him that he was ill with pancreatic cancer. He passed away in December 2015. DWQ is saddened by this loss. We are working on filling his position.
- Mr. Baker turned the time over to Mr. Matheson who updated the Board on the legislative session. He discussed the following events that are up and coming:
 - DEQ's first legislative hearing was yesterday.
 - DEQ is currently working on 25 projects to improve the Department and 11 are being measured by the SUCCESS program.

FUNDING REQUESTS

Financial Reports: Ms. Cantón updated the Board on the Loan Funds, and Hardship Grant Funds, as seen in the Board Packet on pages 5-6.

Coalville: *Hardship Grant Request:* Ms. Nelson presented the request of a hardship grant for \$100,000 to fund repairs to their South Lift Station and the purchase of a dedicated Biosolids dump truck.

Motion: Following a discussion, a motion was made by Mr. Pace to approve hardship grant of \$100,000, Mr. Galecki seconded the motion. The motion was passed. Mr. Bunker opposed the motion.

OTHER BUSINESS

Long-term Groundwater Monitoring in Utah: Mr. Angeroth (USGS) gave a presentation on the ground water monitoring program, included in the packet on pages 17-164.

Salt Lake City MS4 Consent Decree: *Request to Proceed:* Mr. Studenka requested Board approval to proceed with the EPA joint Consent Decree Settlement Agreement for Salt Lake County MS4 Program, UPDES Permit No. UTS000001. The terms of the settlement are as follows: monetary penalty paid to EPA \$140,000; monetary penalty paid to DWQ \$140,000; optional mitigation projects (may offset a portion of payment to DWQ) TBD; total settlement \$280,000. Details are included in the packet and can be found on pages 165-213

Motion: Following a discussion, a motion was made by Mr. Luers to approve the Settlement Agreement, Mr. Pace seconded the motion. The motion unanimously passed.

Appointments to Wastewater Operator Certification Council: Ms. Etherington recommended to the board the nominations for the 2016-2019 Wastewater Operator Certification Council. The details of the nominations are on pages 214-215 of the board packet.

Motion: Following a discussion, a motion was made by Mr. Pace to approve the nominations for Wastewater Operator Certification Council, Mr. Bunker seconded the motion. The motion unanimously passed.

To listen to the full recording of the Board meeting go to: <http://www.utah.gov/pmn/index.html>

**Next Meeting February 24, 2016
DEQ Building Board Room 1015
195 North 1950 West
Salt Lake City, UT 84116**

Myron Bateman, Chair
Utah Water Quality Board

**LOAN FUNDS
FINANCIAL PROJECTIONS**

	3rd Qtr FY 2016 Jan - Mar 2016	4th Qtr FY 2016 Apr - June 2016	1st Qtr FY 2017 July - Sept 2016	2nd Qtr FY 2017 Oct - Dec 2016	3rd Qtr FY 2017 Jan - Mar 2017	4th Qtr FY 2017 Apr - June 2017	1st Qtr FY 2018 July - Sept 2017	2nd Qtr FY 2018 Oct - Dec 2017	3rd Qtr FY 2018 Jan - Mar 2018	4th Qtr FY 2018 Apr - June 2018	1st Qtr FY 2019 July - Sept 2018	2nd Qtr FY 2019 Oct-Dec 2018
STATE REVOLVING FUND (SRF)												
Funds Available												
SRF - 1st Round (LOC) 2014 Cap Grant	2,049,381	-	-	-	-	-	-	-	-	-	-	-
Less: 2014 Principal Forgiveness Amount	(600,934)	-	-	-	-	-	-	-	-	-	-	-
SRF - 1st Round (LOC) 2015 Cap Grant	6,924,000	-	-	-	-	-	-	-	-	-	-	-
State Match	1,465,154	-	-	-	-	-	-	-	-	-	-	-
SRF - 2nd Round	87,985,593	97,599,598	70,896,110	60,939,106	52,637,682	47,389,336	41,176,793	33,205,518	23,492,357	18,232,911	22,072,745	24,101,301
Interest Earnings at 0.6%	131,978	121,999	88,620	76,174	65,797	59,237	51,471	41,507	29,365	22,791	27,591	30,127
Loan Repayments	682,425	3,571,513	1,954,376	1,622,402	4,685,856	3,728,221	1,977,254	1,195,332	4,711,189	3,817,043	2,000,965	1,455,512
Total Funds Available	98,637,598	101,293,110	72,939,106	62,637,682	57,389,336	51,176,793	43,205,518	34,442,357	28,232,911	22,072,745	24,101,301	25,586,940
Project Obligations												
Eureka City	(400,000)	-	-	-	-	-	-	-	-	-	-	-
Francis City	(638,000)	-	-	-	-	-	-	-	-	-	-	-
Loan Authorizations												
Logan City	-	-	(10,000,000)	(10,000,000)	(10,000,000)	(10,000,000)	(10,000,000)	(10,000,000)	(10,000,000)	-	-	-
Anticipated Projects												
Ammonia Projects	-	-	-	-	-	-	-	-	-	-	-	(13,647,000)
Phosphorus Projects	-	-	-	-	-	-	-	-	-	-	-	(23,377,500)
Bear Lake SSD	-	-	(2,000,000)	-	-	-	-	-	-	-	-	-
Moab City	-	(10,497,000)	-	-	-	-	-	-	-	-	-	-
Payson City	-	(6,900,000)	-	-	-	-	-	-	-	-	-	-
Salem City	-	(13,000,000)	-	-	-	-	-	-	-	-	-	-
Wellington City	-	-	-	-	-	-	-	(950,000)	-	-	-	-
Total Obligations	(1,038,000)	(30,397,000)	(12,000,000)	(10,000,000)	(10,000,000)	(10,000,000)	(10,000,000)	(10,950,000)	(10,000,000)	-	-	(37,024,500)
SRF Unobligated Funds	\$ 97,599,598	\$ 70,896,110	\$ 60,939,106	\$ 52,637,682	\$ 47,389,336	\$ 41,176,793	\$ 33,205,518	\$ 23,492,357	\$ 18,232,911	\$ 22,072,745	\$ 24,101,301	\$ (11,437,560)

	3rd Qtr FY 2016 Jan - Mar 2016	4th Qtr FY 2016 Apr - June 2016	1st Qtr FY 2017 July - Sept 2016	2nd Qtr FY 2017 Oct - Dec 2016	3rd Qtr FY 2017 Jan - Mar 2017	4th Qtr FY 2017 Apr - June 2017	1st Qtr FY 2018 July - Sept 2017	2nd Qtr FY 2018 Oct - Dec 2017	3rd Qtr FY 2018 Jan - Mar 2018	4th Qtr FY 2018 Apr - June 2018	1st Qtr FY 2019 July - Sept 2018	2nd Qtr FY 2019 Oct-Dec 2018
UTAH WASTEWATER LOAN FUND (UWLF)												
Funds Available												
UWLF	\$ 17,370,771	\$ 13,328,092	\$ 13,798,580	\$ 14,825,263	\$ 15,808,613	\$ 17,102,043	\$ 19,114,797	\$ 20,178,580	\$ 21,242,930	\$ 22,504,360	\$ 24,566,367	\$ 25,598,250
Sales Tax Revenue	-	-	896,875	896,875	896,875	896,875	896,875	896,875	896,875	896,875	896,875	896,875
Loan Repayments	29,000	1,300,012	469,333	426,000	736,080	1,455,404	506,433	507,000	704,080	1,504,657	474,533	514,000
Total Funds Available	17,399,771	14,628,105	15,164,788	16,148,138	17,441,568	19,454,322	20,518,105	21,582,455	22,843,885	24,905,892	25,937,775	27,009,125
General Obligations												
State Match Transfer	(1,465,154)	-	-	-	-	-	-	-	-	-	-	-
DWQ Administrative Expenses	(339,525)	(339,525)	(339,525)	(339,525)	(339,525)	(339,525)	(339,525)	(339,525)	(339,525)	(339,525)	(339,525)	(339,525)
Project Obligations												
Helper City	(1,157,000)	-	-	-	-	-	-	-	-	-	-	-
Murray City	(1,110,000)	-	-	-	-	-	-	-	-	-	-	-
Loan Authorizations												
Eagle Mountain City - White Hills	-	(490,000)	-	-	-	-	-	-	-	-	-	-
Planned Projects												
None at this time	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligations	(4,071,679)	(829,525)	(339,525)	(339,525)	(339,525)	(339,525)	(339,525)	(339,525)	(339,525)	(339,525)	(339,525)	(339,525)
UWLF Unobligated Funds	\$ 13,328,092	\$ 13,798,580	\$ 14,825,263	\$ 15,808,613	\$ 17,102,043	\$ 19,114,797	\$ 20,178,580	\$ 21,242,930	\$ 22,504,360	\$ 24,566,367	\$ 25,598,250	\$ 26,669,600

**HARDSHIP GRANT FUNDS
FINANCIAL PROJECTIONS**

HARDSHIP GRANT FUNDS (HGF)	3rd Qtr FY 2016	4th Qtr FY 2016	1st Qtr FY 2017	2nd Qtr FY 2017	3rd Qtr FY 2017	4th Qtr FY 2017	1st Qtr FY 2018	2nd Qtr FY 2018	3rd Qtr FY 2018	4th Qtr FY 2018	1st Qtr FY 2019	2nd Qtr FY 2019
	Jan - Mar 2016	Apr - June 2016	July - Sept 2016	Oct - Dec 2016	Jan - Mar 2017	Apr - June 2017	July - Sept 2017	Oct - Dec 2017	Jan - Mar 2018	Apr - June 2018	July - Sept 2018	Oct-Dec 2018
Funds Available												
Beginning Balance	\$ -	\$ 3,655,997	\$ 3,603,844	\$ 1,206,133	\$ 1,334,491	\$ 1,600,875	\$ 2,688,312	\$ 2,143,686	\$ 2,275,086	\$ 2,517,961	\$ 3,380,604	\$ 2,815,621
Federal HGF Beginning Balance	5,971,652	-	-	-	-	-	-	-	-	-	-	-
State HGF Beginning Balance	666,529	-	-	-	-	-	-	-	-	-	-	-
2014 Principal Forgiveness Amount	600,934	-	-	-	-	-	-	-	-	-	-	-
Interest Earnings at 0.6%	9,957	4,570	4,505	1,508	1,668	2,001	3,360	2,680	2,844	3,147	4,226	3,520
UWLF Interest Earnings at 0.6%	26,056	16,660	17,248	18,532	19,761	21,378	23,893	25,223	26,554	28,130	30,708	31,998
Hardship Grant Assessments	-	930,197	402,201	-	201,698	860,685	379,454	-	180,346	787,051	356,178	-
Interest Payments	7,760	222,420	53,335	108,319	43,257	203,374	48,667	103,497	33,132	44,313	43,906	98,569
Advance Repayments	-	-	-	-	-	-	-	-	-	-	-	-
Total Funds Available	7,282,888	4,829,844	4,081,133	1,334,491	1,600,875	2,688,312	3,143,686	2,275,086	2,517,961	3,380,604	3,815,621	2,949,707
Project Obligations												
Coalville - Hardship Grant	(100,000)	-	-	-	-	-	-	-	-	-	-	-
DWQ-Central Utah Public Health Dept - Planning Grant	(50,000)	-	-	-	-	-	-	-	-	-	-	-
Eagle Mountain City - White Hills - Construction Grant	-	(580,000)	-	-	-	-	-	-	-	-	-	-
Eureka City - Construction Grant	-	(646,000)	-	-	-	-	-	-	-	-	-	-
Emigration Sewer Imp Dist - Planning Grant	(60,000)	-	-	-	-	-	-	-	-	-	-	-
Francis City - Construction Grant	-	-	(1,875,000)	-	-	-	-	-	-	-	-	-
TriCounty Health Dept. - Planning Grant	(45,000)	-	-	-	-	-	-	-	-	-	-	-
Wellington - Planning Advance	(32,000)	-	-	-	-	-	-	-	-	-	-	-
Planned Projects												
*Tooele County - Planning Grant	(95,000)	-	-	-	-	-	-	-	-	-	-	-
Non-Point Source Project Obligations												
(FY11) Gunnison Irrigation Company	(48,587)	-	-	-	-	-	-	-	-	-	-	-
(FY11) DEQ - Willard Spur Study	(210,559)	-	-	-	-	-	-	-	-	-	-	-
(FY12) UDAF	(717,351)	-	-	-	-	-	-	-	-	-	-	-
(FY13) DEQ - Great Salt Lake Advisory Council	(339,418)	-	-	-	-	-	-	-	-	-	-	-
(FY14) UACD	(47,394)	-	-	-	-	-	-	-	-	-	-	-
(FY15) DEQ - Ammonia Criteria Study	(75,000)	-	-	-	-	-	-	-	-	-	-	-
(FY15) DEQ - Nitrogen Transformation Study	(150,000)	-	-	-	-	-	-	-	-	-	-	-
FY 2011 - Remaining Payments	(3,800)	-	-	-	-	-	-	-	-	-	-	-
FY 2012 - Remaining Payments	(59,540)	-	-	-	-	-	-	-	-	-	-	-
FY 2013 - Remaining Payments	(83,109)	-	-	-	-	-	-	-	-	-	-	-
FY 2014 - Remaining Payments	(232,369)	-	-	-	-	-	-	-	-	-	-	-
FY 2015 - Remaining Payments	(532,699)	-	-	-	-	-	-	-	-	-	-	-
FY 2016 Allocation	(845,065)	-	-	-	-	-	-	-	-	-	-	-
FY 2017 Allocation	-	-	(1,000,000)	-	-	-	-	-	-	-	-	-
FY 2018 Allocation	-	-	-	-	-	-	(1,000,000)	-	-	-	-	-
FY 2019 Allocation	-	-	-	-	-	-	-	-	-	-	(1,000,000)	-
Non-Point Source Projects in Planning												
None at this time	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligations	(3,626,891)	(1,226,000)	(2,875,000)	-	-	-	(1,000,000)	-	-	-	(1,000,000)	-
HGF Unobligated Funds	\$ 3,655,997	\$ 3,603,844	\$ 1,206,133	\$ 1,334,491	\$ 1,600,875	\$ 2,688,312	\$ 2,143,686	\$ 2,275,086	\$ 2,517,961	\$ 3,380,604	\$ 2,815,621	\$ 2,949,707



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WATER QUALITY BOARD
REQUEST FOR HARDSHIP GRANT FUND RESERVE
AUTHORIZATION

APPLICANT: Tooele County
47 North Main
Tooele, Utah 84074
Telephone: 435-843-3180

PRESIDING OFFICIAL/CONTACT: Wade Bitner, Commission Chair

TREASURER/RECORDER: Jerry Houghton, Recorder & Surveyor

CONSULTING ENGINEER: Ben Miner
Hanson Allen & Luce
6771 South 900 East
Midvale, Utah 84047
Telephone: 801-566-5599

CITY ATTORNEY: Scott Broadhead
74 South 100 East
Suite #26
Tooele, Utah 84074
Telephone: 435-843-3120

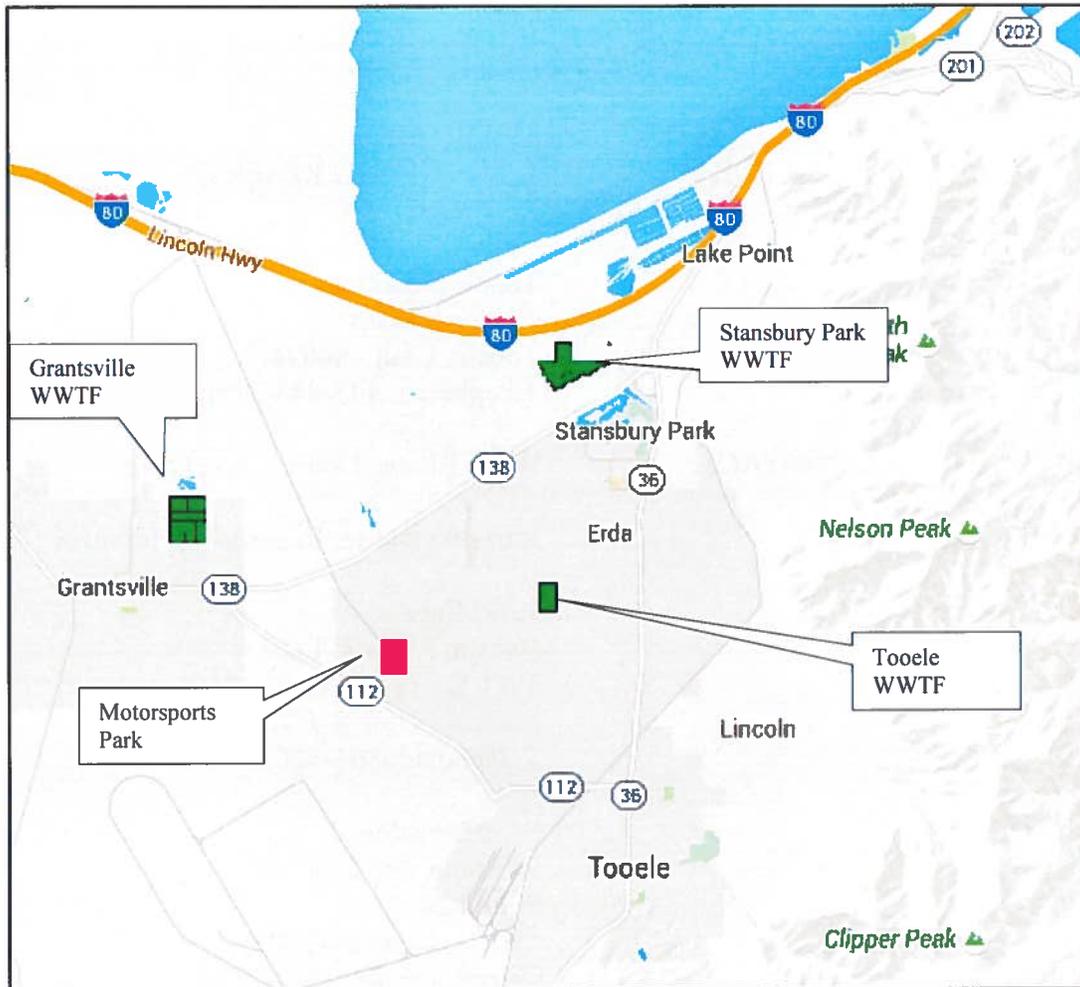
BOND COUNSEL: Eric Todd Johnson
Blaisdell and Church P.C.
5995 S. Redwood Rd.
Taylorsville, UT 84123
Telephone: 801-521-7620

APPLICANT'S REQUEST:

Tooele County is requesting a **planning grant** in the amount of **\$95,000** to update its 1998 septic tank density study and develop a regional sewer master plan for the growing north county unincorporated area bounded by Grantsville City, Lake Point, and Tooele City.

APPLICANT’S LOCATION

The Northern Tooele County study area is located approximately 60 miles due west of Salt Lake City.



PROJECT NEED

The Utah Geological Survey completed a septic tank density evaluation of the northern Tooele Valley in 1998. This study concluded that to protect underground drinking water quality from nitrate contamination, onsite wastewater disposal should be limited to 3,000 homes across the study area. Although development (with onsite systems) has not yet met this number, the growth that has occurred has been relatively concentrated, particularly in the Erda area. Several important public water supply wells are located in these more developed areas along with many private wells. The Tooele County (Health Department) is concerned that the concentrated development in proximity to these wells creates a high risk to the public and has suspended issuing new onsite system permits until the risk can be resolved.

Tooele County is proposing to update its 1998 septic tank density study for the northern valley to

guide and inform the Health Department in its decisions to permit additional septic tanks in concentrated development areas and the study area as a whole. The Health Department has developed a database that locates all of the onsite systems in this county. The county now needs to integrate these data with ground water quality data from the area to assess the outlook for continued development both with and without onsite wastewater disposal systems. This planning effort will provide the County and the Health Department with updated and modern tools with which it can assess both the impacts and trends of study area development on ground water quality. This analysis is critical for County planners in developing effective policies for growth and protection of the water supplies.

In conjunction with the above onsite wastewater planning study, Tooele County intends to develop a Regional Sewer Master Plan to guide growth in the unincorporated study area, including more concentrated growth that must be served by sewers. In conjunction with its zoning plans, the principal goals of the master plan are to identify phased implementation alternatives for wastewater management, and to establish a regional planning approach to providing cost effective wastewater treatment, disposal, and reuse services for the unincorporated area in the long term.

A key element of this planning effort will be coordination among four existing sewer service providers: Stansbury Park SSD, Lake Point SSD, Grantsville City, and Tooele City. The County recognizes that it will be critical to integrate its regional plans with those of these service providers to establish a successful plan that benefits from the capacities of these organizations. In initiating the “buy-in process,” the County engaged each of these organizations in developing its proposal and in selection of the consulting engineering firm that will prepare this regional plan. The proposed plan will identify and evaluate various alternatives for implementing comprehensive wastewater service of the study area, and will develop outline lifecycle cost estimates and cost distribution analysis. The County is not expected to (necessarily) own or operate any of the resulting facilities; however, the plan will inform the current and future owners on how they would be impacted both in terms of their services and long-term costs.

PROJECT DESCRIPTION:

- I. Septic Tank Density Study Update
- II. Regional Sewer Master Plan
 - a. Coordination and Planning
 - i. Review of existing data, studies, and planning documents
 - ii. Population growth analysis
 - b. Alternatives Analysis with life cycle costs
 - c. Implementation Plan

IMPLEMENTATION SCHEDULE:

The project will be completed by September 2017.

COST ESTIMATE:

Septic Tank Density Study	\$	15,000
Regional Sewer Master Plan	\$	80,000
Total	\$	95,000

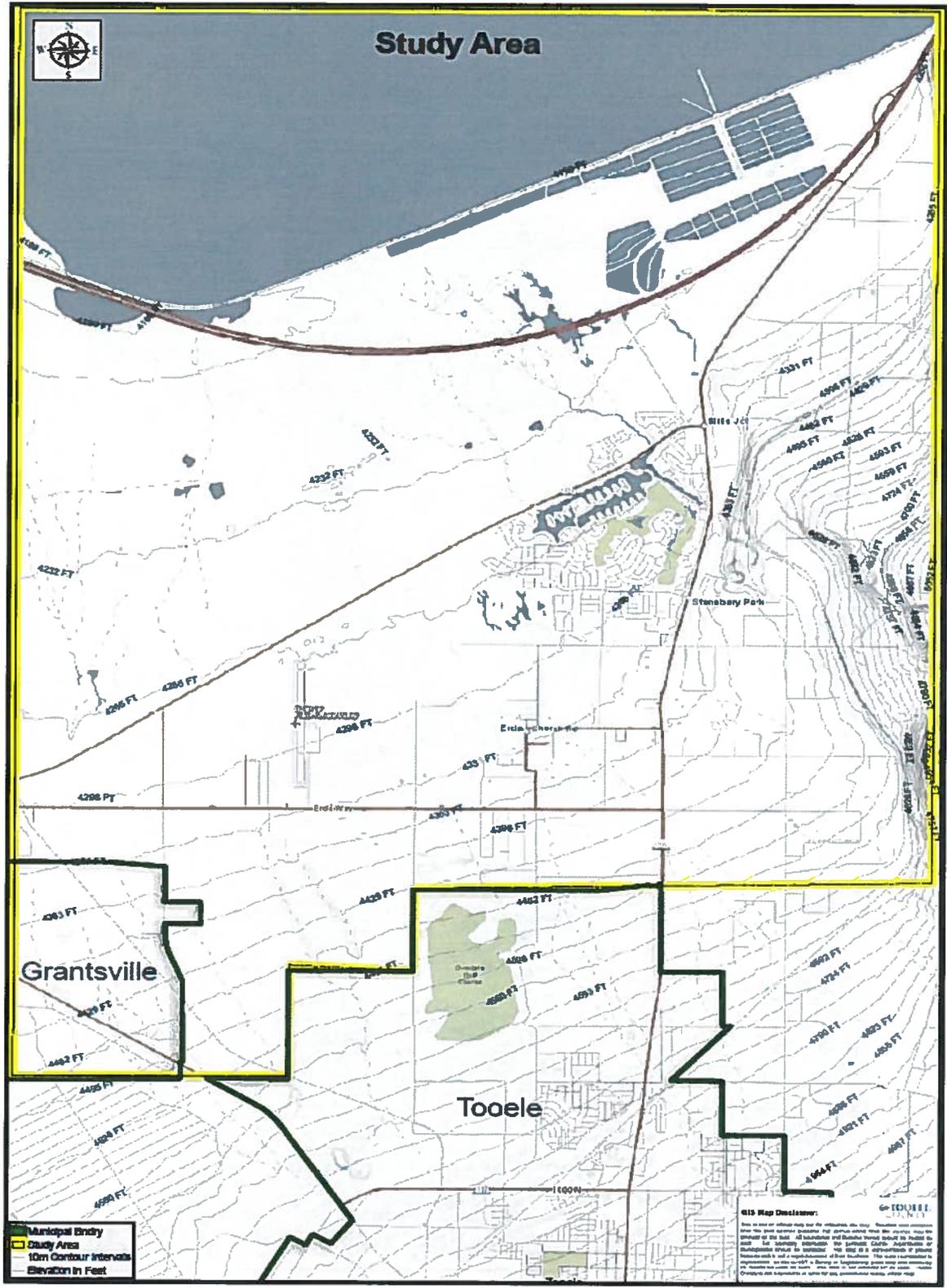
STAFF COMMENTS AND RECOMMENDATION:

This project is being presented as a request for planning grant authorization to the Water Quality Board. Tooele County does not provide sewer services or have sewer revenue with which to repay these funds nor will they be likely to be the entity constructing any projects. Staff has had extensive discussions with the County and its engineer about this project and is supportive of the need for a master plan that will address growth and the need for wastewater management system development that will responsibly protect the water resource in a regional sense. Staff has also carefully reviewed and discussed the financial position of the County and has concluded that the County has limited reserve capacity with which to conduct the project absent grant assistance. Staff recommends the Board authorize the amount requested as a hardship planning grant to assist Tooele County in completing these planning efforts.

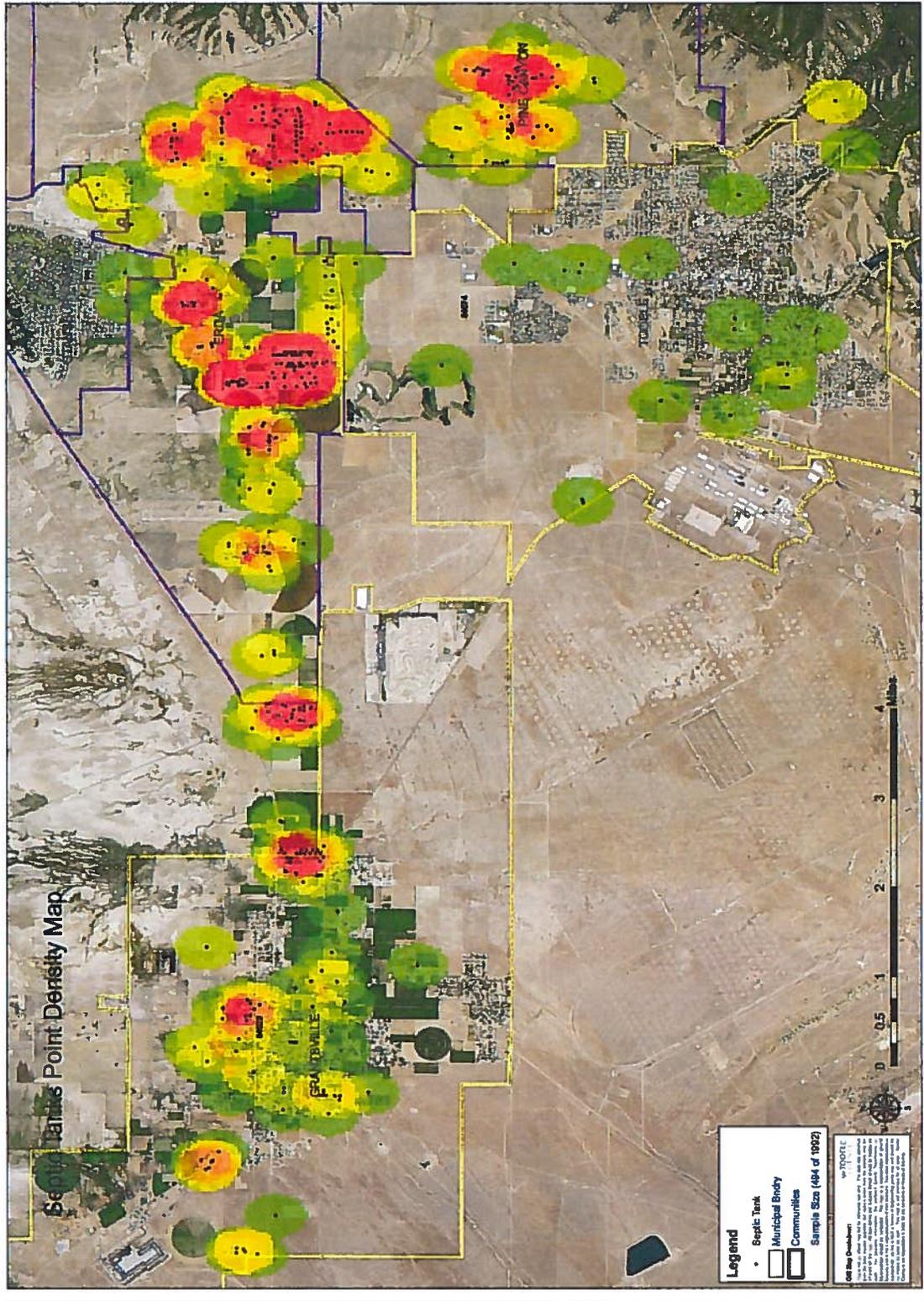
SPECIAL CONDITIONS:

1. The Division of Water Quality must approve the engineering agreement and plan of study before the advance will be executed.
2. This Planning Advance is a grant and will not be repaid.

Proposed Study Area



Current Septic Tank “Heat” Density Map





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Michael D. Luers
Alan Matheson
Walter L. Baker
Executive Secretary

MEMORANDUM

TO: Utah Water Quality Board

THROUGH: Walter L. Baker, P.E. 

FROM: Erica Brown Gaddis, Ph.D.

DATE: February 18, 2016

SUBJECT: Request for the Water Quality Board to approve a hardship grant for a maximum of \$200,000 to conduct monitoring of the San Juan River

The Gold King Mine release to the Animas River (tributary to the San Juan) near Durango, Colorado began on August 5, 2015 as a result of efforts to install a pipeline to treat mine waste. An estimated 3 million gallons of contaminated water was released and traveled downstream to the San Juan River and ultimately into Lake Powell. The Division deployed monitoring crews and oversaw monitoring through October 2015.

The Division continues to be concerned about ongoing releases of metals from mines in the San Juan River watershed as well as remobilization of metals deposited in the Animas and San Juan Rivers. We expect to see elevated during high flow events, especially during the spring runoff event that could begin any time.

The Division is in the process of developing a long-term monitoring plan that will focus on four primary goals:

1. Continue to monitor water quality in the San Juan River and regulated drinking water systems to protect public health, livestock, irrigation, and aquatic life.
2. Characterize legacy and ongoing mine releases in the San Juan watershed includes mining sources and natural geologic sources.
3. Evaluate accumulation of metals in San Juan River and Lake Powell.
4. Assess impacts of high metals in sediment and water column on uses of San Juan River and Lake Powell.

EPA has made \$2 million available for states and tribe to conduct long-term monitoring in the San Juan River watershed. However, no decisions have been made about how the funds will

be distributed to states nor when the funds will be available. The Division is seeking a hardship grant from the Water Quality Board in the amount of \$200,000 to cover the imminent costs of sampling during the spring runoff period and reporting out to the public during this critical time. The Division will seek recovery of these funds from EPA but this cannot be assured.

The funds will cover the following work items:

- 1) Weekly water quality monitoring (total and dissolved metals) at four sites in the San Juan River and two tributary sites for the duration of spring runoff (8 to 12 weeks).
- 2) Installation of turbidity sensors at the sondes managed by the USGS at two existing gaging stations located at the Utah-New Mexico stateline and near the Town of Mexican Hat. The Division will work with the USGS in Utah and New Mexico to develop relationships between continuous turbidity measurements and total and dissolved metals. The goal will be to provide real-time information to the public without having to deploy crews continuously to the Bluff area.
- 3) Sediment sampling at the beginning and end of spring runoff at four sites in the San Juan River and two tributary sites.
- 4) Deployment of 3 sediment traps in Lake Powell that will be used to capture sediment depositing into the San Juan Arm of Lake Powell. The sediments will be analyzed for total metals and compared to San Juan River sediment data and previously collected Lake Powell sediment data.



State of Utah

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Governor

SPENCER J. COX
Lieutenant Governor

Department of
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Alan Matheson
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DIVISION OF WATER QUALITY
Walter L. Baker, P.E.
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MEMORANDUM

TO: Utah Water Quality Board

THROUGH: Walter L. Baker, P.E. 

FROM: John Mackey, P.E.
Manager, Engineering Section

DATE: February 24, 2016

SUBJECT: Request to Adopt Rule R317-1-3.3, Technology-Based Limits for Controlling Phosphorus Pollution Amendment

On November 24, 2015, the Utah Water Quality Board approved staff's request to proceed with rulemaking for the subject rule amendments. The proposed amendment modifies the rule to address comments received from POTWs regarding the necessary time for implementation of phosphorus control technologies. The proposed amendment also incorporates a voluntary wastewater treatment optimization element designed to encourage nitrogen pollution reductions and provides clarification to the basis of the phosphorus discharge cap, its implementation schedule, and to the requirements for manual collection of composite samples. Minor formatting changes to the rule are also included with the amendment. The 30-day public comment period closed on February 1, 2016. No comments were received during the comment period. The proposed revisions to this rule may be viewed at:

<http://www.rules.utah.gov/publicat/bulletin/2016/20160101/39981.htm>

Staff requests that the Utah Water Quality Board now adopt this amendment into R317-1-3, *Requirements for Waste Discharges*, effective on the date of adoption.



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Director

MEMORANDUM

TO: Water Quality Board 

THROUGH: Walter L. Baker, Executive Secretary

FROM: Leah Ann Lamb

DATE: February 17, 2016

SUBJECT: 2015 Enforcement Update

A summary of the enforcement actions taken by the UPDES, Groundwater, and Engineering Sections in 2015 will be presented at the February Board meeting. The summary will include:

- Enforcement actions issued in 2015,
- Enforcement actions where final settlement was achieved during 2015 and applicable penalty amounts,
- Enforcement actions where settlement negotiations are underway or a settlement is in the 30 day public comment period.

A flow chart of the UPDES enforcement process is attached for your reference. It will be briefly reviewed along with a few recent examples of enforcement actions taken.

Attachment: UPDES Enforcement Flow Chart

Enforcement Process Overview

Detailed Flowchart

(Ctrl-Click To follow links)



Detailed Enforcement Process Flow Chart

