

JORDAN RIVER WATERSHED COUNCIL

Headwaters and Water Supply Advisory Group

February 16, 2007 Meeting

Attendance: Reed Oberndorfer; Central Utah Water Conservancy District
Carl Fisher; Save Our Canyons
Gary Durrant; Metropolitan Water District
Larry Alserda; Salt Lake City Public Utilities
Rhonda Thiele; Salt Lake Valley Health Department
Al Soucie; Salt Lake City Ranger District
John Stillman; Herriman City
Scott Hill; Riverton City
Karen Nichols; Stantec Consulting
Florence Reynolds; Salt Lake City
Robert Cameron; Big Cottonwood Canyon Association
Tom Wright; URS
David A. Gardner; Draper Irrigation WaterPro
Paul H. Ashton; White City Water Improvement District
Jennifer Smith; South Jordan City
Brien Maxfield; Draper City
Laura McIndoe; Town of Alta
Marlin Sunoberg; Holliday Water Co.
Julie Howe; Stantec Consulting
Van King; Kennecott Land Co.
Mark Atencio; Jordan Valley Water Conservancy District
Natalie Rees; Water Resources Planning Program Salt Lake County

Update of the Jordan River TMDL

1. Cirrus is currently working on the Pollutant Source Characterization element of the Jordan River TMDL. They anticipate that this element will be complete in March and that load allocations will be complete by May. Additionally, Cirrus anticipates an administrative draft by October of 2007 and final submittal of the TMDL to the EPA in April of 2008.
2. In order to fill existing data gaps, the Utah Division of Water Quality (DWQ) is conducting several synoptic assessments of the Jordan River. Jim Harris of DWQ will be conducting another synoptic study of the Jordan River two (2) weeks from now.

Update of Emigration Creek TMDL

1. The Salt Lake County Engineering Division has been contracted by the State Division of Water Quality (DWQ) to conduct a Total Maximum Daily Load Study (TMDL) of Emigration Creek. Emigration Creek was initially listed as impaired for fecal coliform; however, with the change in state water quality standards, the TMDL will examine E. Coli impairments.

2. The County is in the initial water quality assessment phase of the Emigration Creek TMDL process. In this phase, five (5) major water quality datasets have been examined. These datasets include:
 - a. Salt Lake City Public Utilities Rotary Park data - 1993 through present
 - b. Glenne and West - 1981
 - c. Salt Lake County - 2001
 - d. Garrick Wilden - 2005
 - e. USGS - 2005
3. After reviewing these major datasets, several gaps have been identified (See attached PDF). These data gaps include:
 - a. Insufficient seasonal E. Coli data
 - b. Insufficient diurnal E. Coli data
 - c. Insufficient flow data/characterization
4. In order to fill these data gaps, the Utah Division of Water Quality (DWQ) is currently working in conjunction with Salt Lake County to:
 - a. Install four (4) stage discharge meters along Emigration Creek to augment existing flow data (See attached PDF).
 - b. Take seasonal water quality grab samples at the four (4) metered flow locations as well as Rotary Park and Burr Fork.
 - c. Salt Lake County is working with the University of Utah to develop a local bacteria DNA library that can be used for Microbial Source Tracking (MST). In MST, DNA fingerprints are used to identify bacterial pollutant sources.
5. If there are any questions or concerns in regard to the Emigration Creek TMDL, please contact either Natalie Rees (468-3656 or nrees@slco.org) or Steve Jensen (468-3630 or sfjensen@slco.org).

Water Quality Stewardship Plan

1. In 2006, the Public Works Department of Salt Lake County began a collaborative effort to develop the Salt Lake Countywide Watershed, Water Quality Stewardship Plan (WaQSP). Although this project has been underway since mid-summer of 2006, the Headwaters and Water Supply group has not met in that time; therefore, a brief history of the plan was discussed (Please see attached documents).
 - a. Steps that were completed in 2006 include:

- i. With the assistance and review of the Jordan River Watershed Council and City Mayors, we identified six (6) strategic targets to guide the WaQSP effort.
 - ii. We compiled existing biological, physical, and chemical data that will be used to characterize the Salt Lake Countywide Watershed.
 - iii. We developed a Watershed Function Index (WFI) that will be used to measure progress and monitor the health of the Salt Lake Countywide Watershed.
 - b. In 2007, we will:
 - i. Compile data into a draft WaQSP document.
 - ii. Continue to work with the Jordan River Watershed Council (JRWC) and the Council of Governments (COG) to assure that all issues and concerns are being addressed and that appropriate implementation mechanisms are identified.
 - iii. Conduct a baseline assessment of all major Streams and Rivers in Salt Lake County. This effort will augment existing data and provide a foundation for the Watershed Function Index (WFI).
 - c. In 2008, we will work with stakeholders and the public to finalize the WaQSP document.
 - d. With the assistance of municipal governments, implementation of the WaQSP will begin in 2009.
- 2. Tom Wright of URS Corporation discussed the “Water Supply Element” of the Water Quality Stewardship Plan (WaQSP).
 - a. URS has been sub-contracted by Stantec Consulting to do the Water Supply Element for the WaQSP.
 - b. The Water Supply scope of work essentially entails compiling existing water supply plans and summarizing them. URS anticipates compiling plans over the next month; however, a final contract has not been signed.
 - c. The comment was made that the water suppliers work collaboratively with each other and are aware of the existing plans, the purpose of incorporating their plans in the WaQSP is primarily for educational purposes.
 - d. It was also noted that the water supply element is a relatively small component of the WaQSP; however, if there are items that the members of the Headwaters and

Water Supply Advisory Group would like to see addressed in this element, they should contact County staff (Natalie Rees, 468-3656).

e. It was suggested that this element address the cost-saving components of reuse.

3. Population Projection Data - Review of available GIS data

a. The group reviewed numerous maps of data that the County anticipates using in the Water Quality Stewardship Plan (WaQSP). These maps will be posted on the Water Resources Planning and Restoration website (www.waterresources.slco.org) for further review. However, in the preliminary discussion, some comments that were received include:

- i. Little Dell Reservoir did not show any wetlands in the current dataset, perhaps local delineation studies could augment data in this area.
- ii. The statement was made that Salt Lake County has gone through and taken out areas of the WAIDS and NWI wetlands that have been developed based on recent aerial photographs. The comment was made that we should quantify wetland loss and examine areas of potential, not just existing wetlands.
- iii. The wetland data being developed by the Jordan Valley Water Conservancy District (JVWCD) will be available in approximately a month and will be incorporated into the existing wetland dataset.
- iv. The Great Salt Lake Shorelands Plan also examined wetlands. It was suggested that this dataset be acquired as well and incorporated into the WaQSP.

Passing a countywide source water protection ordinance

1. Review of draft ordinance - After a brief discussion, it was determined that the original ordinance will be distributed to members of the Headwaters and Water Supply Advisory Group for their review (Please see attached ordinance).
2. Review of water protection zones (See attached map).
3. Additional items that were brought up during the discussion include:
 - a. The current HB140 that would require counties to establish a source water protection ordinance has been held in committee. In order to progress, an interim study has been called for.
 - b. EPA has a model ordinance on their website (<http://cfpub.epa.gov/safewater/sourcewater/>).

- c. It was mentioned that Ken Bousfield of the Utah Division of Drinking Water has put together a boiler-plate source water protection ordinance for the State of Utah.
- d. DEQ has a preliminary source water protection ordinance; however, if it extends to an unprotected area you have to purchase an easement.
- e. Cities that have adopted source water protection ordinances include: Riverton, Salt Lake City, Sandy, Herriman, Bluffdale, Murray, Midvale, West Valley, West Jordan.
- f. It was asked that a map be made of cities that have a source water protection ordinance. Please find attached such a map; however, this is simply a draft in that a complete survey of the cities has not been completed yet. When it has been, a final map will be distributed.
- g. Florence Reynolds of the Salt Lake City Public Utilities Department suggested that primary and secondary overlay zones be established in conjunction with the source water protection ordinance.
- h. Paul Ashton of White City Water stated that the ordinance should include a provision whereby entities other than the enforcement entity can sue over non-compliance.

Next Meeting

It was determined that a small group will be organized to discuss the County Source Water Protection Ordinance. This will be done shortly; however, the next meeting for the Headwaters and Water Supply Group of the Jordan River Watershed Council is scheduled for May 11, 2007. More information will be distributed to the group prior to that date; however, if there are specific issues that any individual would like to discuss at this meeting, they should notify Natalie Rees at (801) 468-3656 or nrees@slco.org.