JORDAN RIVER WATERSHED COUNCIL
POTW Advisory Group
February 13, 2007 Meeting

Attendance: Tom Holstrom; Central Valley Water Reclamation Facility
John D. Neman; General Manager South Valley Water Reclamation Facility
Craig L. White; General Manager South Valley Sewer District
Larry F. Bowen; Principal Bowen Collins & Associates, Inc.
Carl Eriksson; Manager Kearns Improvement District
John Birkinshaw; Kennecott Land Co.
John Adams; Salt Lake City Corporation
Dal D. Wayment; South Davis Sewer District
Reed N. Fisher; Central Valley Water Conservancy District
Van King; Kennecott Land Co.
Steve Williams; Magna Water Co.
Jim Harris; Utah Division of Water Quality
Fred Smolka; Emigration Improvement District
Eric Duffin; Cirrus Ecological
Karen Nichols; Stantec Consulting
Nicholas von Stackelberg; Stantec Consulting
Dave Wham; Utah Division of Water Quality
Ann Ober; Salt Lake County Mayor's Office
Jim Olson; Brown & Caldwell
Jeff Lachowski; Kennecott land Co.
Phil Heck; Brown & Caldwell
Brandon Heidelberger; Brown & Caldwell
Steve Jensen; Salt Lake County Engineering Division
Natalie Rees; Salt Lake County Engineering Division

Jordan River TMDL Update

1. Eric Duffin of Cirrus Ecological gave an update of the Jordan River TMDL (See attached Inflow – Outflow Table).
2. 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.
3. Karen Nichols of Stantec Consulting asked if the group would like to have meetings every six (6) to eight (8) weeks as the TMDL moves toward management recommendations.
4. It was discussed that Utah Lake is managed for water rights and the surplus canal is managed for flood control purposes.
5. Jim Harris of the Utah Division of Water Quality (DWQ) mentioned that he would be conducting another synoptic study of the Jordan River two (2) weeks from now.

6. Dal Wayment of the South Davis Sewer District made the statement that the TMDL should avoid conservative assumptions.
7. Steve Jensen of the Salt Lake County Engineering Division made the statement that in his view the major data gaps for the Jordan River TMDL include:
    a. Plant growth and the phosphorus update rate
    b. Phosphorus storage in sediment
    c. Macroinvertebrate species abundance and diversity in the Jordan River
8. Jim Harris of DWQ mentioned that Sediment Oxygen Demand (SOD) will be examined in a synoptic assessment to be conducted this spring.

Emigration Creek TMDL Update

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 is currently listed as impaired for E. Coli.
2. The County is in the initial water quality assessment phase of the 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 datasets, the Division of Water Quality (DWQ) is 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 map).
    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, bacterial pollutant sources can be identified through DNA fingerprints.

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).

SVSD/Proposed Riverton Facility Update

1. Craig White of the South Valley Sewer District (SVSD) discussed his districts proposal to construct a wastewater treatment facility that would discharge to the Jordan River at approximately 13400 South.
2. White stated that the South Valley Sewer District Board is committed to the use of Membrane Bio-Reactor (MBR) technology regardless of state legislative action that could usurp local zoning authority to construct a regional wastewater treatment facility.
3. White stated that the pipe near Shields Lane in South Jordan is currently surcharging 1 – 2 times per week. SVSD is currently going out to bid in order to upsize this ¼ mile length of their interceptor line.
4. SVSD anticipates that it will cost ~$48 million to upsize this pipe.

Water Quality Stewardship Plan (WaQSP) – Wastewater Element

1. Brandon Heidelberger of Brown & Caldwell reviewed their work on the wastewater element of the Water Quality Stewardship Plan (WaQSP) – (See attached presentation).
    a. Review of Salt Lake County's Statutory Authority – This was simply a reminder that Salt Lake County has been designated as the area-wide water quality planning agency.
    b. Recap of Wastewater Workshop No. 2 – Review of future permint/planning process – A diagram is included in the attached presentation. Salt Lake County is working to set up a meeting with Walt Baker of the Utah Division of Water Quality (DWQ) to discuss the proposed process.
        i. Some issues that need to be discussed with DWQ include whether the proposed process applies to both municipal and industrial discharge permits and reuse facilities.

ii. Another issue that was raised concerned whether the EPA needs to be involved in this process or not. The statement was made that the EPA has delegated their authority to the Utah Division of Water Quality (DWQ) and should abide by that delegation. This is another question that will be raised with the State DWQ.

iii. Other concerns that were raised include:

1. What is the definition of facility planning? Does this include treatment selection and siting?
2. Should this process include stormwater permits?
3. The POTWs are on a five (5) year permit renewal cycle, will each permit renewal process need to go through the WaQSP process?

c. Data gaps and assumptions for Wastewater Planning Task 3

d. Population Projection Data – Review of WFRC GIS data – Brown & Caldwell reviewed their analysis that compared existing and future capacity at the current wastewater treatment facilities in Salt Lake County to existing and future (2030) population needs (See attached presentation).

i. The comment was made that this analysis should include the proposed SVSD facility.

ii. After review of the various scenarios, Tom Holstrom of the Central Valley Water Reclamation Facility stated that the problem is conveyance, not capacity. It was suggested that a flow model be done as part of this regional planning process.

iii. The Improvement Districts were asked how they are planning for future wastewater needs.

1. SVSD is sizing pipes for annexation of the area to the west of their boundaries.
2. Kearns is anticipating annexation of the area between their boundaries and the Kennecott boundary.
3. Kennecott Land Co. is considering creating an Improvement District.
4. Salt Lake City waits for annexation requests.
    a. Twenty (20) years ago the Salt Lake City Council capped their facility at 56 MGD. The proposed 10 MGD facility

was included in the analysis that determined the 56 MGD cap.

The next meeting for the POTW and Dischargers Advisory Group will be held May 8, 2007 at 10:00 AM. Further notice will be made in regard to this meeting; however, if there are specific issues that you would like to see discussed, please notify Natalie Rees at 468-3656.