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AUG 17 2000

CITY RECORDER

**Public Utilities Committee  
Minutes  
April 27, 2000**

The Public Utilities Advisory Committee Meeting was held on April 27, 2000 at 7:00 a.m. at 1530 S. W. Temple, Salt Lake City, Utah. Committee members present were Pieter van der Have, Louise Franke, Leland Myers, Cullen Battle, Nancy Young and Dr. Harry Gibbons. Committee members Ken Bullock and Barbara Ishimatsu were absent. Public Utilities Employees present were LeRoy W. Hooton, Jr. Jeff Niermeyer, Jim Lewis, Chuck Call, Florence Reynolds, Tom Ward, Dan Schenck, Jon Adams, Frank Hamilton and Zee Smith. Also in attendance were Chris Bramhall, SLC Attorney's Office; Gary Mumford, SLC Council; Darrel Evensen, Montgomery Watson; Tom Jacobs, Brown & Caldwell; Jim Olson & Michael Kobe, Stantec Consulting; Bruce Brasher, Environmental Crossing; Jim Baker, Snowbird Ski Resort; Richard Hall, State Engineers Office; Bryon Elwell & John Porco, Michael Baker, Jr. Inc.; Mike Collins, Bowen Collins & Associates; Darrel Dixon & Tom Holstrom, Thompson-Hysell Engineers; Al Turnbridge, Buck Boley, Connie Marshall & Onno Wieringa, Alta Ski Company.

**Introduce new member of Advisory Committee**

Pieter van der Have introduced Dr. Harry Gibbons the new Advisory Committee member. Dr. Gibbons is replacing Sharon Walkington.

**Approve Minutes of March 23, 2000**

Leland Myers moved and Louise Franke seconded the motion to approve the minutes of the March 23, 2000 meeting, which motion carried with all members present voting aye.

**Alta's Snowmaking Project  
Jeff Niermeyer**

Onno Wieringa said that resource management issues at Alta on public land are managed by the U.S. Forest Service with direction from the Wasatch Canyons Master Plan and Salt Lake City Watershed Management Plan. Alta Ski Lifts Co. submitted a Snowmaking Master Plan in 1988 and since has constructed parts of the system. Alta Ski Lifts Company would like to finish the last link in the Sugarloaf area by the summer of 2000.

The project would involve burying utilities on the lower third of Devil's Elbow run and drilling a banana shaped bore from Devil's Elbow underneath, and into, Cecret Lake. Both the bore and burying the utilities would happen at the same time as a trail grooming project on Devil's Elbow. All of these projects have gone through Forest Service NEPA review with a full Environmental Impact Statement (E.I.S.) and have been approved in two separate decisions in April 1997 and October 1998.

Jeff Niermeyer told the Committee that the use of Cecret Lake as a storage reservoir for snow making has gone through the Forest Service NEPA process and approved in the record of decision. Mr. Niermeyer indicated that based on the for going, this was less intrusive to the enviers than the construction of four large reservoirs that was an approved alternative. He said that in his discussion with Alta Ski Lifts that public relations was very important during the boring under Cecret Lake.

Connie Marshall from Alta Ski Lifts Company will handle the public relations. This project would take place from early July through mid September; they recognize the need to communicate with Albion Basin visitors about the project. Alta Ski Lifts Company plans on:

- Mailing an information piece to all of the concerned parties that responded to the Forest Service Scoping of the projects.
- Alta's AM 5.30 radio station would broadcast a message about what Albion Basin visitors might encounter.
- The Town of Alta information booth at the beginning of the summer would hand out an information piece to Albion Basin visitors.
- At the Cecret Lake trailhead and at all obvious places above and around the project, they would also place a sign that warns Caution Construction Area.

Leland Myers made a motion to follow staff recommendation, pending legal review, Committee member Nancy Young seconded the motion, with all members present voting aye.

Alta Ski Lifts Company also is requesting a change in their surplus water contract from the current 20 million gallons to 40 million gallons.

With the recent approval by the Forest Service to finish the snowmaking build-out their need for water is increasing. The snowmaking infrastructure and acreage in their build-out is consistent with the Snowmaking Master Plan that Alta submitted in 1988.

As Alta had discussed they do not want to routinely use the 40 million gallons of water, but during a low snow year and if the water is available, it certainly is a great benefit to Alta and the skiers.

Committee member Leland Myers made a motion to approve the surplus contract, as evaluated by the staff on a regular basis as long as there are no additives added to the water. Dr. Gibbons seconded the motion, with all members present voting aye.

**Financial Report and Budget process review**  
**Jim Lewis**

Jim Lewis passed out copies of the overhead presentation for the financial report dated March 31, 2000. He stated that all three funds are doing very well financially. Water sales are ahead of last year in the amount of \$4 million. This is due to two reasons (1) The nine percent water rate increase that was effective last July and (2) High water sales related to the hotter dryer summer and fall for the last year.

Mr. Lewis talked about the first chart, which showed water delivered to the system by month for the last three-year period and the second chart showing the water revenue by month. The charts showed water delivered by the system is higher this year than the prior three-year period due to the dry summer and fall season. Mr. Lewis stated that due to higher water sales the revenue is higher than last year and the year will end higher than budget. The next chart was a comparison of water, sewer and storm water revenue compared to previous and current budget. The charts showed the increase in water revenue over the previous year. The chart also showed the revenue for sewer and storm water were even with previous years. The next chart was comparing operating cost with last year's current budget amounts for all three funds. It showed water expenditures were ahead of last year. Due to water purchases and additional power costs associated with the dryer than normal summer season. The next chart showed the Capital Improvements expenditures and encumbered amounts for the period from July 1999 to March 2000. The chart showed the Water Utility has constructed or paid for over \$9 million in improvements and has encumbered \$5 million in projects so far this year. The Storm Water Utility has constructed \$1.4 million and has encumbered \$1.2 million to date.

Mr. Lewis also stated that since the last meeting Public Utilities staff had a meeting with Mayor Anderson and Rocky Fluhart to discuss the sewer rate change and increase. Public Utilities is now preparing a flyer to go out to all customers during the month of May and will be meeting with all affected commercial and industrial customers on May 18. Also the Department and Rick Giardina presented the proposed rate change and increase to the City Council on April 6. Also 2000-2001 budgets were presented to the City Council on April 20.

**Final Report on BOD study**  
**Jim Olson**

The Department of Public Utilities entered into a professional service agreement with Stantec Consulting to assist Department personnel with the development of a program for seeking out and identifying existing sources of the increased BOD loading at the treatment plant.

Administration reviewed procedures and functions related to identifying high BOD discharges. Review included plan development requirements, contracts connection requirements, pretreatment, laboratory, plant monitoring, sampling, and inspection. Recommendations were developed for improving and enhancing administrative practices. Activities included (1) meetings and workshops with administrative function leaders, (2) evaluation of existing administrative practices, (3) recommendations for identifying, classifying and assigning cost recovery to high BOD sources, (4) recommendations for sampling and inspection program to support equitable cost recovery from high BOD sources, and (5) recommendations for developing a program of technical assistance and financial incentives to reduce high BOD discharges.

**Conclusions:**

1. The Biochemical Oxygen (BOD) of wastewater entering the water reclamation plant has increased 50% over the past ten years and 20% over the last 18 months.
2. The water reclamation plant is approaching its stated design capacity to treat BOD.
3. By conducting several reviews and collecting additional monitoring data for this study, it was demonstrated that organic waste loading results for plant influent are accurate.
4. Of the non-residential user categories identified in this study, food manufactures and restaurants are the most significant, contributing to about one-third (1/3) of the BOD received at the water reclamation plant.
5. Previous to this study, most of the high-strength BOD dischargers have not been and, as a result, are not paying a fair share of the cost of wastewater treatment services.
6. There are gaps in the Department's methodology for tracking new customers, which impedes potential high-strength waste dischargers from being identified before they connect to the sewer system.
7. Due to the current rate structure, there is no incentive for facilities to reduce their organic waste loading into the sewer system.
8. The Industrial Pretreatment Program is providing cost-effective service. More efficient use of IPP personnel will permit implementation of sewer rate surcharge program.
9. There are 5,124 sewer accounts (customers) that were identified as potential high-strength waste dischargers.
10. Of the 5,124 non-residential accounts, 1,723 are classified as high strength.
11. Eighty-seven percent of the identified high-strength waste has BOD concentrations in the rage of 301 to 600 mg/L.
12. Forty-seven percent of the identified high-strength discharger have TSS concentrations in the range of 301 to 600 mg/L. Thirty-two percent of the accounts fall within TSS values of 601 to 900 mg/L
13. There are more customers in the potential high-strength discharger database (5,124) than individual building (facility) sewer service connections that plot on a GIS map. The Department GIS Coordinator and the Consultant Team are working to resolve this difference.

## **Recommendations**

1. Continue to refine and verify plant organic waste loading data by implementing additional sampling and laboratory analytical testing as described in the report.
2. Implement an on-going program to cross-check plant loading data by evaluating influent, primary effluent, and biosolids production data.
3. Implement a program to characterize wastewater being discharged within critical surcharged user categories.
4. Improve plant organic loading data by periodically sampling the three major interceptor sewers for comparison to plant loading data.
5. Assign a coordinator who is responsible for tracking new sources of BOD.
6. Implement procedures that assure complete tracking of high-strength wastewater sources prior to allowing connection to the sanitary sewer.
7. Improve the productivity of Industrial Pretreatment Program by implementing four procedural recommendations.
8. Improve administrative procedures that will lead to accurate tracking and appropriate billing of high-strength waste dischargers.
9. Develop a program and provide technical support to high-strength waste dischargers who would like to reduce their organic waste loading to the sewer system.
10. Resolve apparent gaps between the database of potential high-strength dischargers created by the Sewer Rate Consultant and the master sewer account database maintained by the Finance Administrator.
11. Refine distribution of high-strength dischargers within proposed customer classifications.
12. Refine customer classification thresholds for BOD and TSS based on actual sampling and analytical results.

### **Public Utilities Security Study Bryon Elwell & John Porco**

The completion of the Olympic Security planning project represents not the end of the process, but rather the beginning of a long-term commitment to enhance the ability of Department of Public Utilities (DPU) to safeguard its customers and get ready for the 2002 Olympic Games. The findings and recommendations of the project, present a road map to achieve that goal. The next step is the preparation of an Action Plan, with an implementation schedule and specific assignment of responsibilities. Although the prioritization of future actions and commitment of resources must be the function of DPU officials, the Terrorism Response Action Coalition (TRAC) Team recommends the following actions that appear to be particularly crucial for sustaining the momentum generated by the project and achieving the objectives.

**Public Information/Communications**

Coordination / Resource Development  
Call Down Lists  
Dispatch Telephone Lines  
Volunteer Program  
Paging System  
Phone Bank/Website  
Secure Radios

**Coordination/Resource Development**

Incident Command System  
Coordination with UOPSC and Law Enforcement  
GIS Capabilities  
Welded Manhole Covers  
Coordination with Utah Power and Light  
Coordination with Other Water Systems

**Administration**

Financial Management  
Olympic Staffing  
Management Redundancy  
Protection of Department of Utilities Workers

**Planning**

Department of Public Utilities Response Team  
Operations in Secure Venue Areas  
Access Control Plan/ID Badging  
Alternative Water Supply  
Decision Matrix  
Emergency Action Plans and Checklists  
Chem-Bio Agent Detection, Identification, and Reporting  
Updating of Lifeguard Plans  
Consequence Assessment Tool Set

**Training and Exercises**

ICS Training  
Emergency Operations Training Exercises  
Security/Chem-bio agent Training  
HAZMAT Training

**Capital Improvements/Security**

Emergency Operations Center  
Access Security  
Automatic Sensors And Alarms  
Spark proof Tools and Plans  
Video Surveillance and Guards

**SALT LAKE CITY CORPORATION**

**PUBLIC UTILITIES ADVISORY COMMITTEE**  
1530 SOUTH WEST TEMPLE  
SALT LAKE CITY, UTAH 84115

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**CITY RECORDER**

**Public Utilities Advisory Committee Meeting**

**Agenda**

**August 24, 2000**

**1530 South West Temple Street**

**7:00 AM**

1. Approve Minutes of June 22, 2000
2. Wall to wall cities annexation report- LeRoy W. Hooton, Jr.
3. Waste Water Master Plan, prepared by Montgomery Watson- Jon Adams
4. Interlocal agreement relating to Metropolitan Water District of Salt Lake City,  
Capacity Capital Improvements and new water supplies  
Chris Bramhall & Jeff Niermeyer
5. Adjourn

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