

Metropolitan Water District of Salt Lake & Sandy CAPITAL PROJECT REPORT

July 2018

Last updated: August 1, 2018

Routine Non-Capacity Improvement Projects

Terminal Reservoir Replacement Project (TR003) – see attached report for additional detail.

| | |
|------------------------------------------------------------|-----------------------------|
| District Project Manager: | Wayne Winsor |
| Design Engineer: | Bowen, Collins & Associates |
| Engineering Design (Actual): | \$987,868.98 |
| Final Completion Date (Design): | August 17, 2011 |
| Contractor: | Alder Construction |
| Notice to Proceed (Const.): | November 17, 2011 |
| Substantial Completion Date: | August 30, 2018 |
| Final Completion Date (Contract): | December 31, 2018 |
| Other Project Costs (to date): | \$791,148.20 |
| Engineering Services During Construction (to date): | \$2,303,503.45 |
| Construction Contract Amount: | \$36,684,000.00 |
| Construction Costs (to date) | \$37,578,342.50 |
| Construction Change Orders: | \$1,405,737.32 |
| Percent Change Orders: | 3.69% |
| Project Budget: | \$42,237,855.00 |
| Project Expenses to date: | \$41,417,878.55 |

Other Project Costs include Owner-furnished equipment, programming, security control systems, materials testing, utility connections and electronic file management system (EADOC).

Final site grading is complete. Sprinkler piping is installed and tested. Trees and shrubs are planted. Gravel and landscape rock will be placed in early August, following which hydroseed will be applied.

The project is on target for substantial completion by the end of August.

LCWTP – Roof Replacement, Administration Building (LC053)

| | |
|------------------------------------------------------------|-----------------------------|
| District Project Manager: | Gardner Olson |
| Design Engineer: | AE2S |
| Engineering Design (Actual): | \$13,800.00 |
| Final Completion Date (Design): | October 30, 2017 |
| Contractor: | Disaster Professionals, LLC |
| Notice to Proceed (Const.): | July 2, 2018 |
| Substantial Completion Date: | |
| Final Completion Date (Contract): | November 30, 2018 |
| Other Project Costs (to date): | \$0.00 |
| Engineering Services During Construction (to date): | \$0.00 |
| Construction Contract Amount: | \$151,040.33 |
| Construction Costs (to date) | \$0.00 |
| Construction Change Orders: | \$0.00 |
| Percent Change Orders: | 0% |
| Project Budget: | \$225,000.00 |
| Project Expenses to date: | \$13,800.00 |

Project construction was awarded by the Board of Trustees on June 18. A preconstruction meeting was held on July 9. The contractor began mobilization on July 30. Roof demolition will begin the week of August 6.

LCWTP – Electrical Power Monitoring Upgrade (LC055)

| | |
|------------------------------------------------------------|-------------------|
| District Project Manager: | Wayne Winsor |
| Design Engineer: | Carollo Engineers |
| Engineering Design (Actual): | \$140,290.03 |
| Final Completion Date (Design): | Ongoing |
| Contractor: | |
| Notice to Proceed (Const.): | |
| Substantial Completion Date: | |
| Final Completion Date (Contract): | |
| Other Project Costs (to date): | \$105,937.56 |
| Engineering Services During Construction (to date): | |
| Construction Contract Amount: | |
| Construction Costs (to date) | |
| Construction Change Orders: | |
| Percent Change Orders: | |
| Project Budget: | \$1,200,000.00 |
| Project Expenses to date: | \$246,227.59 |

Other Project Costs include Owner-furnished equipment and programming.

Staff is currently working with the design engineer to prepare a complete set of bid documents for advertisement in September, with the intent to recommend award at the October Board meeting.

Staff is currently working with the engineer to better define project phasing and determine compatibility with existing District equipment.

Network Backbone (Media & Hardware) Replacements

| | |
|----------------------------------|---------------|
| District Project Manager: | Ryan Nicholes |
| Project Budget: | \$316,500.00 |
| Project Expenses to date: | \$15,129.68 |

Staff is finishing design and has begun procurement of equipment to replace end of life switching and routing equipment and to upgrade dependent hardware. Work will be completed in-house.

Fleet Program Replacement

| | |
|----------------------------------|--------------|
| District Project Manager: | Wayne Winsor |
| Project Budget: | \$150,000.00 |
| Project Expenses to date: | \$0.00 |

Staff will replace two utility trucks and purchase an additional truck. Bids are being received through the State of Utah procurement process.

Little Dell Dam Improvements

| | |
|----------------------------------|--------------------|
| District Project Manager: | Bernard Mo, SLCDPU |
| Project Budget: | \$100,000.00 |
| Project Expenses to date: | \$0.00 |

This project includes general improvements identified by Salt Lake City Department of Public Utilities, with no specific projects identified at this time. No report of work having commenced.

Repair and Replace:

Administration Building Boiler Replacement

| | |
|----------------------------------|-----------------|
| District Project Manager: | Steve Slack |
| Final Completion Date: | October 1, 2018 |
| Project Budget: | \$44,000.00 |
| Project Expenses to date: | \$0.00 |

Staff received bids and awarded the project to Holbrook Services for \$21,860.00. Work is planned for August.

SLA Turnout Valve Replacement

| | |
|----------------------------------|----------------|
| District Project Manager: | Steve Slack |
| Final Completion Date: | March 31, 2019 |
| Project Budget: | \$65,000.00 |
| Project Expenses to date: | \$0.00 |

Work is anticipated to occur in Feb/Mar 2019 during the scheduled SLA shutdown and inspection.

Flow Meter Replacement

| | |
|----------------------------------|---------------|
| District Project Manager: | Scot Collier |
| Final Completion Date: | June 30, 2019 |
| Project Budget: | \$64,000.00 |
| Project Expenses to date: | \$0.00 |

Staff is receiving bids.

POMWTP Fluorosilicic Acid Storage Tank Repair

| | |
|----------------------------------|----------------|
| District Project Manager: | Gardner Olson |
| Final Completion Date: | April 15, 2019 |
| Project Budget: | \$32,000.00 |
| Project Expenses to date: | \$0.00 |

Staff is coordinating the timeframe for repair work. Bids will be obtained in August.

Lab Equipment Replacement

| | |
|----------------------------------|---------------|
| District Project Manager: | Jeff Matheson |
| Final Completion Date: | June 30, 2019 |
| Project Budget: | \$72,300.00 |
| Project Expenses to date: | \$0.00 |

Staff is finalizing scope on a new Gas Chromatograph. Quotes will then be obtained for a Gas Chromatograph/Mass Spectrometer and an Ultraviolet Spectrophotometer.

Annual Network Server Replacement

| | |
|----------------------------------|--------------|
| District Project Manager: | Darin Klemin |
| Final Completion Date: | Ongoing |
| Project Budget: | \$50,000.00 |
| Project Expenses to date: | \$0.00 |

Procurement has not yet begun.

Miscellaneous

| | |
|----------------------------------|--------------|
| District Project Manager: | Wayne Winsor |
| Project Budget: | \$50,000.00 |
| Project Expenses to date: | \$0.00 |

Nothing to report at this time.

Other Capital Projects

Jordan Aqueduct System and 150th South Pipeline – Capital Projects

The District is responsible for 2/7 of Jordan Aqueduct (JA) system improvements which include JA Reaches 1 – 4, Jordan Valley Water Treatment Plant (JVWTP) and the JA Terminal Reservoir. The District is responsible for ½ of improvements associated with the 150th South pipeline. Projects identified for FY 2019 include:

- SCADA replacement for JVWTP, JA & 150th South \$ 58,165.00
- Microwave Communications System Replacement \$ 102,816.00
- JVWTP- 1 MG Backwash Tank: Project was modified to include five more JVWTP facilities, with work anticipated during the JVWTP shutdown in fall/winter 2018. \$ 264,171.00
- JVWTP Washwater /Solids Handling Improvements \$ 281,829.00
- JA Extraordinary Maintenance and Replacement \$ 56,921.00
- JVWTP/TR Extraordinary Maintenance and Replacement \$ 268,857.00
- 150th South Extraordinary Maintenance and Replacement \$ 10,000.00
- JVWTP Project Management Expenses \$ 44,500.00

Total Request FY 2019: \$ 1,087,259.00

Projected to be spent in FY 2019: \$ 1,087,259.00

Currently, no report on project status at this time.

Other Projects

Salt Lake Aqueduct Inspection

The Salt Lake Aqueduct will be shut down between Little Cottonwood Water Treatment Plant and Terminal Reservoir in March/April 2019. The project includes replacement of valve seats, valves and inspection.

Project Manager: Steve Slack

Terminal Reservoir Replacement Project

Construction Management Team



Construction Report June - July 2018

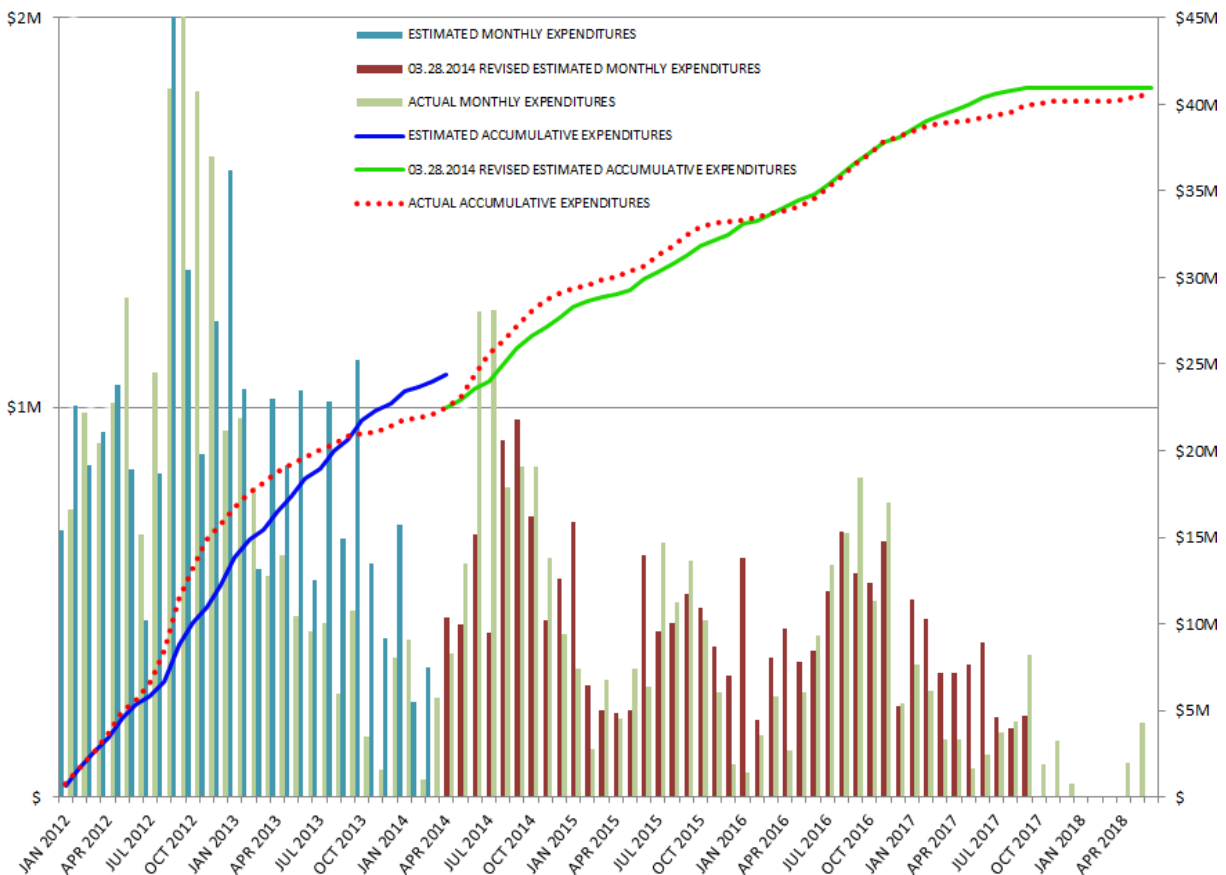
I. Summary of Activities Performed and Upcoming Work

Final site landscaping is in progress at the Terminal Reservoir site. Dust has been a concern for the District and many of its neighbors, due in part to grubbing, trenching and top soil placement. We recognize the impact this dust has on the community and are working to more effectively keep dust under control. Site sprinklers are nearly complete; once finished, this system will help with dust. Asphalt was placed around the site in late May and has reduced dust from vehicles.

The District and contractor met with a landscape architect to review plant placement throughout the site. Due to popular request from our neighbors, several trees were relocated to the south side of the site, next to 3300 South. The landscaper anticipates completion of planting, top soil and sprinklers in late July, with hydroseed occurring in early August.

The front gate is on order and looks to be delivered in mid-August. The contractor is addressing punchlist items throughout the site.

II. Budget



Terminal Reservoir Replacement Project

Construction Management Team



III. Photos



Asphalt work was completed around the site.



A nursery was established on-site for plants prior to planting.

Terminal Reservoir Replacement Project

Construction Management Team



Trees and shrubs were planted throughout the site.



Rumex crispus, also known as Curly Dock, is an invasive weed that has emerged on the north part of the project site. District staff are working carefully to cut and remove the weeds before they seed.

CALENDAR 2018

August

- 13 MWDSLS Work Session - 3:30 p.m.
- 13 MWDSLS Board Meeting - 4:30 p.m.
- 16 SCPUAB Meeting – 7:00 a.m.
- 23 SLCPUAC Meeting – 7:30 a.m.
- 23 PRWUA Board Meeting -10:00 a.m.
- 28 Engineering Committee Meeting – 10:00 a.m.

September

- 17 MWDSLS Work Session - 3:30 p.m.
- 17 MWDSLS Board Meeting - 4:30 p.m.
- 20 SCPUAB Meeting – 7:00 a.m.
- 27 SLCPUAC Meeting – 7:30 a.m.
- 27 PRWUA Board Meeting -10:00 a.m.

October

- 2 Management Advisory Committee Meeting – 8:30 a.m.
- 2 Finance Committee Meeting – 10:00 a.m.
- 10-12 AWWA Intermountain Section Conference, Midway, UT
- 15 MWDSLS Work Session – 3:30 p.m.
- 15 MWDSLS Board Meeting – 4:30 p.m.
- 18 SCPUAB Meeting – 7:00 a.m.
- 23 Utah Water Summit – Provo, UT
- 25 SLCPUAC Meeting – 7:30 a.m.
- 25 PRWUA Board Meeting -10:00 a.m.

MWDSLS – Metropolitan Water District of Salt Lake & Sandy

PRWUA – Provo River Water Users Association

SLCPUAC – Salt Lake City Public Utilities Advisory Committee

SCPUAB – Sandy City Public Utilities Advisory Board

Last 8/6/2018

January 2018

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February 2018

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March 2018

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April 2018

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May 2018

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June 2018

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July 2018

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August 2018

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September 2018

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October 2018

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November 2018

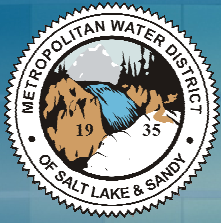
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December 2018

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MWDSLS Board of Trustees

| EVENT | TIME/DATE |
|---------------------------------------------------|------------|
| Work Session | 3:30 PM |
| Board Meeting | 4:30 PM |
| May Public Hearing | 6:00 PM |
| Management Advisory Committee | 8:30 AM |
| Executive Committee | 9:00 AM |
| Engineering Committee | 10:00 AM |
| Finance Committee | 10:00 AM |
| Environmental Committee | 10:00 AM |
| Holidays | |
| Utah Water Users Association – St. George, UT | Mar 19-21 |
| AWWA National – Las Vegas, NV | June 11-14 |
| Intermountain Section AWWA – Midway, UT | Oct 10-12 |
| Utah Association of Special Districts – Provo, UT | Nov 7-9 |
| NWRA Convention – San Diego, CA | Nov 7-9 |
| CRWUA – Las Vegas, NV | Dec 12-14 |



The Metro Update

SYSTEM DEMAND

Current system demand is higher than the 5 year maximum averages. To meet demand, POMA (Point of the Mountain Aqueduct) pumps have run consistently since June 28th. In order to improve power efficiency, the pumps are run during the “off peak” hours.

ADMINISTRATION BUILDING ROOF REPLACEMENT

The LCWTP Administration building metal roof was installed as part of the original building construction in 2000. Due to water leaks and other concerns, replacement of the roof was necessary. The District received bids for the work and Disaster Professionals was the successful contractor. The contractor began mobilization on Monday, July 30th. Roof demolition and replacement will be complete within 30 days. The new metal roof will include gutters, down spouts, snow guards and an ice melt system.

MWDSLS System Demand (MGD)



SOLIDS REMOVAL AT LITTLE COTTONWOOD WATER TREATMENT PLANT

The District has routinely contracted out the removal of solids from the solids ponds at Little Cottonwood Water Treatment Plant since 2012. This annual exercise typically occurred during the month of July wherein ponds 1, 2 & 3 or ponds 4 & 5 were cleaned (alternating each year). This annual O&M expense ranged from approximately \$65,000 in 2012 to \$21,400 in 2017. One reason for the decrease in expense is due to the increased efficiency within the Operations Department resulting in lower annual solids production. In 2018, Maintenance staff chose to take on this work internally. With a monthly rental expense of \$8,000 for a front end loader, and utilization of the District's new dump truck, the District looks to save approximately \$13,000 from last year's costs. If expectations remain as forecasted, solids removal will become an annual District performed activity.



HUMAN RESOURCES

Service Anniversaries

Terry Worley, Aqueduct Inspector, 10 years

Bryan Montague, Instrumentation & Electrical Systems Integration Specialist, 15 years

Welcome New Employees!

Michael Carter, Maintenance Tech I

Elisabeth Wise, Lab Technician

Promotions

Bryan Montague, Instrumentation & Electrical Systems Integration Specialist

Ky Neves, Maintenance Lead

Zack Oldham, Maintenance Lead

Josie Taber, Chemist