## PUBLIC WORKS BENCHMARKS

<table>
<thead>
<tr>
<th>Benchmark Item</th>
<th>MARCH</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Totals for the Month</td>
<td>Fiscal Year-to-Date Totals</td>
<td>2018</td>
<td>2019</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2018</td>
<td>2019</td>
<td>3-Year Average</td>
<td>2018</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2018</td>
<td>2019</td>
<td>3-Year Average</td>
<td>2018</td>
</tr>
<tr>
<td>Water Flow (acre-feet)</td>
<td>107</td>
<td>115</td>
<td>113</td>
<td>2,147</td>
<td>2,192</td>
</tr>
<tr>
<td>Wastewater Flow (million gallons)</td>
<td>28</td>
<td>34</td>
<td>36</td>
<td>251</td>
<td>257</td>
</tr>
<tr>
<td>Fleet Work Orders, PM &amp; CM, % of Total Time</td>
<td>61%</td>
<td>67%</td>
<td>63%</td>
<td>54%</td>
<td>58%</td>
</tr>
<tr>
<td>Buildings Work Orders Completed</td>
<td>93</td>
<td>141</td>
<td>110</td>
<td>895</td>
<td>890</td>
</tr>
<tr>
<td>Customer Service Requests</td>
<td>53</td>
<td>46</td>
<td>49</td>
<td>833</td>
<td>787</td>
</tr>
<tr>
<td>Backflow Testing</td>
<td>58</td>
<td>74</td>
<td>67</td>
<td>1,278</td>
<td>1,062</td>
</tr>
<tr>
<td>Plan Checking</td>
<td>19</td>
<td>36</td>
<td>22</td>
<td>223</td>
<td>203</td>
</tr>
<tr>
<td>Trash Call-Outs</td>
<td>4</td>
<td>2</td>
<td>7</td>
<td>329</td>
<td>26</td>
</tr>
</tbody>
</table>

Fiscal Year is July 1 to June 30
MEMORANDUM

TO:                      Steven J. Pinkerton
                          General Manager

THROUGH:           Joe Pomroy, P.E.
                          Director of Public Works

FROM:               Ronnie Rector
                          Public Works Contracts Administrator

SUBJECT:            Public Works Department's Monthly Status Report for March, 2019

DATE:               April 15, 2019

DIRECTOR HIGHLIGHTS

The winter season of heavy snow removal has kept the Pipeline crew very busy keeping the
District facilities open. The weather finally turned at the end of the month so we can now
begin our maintenance activities on sewer mains, manholes, watermain valves, and leak
investigation. Everyone will be happy to get back to the core business.

We are now in the process of transitioning to a new backflow database that will be part of the
Asset Management software. The end goal of this workflow improvement is to complete
backflow testing in the field on tablets and eliminate the paper trail, then synchronize the
electronic record to the billing system for daily upload of charges to customer accounts. Like
all software upgrades, it sounds easier than it is. It has required some very detailed workflow
and playing in a test database. We expect to go live in a couple of months.

The Tahoe Transportation District is nearing completion of the draft Environmental
Assessment for the SR 28 Shared Use Path, Parking, Safety, and Environmental
Improvement Project from Sand Harbor to Spooner State Park. This includes the District’s
effluent export pipeline. The EA Document should be ready for public comment beginning

WASTE NOT AND TAHOE WATER SUPPLIERS ASSOCIATION

Staff has been working on a revised water conservation program for IVGID, to launch July 1.
Program components for the USEPA Water Sense appliance rebate program have been
developed, with initial program announcement scheduled to start in May.
Staff attended the Nearshore Aquatic Weed Working Group (NAAWG) meeting on March 13. The working group focused on the TRCD’s UV-C Light Plant Control Pilot Project. The project pilot has proven that UV-C Light is an effective method of treating aquatic invasives in Lake Tahoe, showing decreased plant density within 7 to 10 days of treatment in both closed and open water environments.

Staff is developing program guidelines and forms for TWSA Board review for the budgeted 2019-20 Water Fill Station Incentive Program. TWSA will be requesting Tahoe Fund matching funds.

Staff is working with Lahontan Water Board Staff on hosting a half-day training, to include field and lab identification protocols on identification of hazardous algae blooms. The training is open to Tahoe area staff and is scheduled for May 29.


**STAFF HIGHLIGHTS**

Public Works staff continues to study and advance their careers: Darel Barlow achieved his Grade 4 Water Distribution Operator certification. Jeff Donahue achieved Grade 3 Collection Systems Maintenance Operator status, and John Filippini achieved Grade 2 Collection Systems Maintenance Operator. Eric Feistroffer not only completed his OSHA 10 training, but is now a fully-certified Pipeline Operator.

Kris Stevens remains on active duty with the USAF Reserves.

The NEXGEN Backflow Project is now a team effort within Public Works, with our GIS, Billing Office and Compliance staff working together to review customer data transfers, find and report validation problems, perform test runs, train on iPads, etc. We cannot go live with this module until the majority of integration is working at 100%.

**UTILITIES HIGHLIGHTS**

March gave us 17 more days of snow, and another 218 hours of snow removal. The crew had to replace the chains and cutting edges on all three of the loaders used for plowing.

The majority of our Utilities crew attended the annual 3-day Nevada Rural Water Conference, receiving continuing education credits. Other training included confined space rescue team training, monthly safety meetings, and an all-day class on CUES CCTV troubleshooting, attended by Dan Liggett. Staff also assisted with the annual IMS Career Day event.
Water production for the month was 37.6 million gallons; the plant processed 34.2 million gallons of sewage and 12,500 gallons of septage from the Thunderbird Lodge and Spooner Fire Department. Over 116 tons of biosolids were processed and trucked to Bentley.

The team installed a portable water meter on Country Club as part of the ongoing water leak investigation. Several pump stations saw maintenance work, some of which required confined space entry. Staff assisted in the repair of 320 feet of washed-out road over the export line down by Jacks Valley Road, and verified 19 manholes in the District requiring rehabilitation this summer.

ENGINEERING HIGHLIGHTS

The Engineering Division is working on several CIP projects, including:

Sewer Pump Station 11 Replacement Project – This project will replace sewer pump station 11, located at the base of Crystal Drive and original equipment installed over 40 years ago. The pump station has arrived and staff is involved with preparations for installation, when weather permits.

Additional contracts issued in March:

<table>
<thead>
<tr>
<th>Date</th>
<th>Vendor</th>
<th>Project CIP &amp; Name</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/11/19</td>
<td>RaPiD Construction</td>
<td>3970BD2601; BCB Pool Piping Repairs</td>
<td>$59,950.00</td>
</tr>
<tr>
<td>3/14/19</td>
<td></td>
<td>3972BD1501 &amp; 3972BD1301; BCB ADA Ramp and Stairs</td>
<td>$56,776.50</td>
</tr>
<tr>
<td>3/25/19</td>
<td></td>
<td>4378LI1803; Incline Park Facility Renovation, Ballfield 3</td>
<td>$1,456,654.00</td>
</tr>
</tbody>
</table>

The Engineering Division is also overseeing a number of projects in the construction, bidding, design and planning phases, including (but not limited to): Repairs to the Recreation Center’s outdoor deck, stairs and railings, and upgrades to the bollard lighting in the parking lot; Aeration System Improvements; Water Pump Station 2-1 Improvements; Sewer Pump Station #1 Improvements; Tennis Center renovations; Burnt Cedar pool condition assessments; Incline Creek Restoration; Mountain Golf Course clubhouse roof repairs, water main line relocation, kitchen rebuild, ADA Access to the On Course Bathrooms; maintenance projects along the Effluent Export Line; replacement of District fire panels; water reservoir safety improvements; and maintenance and upgrade projects at the WRRF, BCWDP and District water and sewer pumping stations.
BUILDINGS HIGHLIGHTS

The Buildings team completed 141 work orders this month, 112 of which were corrective; the remainder were both scheduled and unscheduled projects. The emergency generator at Admin now has a snow roof to protect it, and the Recreation Center interior painting project has been completed.

FLEET HIGHLIGHTS

Most of March dealt with repairs to District snow removal equipment and keeping up with scheduled PM work. Special projects remain on hold until Kris Stevens returns from deployment.

BUSINESS OFFICE HIGHLIGHTS

The Business Office notified 66 accounts of delinquency, 287 property owners of a possible water leak, issued $1,873.90 in leak relief credits, and updated ownership information for 7 properties. No accounts were shut off for non-pay. Of the 4,588 accounts billed monthly, 1,266 now receive their bills online.

Contract administration and administrative support for the month included those projects listed in the various division reports, above, and support for the various CIPs underway throughout the District.