### Lake Oswego Tigard Water Partnership

**Monthly Council Program Metrics Report**

<table>
<thead>
<tr>
<th>Report Date</th>
<th>March 14, 2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oversight Committee Report Number</td>
<td>33</td>
</tr>
</tbody>
</table>
| Reporting Period | Reporting Period (Tyler): 7/01/2009 through 1/31/2016  
<table>
<thead>
<tr>
<th>TOC Item</th>
<th>Changes from Last Period</th>
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</thead>
<tbody>
<tr>
<td>1. Title Sheet</td>
<td>Updated</td>
</tr>
<tr>
<td>2. TOC</td>
<td>Updated</td>
</tr>
<tr>
<td>3. Program Map</td>
<td>No change since last reporting period</td>
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<tr>
<td>4. Financial and Permitting Section</td>
<td>Updated</td>
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<td>4.1. Program Cumulative Cash Flow vs. Baseline</td>
<td>Updated</td>
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<td>4.2. Costs Contributed to Date by City</td>
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<td>4.3. Summary Schedule vs. Baseline</td>
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<td>4.4. Total Estimate and Contingency</td>
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<td>4.4.1.2. Design/planning/consultant costs</td>
<td>Updated</td>
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<td>4.4.1.3. Capital construction costs</td>
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<td>4.4.1.4. Legal, land use, ROW and other professional services costs</td>
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<td>4.4.1.5. Sponsor Contingency</td>
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</tr>
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<td>4.4A Current Total Project Estimate Cost Detail for Categories 2 and 3</td>
<td>Updated</td>
</tr>
<tr>
<td>4.5. Construction Cost Estimate Contingency Graph</td>
<td>All projects bid – section will no longer appear in this report</td>
</tr>
<tr>
<td>4.6. Permit Status</td>
<td>Updated</td>
</tr>
<tr>
<td>5. Risk Register</td>
<td>Updated</td>
</tr>
<tr>
<td>6. Construction Status Reports</td>
<td>Updated</td>
</tr>
<tr>
<td>7. Appendix A – Key Terms</td>
<td>No change since last reporting period</td>
</tr>
</tbody>
</table>
Section 3 - System Map
4.1 – Program Cumulative Expenditures vs. Baseline* (Plan)

*Program Baseline – July 1, 2015 (start of FY16) at $254M

4.2 Cost Contributed to Date by City

Tigard: $132,786,505
Lake Oswego: $88,477,241
Total: $221,263,747
4.3 – Summary Schedule vs. Baseline*

*Program Baseline – July 1, 2015

- Reporting Period (Tyler): 7/1/2009 through 1/31/2016
- Reporting Period (PMWeb) 7/1/2009 through 2/29/2016
4.4 Current Total Project Estimate

<table>
<thead>
<tr>
<th>Category</th>
<th>Cost Category</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Last Month’s Costs (Tyler) 1/1/16-1/31/16</td>
</tr>
<tr>
<td>1 Sponsor/Staff Cost (wages, materials &amp; services, transfers)</td>
<td>65,000</td>
</tr>
<tr>
<td>2 Design/Planning/Consultant Cost</td>
<td>467,000</td>
</tr>
<tr>
<td>Design/Planning/Consultant Costs without Design Contract Amendments</td>
<td>467,000</td>
</tr>
<tr>
<td>Design Contract Amendments</td>
<td>-</td>
</tr>
<tr>
<td>3 Capital Construction Cost</td>
<td>1,868,000</td>
</tr>
<tr>
<td>Capital Construction Costs without Contingency/Mitigation</td>
<td>1,368,000</td>
</tr>
<tr>
<td>Construction Changes</td>
<td>-</td>
</tr>
<tr>
<td>Construction Contingency</td>
<td>-</td>
</tr>
<tr>
<td>Mitigation Contingency Remaining</td>
<td>-</td>
</tr>
<tr>
<td>4 Land Use/ROW, Legal and Other Professional Services Cost</td>
<td>5,000</td>
</tr>
<tr>
<td>5 Sponsor Contingency</td>
<td>-</td>
</tr>
</tbody>
</table>

Current Period’s Totals: $2,405,000 $221,263,000 $223,757,000 $253,944,000

Totals from Last Period: $218,859,000 $221,429,000 $253,944,000

Change from Last Period: $2,404,000 $2,328,000 -
Lot WP - Monthly Council Program Metrics Report

- Reporting Period (Tyler): 7/1/2009 through 1/31/2016

4.4A – Current Total Project Estimate Cost Detail for Categories 2 and 3

<table>
<thead>
<tr>
<th>Category</th>
<th>Total Cost (in $)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Category 2 Total Cost</td>
<td>$4,324,790.00</td>
</tr>
<tr>
<td>Category 3 Total Cost</td>
<td>$3,105,832.00</td>
</tr>
<tr>
<td>Combined Total Cost</td>
<td>$7,430,622.00</td>
</tr>
</tbody>
</table>

Project: [Details]

<table>
<thead>
<tr>
<th>Contractor</th>
<th>Work Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>[Name]</td>
<td>[Description]</td>
</tr>
<tr>
<td>[Name]</td>
<td>[Description]</td>
</tr>
<tr>
<td>[Name]</td>
<td>[Description]</td>
</tr>
</tbody>
</table>

[Graphical representation of project metrics]

Note: The above metrics are subject to change based on the latest available data. For a comprehensive view, please refer to the full report.
4.5 Designer Cost Estimate Contingency

**Cost Estimate Contingency**

All projects have been bid and awarded. This section will no longer be provided in future reports.

4.6 Permit Status

**Water Rights**

Final orders on water right extensions have been sent back to the Oregon Water Resources Board (OWRD) for further consideration relating to fish protection.
<table>
<thead>
<tr>
<th>Item Number</th>
<th>Risk Description</th>
<th>Prob.</th>
<th>Impact</th>
<th>Impact Value</th>
<th>Status</th>
<th>Strategy</th>
<th>Owner</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>70</td>
<td>WTP extended duration increases cost of construction management/inspection</td>
<td>100</td>
<td>3</td>
<td>3.00</td>
<td>Open</td>
<td>Mitigate</td>
<td>PMT/Sponsors</td>
<td>Work closely with contractor to increase likelihood of schedule recovery to minimize any program-level impacts.</td>
</tr>
<tr>
<td>35</td>
<td>Noise, vibration and potential construction damage to residences</td>
<td>100</td>
<td>2</td>
<td>2.00</td>
<td>Open</td>
<td>Transfer</td>
<td>Contractor</td>
<td>Contractor modified approach to future shoring causes delays, increases costs.</td>
</tr>
<tr>
<td>37</td>
<td>Permit non compliance results in a stop-work, slow down work, delays schedule, increases cost</td>
<td>50</td>
<td>3</td>
<td>1.50</td>
<td>Open</td>
<td>Mitigate</td>
<td>PMT/Sponsors</td>
<td>Prequal, inspection, adequate CM staffing, design that addresses COAs, etc.</td>
</tr>
<tr>
<td>6</td>
<td>Added cost to purchase water from Portland if Tigard deadline of 7/2/16 is missed</td>
<td>50</td>
<td>3</td>
<td>1.50</td>
<td>Open</td>
<td>Mitigate</td>
<td>PMT/Sponsors</td>
<td>Expedites program execution, maintain updated detailed schedule to prevent surprises, and allow 6-8 months for Tigard system flushing, WTP start-up, and delays; cost is approximately $500k per month to purchase water from Portland.</td>
</tr>
<tr>
<td>33</td>
<td>Theft or vandalism at construction sites</td>
<td>100</td>
<td>1</td>
<td>1.00</td>
<td>Open</td>
<td>Transfer</td>
<td>Contractor</td>
<td>Design/contractor to jointly develop mitigation strategy, contractor to execute. Installation of security components (e.g., fences, cameras) immediately upon construction startup for facilities.</td>
</tr>
<tr>
<td>39</td>
<td>Claims - property damage, lost business, severed utilities, etc.</td>
<td>50</td>
<td>2</td>
<td>1.00</td>
<td>Open</td>
<td>Accept</td>
<td>PMT</td>
<td>Proactive construction management, contract language to place appropriate risk on contractors, Owner contingency.</td>
</tr>
<tr>
<td>14</td>
<td>Inadequate startup coordination for entire system (intake, plant, pipes, SCADA, testing) causes delay</td>
<td>30</td>
<td>3</td>
<td>0.90</td>
<td>Open</td>
<td>Mitigate</td>
<td>PMT</td>
<td>Program design manager and construction manager to ensure bid documents address.</td>
</tr>
<tr>
<td>42</td>
<td>Water quality as it relates to water age at the extreme ends of the distribution systems</td>
<td>25</td>
<td>3</td>
<td>0.75</td>
<td>Open</td>
<td>Mitigate</td>
<td>PMT</td>
<td>Modeling to determine areas of potential concern to be addressed by WTP design and operations, and, if needed, supplemental chemical dosing in Tigard.</td>
</tr>
<tr>
<td>69</td>
<td>Schedule-4 challenges (pipe bridge) increase schedule/cost</td>
<td>30</td>
<td>2</td>
<td>0.60</td>
<td>Open</td>
<td>Mitigate</td>
<td>PMT</td>
<td>Thorough evaluation of all alignment challenges. Address via contract documents and thorough construction management.</td>
</tr>
<tr>
<td>30</td>
<td>Deferred maintenance of new system results in reduced/reliability or premature replacement</td>
<td>10</td>
<td>4</td>
<td>0.40</td>
<td>Open</td>
<td>Mitigate</td>
<td>PMT/Sponsors</td>
<td>Through asset management program including condition assessment, O&amp;M manuals, and funding of needed repairs. Asset management program to be implemented during construction phase.</td>
</tr>
<tr>
<td>26</td>
<td>Contractor claims for differing site conditions or unclear design may cause delays and/or increase costs</td>
<td>10</td>
<td>2</td>
<td>0.20</td>
<td>Open</td>
<td>Mitigate</td>
<td>PMT</td>
<td>Carefully review any proposals to determine whether risk is increased with suitable mitigation.</td>
</tr>
<tr>
<td>66</td>
<td>Inadequate coordination with local agency operations staff for shut-downs and testing affects service, strains relations, or causes delay</td>
<td>10</td>
<td>2</td>
<td>0.20</td>
<td>Open</td>
<td>Mitigate</td>
<td>PMT/Sponsors</td>
<td>Address in construction administration plan. Provide communication protocols and required lead times/staffing.</td>
</tr>
<tr>
<td>25</td>
<td>Contractor breach of contract</td>
<td>5</td>
<td>3</td>
<td>0.13</td>
<td>Open</td>
<td>Mitigate</td>
<td>PMT</td>
<td>Contractor prequalification, proactive construction management.</td>
</tr>
<tr>
<td>43</td>
<td>Deferrable record keeping for the entire program</td>
<td>3</td>
<td>4</td>
<td>0.12</td>
<td>Open</td>
<td>Mitigate</td>
<td>PMT</td>
<td>PMIS accounting system, Program management plan, designer reporting, electronic filing system.</td>
</tr>
<tr>
<td>22</td>
<td>Weather/natural disaster act of god type delays</td>
<td>2</td>
<td>5</td>
<td>0.10</td>
<td>Open</td>
<td>Accept</td>
<td>PMT</td>
<td>Flood, earthquake, fire - deal with if it happens.</td>
</tr>
<tr>
<td>44</td>
<td>Inadvertent contamination of water leaving the plant</td>
<td>2</td>
<td>5</td>
<td>0.10</td>
<td>Open</td>
<td>Mitigate</td>
<td>Sponsors</td>
<td>Monitoring at the plant, prepare and adopt an appropriate emergency response plan.</td>
</tr>
<tr>
<td>36</td>
<td>Uninsurable contractor - resident engineer conflicts</td>
<td>5</td>
<td>1</td>
<td>0.05</td>
<td>Open</td>
<td>Mitigate</td>
<td>PMT</td>
<td>Contractor prequalification process with references.</td>
</tr>
<tr>
<td>40</td>
<td>Injury or death at a job site</td>
<td>1</td>
<td>5</td>
<td>0.05</td>
<td>Open</td>
<td>Mitigate</td>
<td>PMT/Sponsors</td>
<td>Construction management, site safety contract requirements.</td>
</tr>
<tr>
<td>27</td>
<td>Project Management Information System goes down or vendor becomes insolvent - backup procedures</td>
<td>1</td>
<td>4</td>
<td>0.04</td>
<td>Open</td>
<td>Mitigate</td>
<td>PMT</td>
<td>Data escrow provision. Data can be migrated into another PMIS system.</td>
</tr>
<tr>
<td>34</td>
<td>Vulnerability associated with sharing water system info with the public online</td>
<td>2</td>
<td>2</td>
<td>0.04</td>
<td>Open</td>
<td>Mitigate</td>
<td>Sponsors/Designer</td>
<td>Site security systems at WTP and RFS.</td>
</tr>
</tbody>
</table>

* - Top risks include all risks with an impact value of "1.0" or greater.
Description: Construction of a new River Intake Pump Station (RIPS) located at River Mile 0.8 along the right bank of the Clackamas River in Gladstone, Oregon. The intake includes concrete foundation, rock anchors, concrete tower, pump room, motor room, control room and HVAC equipment.

### Section 1. Contract Financial Status:

<table>
<thead>
<tr>
<th>Description</th>
<th>On-Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scope</td>
<td>On-Target</td>
</tr>
<tr>
<td>Schedule</td>
<td>On-Target</td>
</tr>
<tr>
<td>Budget</td>
<td></td>
</tr>
</tbody>
</table>

- **Original Contract**: $10,566,000.00
- **Approved COs**: $422,139.48
- **Total Contract**: $10,988,139.48

- **Paid-to-Date**: $10,988,139.48 (through December, 2015)
- **Work this Period**: $0.00
- **Balance-to-Finish**: $0.00 (retainage released)

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### Section 2. Period Summary and Work Performed

### Section 3. Schedule Progress

### Section 4. Project Key Schedule Milestones

1. In Water Work Period (IWWP) #1 - construct work bridges & install cofferdam
2. Construct and test new RIPS including fish screens
3. IWWP #2 - upstream channelization work and cofferdam removal
4. New RIPS startup and commissioning
5. New RIPS complete
6. IWWP #3 - Demolish existing RIPS
7. Final Completion - 11/30/15 (CO13)

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### RIPS Construction Status - 1 of 2
Section 5. Three Month Look Ahead

COMPLETE

Section 6. Risks/Issues

COMPLETE

Section 7. Changes

COMPLETE

Section 8. Construction Photographs

VICINITY MAP
NO SCALE
Project Name: Pipelines - Schedules 1-2-3A
Project No: 205/207 - 123A
Contractor: Frank Coluccio Construction Company
Construction Mgr.: Jerome Duletzke

Description:
Construction of raw and finished water pipeline (ranging from 36-inch to 48-inch welded steel pipe (WSP)) including valves, fittings and appurtenances; construction of potable water pipeline; related work including Cathodic protection facilities, grading and overlaying roadways, constructing new structural road sections and concrete curb and driveways, abandoning existing pipeline, connections to existing facilities, site restoration, landscaping, and pipeline cleaning, testing, disinfection. New pipeline will be installed from the River Intake Pump Station (RIPS) in Gladstone to the water treatment facility in West Linn. Project includes: 4,000 feet of horizontal directional drill (HDD) under the Willamette River and 600 feet of trenchless construction under Highway 99E. In

Scope  Schedule  Budget
On-Target  On-Target  On-Target

Section 1. Contract Financial Status:

Original Contract $31,669,205.00
Approved COs $1,302,358.00
Total Contract $32,971,563.00
Paid-to-Date $31,871,899.30 (through January, 2016)
Work this Period $0.00
Balance-to-Finish $1,099,663.70 (includes retainage)

Section 2. Period Summary and Work Performed
- Contractor has installed all 1,882 LF of finished water pipeline on Mapleton Drive
- Pressure test for the FWP passed on 2/17/16
- Pipeline disinfection completed on 2/24/16
- Processing final RFIs and submittals

Section 3. Schedule Progress
- Substantial Completion (late) - Contractor forecast: 3/1/16
- Final Completion (late) - Contractor forecast: 3/30/16
- Negotiations continue over contractor’s requested time extension

Section 4. Project Key Schedule Milestones
1. Clackamas Blvd Connections - 10/01/14
2. 6” Water Clackamas Blvd - 10/01/14
3. RIPS Connection at 176+67 - 10/12/14 11/26/14
4. MBP and Jensen Road Work - 02/28/15
5. Final Asphalt Paving - 06/30/15
6. Substantial Completion - 11/12/15 12/14/15 12/24/15 01/06/16 (CO18)
7. Final Completion - 12/12/15 01/11/16 01/21/16 02/03/16 (CO18)

FWP - Schedule 1-2-3A - 1 of 2
Project Name: Pipelines - Schedules 1-2-3A  
Project No: 205/207 - 123A  
Reporting Per: February, 2016  
Contractor: Frank Coluccio Construction Company  
Construction Mgr.: Jerome Duletzke

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**Section 5. Three Month Look Ahead**

- Complete paving punchlist in Gladstone and grind/overlay on Hwy 99E: work is weather dependent
- Final restoration of Meldrum Bar Park staging area
- Mapleton Drive:
  - Cathodic protection
  - Minor paving and restoration
  - De-mob from staging yards

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**Section 6. Risks/Issues**

- Neighborhood impact including: construction noise, truck traffic, vibration, etc.
- Schedule

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**Section 7. Changes**

- CO-20 executed: Schedule 1 Quantities Reconciliation = $305,286.40

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**Section 8. Construction Photographs**

- Mapleton FWP Connection to Hwy 43
- Mapleton FWP Connection to WTP
- Signing of the final buried pipe at the Mapleton and Hwy 43 connection
## Project Name:
Pipelines - Schedule 3B

## Project No:
207 - 3B

## Reporting Per:
November, 2015 - COMPLETE

## Contractor:
Emery and Sons, Inc.

## Construction Mgr.:
Jerome Duletzke

### Description:
Construct potable welded steel water pipeline, connect to existing pump station on Old River Road in West Linn, and related work such as cathodic protection facilities, grinding and overlaying roadways, removal and replacement of Portland Concrete cement (PCC)panels, abandoning existing pipelines, connections to existing facilities, site restoration, landscaping, pipeline cleaning, testing and disinfection. Approximately 14,000 feet of new water pipeline will be installed from West Linn to Lake Oswego. The majority of the pipeline alignment is along Highway 43, which will include night work for construction activities.

### Scope

<table>
<thead>
<tr>
<th>Schedule</th>
<th>On-Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Budget</td>
<td>On-Target</td>
</tr>
</tbody>
</table>

### Contract Financial Status:

- **Original Contract**: $11,194,098.00
- **Approved COs**: $369,488.63
- **Total Contract**: $11,563,586.63

- **Paid-to-Date**: $11,563,586.65 (through October, 2015)
- **Work this Period**: $0.00
- **Balance-to-Finish**: $0.00 (retainage only)

### Period Summary and Work Performed

**Section 2.**

**Notice to Proceed (NTP)** - 04/28/14

1. **Substantial Completion** - 04/28/15, 07/10/15, 09/15/15
2. **Final Completion** - 06/27/15, 09/14/15, 10/23/15

### Schedule Progress

**Section 3.**

**COMPLETE**

### Project Key Schedule Milestones

- **Notice to Proceed (NTP)** - 04/28/14
- **1. Substantial Completion** - 04/28/15, 07/10/15, 09/15/15
- **2. Final Completion** - 06/27/15, 09/14/15, 10/23/15

### Monthly Cashflow Projection

- **Cumulative 500's**: $11,563.6k
- **Monthly 500's**: $0
- **Cumulative Cashflow Projection**
- **Cumulative Contractor Payments**
Section 5. Three Month Look Ahead

COMPLETE

Section 6. Risks/Issues

COMPLETE

Section 7. Changes

COMPLETE

Section 8. Construction Photographs
Description:

Construction of a potable water pipeline (42-inch diameter welded steel), including valves, fittings, and appurtenances. Related work includes a cathodic protection system, pavement restoration, connections into existing water facilities, a new fire hydrant, abandonment of old pipeline, new pavement markings and stripping, and minor curb and sidewalk replacement work. This pipeline consists of approximately 5,200 feet of welded pipe, which includes a 200 foot self-supporting pipeline bridge crossing over Oswego Creek. At a second location, the new waterline will cross under the railroad near State Street inside a 54-inch steel casing. This work will require a 48-hour continuous construction window to complete within the allowable permit with the railroad. Additional miscellaneous work includes: concrete panel removal and replacement within ODOT right-of-way (i.e. State Street) and pipeline cleaning prior to Commissioning into service.

<table>
<thead>
<tr>
<th>Section 1.</th>
<th>Contract Financial Status:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Original Contract</td>
<td>$6,146,383.00</td>
</tr>
<tr>
<td>Approved COs</td>
<td>$430,145.00</td>
</tr>
<tr>
<td>Total Contract</td>
<td>$6,576,528.00</td>
</tr>
</tbody>
</table>

Paid-to-Date | $5,554,809.18 (through January, 2016) |
Work this Period | $0.00 |
Balance-to-Finish | $1,021,718.82 (Includes retainage) |

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**Section 2. Period Summary and Work Performed**
- Contactor has replaced fencing in George Rogers Park
- Contactor has completed McVey Avenue trench patch paving
- Oswego Bridge: Contractor, CM, and Designer have resolved pipe support issues

**Section 3. Schedule Progress**
- Contractor anticipates a minor delay to substantial completion due to delays with fabrication of the pipe supports for the Oswego Creek Crossing.
- Contractor is currently projecting a delay of two weeks for Substantial Completion.

**Section 4. Project Key Schedule Milestones**

1. Complete Oswego Village - 10/31/15 (complete)
2. Complete RR Crossing Work - 11/1/15
3. Final Asphalt Paving: Schedules 1 thru 5 - 2/28/16
4. Final Asphalt Paving: Schedules 6 - 5/26/16
5. Substantial Completion - 3/14/16
6. Final Completion - 6/10/16
Section 5. Three Month Look Ahead
- ADA ramp upgrades on McVey Avenue
- Erect structural steel for Oswego Creek Crossing
- Pour final closure retaining walls after pipeline bridge is installed
- Pressure test new pipeline, disinfect, and commission into service

Section 6. Risks/Issues
- Schedule delay due to steel refabricating
- Neighborhood and business impacts

Section 7. Changes
- CO-04 executed: $47,992.00
- CCF-002 Creek Crossing-Footing Changes: contractor pricing under review

Section 8. Construction Photographs
- Cleaning CAV vault off Foothills Road
- Clean CAV vault
- MH confined space entry for sewer repair work
- Fernco with shear band and a sand collar used for sanitary sewer repairs
Project Name: Pipelines - Schedule 5  
Contractor: Emery & Sons Construction  
Construction Mgr.: Jerome Duletzke

Project No: 207 - 5  
Reporting Per: November, 2015 - COMPLETE

Description: Construct Finished Water Pipeline (Schedule 5): Schedule 5 is 3.1 miles of 36” and 42” welded steel potable (WSP) water pipeline with 1,220 LF of 24” ductile iron pipe (DIP). Additional pipelines include: 260 LF of 8” DIP; 108 LF of 12” diameter; 379 LF of 8” diameter; 165LF of 6” diameter PVC sewer pipeline (including manholes and appurtenances) and 175 LF of 12” diameter HDPE storm drain pipeline.

Scope Schedule Budget

<table>
<thead>
<tr>
<th></th>
<th>On-Target</th>
<th>On-Target</th>
<th>On-Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Original Contract</td>
<td>$12,135,505.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Approved COs</td>
<td>$1,582,593.64</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Contract</td>
<td>$13,718,098.64</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Paid-to-Date: $13,718,099.64 (through October, 2015)

Work this Period: $0.00

Balance-to-Finish: $0.00 (includes retainage)

Section 1. Contract Financial Status:

Section 2. Period Summary and Work Performed

Section 3. Schedule Progress

Section 4. Project Key Schedule Milestones

1. Waluga Park - Construction: Oct-13 thru Feb-14 (complete)
2. Lake Grove Elementary & Twin Fir - Construction window: 6/13/14 thru 9/2/14 (complete)
3. Substantial Completion - 6/1/15, 6/2/15, 6/3/15, 10/21/15
4. Final Completion - 4/1/15, 7/1/15, 10/30/15 (CO 20)
Section 5. Three Month Look Ahead
COMPLETE

Section 6. Risks/Issues
COMPLETE

Section 7. Changes
COMPLETE

Section 8. Construction Photographs

VICINITY MAP
Schedule 6 (Milton Court, Tigard to perpendicular Road, Lake Oswego) scope includes: 626 linear feet (LF) of 30-inch diameter ductile iron Finished Water Pipeline (FWP) and approximately 2318 LF of 24-inch ductile iron FWP including valves, fittings and appurtenances. Related work will include: cathodic protection facilities; grinding and overlaying roadways; replacing concrete curb and sidewalks; abandoning existing pipelines; connecting to existing facilities; pipe cleaning, testing and disinfection; site restoration and landscaping; and abandonment of existing water pump station.

Notice to Proceed - 2/03/15
1. Mobilization - 3/26/15
2. Demo Pump Station - 4/06/15
3. Auger Borings (RR Crossing, Culvert, I-5) - 4/24/15 through 6/12/15
4. Open Cuts (West End to Pump Stn, to I-5, East End to Tie-in) - 7/01/15 through 7/31/15
5. Testing (Pressure & Cathodic), Disinfection - 8/5 - 8/25/15
6. Substantial Completion - 8/31/15 9/30/15 10/21/15 (CO 4 & 5)
7. Final Completion - 9/30/15 10/30/15 11/20/15 (CO 4 & 5) **12/15** 12/30/15 **(CO 7, 8 & 9)** 2/1/16 (CO 11)

Final punchlist items complete
**Section 5. Three Month Look Ahead**

**Section 6. Risks/Issues**

**Section 7. Changes**

**Section 8. Construction Photographs**

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**Final Landscape restoration near Sequoia and Bonita Rd.**

**Final Landscape restoration near I-5**

**Final Pavement restoration on Bonita Road**
Upgrade and expansion of Lake Oswego's existing WTP, located between Kenthorpe Way and Mapleton Drive, to a capacity of 38 MGD. The upgraded plant will supply Lake Oswego and Tigard, and will continue to serve as West Linn's sole source of emergency and backup water supply.

Section 1. Contract Financial Status:

**Original Contract** $66,101,464.87  
**Approved COs** $2,097,448.13  
**Total Contract** $68,198,913.00  
**Paid-to-Date** $53,519,033.24 (through January, 2015)  
**Work this Period** $0.00  
**Balance-to-Finish** $14,679,879.76 (includes retainage)

Section 2. Period Summary and Work Performed:

- Continued work on the Admin Building walls and interior trade work
- Completed the new filter walls and deck
- Began the washwater pump station building
- Continued mechanical work in the filters
- Disinfected the clearwell and started up the finished water pumps

Section 3. Schedule Progress:

- Contractor is currently on schedule

Section 4. Project Key Schedule Milestones:

**Milestone A - Complete**: demo of lagoons 1, 2 & lime silo; construct portion of ballasted floc, clearwell, finished water pump station, gravity thickeners & sludge storage tank, mechanical de-watering building, chemical building

**Milestone B - 04/20/16 (05/04/16)**: demo alum storage facility; construct remaining ballasted floc, filtration, electrical building, washwater handling facilities, admin building

**Milestone C - 01/16/17 (03/25/17)**: construct ozone, LOX facilities, final site paving, landscaping, street resurfacing

**Final Completion (D) - 02/10/17 (04/19/17)**
**Section 5. Three Month Look Ahead**

- Complete Admin Building exterior, interior walls, and trades
- Complete Washwater pump station
- Complete installing filter components and equipment
- Complete Phase B Commissioning
- Complete disinfection and testing of clearwell and FWPS

**Section 6. Risks/Issues**

- Weather could slow construction progress
- Claims from residents declaring property damage due to construction activities
- Schedule delays / Contractor schedule revisions

**Section 7. Changes**

- Change Order 24 approved ($42,218): Added and emulsion polymer system; control panel modifications; added fall protection to admin roof; added seal-offs to ozone conduits; other misc. changes.

**Section 8. Construction Photographs**

- New Finished Water Pump in Operation
- Beginning Washwater CMU Building
- New Electrical Duct Bank
- New Filter Underdrain System
Description: Construction of a new 3.5 million gallon drinking water reservoir - Waluga Reservoir 2 (WR2) - new outlet piping and control valves; modifications to existing Waluga Reservoir 1 (WR1); new distribution piping within the reservoir site; new reservoir level sensing instrumentation at both reservoirs; new control panels and communications to City of Lake Oswego Water Treatment Plant; new electrical service; new storm water drainage piping and detention basin; upgrades to existing roadway into site.

Section 1. Contract Financial Status:

| Original Contract         | $7,309,541.00 |
| Approved COs              | $253,734.88   |
| Total Contract            | $7,563,275.88 |

Paid-to-Date: $7,563,275.88 (through November, 2015)
Work this Period: $0.00
Balance-to-Finish: $0.00 (retainage released)

Section 2. Period Summary and Work Performed

Section 3. Schedule Progress

Section 4. Project Key Schedule Milestones

Notice to Proceed - 05/08/14
1. Video Jobsite, Obtain Permits, Tree Trim, Site work - May'14
2. Site work - 5/16/14 through 7/31/15
3. WR2 Super & Sub-Structure - 7/2/14 through 4/29/15
4. WR1 Super Structure (including testing, commission) - 5/13/15 through 8/24/15
5. Substantial Completion WR2 - 6/24/15
6. Final Completion - 9/25/15 9/30/15 11/6/15

WR2 Construction Status - 1 of 2
<table>
<thead>
<tr>
<th>Project Name:</th>
<th>Waluga Reservoir 2 (WR2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contractor:</td>
<td>Ward-Henshaw Construction Company, Inc.</td>
</tr>
<tr>
<td>Construction Mgr.:</td>
<td>Rob Murchison</td>
</tr>
<tr>
<td>Project No:</td>
<td>208</td>
</tr>
<tr>
<td>Reporting Per:</td>
<td>January, 2016 - COMPLETE</td>
</tr>
</tbody>
</table>

### Section 5. Three Month Look Ahead
- COMPLETE

### Section 6. Risks/Issues
- COMPLETE

### Section 7. Changes
- COMPLETE

### Section 8. Construction Photographs

- **Looking South at WR2**
- **Final Plantings Near WR2**
- **Final Plantings North of WR2**
- **Installing Air Valve Vents**
Project Name: Bonita Pump Station (BPS)  
Contractor: Pacific Excavation, Inc.  
Construction Mgr.: Rob Murchison

Description: Construction of a new Bonita Pump Station (BPS) located in Tigard, Oregon. This potable water pump station and site includes: five barrel-mounted vertical turbine pumps; a standby power generator; yard piping; meter vault; electrical duct banks and transformers; heating, ventilation and conditioning equipment; on-site paving, curb, gutter and sidewalks, and fencing.

Section 1. Contract Financial Status:

- Original Contract $5,850,305.00
- Approved COs $196,848.63
- Total Contract $6,047,153.63
- Paid-to-Date $6,039,273.63 (through January, 2016)
- Work this Period $0.00
- Balance-to-Finish $7,880.00 (Includes retainage)

Section 2. Period Summary and Work Performed

- Small punchlist items

Section 3. Schedule Progress

- A small pipeline replacement was added to the BPS contract
- Anticipated change order to extend the final completion date, compensating for testing delays and additional work

Section 4. Project Key Schedule Milestones

Notice to Proceed - 06/02/14

1. Site Excavation/Rock - 06/20/14 (complete)
2. Pump Barrel Delivery - 08/13/14 (complete)
3. Planting Window - 10/01/14 (complete)
4. Building Slab - Nov 24, 2014 01/30/15 (complete)
5. Roof Complete - Feb 28, 2015 03/19/15 (complete)
6. Install Pumps - 04/22/15 (complete)
7. Install VFDs - June 3, 2015 05/25/15 (complete)
8. Ops Readiness Test 1 - 06/25/15 06/09/15 (complete)
9. Ops Readiness Test 2 - 07/29/15 07/13/15 (complete)
10. Substantial Completion 07/10/15 08/14/15 11/13/15 (CO8)
11. Final Completion 09/30/15 12/18/15 (CO8)
Section 5. Three Month Look Ahead
- Complete final punchlist
- Additional Fanno Creek pipe work
- Project closeout

Section 6. Risks/Issues
- Risks for Fanno Creek pipe work include: small work site; traffic concerns; staging issues; and equipment hazards

Section 7. Changes
- Small Misc. Items - $34K addition (Anticipated)
- Fanno Creek Pipe Work - $45K addition (Anticipated)

Section 8. Construction Photographs
- SW corner of Pump Station
- West side of Pump Station
- East side of Pump Station

Project Name: Bonita Pump Station (BPS)  
Project No: 209  
Reporting Per: February, 2016  
Contractor: Pacific Excavation, Inc.  
Construction Mgr.: Rob Murchison
<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current Estimate at Completion</td>
<td>The current total program cost estimate.</td>
</tr>
<tr>
<td>Construction Cost</td>
<td>This allowance for indeterminates accounts for the miscellaneous unknowns that contractors include in their bids. It recognizes the impossibility of preparing a sufficiently detailed estimate or bid that covers every last detail. The allowance is higher early in the design process and decreases as design progresses. The allowance goes to zero for each project when contractor bids are received.</td>
</tr>
<tr>
<td>Estimate Contingency</td>
<td>The Sponsors’ (Owners’) reserve amount that will fund construction change orders required as a result of risk events, changes, or unknown conditions that may be encountered during construction.</td>
</tr>
<tr>
<td>Construction Contingency</td>
<td>The Sponsors’ (Owners’) reserve amount that will fund construction change orders required as a result of risk events, changes, or unknown conditions that may be encountered during construction.</td>
</tr>
<tr>
<td>Design Contract Amendments</td>
<td>The amount Sponsors (Owners) have paid or can expect to pay designers for out-of-scope work required as a result of changes or risk events encountered during the design phase.</td>
</tr>
<tr>
<td>Mitigation Contingency Remaining</td>
<td>The Sponsors’ (Owners’) reserve amount that will fund further mitigation measures anticipated as part of land use and environmental permit approvals. Requirements already identified, or to make projects more acceptable, have already been incorporated in construction cost estimates.</td>
</tr>
<tr>
<td>PMWeb</td>
<td>A web-based Program Management Information System (PMIS) used as a management tool to track and forecast costs in a more real-time fashion than a typical municipal accounting system.</td>
</tr>
<tr>
<td>Tyler</td>
<td>The City of Lake Oswego’s accounting system software.</td>
</tr>
<tr>
<td>Total Cost</td>
<td>The total amount expended to date.</td>
</tr>
</tbody>
</table>