BURLETON PUBLIC WORKS

FY2016 PROPOSED BUDGETS
Water, Wastewater & Stormwater
DPW MISSION STATEMENT

• We steward Burlington’s infrastructure and environment by delivering efficient, effective and equitable public services.
Water Resources

• Water Supply
  – Treatment of water from Lake Champlain for drinking water
  – Distribution of water to homes, businesses and fire hydrants
  – Maintenance of water distribution system including valves, water mains & services, fire hydrants, elevated storage tanks and reservoirs

• Wastewater (Sanitary)
  – Treatment of sewage from homes and business before discharge to the Winooski River and Lake Champlain
  – Treatment of combined stormwater/wastewater to maximum extent practicable before discharge
  – Maintenance of collection system, three treatment plants, 25 pump stations

• Stormwater Management
  – Collection of stormwater runoff in combined and separate storm sewers
  – Regulatory review of increases in impervious surface or earth disturbances to mitigate (Chapter 26)
  – Watershed Planning and Retrofit design to mitigate stormwater runoff volumes and treat pollutants before discharge to waterways
Water Resources, by the Numbers

- 1 water plant
- **110** miles of water mains
- 3 Wastewater Treatment Plants
- 49 miles of sanitary sewer
- 45 miles of combined sanitary / storm sewer
- 37 miles of storm sewer
- 25 pump stations
- **102** storm water outfalls
- **2,000+** catch basins
- 900 fire hydrants
- 2 post-closure landfills
- 1 methane powered generating station
Water Resource FY 16 Budget Principles

• Fair
  – Water Meter Replacement Initiative
  – Sustainable Rate Structure (reducing infrastructure deficit)

• Factual
  – Develop key performance Indicators for evaluating FY’16 performance

• Forward
  – Water Resources Infrastructure Reinvestment
  – Asset Management Planning
  – Development of Fund Balance Policy
  – Implementation of Key Initiatives for Water Resources
Water Resource FY 16 GOALS

- **Water Resources Infrastructure Reinvestment**
  - Fully fund Water Capital needs (for the first time)
Water system aging infrastructure
2014-15
# Water Capital Plan

## Water Estimated Annual Capital Costs

<table>
<thead>
<tr>
<th>Year</th>
<th>2016</th>
<th>2018</th>
<th>2020</th>
<th>2022</th>
<th>2024</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cost ($2,000,000.00)</td>
<td>$1,780,000.00</td>
<td>$1,600,000.00</td>
<td>$1,480,000.00</td>
<td>$1,360,000.00</td>
<td>$1,240,000.00</td>
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</tbody>
</table>
WATER CAPITAL COSTS BY SYSTEM AREA (30 years)

- Plant: $2,606,000
- Reservoir: $1,754,000
- Tanks: $1,488,000
- Distribution: $35,920,250
- Metering: $6,903,000
Water Resource FY 16 GOALS

• **Water Resources Infrastructure Reinvestment**
  – Fully fund Water Capital needs (for the first time)
  – Maintain Wastewater Capital spending until Wastewater Capital Plan is complete
Wastewater Infrastructure Needs
Water Resource FY 16 GOALS

• **Water Resources Infrastructure Reinvestment**
  – Fully fund Water Capital needs (for the first time)
  – Maintain Wastewater Capital spending until Wastewater Capital Plan is complete
  – Move towards more sustainable Stormwater capital spending
    • based on known capital deficiencies and
    • to provide match $ for stormwater improvements during other City general fund projects
Stormwater Capital Reinvestment Needs: Corrugated Metal Pipe and SW Outfalls

~53,000 linear feet of CMP (~10 miles)

102 outfall pipes
10-20% outfall areas are failed, with others in poor condition –

→ water quality impacts (sediment)
→ in some cases affecting public and private infrastructure
Stormwater Capital Plan Development and Implementation

• Utilize Clean Water State Revolving Fund Loans to develop components of Stormwater Capital Plan and fund long term implementation

• Proposed projects
  – Stormwater pipe filming, prioritization and lining
  – Outfall damage assessment/prioritization, design and construction
  – Stormwater improvements integrated master planning and implementation
    • Regulatory requirements (Improvements for Streams and Lake Champlain and CSO abatement)
    • Flooding improvements
Water Resource FY 16 GOALS

- Use Water Resource maintenance and capital $ as efficiently as possible
  - Improved in field data collection with ArcGIS
  - Asset Management Planning
    - Scoping study in early FY 16
    - Begin development of written asset management plan in late FY 16
      - Levels of Service/Performance indicators
      - Likely acquisition of a computerized maintenance management system
      - Enhance capital planning through improved condition assessment
Water Resource FY 16 GOALS

• Increase organizational capacity to address and manage capital needs
  – Transfer of PW Engineer to Water Resources
  – Additional Engineer/Project Manager
  – Reorganization of Water Resources staff in FY 16
    • Projected to be budget neutral
Department of Public Works
FY16 Organizational Chart
May, 2015

Public Works Director
Chap Spencer

Assistant Director - Water Quality
Laurie Adams
Grade 23

Water Resources Engineer
Steve Roy
Grade 21

Water Resources Engineer/Project Manager
New position

Stormwater Administrator
Megan Mor
Grade 21

Stormwater Technician
Greg Johnson
Grade 18

Water Distribution Foreman
Adam Lafountain
Non-union, non-exempt Grade 18

Water Meter Foreman
James Badger
Union Grade 17

Chief Plant Operator
Tom Dion
Union Grade 19

Chief Plant Operator - Main & North Wastewater Plants
Tim Grover
Non-union, Exempt Grade 20

Chief Plant Operator, Pump Stations, & corrective Maintenance
Vacant
Non-union Exempt Grade 20

Utility Billing Coordinator
Jessica Levalette
Union Grade 18

2 Waste/Water Customer Service Representatives
Teri Boylan
Andrea Mitchell
Grade 14

1 Seasonal
Water Resource FY 16 GOALS/DRIVERS

• Work towards sustainable rate structure
  – Minimal, modest increases more consistently vs. substantial intermittent increases
  – Ensure that future rate payers are not unfairly burdened by ever increasing infrastructure deficit
  – Develop budgets that adequately fund a sufficient reserve for emergencies
    • Develop Enterprise Fund Reserve Policy specific to the nature of revenue and expense volatility
## FY 16 Water Resources Enterprise Budgets

### Water

<table>
<thead>
<tr>
<th>FY'15 Budget</th>
<th>FY'16 Budget</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revenues</td>
<td>$5,976,088</td>
<td>$6,545,746</td>
</tr>
<tr>
<td>Expenses</td>
<td>$5,965,605</td>
<td>$6,479,743</td>
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<tr>
<td>Net</td>
<td>$10,483</td>
<td>$66,003</td>
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### Wastewater

<table>
<thead>
<tr>
<th>FY'15 Budget</th>
<th>FY'16 Budget</th>
<th>Change</th>
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</thead>
<tbody>
<tr>
<td>Revenues</td>
<td>$7,966,862</td>
<td>$8,035,048</td>
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<tr>
<td>Expenses</td>
<td>$7,559,367</td>
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<td>Net</td>
<td>$407,495</td>
<td>$297,411</td>
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### Stormwater

<table>
<thead>
<tr>
<th>FY'15 Budget</th>
<th>FY'16 Budget</th>
<th>Change</th>
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</thead>
<tbody>
<tr>
<td>Revenues</td>
<td>$1,156,139</td>
<td>$1,273,213</td>
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<tr>
<td>Expenses</td>
<td>$1,156,139</td>
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<tr>
<td>Net</td>
<td>$0</td>
<td>$16,940</td>
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## Water Resources Utilities Rate Background

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>Rate/100 cf Water</th>
<th>Rate/100 cf Wastewater</th>
<th>Flat Fee/month Stormwater</th>
<th>ISU (1000 s.f.) Stormwater</th>
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<tbody>
<tr>
<td>2011</td>
<td>$3.17</td>
<td>$4.71</td>
<td>$3.00</td>
<td>$1.17</td>
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<tr>
<td>2012</td>
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<td>2013</td>
<td>$3.33</td>
<td>$5.44</td>
<td>$3.00</td>
<td>$1.17</td>
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<tr>
<td>2014</td>
<td>$3.50</td>
<td>$5.44</td>
<td>$4.50</td>
<td>$1.69</td>
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<tr>
<td>2015</td>
<td>$3.50</td>
<td>$5.44</td>
<td>$4.50</td>
<td>$1.69</td>
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<tr>
<td><strong>2016</strong></td>
<td><strong>$4.00</strong></td>
<td><strong>$5.55</strong></td>
<td><strong>$5.21</strong></td>
<td><strong>$1.95</strong></td>
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## Proposed FY 16 Rates

<table>
<thead>
<tr>
<th>Utility</th>
<th>FY 2015</th>
<th>FY 2016</th>
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<tbody>
<tr>
<td></td>
<td>FY 15 Monthly Cost for Average Home Owner</td>
<td>Proposed FY16 Rate</td>
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<tr>
<td><strong>Stormwater</strong></td>
<td>$4.50 per month for residential units</td>
<td>$4.50</td>
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<tr>
<td><strong>Wastewater</strong></td>
<td>$5.44 per 100 cubic feet</td>
<td>$36.36</td>
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<tr>
<td><strong>Water</strong></td>
<td>$3.50 per 100 cubic feet</td>
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<tr>
<td><strong>Total Utility</strong></td>
<td>$64.26</td>
<td>$69.05</td>
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Questions?