DISTRICT OF COLUMBIA
WATER AND SEWER AUTHORITY

BOARD OF DIRECTORS
WATER QUALITY AND WATER SERVICES
COMMITTEE MEETING AGENDA

Thursday, June 16, 2016
11:00 a.m.
5000 Overlook Avenue, SW
Washington, DC 20032

11:00 a.m. I. Call to Order
Howard Gibbs, Acting Chairperson

11:05 a.m. II. Water Quality Monitoring
Charles Kiely

Coliform Testing
LCR Compliance Testing

11:15 a.m. III. Fire Hydrant Upgrade Program
David Wall

Status Report of Public Fire Hydrants
Out of Service Fire Hydrant Map

11:30 a.m. IV. Automated Metering Reading Update
Lauren Preston

12:00 p.m. V. Premise Plumbing Partnership & Research
Jessica Brandt-Edwards

12:20 p.m. VI. Non-Joint Use
Charles Kiely

2. Contract No. 16-PR-CCO-59-Fasteners Rx, Inc.
3. Contract No. WAS-12-002-AA-SH-Aclara Technologies

12:30 p.m. VII. Joint Use

1. None.
12:35 p.m. VIII. Executive Session*

Adjournment

*The DC Water Board of Directors may go into executive session at this meeting pursuant to the District of Columbia Open Meetings Act of 2010, if such action is approved by a majority vote of the Board members who constitute a quorum to discuss: matters prohibited from public disclosure pursuant to a court order or law under D.C. Official Code § 2-575(b)(1); contract negotiations under D.C. Official Code § 2-575(b)(1); legal, confidential or privileged matters under D.C. Official Code § 2-575(b)(4); collective bargaining negotiations under D.C. Official Code § 2-575(b)(5); facility security under D.C. Official Code § 2-575(b)(8); disciplinary matters under D.C. Official Code § 2-575(b)(9); personnel matters under D.C. Official Code § 2-575(b)(10); proprietary matters under D.C. Official Code § 2-575(b)(11); decision in an adjudication action under D.C. Official Code § 2-575(b)(13); civil or criminal matters where disclosure to the public may harm the investigation under D.C. Official Code § 2-575(b)(14), and other matters provided in the Act.
### Status Report of Public Fire Hydrants for DC Water Services Committee - June 6, 2016

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Fire Hydrants:</td>
<td>9,487</td>
<td>9,488</td>
<td>9,483</td>
<td>9,484</td>
</tr>
<tr>
<td>In Service:</td>
<td>9,413</td>
<td>9,420</td>
<td>9,418</td>
<td>9,425</td>
</tr>
<tr>
<td>Marked Out-of-Service (OOS):</td>
<td>68</td>
<td>68</td>
<td>65</td>
<td>59</td>
</tr>
<tr>
<td>OOS - defective requiring repair/replacement</td>
<td>49</td>
<td>36</td>
<td>45</td>
<td>29</td>
</tr>
<tr>
<td>% OOS requiring repair or replacement (DC Water goal is 1% or less OOS):</td>
<td>0.52%</td>
<td>0.38%</td>
<td>0.47%</td>
<td>0.31%</td>
</tr>
<tr>
<td>OOS - due to inaccessibility or temp construction work</td>
<td>19</td>
<td>23</td>
<td>20</td>
<td>30</td>
</tr>
</tbody>
</table>

**Note:** The number of public hydrants in the DC Water system fluctuates; this number fluctuates as hydrants are added and removed during development or construction activities as well as at the request of the Fire Dept.

### Breakdown of Public Fire Hydrants Out-of-Service (OOS) as of June 6, 2016

#### Defective

<table>
<thead>
<tr>
<th>Days</th>
<th>0-7 Days</th>
<th>8-14 Days</th>
<th>15-30 Days</th>
<th>31-60 Days</th>
<th>61-90 Days</th>
<th>91-120 Days</th>
<th>&gt; 120 Days</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrant Needs Repair/Investigation</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>4</td>
<td>8</td>
</tr>
<tr>
<td>Needs Valve Investigation for Low Flow/Pressure or Shut Test for Replacement</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>Needs Replacement</td>
<td>1</td>
<td>2</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>13</td>
<td>17</td>
</tr>
</tbody>
</table>

Defective: 29

#### Others

<table>
<thead>
<tr>
<th>Days</th>
<th>0-7 Days</th>
<th>8-14 Days</th>
<th>15-30 Days</th>
<th>31-60 Days</th>
<th>61-90 Days</th>
<th>91-120 Days</th>
<th>&gt; 120 Days</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temporarily OOS as part of operations such as a main repair</td>
<td>0</td>
<td>0</td>
<td>9</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>3</td>
<td>14</td>
</tr>
<tr>
<td>Construction* - OOS</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>7</td>
<td>11</td>
</tr>
<tr>
<td>Obstructed Hydrant – OOS hydrant due to operation impeded by an obstruction</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>5</td>
<td>5</td>
</tr>
</tbody>
</table>

Others: 30

*Fire hydrants not accessible due to construction activities. Also includes new hydrants which have not yet been commissioned or old hydrants which will be abandoned as part of ongoing construction projects.

### Status of Private Fire Hydrants- Based on FEMS Inspection Reporting

- **Private Hydrants:** 1,318
  - In Service: 1,188
  - Out-of-Service (OOS): 130
Map of Public Out-of-Service Hydrants

June 7, 2016

Legend

OOS Hydrants
- Defective
- New Construction
- Obstructed
- Temporary

Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), MapmyIndia, © OpenStreetMap contributors, and the GIS User Community
Meter Replacement Project Results

Presented to:
Water Quality and Water Services Committee
Chairperson: Rachna Butani
June 16, 2016
DC Water Meter Demographics

- 125,000 meters
- 122,000 small sized meters managed as part of the overall AMR/meter replacement programs or projects for water system replacement
- 2,900 large size (3” or greater) meter serving multi-family, non-residential and government accounts contribute 60% of CCF based sales
  - 2,200 are modest large 3” – 4” = 24% of CCF sales
  - 700 are very large 6”+ = 36% of CCF sales
Federal 140 Lessons

Expedited exchange of 140 large Federal meters in Spring 2015 focused on accounts with old meters or uncertainty about changes in CCF measurements

Goals:

✓ Confirm if meter degradation was a factor in use decline
✓ Install AMR equipment to better monitor use changes
✓ Have educated conversation with building managers about effects of conservation and building occupancy changes
✓ Understand if occupancy related changes in water consumption were temporary or permanent
✓ Use that information to adjust current and future Federal billing projections and expectations
✓ Give property managers tools to better understand water use
Results – Post installation analysis of 110 of 140 selected accounts

Test Results

- Shop tested 106 meters:
  - 24 Passed AWWA standards
  - 22 Narrowly did not meet AWWA standards (range 93% to 103%)
  - 60 Did not meet AWWA standards – 7 fast, 56 slow

Financial Change

- Compared CCF measured for FY 14 vs. FY 15 to see net effect of meter changes among 110 completed accounts.
- 23 accounts had a modest financial change - variance was within $150 a month more or less than prior year.
- Largest increase was worth about $500,000 in annual revenue
- Largest decrease showed enduring decline of $240,000 mostly due to Federal employee relocation.
- Net increase across all affected accounts 81,520 CCF, worth approximately $800,000 a year
Questions?
Premise Plumbing Partnership and Research

Water Quality Committee
June 16, 2016
Premise plumbing: No Rules, New Risks, New Research

- Conditions create low chlorine residual and promotes bacteria amplification
- Occurrence and release of Opportunistic Premise Plumbing Pathogens (OPPPs)
The Challenges in dealing with the OPPPs

• Emerging issue – Lack of reliable information, research, and unclear regulatory roles and responsibilities

• SDWA Rules related to supplemental disinfection

• The water age (nitrification) issues within distribution and premise plumbing
• CDC released “Vital Signs” report, which demonstrates the number of people with Legionnaires’ disease grew by four times from 2000 to 2014.

CDC also distributed a guide titled Developing a Water Management Program to Reduce Legionella Growth & Spread in Buildings.

• *Legionella* bacteria, is a critical opportunistic pathogen, which can lead to Legionnaires’ Disease in some immune-compromised individuals that *inhal* airborne water droplets or mist that *have the bacteria* – ingesting *Legionella* has not been shown to cause illness.
State of OPPP Research

• Water Research Foundation Project #4379, State of the Science and Research Needs for Opportunistic Pathogens in Premise Plumbing, 2013
  
  – Legionella is a normal part of the ecology of water distribution systems and is frequently present in high quality, regulatory compliant drinking water distributed to customers.
  
  – Legionella colonization of premise plumbing is not necessarily an indication of poor operating or maintenance practices by a community water system, rather it is a function of the conditions characteristic of premise plumbing that support proliferation.
Partnership to improve water quality

• Trifecta of experts
  – DC Water
  – Corona Environmental Consulting
  – Xylem Technologies

• 60-day proof of concept to evaluate services to improve water quality in building plumbing
  – DC Water Central Operating Facility (COF) building selected as test location

• Springboard to critical research and market opportunities
Proof of Concept Design

• Develop Communication/Response information
• Develop Hazard Analysis Critical Control Points Plan (HACCP)
  – identify, characterize and manage potential hazards in the potable and non-potable portion of the building water system
• Flushing/ Water Quality Monitoring (sensors and lab)
• Legionella research of potable water samples from end-points (distal) in building plumbing
Springboard into Opportunities

- Conduct literature review to identify gaps in research
- Evaluate and model growth factors
- Investigate treatment options
- Initiate business service offering to customers
Questions?

Thank you
DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY 
BOARD OF DIRECTORS CONTRACTOR FACT SHEET

ACTION REQUESTED

CONSTRUCTION CONTRACT:

Water Main Infrastructure Repair & Replacement Contract For Fiscal Years 2017 - 2019 (Non-Joint Use)

Approval to execute a construction contract for $16,935,772.16

CONTRACTOR/SUB/VENDOR INFORMATION

| PRIME: Fortune Myer Construction Corp. | SUBS: Omni Excavators Inc, Washington, DC 20002 | PARTICIPATION: 23.1% |
| S & J Services, Hyattssville, MD 20781 | MBE | 8.9% |
| Hybrid Construction & Engineering Group, Washington, DC 20002 | WBE | 6.0% |

DESCRIPTION AND PURPOSE

Contract Value, Not-To-Exceed: $16,935,772.16
Contract Time: 1095 Days (3 Years, 0 Months)
Anticipated Contract Start Date: 10-01-2016
Anticipated Contract Completion Date: 10-01-2019
Bid Opening Date: 05-25-2016
Bids Received: 3
Other Bids Received:
- Anchor Construction Corp.
- Capitol Paving of D.C.
- $18,234,687.20
- $21,303,970.28

Purpose of the Contract:

This is an indefinite delivery and indefinite quantity (IDIQ) contract. The contract provides for the repair and replacement of water distribution assets deemed by the Department of Water Services (DWS) critical to the continued safe and dependable delivery of water supply to the District of Columbia. The contract allows DC Water to strategically utilize a combination of internal crews and contractor crews to respond to emergency conditions impacting the water distribution system. The contract also allows DWS to utilize contractor crews to supplement the internal work force during peak times when the backlog of scheduled work exceeds the crews' ability to respond.

Contract Scope:

There is no established scope of work. Scopes of work will be developed and issued to the Contractor on a task order basis as needed by DC Water.
- Emergency repair of water distribution assets.
- Scheduled repair and/or replacement of water mains, valves, service lines, hydrants and appurtenances.

Federal Grant Status:

- Construction Contract is not eligible for Federal grant funding assistance.
## PROCUREMENT INFORMATION

<table>
<thead>
<tr>
<th>Contract Type:</th>
<th>Unit Price</th>
<th>Award Based On:</th>
<th>Lowest responsive, responsible bidder</th>
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<tr>
<td>Commodity:</td>
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<td>Contractor Market:</td>
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## BUDGET INFORMATION

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<th>Funding:</th>
<th>Capital and Operating</th>
<th>Department:</th>
<th>Water Services</th>
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</thead>
<tbody>
<tr>
<td>Service Area:</td>
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<td>Department Head:</td>
<td>Jason Hughes</td>
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<td>Project:</td>
<td>FK, GS, HY</td>
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## ESTIMATED USER SHARE INFORMATION

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<thead>
<tr>
<th>User</th>
<th>Share %</th>
<th>Dollar Amount</th>
</tr>
</thead>
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<tr>
<td>District of Columbia</td>
<td>100.00%</td>
<td>$16,935,772.16</td>
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<tr>
<td>Federal Funds</td>
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<td>$0.00</td>
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<tr>
<td>Washington Suburban Sanitary Commission</td>
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<td>$0.00</td>
</tr>
<tr>
<td>Fairfax County</td>
<td>0.00%</td>
<td>$0.00</td>
</tr>
<tr>
<td>Loudoun County &amp; Potomac Interceptor</td>
<td>0.00%</td>
<td>$0.00</td>
</tr>
<tr>
<td><strong>Total Estimated Dollar Amount</strong></td>
<td><strong>100.00%</strong></td>
<td><strong>$16,935,772.16</strong></td>
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</tbody>
</table>

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Gail Alexander-Reeves  
Director of Budget

Dan Bae
Director of Procurement

Charles Kiely
Assistant General Manager, Customer Care & Operations

George S. Hawkins
General Manager

IFB 100010 IRR Contract - Fact Sheet  
Prepared May 31, 2016
DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
BOARD OF DIRECTORS CONTRACTOR FACT SHEET

ACTION REQUESTED

GOODS AND SERVICES CONTRACT AWARD

Positive Displacement Meters
(Non-Joint Use)

Approval to execute a contract for the purchase of 90,000 Positive Displacement Meters with a base year value of $8,000,000.00.

CONTRACTOR/SUB/VENDOR INFORMATION

<table>
<thead>
<tr>
<th>PRIME:</th>
<th>SUBS:</th>
<th>PARTICIPATION:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fasteners Rx, Inc.  P.O. Box 496  Oxon Hill, MD 20745</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

DESCRIPTION AND PURPOSE

- Base Period Contract Value: $8,000,000.00
- Base Contract Period: 1 Year and 3 months
- No. of Option Years: 1 (12 month period)
- Anticipated Contract Start Date: 07-10-2016
- Anticipated Base Period Completion Date: 09-30-2017
- Proposal Closing (Bid Opening) Date: 06-03-2016
- Proposals (Bids) Received: 2
- Proposal (Bid) Price Range: $8,979,690.00 -- $12,319,900.00
- Winning Evaluated Proposal (Bid) Amount: $8,979,690.00

Purpose of the Contract:
As a part of the Automated Meter Reading (AMR) rehabilitation and upgrade program to replace aged assets and to improve customer satisfaction as part of the Blue Horizon 2020 Strategic Plan Goal 4, this contract is to purchase Positive Displacement Meters for the District of Columbia Water and Sewer Authority (DC Water) Department of Customer Care and Operations (CCO).

Contract Scope:
Purchasing up to 90,000 small diameter (5/8" to 2") meters to replace meters originally installed over ten (10) years ago for the purpose of rehabilitating DC Water's automated meter reading/advanced meter infrastructure (AMI) system. The rehabilitation project will focus on replacing meters and AMI equipment installed prior to 2007 which have reached the end of its useful life or will fail in the near future. Failing to replace the equipment will result in increased costs, a greater frequency of customers receiving bills based on estimated billing, and decreased customer satisfaction.

Invitation for Bid (IFB) was used for vendor selection. IFB contained total 98,000 meters, resulting in a bid range shown above. However, the quantity for award is adjusted down to 90,000 meters, so the contract award amount is adjusted down as well. There are 5 meters sizes: 5/8", 3/4", 1 1/2", 1", and 2". The breakdown quantity for each meter size is estimated, so the contract award value of $8,000,000.00 is based on the current best estimated breakdown of different meter size but it could change slightly.

IFB also resulted in a significant cost reduction, generating an estimated $2,300,000.00 cost savings from current price.
Participated In Invitation For Bid:
- Fastener Rx
- Mueller Systems

No LBE/LSBE participation. However, Fastener Rx is a MBE but located outside of our user jurisdiction and did not receive any preference point.

**PROCUREMENT INFORMATION**

<table>
<thead>
<tr>
<th>Contract Type</th>
<th>Firm Fixed</th>
<th>Award Based On:</th>
<th>Lowest Request for Quote</th>
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<tbody>
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<td>Commodity</td>
<td>Goods and Services</td>
<td>Contract Number:</td>
<td>16-PR-CCO-59</td>
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<tr>
<td>Contractor Market</td>
<td>Limited Market with Preference Points for LBE and LSBE Participation</td>
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</table>

**BUDGET INFORMATION**

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<tbody>
<tr>
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<td>Department Head:</td>
<td>Lauren Preston</td>
</tr>
<tr>
<td>Project</td>
<td>EM1</td>
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**ESTIMATED USER SHARE INFORMATION**

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<td>District of Columbia</td>
<td>100.00%</td>
<td>$8,000,000.00</td>
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<tr>
<td>Washington Suburban Sanitary Commission</td>
<td>0.00%</td>
<td>$0.00</td>
</tr>
<tr>
<td>Fairfax County</td>
<td>0.00%</td>
<td>$0.00</td>
</tr>
<tr>
<td>Loudoun County</td>
<td>0.00%</td>
<td>$0.00</td>
</tr>
<tr>
<td>Other (P)</td>
<td>0.00%</td>
<td>$0.00</td>
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<tr>
<td><strong>TOTAL ESTIMATED DOLLAR AMOUNT</strong></td>
<td>100.00%</td>
<td><strong>$8,000,000.00</strong></td>
</tr>
</tbody>
</table>

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Gal Alexander-Reeves  
Director of Budget  
6/9/16

Dan Bae  
Director of Procurement  
6/9/16

Charles Kiely  
Assistant General Manager, Customer Care & Operations  
6-9-2016

George S. Hawkins  
General Manager  
Date
DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY
BOARD OF DIRECTORS CONTRACTOR FACT SHEET

ACTION REQUESTED

GOODS AND SERVICES CONTRACT MODIFICATION

Meter Transmitter Units
(Non-Joint Use)

Approval to execute a contract modification to extend and purchase 90,000 upgraded Meter Transmitter Units in the amount of $6,500,000.00.

CONTRACTOR/SUB/VENDOR INFORMATION

<table>
<thead>
<tr>
<th>PRIME:</th>
<th>SUBS:</th>
<th>PARTICIPATION:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aclara Technologies</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9900 A Clayton Road</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Saint Louis, MO 63124</td>
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</tr>
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</table>

DESCRIPTION AND PURPOSE

Original Contract Value: $490,000.00
No. of Option Years in Contract: 4
Option Year 1 Value: $200,000.00
Option Year 1 Dates: 12-16-2012—12-15-2013
Option Year 2 Value: $216,000.00
Option Year 2 Dates: 12-16-2013—12-15-2014
Option Year 3 Value: $100,000.00
Option Year 4 Value: $100,000.00
Modification Values: $1,805,000.00
This Modification Value: $6,500,000.00
This Modification Dates: 7-1-2016—9-30-2018

Purpose of the Contract:
As a part of the Automated Meter Reading (AMR) rehabilitation and upgrade program to replace aged assets and to improve customer satisfaction as part of the Blue Horizon 2020 Strategic Plan Goal 4, this contract is to provide Meter Transmitter Units (MTUs) for the Department of Customer Services.

Original Contract Scope:
To provide MTUs for the purpose of replacing inoperable and aging equipment with new units to ensure correct measurements and meter readings on customer water consumption for billing.

Reason for the Change:
Purchase up to 90,000 new advanced 3400 Series MTUs and replace the older 501 and 3300 Series MTUs for the purpose of rehabilitating DC Water’s automated meter reading/advanced meter infrastructure (AMI) system. The rehabilitation project will focus on meters and AMI equipment installed prior to 2007 which have reached the end of its useful life or will fail in the near future. Failing to replace the equipment will result in increased operations costs, a greater frequency of customers receiving bills based on estimated meter readings, greater revenue uncertainty due to estimated billing, and decreased customer satisfaction.
It is in the best interest of DC Water to purchase these additional units as a sole source contract modification, because Aclara MTUs are compatible with the current AMI (advanced meter infrastructure) system. Other MTUs would require replacing approximately $10 million of installed system assets.

In addition, through procurement negotiation, Aclara reduced the unit price from $86.00 to $70.00 per unit for the Single Port MTUs and from $110.00 to $100.00 per unit for the Dual Port MTUs, resulting in a cost savings of $1,300,000.00 in this modification.

**Spending Previous Year:**
- **Cumulative Contract Value:** 12-16-2011 to 12-15-2016: $2,911,000.00
- **Cumulative Contract Spending:** 12-16-2011 to 05-31-2016: $2,571,826.00

**Contractor's Past Performance:**
According to the CDTR, the Contractor's quality of workmanship; timeliness of deliverables; conformance to DC Water's policies, procedures and contract terms; and invoicing all meet expectations.

No LBE/LSBE participation.

### PROCUREMENT INFORMATION

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<tr>
<td>Contractor Market:</td>
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<tr>
<td>Loudoun County</td>
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<tr>
<td>Other (Pil)</td>
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<tr>
<td><strong>TOTAL ESTIMATED DOLLAR AMOUNT</strong></td>
<td><strong>100.00%</strong></td>
<td><strong>$6,500,000.00</strong></td>
</tr>
</tbody>
</table>

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Date

Gail Alexander-Reeves
Director of Budget

Date

Charles Kiely
Assistant General Manager,
Customer Care and Operations

Date

Dan Bae
Director of Procurement

Date

George S. Hawkins
General Manager