



**DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY  
243<sup>rd</sup> MEETING OF THE BOARD OF DIRECTORS  
Thursday, June 7, 2018  
9:30 a.m.  
5000 Overlook Avenue, SW  
Room 407**

- I. **Call to Order (Chairman Tommy Wells)**
- II. **Roll Call (Linda Manley, Board Secretary)**
- III. **Approval of May 3, 2018 and May 24, 2018 13<sup>th</sup> Special Meeting Minutes**
- IV. **Chairman's Overview**
- V. **Committee Reports**
  1. **Governance Committee (Ellen Boardman)**
  2. **Human Resource and Labor Relations Committee (Ellen Boardman)**
  3. **Environmental Quality and Operations Committee (James Patteson)**
  4. **Finance and Budget Committee (Timothy Firestine)**
- VI. **Topics of General Interest**
  - **Mundo Verde Public Charter School- Environmental Project Presentation**
- VII. **CEO/General Manager's Report (Henderson J. Brown IV)**
- VIII. **Summary of Contracts (FYI)**
- IX. **Consent Items (Joint Use)**
  1. **Approval to Execute Option Year Two (2) of Contract No. 16-PR-DWT-13A, Urban Service Systems Corporation – Resolution No. 18-41 (Recommended by the Environmental Quality and Operations Committee 05/17/18)**
  2. **Approval of Additional Funding to Option Year One and Execute Option Year Two of Contract No. 16-PR-DWT-41A, Colonial Chemicals, Inc. – Resolution No. 18-42 (Recommended by the Environmental Quality and Operations Committee 05/17/18)**
  3. **Approval of Additional Funding to Option Year One and Execute Option Year Two of Contract No. 16-PR-DWT-41B, Mitsubishi International Corp. – Resolution No. 18-43 (Recommended by the Environmental Quality and Operations Committee 05/17/18)**
  4. **Approval to Execute Contract No. DCFA-495-WSA, Brown and Caldwell – Resolution No. 18-44 (Recommended by the Environmental Quality and Operations Committee 05/17/18)**

5. [Approval to Execute Contract No. 140100, Marbury Point Solar LLC – Resolution No. 18-45](#) (Recommended by the Environmental Quality and Operations Committee 05/17/18)
6. [Approval to Execute Contract No. 17-PR-CFO-20A,20B,20C, Alliant Insurance Services – Resolution No. 18-46](#) (Recommended by the Finance and Budget Committee 05/24/18)

**X. Consent Items Non-Joint Use**

1. [Approval to Execute Contract No. 170020, Northeast Remsco Construction, Inc. – Resolution No. 18-47](#) (Recommended by Environmental Quality and Operations Committee 05/17/18)
2. [Approval of Additional Funding to Option Year One of Contract No. 16-PR-DMS-43, Electric Motor & Contracting Co., Inc.\(EMC\) – Resolution No. 18-48](#) (Recommended by Environmental Quality and Operations Committee 05/17/18)

**XI. Executive Session** – To discuss legal, confidential and privileged matters pursuant to Section 2-575(b) of the D.C. Official Code<sup>1</sup>

**XII. Adjournment (Chairman Tommy Wells)**

1 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.

**Upcoming Committee Meetings**

- Environmental Quality and Operations Committee – Thursday, June 21<sup>st</sup> 9:30 a.m.
- DC Retail Water and Sewer Rates Committee – Tuesday, June 26<sup>th</sup> @ 9:30 a.m.
- Finance and Budget Committee – Thursday, June 28<sup>th</sup> @ 11:00 a.m.



**DISTRICT OF COLUMBIA  
WATER AND SEWER AUTHORITY**

**Board of Directors**

*Governance Committee*

*Wednesday, May 9, 2018*

*9:00 a.m.*

**MEETING MINUTES**

**Committee Members**

Ellen O. Boardman, Chairperson  
Rachna Bhatt (via phone)  
Nicholas A. Majett  
Bonnie Kirkland  
Emile C. Thompson (via phone)

**D.C. Water Staff**

Henderson J. Brown, IV, Interim  
CEO/General Manager  
Meena Gowda, Acting General Counsel  
Biju George, Chief Operating Officer  
Korey Gray, Compliance Officer  
Alan Heymann, Chief Marketing Officer, Blue  
Drop President  
Linda Manley, Board Secretary

**Call to Order**

Chairperson Boardman called the meeting to order at 9:00 a.m.

**Agenda Item #1 – DC Water Works! FY 18 Program Update**

Korey Gray, DC Water’s Compliance Officer, presented Agenda Item #1 – DC Water Works! (Water Works) FY 18 Program Update.

Mr. Gray began by reviewing the two program goals for which Water Works was established, namely that: 1) 51% of DC Water’s total contractor workforce will be local residents, and 2) 60% of those new opportunities created through procurements and contracts would be filled by local residents.

Mr. Gray reported that, between October 1, 2017 and March 31, 2018, thirty-three new DC Water contractor positions were filled. Of these, twenty-four were sourced through Water Works’ referral process, and 9 were filled directly by contractors. Thirty-one of those positions were filled by residents of the User Jurisdiction (93%), of whom twenty-five were DC residents (75%) (mostly from Wards 5, 7, and 8). Two positions were filled by residents outside of the User Jurisdiction.

Mr. Gray next provided an update on the Commercial Driver's License (CDL) Training Program. Currently, Water Works is in the process of conducting its second CDL cohort. The participants' rate of pay during the program is \$15.00/hour and the participants are staffed as temporary employees through MB Staffing. Mr. Gray reviewed the program goals, which are that 1) 80% of the participants would graduate and 2) 50% of those graduates would be successfully placed in jobs. This second cohort began with twelve (12) new participants enrolled in the training program, although one participant was hired mid-way through. Currently, the participants are testing for their CDL Class A licenses.

Mr. Gray then provided an update on Water Works Green Infrastructure Initiative. The first cohort of FY18 has successfully completed the program. Of this cohort, seven (7) individuals passed the National Green Infrastructure Program exam and obtained their Green Infrastructure Certification. Five of the seven graduates are now employed. Currently, two new Green Infrastructure Initiative cohorts have been established and are actively running with thirty-two (32) individuals enrolled.

Mr. Gray also provided an update on the Department of Facilities Summer Training Program, which provides DC residents with training in various facilities trades (e.g., landscaping, painting) that will make them more employable. Traditionally, the program accepted up to six participants, all of whom were referred by Earth Conservation Corps and Sasha Bruce, for two months of training in the summers. Participants were given a training stipend, which was fully funded by DC Water. This year, DC Water is exploring a new partnership for the program with the District Department of Employment Service's Project Empowerment Program. With the change, the program will continue to accept six participants, but the referrals will come from DC DOES. Sasha Bruce and Earth Conservation Corps will still be able to refer candidates, but will do so through DC DOES. Moreover, the length of the program will expand from two months to six months. This will not only allow the participants to obtain more substantial skill development, but also allow them the opportunity to obtain their Refrigerant Transition and Recovery Certification. In response to Chairperson Boardman's question related to candidate screening for the program, Mr. Gray explained that each candidate participates in a two-step screening process: first through the District screening process, and then through DC Water's Human Capital Management and Facilities Departments screening process.

Finally, Mr. Gray provided an update on DC Water's Non-Major and Major Construction Projects' job creation and hiring statistics. In FY 18, 1,282 contractor positions were available on twenty-eight (28) Non-Major Construction projects. 961 (74%) of those positions were filled by residents within DC Water's User Jurisdiction, and 216 were filled by DC residents.

Mr. Gray went on to report that in FY 18 there were thirteen (13) active major construction projects with 4,243 contractor positions available. 1,993 (47%) of those positions were filled by residents within DC Water's User Jurisdiction, and 485 were filled by DC residents.

Chairperson Boardman asked Mr. Gray to provide the Committee with a historical view of the program from its inception and an analysis of the program's employment numbers overtime.

### **Agenda Item #2 – Blue Drop Activity Update**

Alan Heymann, DC Water's Chief Marketing Officer and President of Blue Drop, presented Agenda Item #2 – Blue Drop Quarterly Activity Update.

To begin, Mr. Heymann introduced several members of the Blue Drop team in attendance: Director of Operations, Francesca Valente; Head of Bloom Marketing Program, Saul Kinter; and Director of Marketing, Sarah Neiderer. Mr. Heymann also briefly outlined the composition of Blue Drop's Board which currently has three (3) vacancies for which three (3) candidates are under consideration.

Next, Mr. Heymann discussed the business lines and revenue streams of Blue Drop, which include existing and prospective consulting projects and the marketing and sale of Bloom, a Class-A Biosolids.

The current consulting projects include: 1) a project for the Springfield Water and Sewer Commission, a utility organized similar to that of DC Water; 2) the Upper Blackstone Water Pollution Abatement project, which is Blue Drop's first re-branding project; 3) a communications strategy project for the Denver Metro Wastewater Reclamation District; and 4) a customer service and communications strategy project for the New Orleans Sewerage and Water Board.

Mr. Heymann outlined the key players on each project:

- 1) Springfield Water and Sewer Commission
  - a. Project Manager – Francesca Valente
  - b. Subject Matter Expert – Alan Heymann
- 2) Upper Blackstone Pollution Abatement District
  - a. Project Manager – Kim Marshall
  - b. Subject Matter Expert – Alan Heymann
  - c. Branding and Graphics – Ted Coyle, DC Water External Affairs
- 3) Denver Metro Wastewater Reclamation District.
  - a. Project Manager – Kim Marshall
  - b. Subject Matter Expert(s) – Sarah Neiderer, Alan Heymann
  - c. Partnership with Seven Consulting in California

- 4) New Orleans Sewerage and Water Board
  - a. Project Manager – Kim Marshall with support from Charles Kiely, DC Water’s Assistant General Manager of Customer Services, and his team
  - b. Communications – Alan Heymann.

Upon inquiry from Chairperson Boardman, Mr. Heymann confirmed that DC Water and Blue Drop are operating under the agreed-upon shared services arrangement for the Upper Blackstone project. Mr. Heymann further advised that Blue Drop obtains its business through consulting, advertising, podcasts, recommendations, referrals, and conference participation.

Next, Mr. Heymann briefly discussed Blue Drop’s financial status for FY18. Mr. Heymann explained that, while Blue Drop’s expenses are running higher than its revenues, the expenses to date are under budget. He added that a more accurate picture of Blue Drop’s revenues can be provided after the existing consulting engagements have ended and the invoices have been paid.

Mr. Heymann then reported on Blue Drop’s Bloom sales. He first highlighted Blue Drop’s recent sales related successes: 1) Blue Drop sold all the 450 tons of Bloom produced on April 23; 2) Blue Drop had its first sales to Maryland farms; 3) Virginia farm sales are pending; and 4) Bloom bags are now available.

Mr. Heymann then reviewed the economics of the Bloom program. DC Water produces 450 tons of Class-A Biosolids (Bloom) on a daily basis. Historically, DC Water has paid haulers around \$45 per ton to remove and distribute the Bloom to spreading fields, which costs DC Water on average \$7 million per year.

Mr. Heymann explained that under Blue Drop’s Marketing and Sales Agreement, Blue Drop attempts to sell a portion or all of the produced Bloom. Under this economic model, buyers pay DC Water (through Blue Drop) between \$0.87 and \$5.30 for each ton of Bloom it purchases. Further, instead of paying \$45 per ton to haul Bloom away from the plant, DC Water pays Blue Drop its costs to have Bloom hauled to buyers: such hauling costs are anywhere between \$0 and \$25. Finally, DC Water pays Blue Drop a \$5 services/marketing fee for each ton it sells.

Under the Marketing and Sales Agreement economic model, DC water saves \$15 to \$40 per ton of Bloom sold. For this year, Blue Drop has sold around \$38,000 worth of Bloom, which equates to a cumulative savings to DC Water of around \$436,000.

Chairperson Boardman asked Mr. Heymann to explain the logistics of scheduling the sale of Bloom, considering the increased demand for the product. Mr. Heymann responded that the process will be reviewed and the scheduling will be adapted as the demand continues to grow for the product. Chairperson Boardman also inquired about the design and production of the Bloom bag. Mr. Heymann explained that DC Water’s

External Affairs department did the artwork, and the design was completed by Homestead Gardens, which does the drying and bagging of the Bloom product.

Additionally, Chairperson Boardman asked about the division of sales of the product between Blue Drop, DC Water and Homestead. Mr. Heymann explained that Blue Drop sells Bloom fresh to Homestead at \$3 per ton. Homestead hauls the product to their own facilities where they handle, cure, bag and distribute Bloom. For each bag and/or ton of Bloom sold by Homestead, a small royalty payment is made to Blue Drop/DC Water.

At the conclusion of Mr. Heymann's presentation, he informed the committee of some of Blue Drop upcoming plans, which include: 1) to apply for separate tax status, 2) to move its office in October, and 3) to begin offering executive coaching services through Mr. Heymann.

### **Agenda Item #3 – Update on IP Monetization Projects.**

Biju George, Chief Operating Officer, presented an update on the IP Monetization Projects.

Mr. George began by briefly reviewing the revenue strategies developed in context with Blue Horizon 2020, which include: 1) leveraging innovation to develop more revenue with existing assets; 2) leveraging capital; 3) creating a new brand (Blue Drop) and leveraging that organization for more revenue opportunities.

Next, Mr. George discussed DC Water's approach to market its Intellectual Property (IP) by maximizing revenues and minimizing risk through leveraging DC Water's existing assets. Mr. George reviewed DC Water's current IP which include: nine (9) granted patents, three (3) provisional patents and seven (7) patents in progress.

Mr. George then discussed the context of several marketing agreements and strategies and the associated royalty arrangements in place for DC Water's IP, which include:

1. DigestivorePAD™ - a multi-stage sludge digestion process to increase destruction and enhance nutrient removal and dewatering; under contract with Ovivo to market and license (September 2016).
2. AvN™ - strategy to selectively promote growth of productive bacteria to "short-cut" the conventional nitrogen removal process; under contract with World Water Works to market and license (September 2015).
3. Screen Enhancement for Deammonification – Enhanced control of bacteria to improve a continuous nitrogen removal process to reduce chemical and energy costs. Joint licensing agreement with ARA Consulting to jointly market and sell each parties' IP (January 2017).

4. inDENSE™ - A cyclone system design to improve the settleability of solids and increase capacity of activated sludge processes to reduce plant expansion costs. inDENSE is licensed to and marketed by ARA Consulting (March 2018).
5. Manhole Lifter – developed by DC Water employee; tool for ergonomic lifting of heavy objects including manhole covers. Marketing approach is under discussion.
6. Post Denitrification – Nitrogen Polishing process developed to decrease of Methanol. The Post Denitrification Patent was licensed to ARA Consulting to market (May 2018).
7. Pasteurization – An approach to manage viscosity and heat balance for a mix of waste streams undergoing thermal treatment: developed to maximize system digestion and dewatering efficiencies. Proof of principle needs to be confirmed to advance marketing strategies.
8. Membrane Biofilm Reactor – energy efficient nutrient removal technique through the uses of advection or convection to overcome diffusional limitations. Proof of principle needs to be confirmed to advance marketing strategies.

Ms. Boardman asked whether DC Water holds individual agreements with each inventor, to which Mr. George answered affirmatively. Committee Member Kirkland asked about the breakdown of royalty percentages between DC Water and internal stakeholders, to which Mr. George responded that DC Water will retain its share of the royalty less the percentage of DC Water's share owed to each internal stakeholder (which averages between 8.5% and 25% of DC Water's royalty share). Chairperson Boardman inquired about the revenue projections for under the IP arrangements and Mr. George estimated that the contracted value is currently around \$3 million.

Finally, Mr. George discussed the 3M Catalyst project which was a pro bono consulting service 3M provided to DC Water. As a focus of the program, DC Water asked 3M to review and make recommendations on DC Water's IP development and commercialization programs in order to maximize their effectiveness. As a result of the review, 3M outlined a general approach and various IP processes as key areas of focus for the development and monetization of DC Water's innovations.

Chairperson Boardman inquired about logistics and personnel associated with the 3M Catalyst. Mr. George responded that eight (8) senior executives from various parts of the world, with various backgrounds, worked collaboratively with staff from the General Manager's office on the project. He explained that together they completed an extensive review of DC Water's innovations development and commercialization process, which included stakeholder interviews and data review.

Mr. George went on to briefly discuss the specific recommendations delivered by 3M, which were: 1) to formalize DC Water's innovation process, 2) to operationalize DC



Water's marketing tools; and 3) for DC Water to implement a more efficient governance team structure.

- Innovation Process – 3M recommended a formalized innovation process to include gate approvals and established targets. It recommended a project management process that develops and enhances ideas, and translates those ideas into products and services that can be brought to market. The process should have clear and standard approvals.

*Questions:* Chairperson Boardman asked why 3M was consulted if the SIROC process is longstanding. Mr. George responded that DC Water lacked marketing orientation for which 3M has advanced knowledge and skill. Acting General Manager Brown added that 3M provided an external pair of eyes to understand the market and how to obtain the requisite resources to successfully market.

- Operationalize Marketing Tools – 3M recommended operationalizing marketing tools to better understand the market, customer, and market share opportunities. They provided tools and templates across the following areas: 1) Market Assessment; 2) Customer Definition; 3) Product Analysis; 4) Pricing Strategy; 5) Channel Strategy; and 6) Promotion & Communication Strategy.
- Governance Approach – 3M recommended DC Water implement a governance team that champions and empowers employees and drives results. This could include reducing the number of decision makers in each team, particularly at the higher levels, in order to streamline the decision making process and make the governance process more efficient.

*Questions:* Chairperson Boardman inquired about the difference between recommendations made by 3M and DC Water's current governance structure. Acting General Manager Brown answered that the recommendation is to modify current committee structures, particularly limiting the GM's committee size to two decision makers. Chairperson Boardman asked how many members are currently on GM's committee. Acting General Manager Brown answered that it includes all executives (8 – 12 people).

To conclude, Mr. George and Acting General Manager Brown discussed DC Water's implementation of its IP monetization program as a key revenue strategy to achieve DC Water's 20x20x20 Challenge. Acting General Manager Brown explained that the target is to obtain \$20 million in savings and \$20 million in new revenue by 2020.

There being no further business, Chairperson Boardman adjourned the meeting at 10:40 a.m.

**Follow-Up Items for July 2018 Governance Committee Meeting**

1. Korey Gray to provide a historical view of the DC Water Works! Program from its inception and an analysis of the program's employment numbers over time.
2. Alan Heymann to provide copies of press release and coverage.



**DISTRICT OF COLUMBIA  
WATER AND SEWER AUTHORITY**

**BOARD OF DIRECTORS**  
Human Resources and Labor Relations  
Committee  
May 9, 2018

**MEETING MINUTES**

**Committee Members Present**

Bradley Frome – Committee Chairman  
Ellen Boardman  
Anthony Giancola  
Lavinia Baxter  
Krystal Brumfield

**DC Water Staff Present**

Henderson Brown, Interim CEO &  
General Manager  
Meena Gowda, Acting General Counsel  
Mustaafa Dozier, Chief of Staff  
Linda R. Manley, Board Secretary

**Union Presidents Present**

Barry Carey, AFSCME 2091  
Jonathan Shanks, AFGE 872  
Calvert Wilson, AFGE 2553  
Michelle Hunter, NAGE R3-06

**1. Call to Order**

Chairman, Bradley Frome called the meeting to order at 11:04 a.m.

**2. Discussion on 20/20/20**

Michelle Hunter stated the Union Presidents have agreed to work with the Interim CEO and GM, Henderson Brown regarding the implementation of 20/20/20. Board member Ellen Boardman asked if the Union Presidents had a specific concern regarding the initiative. Mrs. Hunter asked for clarification on the second part of the initiative. Mr. Brown explained that the initiative encourages Union Presidents to work with the Authority to identify 20 million dollars in reoccurring savings and create 20 million dollars of new revenue by 2020. Mrs. Hunter indicated the Union Presidents agreed to look at various areas to identify potential savings. Barry Carey asked if the initiative would have an adverse effect on Labor in the future. Mr. Brown stated that Labor is always a part of the discussion regarding savings, however the savings would not impact labor.

The Union Presidents acknowledged Interim CEO and General Manager Henderson Brown, Chief of Staff Mustaafa Dozier, and Human Capital Management for working amicably to resolve many of their concerns and foster an environment conducive of positive results. Due to effective collaboration many of those items were removed from the proposed agenda in

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advance of the meeting. Ellen Boardman thanked the Union Presidents for their hard work and stated that is how things should be working between the unions and DC Water Management.

**3. New Facility at 125 O Street SE**

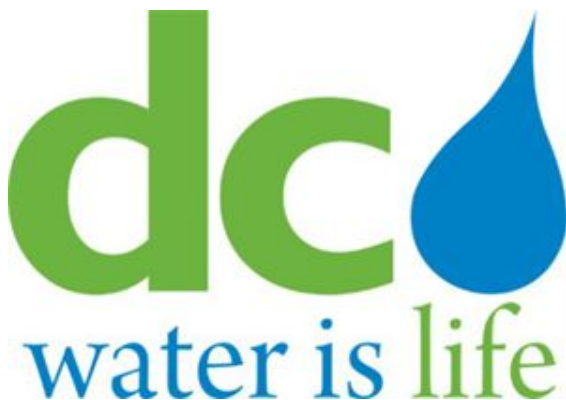
Mrs. Hunter stated Roger E. Brown Jr., Director Human Capital Management held a productive meeting with the Union Presidents to discuss the new facility at O Street and the expected changes. There were still some concerns of limited parking for personal and DC Water Vehicles. Mr. Carey expressed concerns that members of his union would be impacted when DC Water employees move to the new facility since parking is already an issue. Mr. Carey inquired as to whether DC Water spoke with the city about obtaining Canal Street as an additional resource for parking. Calvert Wilson stated he was concerned about the vacuum trucks not being stationed at the new facility and the ability to get pipes in and out in times of an emergency. Henderson Brown stated that there have been discussions with DDOT about retaining Canal Street for operational purposes. It was determined that the southern portion is available to DC Water currently, however the northern portion is open to the public. Mr. Brown explained that a traffic study must be conducted to determine if closing the street will impact the flow of traffic and that DC Water is also meeting with the city about obtaining the same permissions for 2<sup>nd</sup> Street near the new facility.

**4. Executive Session**

No executive session required

**5. Adjournment**

The meeting adjourned at 11:28 a.m.



**District of Columbia  
Water and Sewer Authority**

**Board of Directors**

**Environmental Quality and Operations  
Meeting**

*Thursday, May 17, 2018*

*9:00 a.m.*

**MEETING SUMMARY**

**Committee Members**

James Patteson, Chairperson  
Rev. Kendrick Curry  
David Franco  
Ivan Frishberg  
Howard Gibbs  
Anthony Giancola

**DC Water Staff Present**

Henderson Brown, Interim General Manager  
Linda R. Manley, Secretary to the Board  
Leonard Benson, Chief Engineer  
Gregory Hope, Associate General Counsel

**I. CALL TO ORDER**

Mr. Patteson called the meeting to order at 9:04 am.

Mr. Len Benson, Chief Engineer, DC Water requested that the scheduled Pump Station site visits be rescheduled from June to July. The Committee members agreed to the schedule change request.

**II. SOLAR PURCHASE AGREEMENT (PPA)**

Ms. Diala Dandach, Director of the Department of Wastewater Engineering, presented the proposed Solar Power Purchase Agreement at Blue Plains AWTP. Ms. Dandach explained that the interest in a Solar Power installation was validated during a site visit to Camden County Municipal Utility Authority in July 2012. A feasibility study for the implementation of Solar Power at the Blue Plains AWTP was completed in 2014. The feasibility study concluded that a Power Purchase Agreement (PPA) is the preferred financial contractual mechanism. Under the PPA, the solar power system is financed, designed, owned, operated and maintained by the solar power provider.

Ms. Dandach summarized the benefits of a PPA for DC Water as follows:

- A reduction of power costs without any capital outlay other than the procurement/management costs.
- The reduction of the power costs will last for 20 years, with an additional 5 year renewal term available.
- Takes advantage of the Federal Investment Tax Credit (FITC) and Solar Alternative Compliance Fee (SACF)
- Mitigates risk of fluctuating power costs over 20 years.

The feasibility study initiated a PPA procurement in 2015. Ms. Dandach explained that the 2015 procurement did not conclude with a successful PPA due to the high financial risk of not meeting the schedule set by the law. Neither the Provider, nor DC Water could mitigate this risk at the time. In December 2015, there was a change in the law, and the tax incentive was extended. The revised regulations do not require the solar power system to be in operation by 2016, rather that construction of the system is initiated by the end of 2019.

The new, i.e., current PPA procurement followed the schedule outlined below:

- Kickoff – April 2017
- Request for Quotation to 5 vendors – June 2017
- Request for Information – August 2017
- Request for Proposal – November 2017
- Received 2 proposals – February 2018

Ms. Dandach stated that following feedback from the vendors, the installation of solar panels above the basins was removed from the procurement due to structural and electrical complications. The solar panel systems will be installed on buildings roofs, parking lots, and open ground areas.

The Committee inquired if the installation of the solar power system at DC Water facilities other than the Blue Plains AWTP were considered. Ms. Dandach clarified that the scope of this project only covered Blue Plains AWTP. However, this did not preclude DC Water from initiating additional PPA procurements for other locations.

Ms. Dandach described the proposal scoring criteria as follows:

- Technical Contents (50%)
- Pricing (50%)
  - Three different pricing scenarios were evaluated:
    1. The Provider retains all Solar Renewable Energy Certificates (SREC)
    2. The Provider retains the SRECs for the first 5 years, then DC Water retains the SRECs for Year 6 to Year 20
    3. DC Water retains all SRECs

Per alternative number 3 scoring criterion, Ameresco was the apparent winner.

Ms. Dandach provided the following Solar PPA Project schedule:

- Environmental Quality and Sewerage Services (EQSS) Meeting – May 17, 2018
- Approval by DC Water Board of Directors – June 7, 2018
- Contract Execution and Notice to Proceed – Within 10 days of the Board approval
- Kick-Off Meeting – Within 10 days of the Board approval
- Substantial Construction Completion – June 2020

Ms. Dandach shared the following details on Ameresco's proposals:

- DC Water will receive approximately 5000 mega-watt hours (MWh)/year, based on about 4.5 MW (maximum) of Direct Current (DC) generated at Blue Plains AWTP.
- DC Water's unit power rate for this power, will drop from \$0.08/kWh to approximately \$0.02/kWh in the first year. The lower rate may potentially provide DC Water with \$300,000 in savings each year.

The Committee inquired on the capital costs to install the new roofs, when the existing roofs

have not necessarily reached their design life cycle. Ms. Dandach clarified that Ameresco has included the cost to replace three new roofs, and all other capital costs to install the solar power system as part of the PPA. The Committee inquired on whether the installation of the solar power system would prevent DC Water from future construction or expansion projects at Blue Plains AWTP. Ms. Dandach confirmed that the 25-year facility plan was reviewed before providing the vendor a list of potential installation locations. The Committee requested for an updated map displaying the solar power system installation. The Committee asked for clarification on the solar power systems' ownership status after the 20-year agreement term. Ms. Dandach explained as its cost that DC Water may elect to purchase the system at the future price, or request for the Provider to remove the system as part of the PPA.

The Committee inquired on the type of mitigation efforts DC Water employed to minimize uncontrollable circumstances and risks within the contract language. Ms. Dandach clarified that the risks of the installation, operation and maintenance of the solar power system is the Vendor's responsibility. Ms. Dandach ensured that key personnel from the DC Water General Counsel Office, Office of the CFO, and consultants having 'expert' credentials in PPAs, including risk mitigation and allocation of risks, provided expert advice concerning the PPA. The Committee requested for further information on the risk assessment of the installation of the solar power systems on the Agency's infrastructure and insurance prior to the scheduled vote at the June Board of Directors Meeting.

### **III. ACTION ITEMS**

#### **JOINT USE**

1. Contract No. 16-PR-DWT-13A – Urban Service Systems Corp, Solids Screening Facility Hauling.
2. Contract No. 16-PR-DWT-41A – Colonial Chemicals, Supply and Delivery of Methanol.
3. Contract No. 16-PR-DWT-41B – Mitsubishi International Corp, Supply and Delivery of Methanol.
4. Contract No. DCFA #495-WSA – Brown & Caldwell, Basic Ordering Agreement (BOA) – Infrastructure & Environmental Assessment
5. Contract No. 140100 - Mabury Point Solar LLC, Solar Power Purchase Agreement.

Mr. John Bosley, Chief Procurement Officer, DC Water presented joint use Action Item 1, Action Item 2, and Action Item 3. Mr. Len Benson, Chief Engineer, DC Water presented joint use Action Item 4, and Action Item 5.

The Committee recommended Action Item 1 through Action 4 to the full Board. Action Item 5 was approved on the condition of providing an addition information sheet on the Solar PPA to the Committee prior to the Board of Directors meeting. The Committee also requested that the Fact Sheet for Action Item 5 be revised to more clearly reflect the fact that the vendor will be responsible for all capital design and construction costs and DC Water will only be responsible to purchase power over 20-25 years.

#### **NON-JOINT USE**

1. Contract No. 16-PR-DMS-43 – Electric Motor & Contracting Co. (EMC), Repair and Rehabilitation of Various Process Assets.
2. Contract No. 170020 – Northeast Remsco, Lower Service 66" Steel Water Main

Mr. Bosley presented non-joint use Action Item 1 and Mr. Benson presented non-joint use Action Item 2.

The Committee recommended both non-joint use Action Items to the full Board.

#### **IV. CIP QUARTERLY UPDATE**

Mr. Paul Guttridge, Manager, Program Services, reported on the Fiscal Year (FY) 2018 2<sup>nd</sup> Quarter Capital Improvement Program (CIP), by exception. Mr. Guttridge stated that current projected CIP disbursements through the end of FY 2018, as \$30.1M or 7.6% above the baseline disbursement projection. The variances are from the Wastewater Treatment, Stormwater, Sanitary Sewer, and Water Service Areas.

The Committee inquired on the effect of the budget variance on DC Water's borrowing and bond sales. Mr. Guttridge deferred to the CFO, Mr. Matthew Brown, who explained that the recent bond issuance was adjusted to be earlier, and he will work with the Department of Engineering and Technical Services to mitigate the higher than expected disbursements from FY18 in FY19.

Following up on Mr. Patteson's request from the November 2017 meeting for a report focusing on Change Order rates and types, Mr. Guttridge briefly presented the findings. The cost of the construction related change orders executed by the Authority for contracts closed during the five-year period from 2013 through 2017 was \$38M or 4.5% of the total original value of the contracts of \$838M for this period. The change orders were broken down into the following types:

1. Change in scope
2. Differing site conditions
3. Errors and omissions
4. Administrative

The Committee agreed to Mr. Guttridge's suggestion to provide the Committee the change order report annually at the same time as the first quarter CIP report.

#### **V. AWTP STATUS UPDATES**

##### **1. BPAWTP Performance**

Mr. Aklile Tesfaye, Assistant General Manager for Wastewater Treatment reported on the performance of the Blue Plains Advanced Wastewater Treatment Plant (AWTP), by exception. Mr. Tesfaye stated that all performance parameters were excellent and all permit requirements were met.

#### **VI. EXECUTIVE SESSION**

None.

#### **VII. ADJOURNMENT**

Meeting adjourned at 10:08 am at which time the Committee left for a scheduled tour of the Blue Plains AWTP.

#### **Follow-up Items**



1. Chief Engineer, DC Water: Reschedule site visits with Committee members to Pump Stations for July 2018.
2. Director, Department of Wastewater Engineering, DC Water: Provide an updated map displaying the solar power system installation at Blue Plain AWTP.
3. Director, Department of Wastewater Engineering, DC Water: Provide an information sheet addressing the questions raised regarding the risk exposure to DC Water as it relates to uncontrollable circumstances. The information sheet will also include clarification on the insurance coverages for the provider and DC Water.
4. Director, Department of Wastewater Engineering, DC Water: Update the Fact Sheet for the proposed Solar Power Purchase Agreement to more clearly reflect that the vendor will be responsible for all capital design and construction costs and that DC Water will only be responsible to purchase power over 20-25 years.
5. Chief Engineer, DC Water: Brief the Committee in detail concerning the risk assessment tool, specifically concerning the criteria and scoring used for both likelihood of failure (LOF) and consequence of failure (COF).



## Path to Achieve Asset Management Site Visits: Blue Plains

**District of Columbia Water And Sewer Authority**

*Environmental Quality & Operations Committee Meeting*

*May 17, 2018*





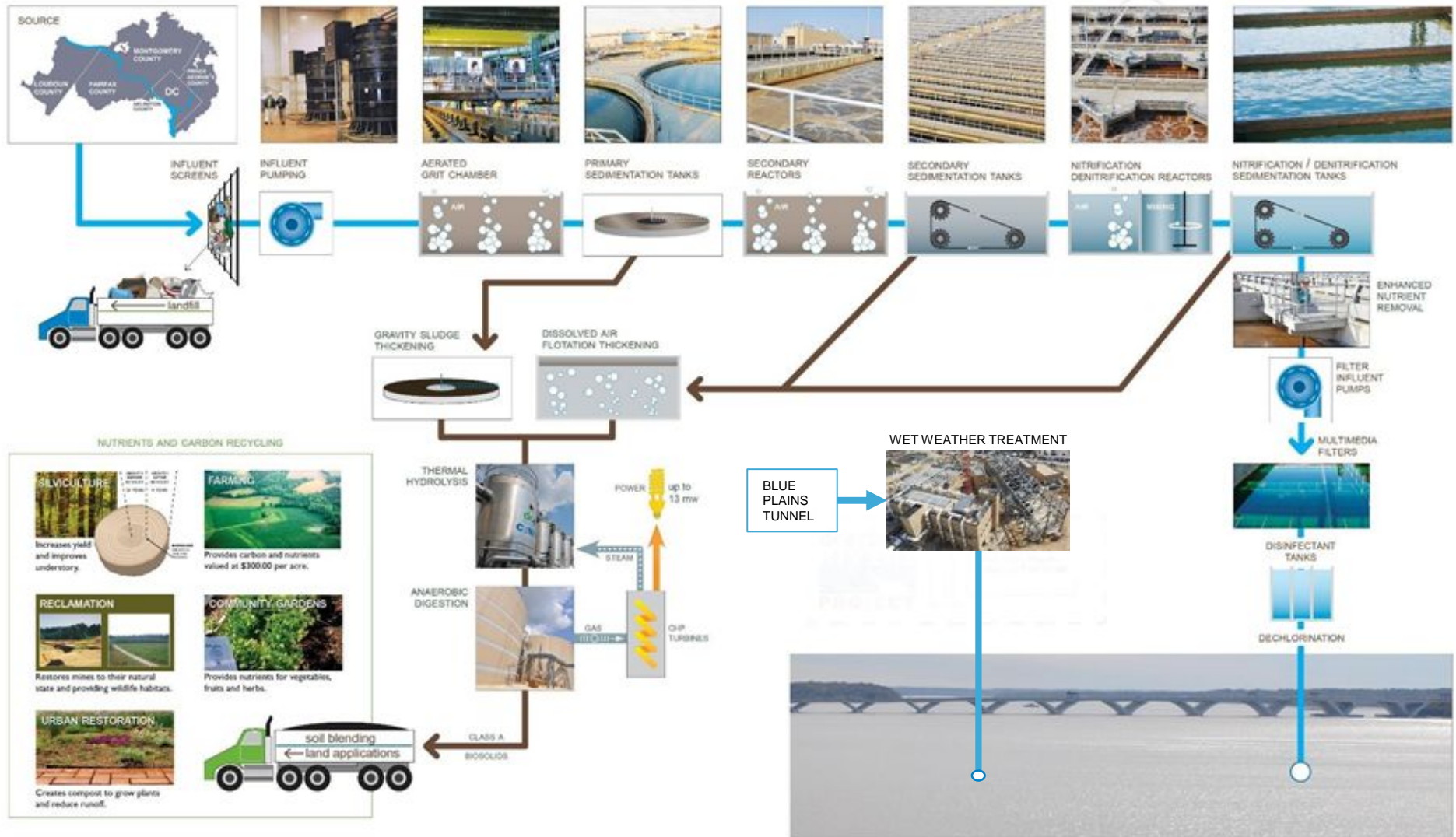
# Agenda

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1. Blue Plains AWTP process overview
2. Asset Management driven process risk assessment
3. High risk areas:
  - a. Process Service Water
  - b. Yard and gallery piping
  - c. Influent pumping stations and headworks
  - d. Primary treatment
  - e. Filtration
  - f. Gravity Thickening
4. Field walkthrough



# Blue Plains AWTP



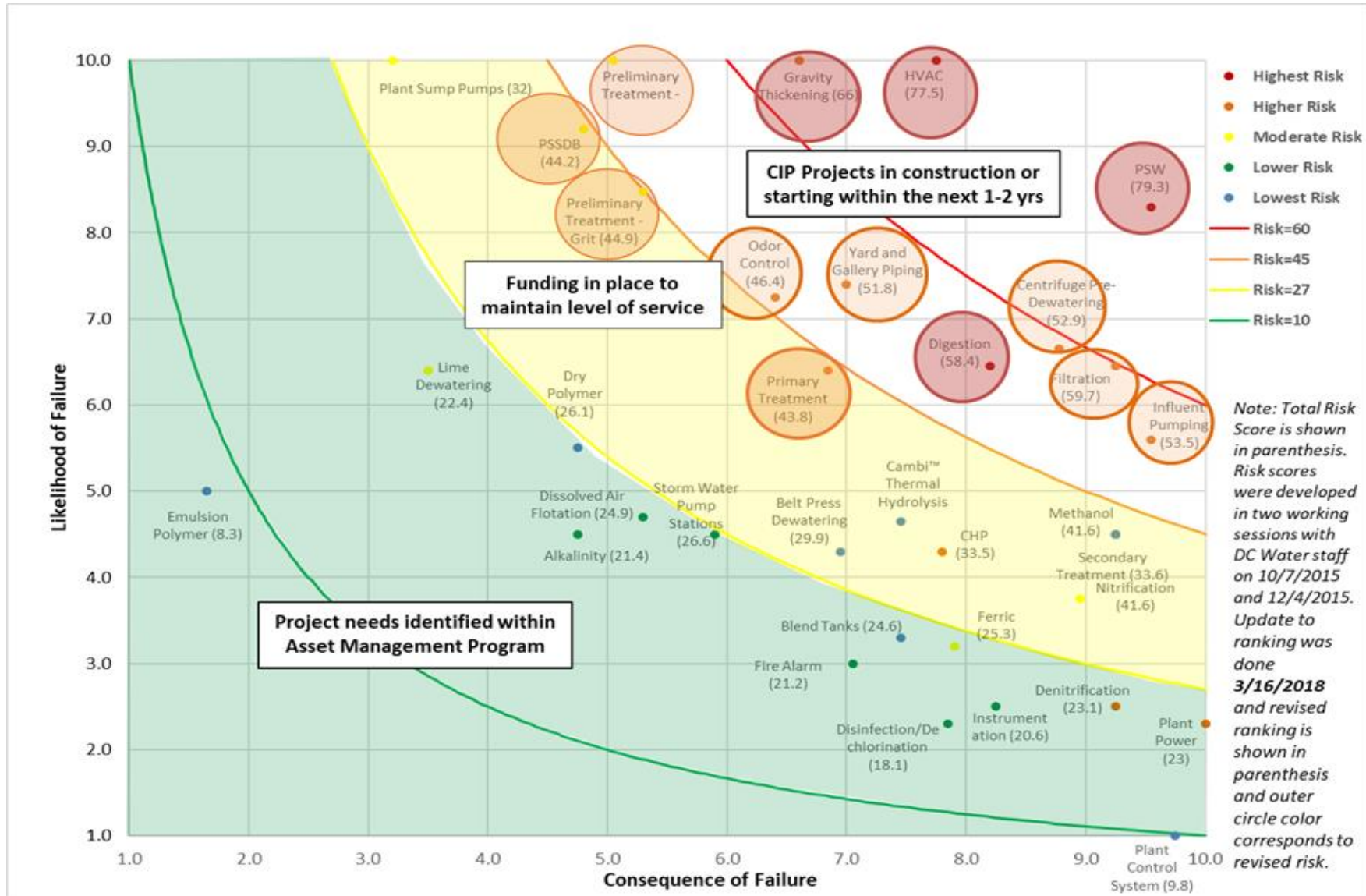
**NUTRIENTS AND CARBON RECYCLING**

- SILVICULTURE:** Increases yield and improves understorey.
- FARMING:** Provides carbon and nutrients valued at \$300.00 per acre.
- RECLAMATION:** Restores mines to their natural state and providing wildlife habitats.
- COMMUNITY GARDENS:** Provides nutrients for vegetables, fruits and herbs.
- URBAN RESTORATION:** Creates compost to grow plants and reduce runoff.

soil blending  
← land applications



# Blue Plains AWTP Top-Down Risk Ranking



# Process Service Water (PSW)



PSW Pipe – Severe Tuberculation



PSW Pipe – Corrosion With Holes



PSW Pump - Seal Failures



PSW Pump – Internal Corrosion

System of Pumps and Pipes that distribute reclaimed effluent for Plantwide process, equipment and maintenance needs

## High and Low Pressure Reclaimed Effluent Pumps

Pumps		
High Pressure	3 @ 350 hp EA (7 mgd)	
Low Pressure	3 @ 100 hp EA (12 mgd)	

## PSW Piping

6-inch diameter and smaller	1,100 LF
8-inch to 54-inch	44,400 LF

**Risk Level - HIGH**



## Process Service Water (PSW)

Asset	Process Service Water (PSW) Piping	High and Low Pressure Reclaimed Effluent Pumps
<b>Originally Built</b>	Started as River Water piping from 1930's, expanded and replaced under various projects since	Built under contracts for the Filtration and Disinfection Facility from late 1970's and early 1980's
<b>Value</b>	\$10M	\$20M includes the building, systems, and pumps
<b>Last Upgrade</b>	<ul style="list-style-type: none"> <li>• 1 - 25 yr: 1,835 LF</li> <li>• &gt; 25 yr: 14,000 LF</li> </ul>	Pumps replaced in 1999
<b>Next Upgrade</b>	<ul style="list-style-type: none"> <li>• Prioritized Segments scheduled for September 2019 &amp; 2021                             <ul style="list-style-type: none"> <li>◦ Total Budget: \$5M</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• IY03 High &amp; Low PSW Pumps Evaluation and Replacement – March 2020                             <ul style="list-style-type: none"> <li>◦ Total Budget: \$14.6M</li> </ul> </li> </ul>
<b>Need</b>	<ul style="list-style-type: none"> <li>• Portions of the PSW piping system have reached the expected life, and are failing</li> <li>• Emergency projects indicate systemic exterior and interior corrosion</li> <li>• Project extended over 5 years</li> <li>• Risk Consequence                             <ul style="list-style-type: none"> <li>◦ Increased costs due to emergency repairs</li> <li>◦ Interruption in service impacts treatment performance</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Increased pump capacity is needed now</li> <li>• PSW pumps have reached their useful life</li> <li>• Projects have been deferred 3 years</li> <li>• Risk Consequence                             <ul style="list-style-type: none"> <li>◦ Failure of existing assets that rely on PSW</li> <li>◦ Failure to meet increased demands with existing pumps</li> <li>◦ Interruption in service impacts treatment performance</li> </ul> </li> </ul>

# Yard and Gallery Piping



Primary Sludge Pipe Failure

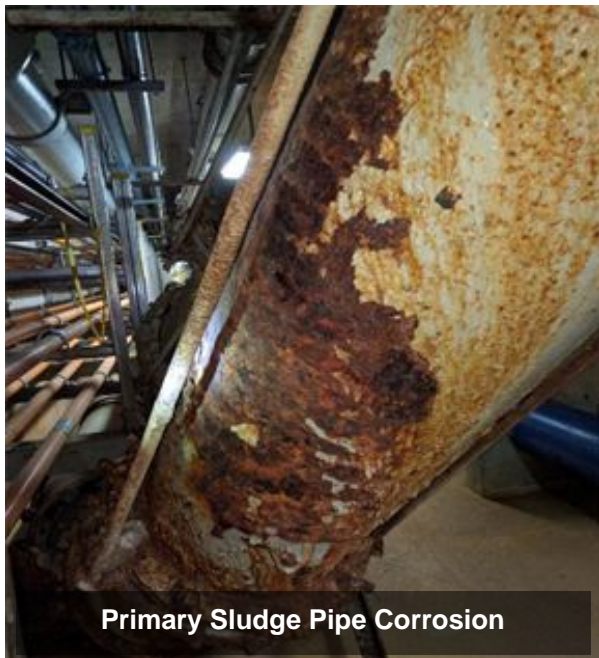


Centrifuge Piping Blockage due to Scale Buildup

Piping for transport of primary sludge and scum from West and East primary tanks to the Gravity Thickeners

**Primary Sludge and Scum Piping**

> 6-inch dia	40,000 LF
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Primary Sludge Pipe Corrosion



Primary Sludge Pipe Corrosion and Failure

**Risk Level - HIGH**





## Yard and Gallery Piping

<b>Asset</b>	<b>Primary Sludge and Scum Piping</b>
<b>Originally Built</b>	Originally built under contracts for the Primary Sedimentation tanks in 1935, 1946, and 1972
<b>Value</b>	\$9M
<b>Last Upgrade</b>	Miscellaneous repairs as needed
<b>Next Upgrade</b>	<ul style="list-style-type: none"> <li>• J205 Primary Treatment –Primary Sludge and Scum Piping Replacement - September 2019                             <ul style="list-style-type: none"> <li>◦ Total Budget: \$4.1M</li> </ul> </li> </ul>
<b>Need</b>	<ul style="list-style-type: none"> <li>• Piping has reached its expected life and is failing</li> <li>• Piping recently failed, leading to performance interruptions for the clarifiers served</li> <li>• Projects have been extended over 5 years</li> <li>• Risk Consequence –                             <ul style="list-style-type: none"> <li>◦ Failure of these lines will lead to interruption of the operation of East and West Primary Treatment Facilities</li> <li>◦ Failure to remove primary sludge and scum degrades performance and directly impacts downstream processes and the ability to meet NPDES permit</li> </ul> </li> </ul>



# Influent Pumping Stations and Headworks



RWWPS 1 1930s Original Motor



RWWPS 1 Worn out Pump



Influent Structures Corrosion



Grit Chamber Building 1 Concrete Corrosion



Grit Chamber 1, Effluent Sluice Gate Corrosion



Influent Structures Corrosion

Influent structures gather and equalize plant influent before RWWPS 1 & 2 wet wells

Headworks remove debris and grit, protecting and improving downstream equipment and performance

### Influent Structures

Brick Lined Sewer	1,500 SF
Box Conduit	68,000 SF
Access Slabs	82,000 lb

### RWWPS 1/Grit Chamber Building 1

Pumps	3 @ 400 hp (80mgd) 2 @ 300 hp (60 mgd) 1 @ 200 hp (40 mgd)
-------	--

Fine Bar Screens 4 total; 3 duty

Aerated Grit Tanks 4 total; 3 duty

### RWWPS 2/Grit Chamber Building 2

Pumps	4 @ 560 hp (100 mgd) 5 @ 500 hp (100 mgd)
-------	--

Fine Bar Screens 9 total

Aerated Grit Tanks 12 total; 10 duty

**Risk Level - HIGH**



# Influent Pumping Stations and Headworks

Asset	Influent Structures	RWWPS 1/Grit Chamber Building 1
<b>Originally Built</b>	Originally built under contracts for the West Primary Sedimentation tanks in 1935, and East Primary Sedimentation tanks in 1972	<ul style="list-style-type: none"> <li>• RWWPS 1 was originally built in the late 1930's</li> <li>• Grit Chamber Building 1 was constructed in the early 1980s</li> </ul>
<b>Value</b>	\$35M	\$42M
<b>Last Upgrade</b>	Original structures	<ul style="list-style-type: none"> <li>• Grit and Screenings Removal Upgrades, 2003</li> <li>• Last upgrades were complete in 2007</li> </ul>
<b>Next Upgrade</b>	<ul style="list-style-type: none"> <li>• BC00 Headworks Influent Structures - Feb 2023                             <ul style="list-style-type: none"> <li>◦ Total Budget: \$12M</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• I501 RWWPS 1 - 20 yr Rebuild - December 2025                             <ul style="list-style-type: none"> <li>◦ Total Budget: \$29M</li> </ul> </li> <li>• OZ01, Grit Chamber 1 &amp; 2, Upgrades – Underway                             <ul style="list-style-type: none"> <li>◦ Total Budget - \$3.2M</li> </ul> </li> </ul>
<b>Need</b>	<ul style="list-style-type: none"> <li>• Harsh conditions have led to severe corrosion</li> <li>• Structure has exceeded its expected life</li> <li>• Project has been deferred from September 2018 to July 2020</li> <li>• Risk Consequence                             <ul style="list-style-type: none"> <li>◦ Impacts system reliability</li> <li>◦ Structural failure reduces conveyance capacity and interrupts Plant Operations</li> <li>◦ Safety implications of structural failure</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Harsh conditions for operating equipment at the headworks merit frequent rehabilitation</li> <li>• Risk Consequence                             <ul style="list-style-type: none"> <li>◦ Failure of RWWPS 1 reduces capacity and ability to treat Plant Influent</li> <li>◦ Failure to meet NPDES permit</li> </ul> </li> </ul>



# Influent Pumping Stations and Headworks

<b>Asset</b>	<b>RWWPS 2/Grit Chamber Building 2</b>
<b>Originally Built</b>	Originally built in late 1960s through 1974
<b>Value</b>	\$70M
<b>Last Upgrade</b>	Complete overhaul of pumps 1E through pumps 5E and rehabilitation pumps 6E through pumps 9E in 2015
<b>Next Upgrade</b>	<ul style="list-style-type: none"> <li>• BV01, RWWPS No. 2 Upgrades - December 2019                             <ul style="list-style-type: none"> <li>◦ Total Budget - \$42M</li> </ul> </li> <li>• BP/BQ, Screens, Compactors, Conveyor – Underway                             <ul style="list-style-type: none"> <li>◦ Total Budget - \$1.5M</li> </ul> </li> <li>• OZ01, Grit Chamber 1 &amp; 2, Upgrades – Underway                             <ul style="list-style-type: none"> <li>◦ Total Budget - \$3.2M</li> </ul> </li> <li>• BQ02, Grit and Screens Upgrades – August 2020                             <ul style="list-style-type: none"> <li>◦ Total Budget - \$33.7M</li> </ul> </li> </ul>
<b>Need</b>	<ul style="list-style-type: none"> <li>• Harsh conditions for operating equipment at the headworks merit frequent rehabilitation</li> <li>• Projects have been deferred in the past                             <ul style="list-style-type: none"> <li>◦ BP01/BQ01 – February 2016 to September 2018</li> <li>◦ BQ02 – March 2018 to August 2020</li> </ul> </li> <li>• Risk Consequence                             <ul style="list-style-type: none"> <li>◦ Failure of RWWPS 2 reduces capacity and ability to treat Plant Influent</li> <li>◦ Failure to meet NPDES permit</li> </ul> </li> </ul>

# Primary Treatment



Primary Sed. Tanks Skimmer Blade Assemblies Need Replacement



Primary Head House HVAC Needs Rehab



Primary Sludge Pumps Need Rebuild

Primary Sedimentation Tanks separate readily settleable and floatable materials from the wastewater

Primary Sedimentation	
PST (circular)	36 Total
West PST	16
East PST	20
Sludge Pumps	36 Total
East	20 @ 40 hp
West	16 @ 15 hp
Scum Pumps	36 Total
East	20 @ 20 hp
West	16 @ 20 hp

**Risk Level - HIGH**



# Primary Treatment

Asset	West & East Primary Sedimentation Tanks	West & East Sludge Pumps
Originally Built	<ul style="list-style-type: none"> <li>West tanks originally built in 1935</li> <li>East tanks originally built in 1972</li> </ul>	Originally built under contracts for the West Primary Sedimentation tanks in 1935, and East in 1972
Value	\$145M	\$24M (headhouse and pumps)
Last Upgrade	<ul style="list-style-type: none"> <li>West Primary Sedimentation Tanks, 1980</li> <li>Mechanical, Electrical, HVAC and Instrumentation systems and equipment were upgraded in 2005</li> </ul>	Rehabilitated in 2011
Next Upgrade	<ul style="list-style-type: none"> <li>J203, 10yr - Upgrade Primary Treatment Mechanisms – September 2020                             <ul style="list-style-type: none"> <li>Total Budget: \$2M</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>J202, Primary Treatment - Pumps and Valving – September 2027                             <ul style="list-style-type: none"> <li>Total Budget: \$6M</li> </ul> </li> </ul>
Need	<ul style="list-style-type: none"> <li>Turntables at the end of expected life</li> <li>Risk Consequence                             <ul style="list-style-type: none"> <li>Failure to replace results in asset failure, reduced capacity, and disruption to Primary treatment and downstream processes</li> <li>Failure impacts NPDES permit</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Pumps are at the end of expected life</li> <li>Risk Consequence                             <ul style="list-style-type: none"> <li>Failure to replace results in disruption to Primary treatment</li> <li>Asset failure reduces pumping capacity resulting in sludge buildup and impacts to downstream processes</li> <li>Failure impacts NPDES permit</li> </ul> </li> </ul>



# Primary Treatment

<b>Asset</b>	<b>West &amp; East Scum Pumps</b>
<b>Originally Built</b>	Originally built for the West Primary Sedimentation tanks in 1935, and East in 1972
<b>Value</b>	\$24M (headhouse and pumps)
<b>Last Upgrade</b>	2015
<b>Next Upgrade</b>	<ul style="list-style-type: none"> <li>• BQ03 Primary Treatment Scum Pumping – March 2022                             <ul style="list-style-type: none"> <li>◦ Total Budget: \$4M</li> </ul> </li> </ul>
<b>Need</b>	<ul style="list-style-type: none"> <li>• Pumps have reached their expected life</li> <li>• Risk Consequence                             <ul style="list-style-type: none"> <li>◦ Failure to replace results in disruption to Primary treatment</li> <li>◦ Asset failure reduces pumping capacity resulting in scum buildup and impacts to downstream processes</li> <li>◦ Failure impacts NPDES permit</li> </ul> </li> </ul>

# Filtration



Filter Influent Pump Require Replacement



Pump Volute Corroded and Pitted



Pump Suction Bell Cavitation Damage



Filter Underdrain Failure

Filtration process removes the solids from nitrification effluent to enable the Plant to meet NPDES Permit

### Filter Influent Pumps

<b>FIPS</b>	12 Total
	10 @ 600 hp EA (93 mgd)
	2 @ 350 hp EA (50 mgd)

### Filters

<b>Filter Cells</b>	80; 2 cells/unit
<b>Filter Underdrains</b>	30 gpm/ft <sup>2</sup>

### Filter Backwash System

<b>Washwater Pumps</b>	8 @ 500 hp EA
<b>Air Scour System</b>	6 @ 400 hp EA
<b>Spent Washwater Pumps</b>	5 Total
	1 @ 200 hp
	4 @ 700 hp EA

**Risk Level - HIGH**





# Filtration

Asset	Filters and Backwash System	Filter Influent Pumps (FIPs)
<b>Originally Built</b>	Originally built in 1984 with 36 filters. 4 additional filters and a backwash control system was constructed in 1994.	
<b>Value</b>	\$300M includes building, systems, filters, backwash system and filter influent pumps	
<b>Last Upgrade</b>	2012	<ul style="list-style-type: none"> <li>• 1999</li> <li>• FIPs 11 and 12 were replaced in 2014</li> </ul>
<b>Next Upgrade</b>	<ul style="list-style-type: none"> <li>• IY03, Filter Repairs and Replacement – Underway                             <ul style="list-style-type: none"> <li>◦ Total Budget: \$2.3M</li> <li>◦ Funding for Repairs as needed</li> </ul> </li> <li>• IY02, Filter Repairs and Media Top Off – September 2018 -                             <ul style="list-style-type: none"> <li>◦ Total Budget: \$11.3M</li> </ul> </li> <li>• IY09, Filter Wells and Conduit Cleaning – September 2019                             <ul style="list-style-type: none"> <li>◦ Total Budget: \$1.5M</li> </ul> </li> <li>• IY06, 20 yr Effluent Filter Upgrades – February 2026                             <ul style="list-style-type: none"> <li>◦ Total Budget: \$107.7M</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• UC06, Upgrades to FIPS 1-10 – November 2018                             <ul style="list-style-type: none"> <li>◦ Total Budget: \$27M</li> </ul> </li> </ul>
<b>Need</b>	<ul style="list-style-type: none"> <li>• Equipment has failed multiple times</li> <li>• Project has been deferred from July 2020 to February 2026</li> <li>• Risk Consequence                             <ul style="list-style-type: none"> <li>◦ Failure of assets will reduce Plant capacity</li> <li>◦ Increased risk of violation of NPDES permit</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Existing pumps are corroded and damaged due to pump cavitation and prone to failure</li> <li>• Risk Consequence                             <ul style="list-style-type: none"> <li>◦ Failure to replace pumps will reduce Plant capacity</li> <li>◦ Increased risk of violation of NPDES permit</li> </ul> </li> </ul>

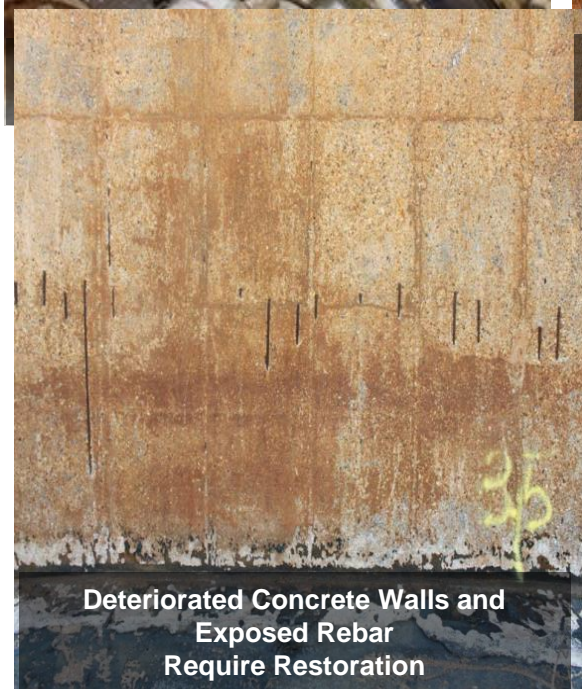


# Gravity Thickening

Gravity Thickening reduces the volume and increases the solids concentration in the sludge that requires further treatment for beneficial reuse



Rusted Weir Plate, Scum Baffle, and Embedded Connection Angle Require Replacement



Deteriorated Concrete Walls and Exposed Rebar Require Restoration



Unsettled Sludge Buildup on Surface Damaging Collector Mechanisms

Gravity Thickening	
Gravity Thickeners	10 Originally installed 6 Operable 4 Inoperable
Degritter Feed Pumps	6 @ 75 hp EA
GT Sludge Pumps	12 Total 8 @ 30 hp EA 4 @ 25 hp EA
GT Scum Pumps	8 @ 40 hp EA
Primary Sludge Screens	4 @ 1,200 gpm EA
Primary Sludge Degritting	8 Hydrocyclones originally installed 4 Classifiers originally installed

**Risk Level - HIGH**

**DCWATER.COM**



# Gravity Thickening

Asset	Gravity Thickeners	GT Sludge and Scum Pumps
<b>Originally Built</b>	<ul style="list-style-type: none"> <li>• GTs, sludge and scum pumps 1 through 4 were installed in 1958</li> <li>• GTs, sludge and scum pumps 5 and 6 were installed in 1963</li> <li>• GTs 7 through 10 and sludge and scum pumps were installed in 1989</li> </ul>	
<b>Value</b>	\$56M including the Gravity Thickener Facility and the Primary Sludge Screening and Degritting Building (PSSDB)	
<b>Last Upgrade</b>	GT 1 - 4 Collection equipment upgrade in 2002	<ul style="list-style-type: none"> <li>• GT 1 – 4 Sludge and Scum Pumps Upgrade in 2002</li> <li>• GT 7 – 10 Sludge Pumps Upgrade in 2011</li> <li>• GT 7 – 10 Scum Pumps Upgrade in 2005</li> </ul>
<b>Next Upgrade</b>	<ul style="list-style-type: none"> <li>• BX01, Gravity Thickener and PSSDB Upgrades Ph II – January 2019                             <ul style="list-style-type: none"> <li>◦ Total Budget: \$49.2M</li> </ul> </li> </ul>	
<b>Need</b>	<ul style="list-style-type: none"> <li>• No Primary Degritting System currently exists resulting in short-term and long term impacts to the downstream solids processing facilities</li> <li>• Project has been deferred and expanded from February 2013 to January 2019</li> <li>• Risk Consequence                             <ul style="list-style-type: none"> <li>◦ Failure to upgrade results in critical asset failure</li> <li>◦ Failure to meet current Plant capacity</li> <li>◦ Increasing downtime and corrective maintenance work orders for downstream processes</li> </ul> </li> </ul>	



## Summary

1. Most recent project upgrades are in good shape and require minimal investment
  - a. Nitrogen removal
  - b. Biosolids
  - c. Filtrate Treatment
2. Various process areas and equipment have exceeded their service life and require reinvestment
3. Higher risks areas need immediate attention
4. Moderate risk areas:
  - a. Some funding and mechanisms available to address levels service
  - b. Likelihood of failure will drive the risk up in the upcoming years leading to investment needs in the 5 -10 year time frame



**DISTRICT OF COLUMBIA  
WATER AND SEWER AUTHORITY**

**Board of Directors**

*Finance and Budget Committee*

*Thursday, May 24, 2018*

*11:00 a.m.*

**MEETING MINUTES**

**Committee Members (via conference call)**

Timothy Firestine, Committee Chairperson  
Krystal Brumfield  
David Franco  
Jed Ross

**DC Water Staff**

Henderson Brown, Interim CEO/General Manager  
Matthew T. Brown, Chief Financial Officer  
Meena Gowda, General Counsel, Acting  
Linda Manley, Board Secretary

**Other Presenters and Guests**

Charles Kiely, AGM, Customer Care & Operations  
Paul Guttridge, Manager, Program Services  
Tanya DeLeon, Manager, Risk, Finance and Budget  
Joe Underwood, Albert Risk Management

**Call to Order**

Chairperson Timothy Firestine called the meeting to order at 11:00 a.m.

**New CIS System Update**

Mr. Charles Kiely, Assistant General Manager of Customer Care and Operations, reported briefly on the status of the lag in revenues due to the implementation of the new Customer Information System (eCIS). A full CIS update will be provided to the Committee in June. The revenue variance reported this month is a result of delays in billing, though customer billings of \$27 million were made during the first thirteen cycles in May, including prior period adjustments. He also informed that consumption through part of the month of May is running at almost 430,000 ccf which is approximately 1000 ccf's above what is reported in FY 2017, with seven cycles remaining in May. Mr. Kiely explained that the goal is to have these billing backlogs cleared up by May 31, and that will be reflected in the July financial report which captures revenue receipts. Mr. Mathew Brown, CFO, indicated that the revenue projections that would be provided later in the meeting were conservative estimates due to this billing backlog. Mr. Firestine suggested that the April and future financial reports should be updated to provide more details regarding delays in billing, and the expectation of being caught up by the end of May/June.

**April 2018 Financial Report**

Mr. Matthew Brown, CFO, reported that there was a public hearing by the Retail Rates Committee held on May 9<sup>th</sup> to discuss rates, and there was a roundtable discussion with the District of Columbia

Council on May 22<sup>nd</sup>. At the roundtable on the 22<sup>nd</sup>, participants included members of the clergy and a majority of the discussion dealt with the impact of the Clean Rivers Impervious Area Charge (CRIAC) on non-profits. Mr. Brown further reported that staff have started preparing for the FY 2020 budget season and anticipate that the new CEO and General Manager, who will start working within the next few weeks, would be involved in the FY 2020 budget process.

Next, CFO Brown stated that the total operating expenditures are in line with budgetary expectations while revenues and capital disbursements are not on track with budget. Total operating revenues are \$349.8 million, or 56.4 percent of budget, operating expenses at \$294.4 million, or 52.4 percent of budget and capital disbursement at \$325.8 million, or 72.4% of budget in the respective categories.

Mr. Brown reported that lag in revenues, mainly in the residential, commercial and multi-family category, was due to delayed billing in the new CIS system as explained by Mr. Kiely. He stated that the lag in receipts from the DC Government and DC Housing Authority are for outstanding bills as a result of timing of payments, which have subsequently been received in May and would be reflected in next month's report. He noted that management anticipates that overall revenues would be in a favorable position based on Mr. Kiely's report and would be reflected in the June Financial report to the Committee.

CFO Brown reported that operating expenditures are favorable as a result of underspending in various operations and maintenance (O&M) categories. He reiterated that the higher than budgeted spending in personnel services is a result of the Board-ratified union labor contract, and with other salary adjustments and overtime costs. He further informed that of the 1250 authorized positions, 1154 positions are filled. The underspending in contractual services is across the Authority and is not associated with any one contract. Water purchases is lower than budget primarily due to reduced consumption, and that is expected to increase during the summer months when water usage is higher. Supplies and chemicals are slightly higher than budget due to higher than anticipated costs for major chemicals including methanol and sodium bisulfite. He also noted that utilities are slightly lower, due to the onsite generation of energy and because the budget for energy was at a slightly higher rate than actual experience. In addition, he mentioned that debt service costs are in line with the bond issuance schedule and the Cash Financed Capital Improvements (CFCI) has not yet been applied, and is anticipated to be utilized by year-end.

With regards to Capital Disbursements, Mr. Brown reported that the Authority is at \$18.7 million or 6.1 percent above the planned disbursements through this period and that detailed information on major projects would be discussed as part of the quarterly CIP report. He further noted that the Board-approved revised capital budget reflects an increase of \$63 million over the approved budget.

### **FY 2018 Year-End Projections**

Mr. Brown provided an overview of the preliminary FY 2018 year-end projections and explained that the approach management took this year was to provide both optimistic and less optimistic forecasts. Updated revenue forecasts would be provided as cash from the delayed billing is received. The current projected revenue ranges from the optimistic of \$5.1 million favorable to the budget to the less optimistic of \$4.8 million unfavorable to the budget, with the major difference between the forecasts in the residential, commercial and multi-family customer category. He explained that with subsequent

information and analysis by both the Customer Service and Finance teams after the completion of the monthly report, at this time we believe that revenues will be closer to the optimistic value of \$5.1 million based on the updated forecasts.

The overall operating expenditure projections range from the high of \$561.9 million to the low of \$556.0 million, compared to the approved budget of \$561.9 million. Major areas of current budget variances are consistent with the year-to-date financial performance with overspending in personnel services (\$9.9 million) and chemicals & supplies (\$1.7 million), offset by projected underspending in water purchases (\$0.6 million), contractual services (\$3.7 million) and utilities (\$2.0 million). He reported that the overall capital disbursements budget projection is \$26.8 million or six percent above the revised budget of \$450 million. Detailed review of the major drivers of the capital projects is discussed as part of the quarterly CIP update.

Next, Mr. Brown explained that the projected net cash position ranges from the optimistic level of \$22.1 million to the less optimistic level of \$6.1 million which is mainly dependent on the range of the revenue forecasts. He highlighted that the financial plan had assumed county refund to IMA customers of \$7 million based on prior years' budget performance. The current forecasts include projected refund from IMA customers for the MJUF billing of \$6.2 million and Operating Settlement of \$2.8 million based on the FY 2017 actual financial results. He explained that these are preliminary estimates pending further review and analysis of the IMA indirect costs for their proportionate contributions to the projected capital overspending of \$26.8 million. The less optimistic level of \$6.1 million would require management to draw-down bond proceeds more quickly than anticipated, which would result in earlier borrowing, and then applying the \$6.1 million in pay-go financing to reduce the overall capital expenditure. He plans to provide further updates on the cash position and management recommendation in June. Mr. Franco asked if the increase in Capital Improvement Program (CIP) is related to spending or a shift in the allocated period of the disbursements. Mr. Brown responded that the increase is a result of both and he further explained that when a contract is issued, there is uncertainty in the spending period, change orders, cost increase coupled with expenditures not forecasted correctly. However, he explained that for the past few years actual expenditures had exceeded the budget.

Mr. Franco further inquired about possible Pepco/Exelon credits related to tax law changes. In response, Mr. Brown indicated that a consultant is tracking the data and that there is estimated revenue anticipated of \$300,000. One-third of this amount is expected to be a one-time payment of about \$100,000, while the remaining \$200,000 will be annual recurring credit that DC Water anticipates receiving.

### **Capital Improvement Program Quarterly Update**

Mr. Paul Guttridge, Manager, Program Services, Department of Engineering & Technical Services (DETS) presented an overview of the FY 2018 Second Quarter CIP report, six month look-ahead of major contracts and key performance indicators (KPIs). The capital projects spending is projected to be \$428.4 million or 7.6 percent above the baseline budget of \$398.3 million at the end of the fiscal year. Of the six service areas, Wastewater Treatment, Sanitary Sewer and Water Service areas are seeing the largest variances. The above baseline projection for Wastewater Treatment is \$14.4 million, a result of the Plant wide Projects (expedited equipment purchases) and the ENR Facilities program

(early retention release accounted for in FY 2017 but disbursed in FY 2018). Followed by Sanitary Sewer at \$10.4 million in the Sanitary Collection Sewers program (mainly due to work progressing faster than anticipated). Finally, Water Service is \$5.2 million above budget in the Water Storage Facilities Program (St Elizabeth Water Tank being greater than anticipated in the baseline mainly due to incorrect entry in the database, subsequently corrected). Mr. Guttridge further noted that 17 KPIs were completed within the 90 days threshold with 10 of the KPIs for the Clean Rivers consent decree met in March 2018 and that future KPIs are anticipated to be completed on time.

Mr. Brown reported that Capital Equipment budget is about \$40 million, with year to date actuals of approximately \$21 million, and year-end projection of \$38.4 million or 3.7 percent below the revised budget. He further explained that the capital equipment budget includes the general reserves of \$4.7 million for unanticipated capital equipment needs, and Headquarters Building reserves of \$3.8 million for security and technological equipment items that were not factored in the construction budget of approximately \$76 million for the building.

Mr. Brown acknowledged the entire team of the Office of the Chief Financial Officer (OCFO) for all the outstanding work that they do, including this financial report and midyear projections.

#### **Update on Pathway to Asset Management**

Mr. Brown provided an update on the asset management pathway work, specifically with the proposed entities that DC Water would benchmark itself against. He noted that research was done and the criteria for selected utilities included the type of consent decree, population size, services provided, type of utilities and readily available financial information. The selected utilities are Boston Water & Sewer Authority, Northeast Ohio Regional Sewer District, San Antonio Water Systems, Washington Suburban Sanitary Commission, and New York City Water Development. Mr. Brown reviewed the financial metrics including operating revenues, operating expenditures, total debt services cost, debt services as percentage of the total operating budget, debt levels, CIP Period and amount, as well as bond rating for selected utilities in comparison with DC Water. He noted that the preliminary review shows similarities with DC Water's financial metrics, with DC Water having the longest CIP Period of 10 years. Mr. Firestine inquired if San Antonio was a public or private utility, which was later confirmed that they are a public utility. Mr. Brown also highlighted other utilities, the Cities of Atlanta, Denver, Milwaukee and Philadelphia, with possible case studies on alternative revenues and customer affordability programs. He announced that the summer intern, Aniya Childs, an accounting major and a rising senior at North Carolina A&T University, would be assisting staff with the benchmarking project including a deeper dive to understand how peer utilities finance their capital program, use of pay-go financing and financial plan analysis of various capital program scenarios and related retail impacts.

#### **Insurance Renewal Update**

Ms. Tanya DeLeon, Manager, Risk in the Finance, Accounting and Budget department provided an overview of the Authority's Insurance Renewal process. She introduced the independent consultant, Mr. Joe Underwood of Albert Risk Management, and reported that the Authority's property, excess liability, workers' compensation, public officials' liability, crime, fiduciary liability and cyber insurance policies are up for renewal on July 1.



Ms. DeLeon explained that the fact sheet is to allow Management to procure insurance coverage on behalf of DC Water using the brokerage services of Alliant Insurance Services and AON Risk Solutions. She further stated that the insurance brokers were qualified in 2017, and that a full re-marketing of the Authority's program is underway for the 2018-2019 renewal period, with the market being stable at this point.

Next, Ms. DeLeon noted that premium increases are primarily as a result of increases in property values for recently completed capital projects, estimated revenues and workers' compensation claims. Competitive quotes are due on June 4 and management anticipates to broker the insurance services by June 29 in order to meet the renewal date of July 1. The request is for Board approval for the renewal coverage costs not to exceed \$3.2 million.

Mr. Firestine asked if these three insurance carriers compete against each other and why we are qualifying three brokers instead of two. Ms. DeLeon responded that each broker is paid a brokerage fee only if they are providing a bid in an area and is not commission based, but rather that it is a fee for service contract. Mr. Jed Ross inquired about the market allocation process and how each broker is requested to provide their relationships with the insurance carriers. Ms. DeLeon explained the market allocation process where we request for the markets or areas each of the brokers would like us to approach in order to eliminate potential conflicts. All three brokers could be paid for separate coverages and Management follows the procurement process to ensure we choose the best value for the Authority.

In response to Mr. Firestine's question, Ms. DeLeon reported that the new policy does not include the new Headquarters Building. Mr. Firestine also wanted to know if we have a builder's risk and whether the new proposal included coverage against terrorism, to which Ms. DeLeon responded in the affirmative. She will provide a copy of the insurance policy to all Board members. The Committee agreed to move forward with the annual property and casualty insurance renewals for Board approval.

### **Adjournment**

Hearing no further business, Chairperson Firestine adjourned the meeting at 12:07 p.m.

### **Follow-up Items**

1. Provide a complete update on the status of the eCIS system **(Mr. Firestine)**
2. Provide the updated financial forecast, projected cash position and management recommendation **(Mr. Firestine)**
3. Provide copy of the risk management insurance policy **(Mr. Firestine)**



**CEO and GENERAL MANAGER'S REPORT**

Henderson J. Brown, IV – June 2018

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**Color Key**

<b>Red</b>	<b>Did not meet Target</b>
<b>Yellow</b>	<b>Missed Target but within acceptable range</b>
<b>Green</b>	<b>Met/Exceeded Target</b>
<b>Gray</b>	<b>Budget/Target Value</b>
<b>&lt;transparent&gt;</b>	<b>Green/Yellow/Red based on comparison</b>

## Message from the CEO/GM

### Interim CEO/GM Transition

It has been my pleasure to serve as the Interim Chief Executive Officer and General Manager of DC Water since last fall. I want to thank the Board of Directors for allowing me to have the once in a career opportunity to lead this tremendous organization, celebrate our successes and help resolve the looming challenges presented by aging infrastructure and rate affordability. Today, we find ourselves at a pivotal moment in our history. Resolving our current challenges will require innovative thinking and new solutions.

During my interim role, I gained great admiration for the team members who work every day to meet our customers' demands. I witnessed firsthand the tremendous commitment and competency of our workforce. Our diverse staff are the reason why DC Water is recognized as a national leader. I am grateful for the team's support during the transitional period.

So far in FY18, the DC Water team have achieved many significant milestones. In March, the Anacostia River Project was placed into operation. This achievement is the culmination of almost two decades of planning, design, and construction, and an investment of over \$1.4 billion by DC Water customers. We also worked to address customer affordability issues by collaborating with the Mayor and the Council to develop plans to lessen hardships encountered by low-income customers and other segments of our community. We launched the 20x20x20 Challenge to promote initiatives that will drive efficiency and identify new sources of revenue. Our efforts to market Bloom continue to grow, having reached the significant milestone of selling out a full day's production of biosolids. We hope that this single day event will become the norm. Bagged product is now available in stores. Equally significant, communications with our union leadership continues to improve. During the past few weeks, we have collaborated on various issues, including the 20x20x20 challenge

The FY18 Town Hall season (March through April) was a real opportunity to engage with customers in each of the eight wards of the City. Conversations with customers confirmed that although we do many things well, there are also many opportunities for improvement. We learned, in real time, face to face, the real life impacts of "consent decree compliance." The Town Hall meetings are the manifestation of our commitment to transparency with our customers. Each night, at least 50 of our team members demonstrated that commitment by representing the several operating departments at tables, managing audio visual equipment, interfacing with our venue hosts, preparing local updates for each presentation, providing security, setting up and breaking down the venue, and coordinating with councilmembers. I salute everyone who played a part in making this Town Hall season a success.

That said, we all know, we are only as good as our last success. Our focus must be forward looking because the future presents an ever renewing opportunity for improvement. On that theme, I look forward to the opportunity to work closely with the new General Manager and CEO, David Gadis. Over the past few weeks, I have had the opportunity to meet and have multiple conversations with David. You will like him as a person and will appreciate his energy. I am confident his passion for excellence and experience with municipal and corporate environments will be an asset to DC Water now and well into the future. He is the right person to lead our continued evolution toward being the preferred, elite enterprise of our industry. Please welcome him warmly.

## Message from the CEO/GM

### **DC Council Committee on the Environment and Transportation CRIAC Roundtable**

Following a demonstration by members of the faith community at a recent Council budget hearing, the Council members decided to hold a roundtable on the Clean Rivers Impervious Area Charge (CRIAC) and possible solutions for lessening the impact of that charge on customers. DC Water and the Mayor's budget office testified, along with approximately 25 District residents, most of whom represented religious organizations. The roundtable provided an opportunity to review the factors that drive spending on Clean Rivers Program and to explore the options for providing discounts to customers – either by providing relief to one or more class of customers or by providing across the board relief. Matt Brown and I provided testimony about the Clean Rivers Program, realistic funding options and the Administration's plan to create a hardship mitigation fund. The plan calls for the District to contribute \$6 million and for DC Water to allocate \$6 million. Conversations continue between the faith based community and the Mayor and Council about how the program will be structured. Benefits of the hardship fund may be divided between non-profits and residential customers in proportions yet to be determined. The Board, under the able leadership of Chairperson Wells, has committed to work closely with the Mayor and District Council on proposed solutions.

### **Public Hearing on Proposed Retail Rates, Fees & Charges for FY 2019/20**

On May 9, 2018, the DC Water Board held its public hearing on proposed retail rates, fees and charges for Fiscal Years 2019 and 2020. These next two years anticipate an overall rate increase of 5.9 percent and 5.7 percent, respectively. The Board has approved the FY 2019 operating budget (\$582.8 million). For the average household customer, water bills in the next fiscal year will increase by \$6.02 from \$102.30 a month to \$108.32 a month. CRIAC charges will decrease by \$2.18 in Fiscal Year 2019 and increase by \$2.58 in Fiscal Year 2020. During the public hearing, the DC Water Board heard from various public witnesses. As of this writing the hearing record remains open. We expect that the Retail Rates Committee will consider the testimony given and evidence collected during the hearing and make a recommendation to the full board before the August recess.

### **FY 2020 Budget Kick-off and 20/20/20 Challenge**

Management will kick off its FY 2020 budget planning process this spring, with a renewed focus on affordable rates and maintaining our commitments to renewing aging infrastructure. The FY 2020 budget planning process presents an opportunity for us to work as one team to foster enhanced stewardship of our resources. Concurrent with our budget planning process, we have kicked off an ambitious plan, the 20x20x20 challenge, a strategic effort which seeks to identify \$20 million in savings and \$20 million in non-rate payer revenue by FY 2020. By integrating these processes, we are actively identifying efficiency measures and recurring cost savings as evidence of our sustained effort to help stem rate increases. We will also leverage ongoing activities including the planned update of our strategic plan this year to drive efficiency improvements and to secure new revenue sources.

### **DEMON® in Chile**

DC Water is currently implementing the world's largest DEMON system at the Blue Plains AWTP. The DEMON system is a biological process that removes nitrogen from wastewater in an environmentally friendly way, by converting ammonia to nitrogen gas. Nitrogen can be harmful when discharged to rivers because it promotes algae growth that can deplete oxygen that fish and other aquatic life need to live. The successful implementation of the DEMON technology at Blue Plains is also projected to save

## Message from the CEO/GM

significant operating costs by reducing energy demand. The University of Innsbruck originally developed this technology and DC Water's research further enhanced this process. In 2016, the University of Innsbruck granted to DC Water a global license to use the trademark DEMON. This innovative technology has already been implemented in 70 wastewater treatment plants around the world. Now, the improved technology is jointly marketed by DC Water and the University of Innsbruck.

On May 14, 2018, DC Water signed a contract with Suez Biofactoria Andina Spa to implement the DEMON technology at La Farfana, located in Maipu, Chile, and Mapacho-Trebel located in Padre Hurtado, Chile. DC Water has agreed to work with Suez to optimize the performance of the DEMON technology for the Chile Projects. DC Water's services include: supplying sludge/Anammox seed; performing bench scale pilot inhibition tests; commissioning and start-up assistance; training; and inspection services. DC Water also grants Suez a License to use DC Water's intellectual property, Know-How and Good Will. The agreement with Suez Biofactoria Andina Spa may be the first among many. I would like to take a moment to recognize the hard work of Biju George, Sudhir Murthy, Tera Fong, Gregory Hope and their teams and the IP support from Blank Rome in bringing us to this juncture.

### **Women of Water**

In keeping with its mission to provide professional development opportunities for DC Water's female workforce, Women of Water (WOW) held its third annual Speed Mentoring event on Wednesday, May 23, 2018 at the Bryant Street Auditorium. Speed mentoring is fast-paced one-on-one meetings between experienced mentors and "hungry for information/inspiration" mentees. The three- to five- minute encounters allowed 35 mentees to interact with about 30 DC Water execs and managers for nearly two hours. Conversations included exchanges of insights and providing guidance to the mentees based on professional and personal experiences.

This year's event included Women of Worth (WoW), a group of female students from the University of the District of Columbia whose aim is to encourage the empowerment and autonomy of women socially, economically, politically, and spiritually.

### **EMAP Accreditation**

In April, DC Water was awarded conditional Emergency Management Accreditation. As part of the conditional accreditation, the Authority has until January 2019 to provide additional materials that will support the required 64 standards. Follow-up meetings with EMAP staff have already been scheduled throughout the next seven months to continue our efforts in being the first municipal utility to receive full EMAP accreditation. The Office of Emergency Management staff along with many other programs within DC Water have worked hard to make this accreditation a reality and are pushing through the last few steps to the finish line. In addition, an after-action review and report of the accreditation efforts is being conducted to facilitate lessons learned and to create a plan moving forward which will support re-certification needs. DC Water also has its ISO22301 BCMS certification.

## Message from the CEO/GM

### Bloom Sales

	04/2018	YTD
Tons diverted (calculated into Fresh)	2,998	5474.03
Cost of tons (\$45/ wet ton)	\$134,928.00	\$246,331.35
Cost Savings to DC Water	\$97,149.00	\$166,474.86
Revenue to Blue Drop	\$10,710.60	\$26,179.74
Marketing cost \$5/ton	\$14,992.00	\$27,370.15
Hauling costs	\$22,787.00	\$52,486.34
Bloom Cost to DC Water	\$37,779.00	\$79,856.49

### External Affairs

#### *Government Affairs*

- It was a very busy month of activity for the Government Relations team.
- All month we assisted with the Town Hall meetings, both with the involvement of Council members and staff and other community leaders. GR also helped work with the GM at the events and attended all 8 town halls to help and hear directly from customers.
- GR also worked with council member White on concerns he had about an affordable housing project being built in his ward, along with working with his staff to provide a briefing on the DC Water Works program.
- We spent a lot of time working with Council member Cheh to respond to possible budget solutions to IAC pain and have been in touch with other council offices too.
- GR worked with Rep. Norton and her staff on issues surrounding the Washington Aqueduct and helped to make sure we held a meeting with her and the GM to discuss same – and brainstorm after the meeting for ways to clear the path.
- GR also visited DC public school students at Banneker HS who were studying tap water treatment and invited them to join DC Water to learn more about the issue.
- As always, we worked to disseminate information about the Council budget vote and deliberations to our staff at DC Water. We have been working on follow up from the budget meeting that was interrupted by local clergy upset about their water bills.

#### *Drinking Water Marketing and Communications*

- DC Water joined utilities and stakeholders nationwide to celebrate Drinking Water Week, May 6-12, the theme of which was “Protect the Source,” which has sparked a dialogue about the importance of protecting our source water systems, premise plumbing, and public health. External Affairs staff published and promoted blog posts titled “Protecting the Potomac” and “Protecting the Tap.” We also authored articles focused on lead leaching and steps to mitigate lead risk, both in our customer newsletter “What’s On Tap” and in the Healthy Housing

## Message from the CEO/GM

Newsletter, a publication targeting public and private sector stakeholders spearheaded by the Interagency Working Group for Healthy Housing.

- EA staff hosted an outreach booth in Dupont for commuters to kick off the week and provided free reusable water bottles, refreshing tap, trivia, water taste test, and extensive lead education. DC Water had a presence at the Capitol Hill Bike to School Day event and hosted a Poetry and Poster Contest at local schools to connect with the community and to celebrate our drinking water.
- May was the designated month for National Building Safety and also National Infrastructure Week. External Affairs staff partnered with the Department of Consumer and Regulatory Affairs to film a segment showcasing the Bryant Street Pumping Station and discussing the Authority-wide efforts to protect the public—from drinking water treatment and distribution, to construction projects.
- To bolster lead communication efforts, External Affairs staff are taking the lead to revise the customer portal to allow customers to better navigate to and access service line information and lead test kit results. EA staff are also revising the Welcome Letter that new accounts receive to include steps for customers to access service line information, and are planning a Welcome Packet with publications to educate customers about lead, and steps to protect health and water quality. External Affairs staff are also collaborating with District agencies to produce outreach materials for District pediatricians to distribute to new and expecting parents with information to prevent lead exposure.
- DC Water, The National Park Service, conservation associations (i.e. Anacostia Watershed Society), and other stakeholders are promoting the Year of the Anacostia (YOTA). EA staff have participated in several calls and meetings to assist with promotional efforts that include advertising YOTA. EA staff promoted the DEA Drug Take Back Event by tying the proper disposal of medications to efforts to improve the health of the Anacostia River.
- DC Water continues to have a strong presence in regional workgroups. External Affairs staff co-chair both the Metropolitan Washington Council of Government's Community Engagement Campaign, and the Potomac River Basin Drinking Water Source Protection Partnership's Reaching Out Workgroup. The former hosted the "Wonders of Water" event, a day of interactive learning for local Girl Scouts. The latter held its quarterly meeting and discussed plans to produce an exercise simulating a spill on the Potomac.

### *Customer Newsletter*

The May newsletter included a cover story on the opening of the lower portion on the Anacostia River Tunnel, a GM message on DC Water's participation in the Infrastructure Academy, information on the annual chlorine switch, a call to not tamper with fire hydrants and a PSA message announcing the 10th Annual DC Housing Expo.

### *Media Relations*

OEA staff spent the better part of a day at the Potomac Pumping Station when a dead man was found in our sewer pipes and this discovery prompted extensive media interest. We also worked with reporters who covered the clergy protest at city hall during the budget vote.

### *Press Releases*

- May 4: From River to Tap: Celebrating Our Drinking Water



## Message from the CEO/GM

- May 3: DC Water Board of Directors Selects New CEO and General Manager
- April 26: Safely Discard Medications During Drug Take Back Event
- April 18: DC Water issues \$300 million in bonds for capital projects, backed by strong credit ratings
- April 16: Overnight Storm First Major Test of DC Water's New Anacostia River Tunnel

### *Media Coverage*

- [NW apartments filled with feces after sewage backup. Tenants want faster response.](#)  
(WUSA-9 / May 13, 2018)
- [DC Water Customers Want Government to Pay Its Share of Clean Rivers Fee](#)  
(WRC-4 / May 10, 2018)
- [Can Green Infrastructure Save America's Capital from Overflowing Sewage?](#)  
(Inside Science / April 25, 2018)
- [Vertex Provides Customer Platform to DC Water](#)  
(Digital Journal / April 24, 2018)
- [New Anacostia Tunnel Prevented 170 Million Gallons of Sewer Overflow Into The River](#)  
(WAMU / April 17, 2018)

### *Meetings/Presentations/Events*

- DC Water concluded its 8<sup>th</sup> season of Ward Town Halls across the District to share important information with customers on the upcoming rate increase while also addressing customer questions and concerns regarding rates and any other DC Water related matters.
  - The fifth Town Hall took place in Ward 6, and was held at Payne Elementary School-1445 C Street SE.
  - The sixth Town Hall took place in Ward 5, and was held at Trinity University-125 Michigan Avenue NE.
  - The seventh Town Hall took place in Ward 8, and was held at Matthews Memorial Baptist Church-2616 Martin Luther King, Jr. Avenue, SE.
  - The eighth Town Hall took place in Ward 7, and was held at IDEA Public Charter School-1027 45<sup>th</sup> Street, NE.
- DC Water attended the April monthly meeting of ANC 2A to provide updates on a local sewer rehabilitation project, and also to address customers inquiries and concerns pertaining to our Water Meter Rehabilitation Project as it affects them.
- DC Water attended a public meeting held by residents in the Foxhall Village community to lead an informative discussion on our demand based Lead Service Replacement program, primarily the associated costs.
- In observance of the "Year of the Anacostia", DC Water attended/supported a number of Earth Month events focused around cleaning up the Anacostia River. Some of these events included:
  - DC Water attended the Anacostia Watershed Society (AWS) 2018 Earth Day Cleanup Event. In ongoing partnership with AWS, DC Water's Clean Rivers Project team once again organized a cleanup site at RFK Stadium, in the south end of Lot 8. In addition to a

## Message from the CEO/GM

- special guest appearance and photo opportunities with Wendy, DC Water also provided its Cooling Station and water bottles to help keep the cleanup crews hydrated.
- Joint Base Anacostia Bolling Earth Day Cleanup Event 2018-DC Water did not attend this event, but did provide its support through lending a 30-yard roll off dumpster, and recycling container.
  - Anacostia Watershed Society 2018 Earth Day Cleanup Event at Twining/Dupont Park-DC Water did not attend this event, but did provide its support through a donation of 100 water bottles.
  - DOEE held a public meeting about the Anacostia River with a special presentation on the Anacostia River Sediment Project. DC Water's Green Infrastructure team hosted an information table at the meeting.
- As part of its Environmental Education program, DC Water visited Friendship Public Charter School at Woodridge Elementary School (Woodridge International) to provide both morning and afternoon lessons to two separate groups of 4<sup>th</sup> graders on the topic of "Who Polluted the Potomac?"
  - As part of its Environmental Education program, DC Water visited the DC Department of Health and Human Services for its "Take Your Child To Work Day." While there for four hours, we provided 2 sessions of pH testing to 40 students, ages 11-16.
  - DC Water's Customer Service team attended the 2018 Energy Day in the Community, hosted by the Office of the People's Counsel. In addition to addressing customer billing related inquiries and concerns, we also provided some giveaways (pens and key chains).
  - In support of a water main cleaning, lining and replacement project soon to begin in the Spring Valley community, DC Water is in the process of scheduling a series of meetings with the various community stakeholders to provide information on the project and address any concerns they have. This includes:
    - American University
    - ANC 3D
    - Office of Ward 3 Councilmember Mary Cheh
  - As part of its Environmental Education program, DC Water hosted a weekend lesson at Blue Plains to 6 students, ages 11-14 on the topics of "DC Water Operations" and "Climate Change."
  - In celebration of National Drinking Water Week, DC Water hosted/attended the following events:
    - Drinking Water Week Outreach Event at Dupont Circle-For this event, we provided our DC Water Trivia Wheel, the ever-popular Water Taste Test Challenge, information, giveaways, and a special guest appearance by our beloved Wendy!
    - Capitol Hill Bike-to-School Day-For this event, we provided our Cooling Station, giveaways and a special guest appearance by our beloved Wendy!
  - DC Water attended the May monthly meeting of the Stronghold Civic Association to provide a presentation on its water main replacement project, soon to start on Evarts Street, NE.

## Message from the CEO/GM

- In celebration of National Infrastructure Week, DC Water hosted a catch basin cleaning for interested Tubman Elementary School kindergarten students near the intersection of 13<sup>th</sup> Street, NW and Irving Street, NW.
- DC Water attended a S.T.E.M. Fair held at Payne Elementary School to provide educational and outreach materials.

### Tours

- Potomac Job Corps                      12 Adults
- Georgetown University 16 Students
- John Hopkins                              18 Students
- DC Residents                                4 Adults
- Lorien Wood School                      2 adults 18 Students
- AWS Watershed Stewards                17 Adults
- EPA Antimicrobial Division              25 Adults
- Soul School                                 2 Adults 13 Students
- Global Connections                        11 Adults
- Water Environment Fed 15 Adults

## Message from the CEO/GM

### Social Media



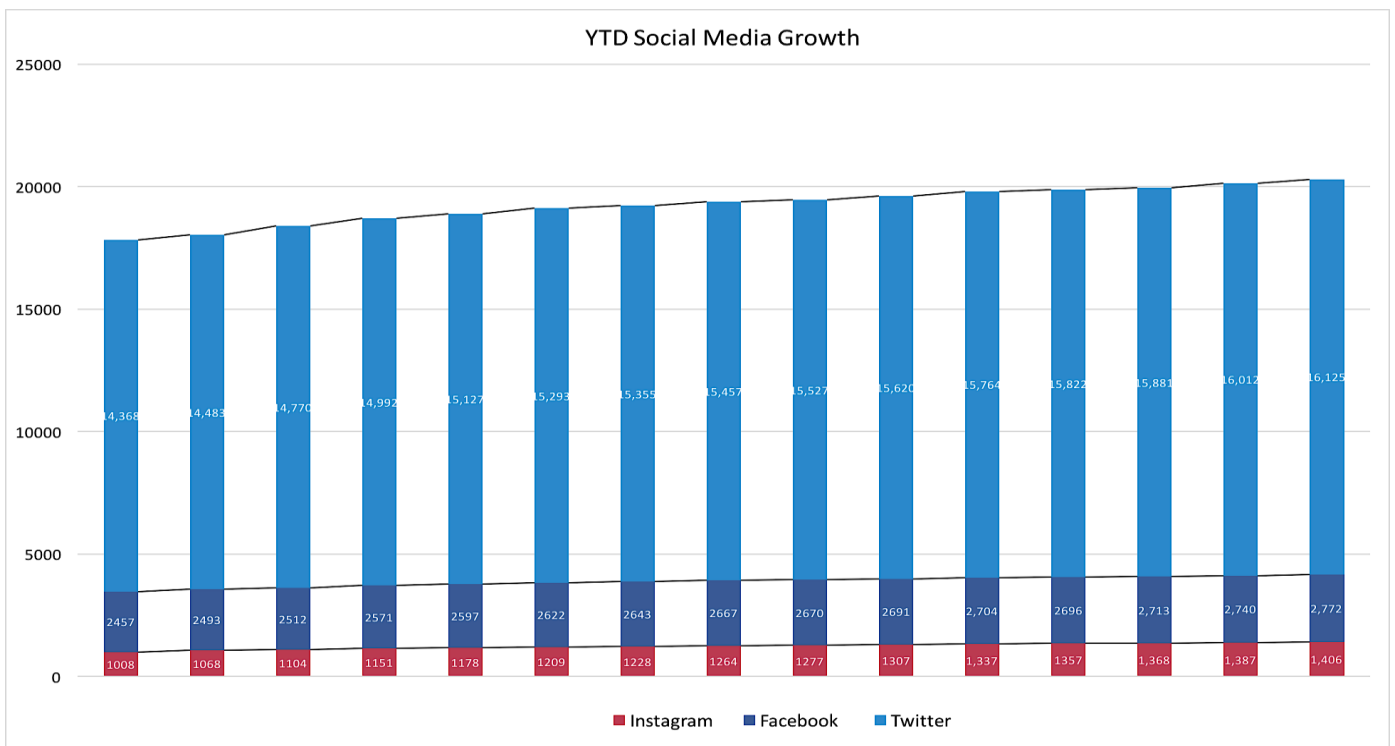
### Audience Growth

Audience Growth Metrics	Totals	Change
<b>Total Fans</b>	<b>23.3k</b>	<b>▲ 0.9%</b>
New Twitter Followers	176	▲ 0.9%
New Facebook Fans	24	▲ 0.8%
New Instagram Followers	18	▲ 1.3%
<b>Total Fans Gained</b>	<b>218</b>	<b>▲ 0.9%</b>

Total followers increased by

▲ 0.9%

since previous date range



Message from the CEO/GM

Sessions

63,787

New Visitor

Returning Visitor

Website

Pages / Session

2.34

Sessions  
63,787

■ New Visitor ■ Returning Visitor

Avg. Session Duration

00:02:10

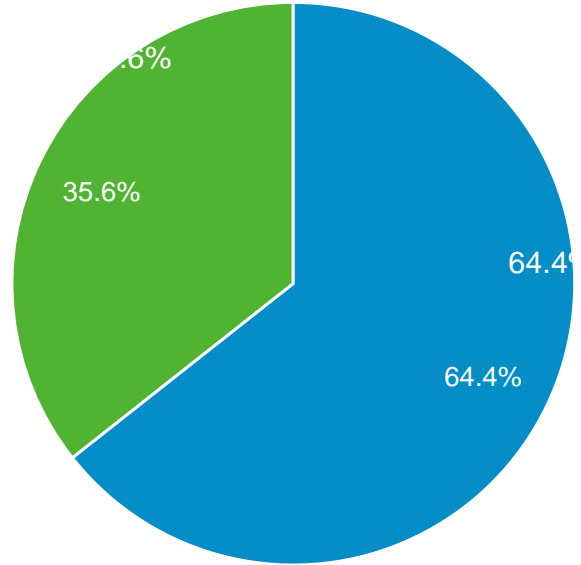
Bounce Rate

32.33%

Avg. Session Duration  
00:02:10

Bounce Rate

32.33%



Top 10 Visited Webpages

Page	Pageviews	% Pageviews
1. /default.cfm	35,649	23.90%
2. /my-dc-water-upgrade	27,771	18.62%
3. /paying-your-bill	10,535	7.06%
4. /contact	8,843	5.93%
5. /contact	4,606	3.09%
6. /projects	2,008	1.35%
7. /payment-and-billing	1,887	1.26%
8. /whats-going-on/news/dc-water-board-directors-selects-new-ceo-and-general-manager	1,887	1.26%
9. /whats-going-on/news/overnight-storm-first-major-test-dc-water's-new-anacostia-river-tunnel	1,634	1.10%
10. /procurement	1,557	1.04%

## ORGANIZATIONAL PERFORMANCE DASHBOARD (April 2018)

### Financial Highlights

Net Operating Cash		Operating Revenues		Operating Expenses		Capital Disbursements	
Actual	70,120	Actual	350	Actual	294	Actual	326
Target	48,216	Target	362	Target	328	Target	307
	(\$ thou)		(\$ mil)		(\$ mil)		(\$ mil)
Operating Cash Balance		Delinquent Account Receivables		Core Investments Yield		Short Term Investment Yield	
Actual	160	Actual	3	Actual	1.86	Actual	1.36
Target	126	Target	3	Target	2.5	Target	1.82
	(\$ mil)		(%)		(%)		(%)

### Customer Care and Operations Highlights

Call Center Performance	Command Center Performance	First Call Resolution	Emergency Response Time
85	85	75	90
Apr 92	Apr 95	Apr 76	Apr 100
(% of calls rec)	(% of calls rec)	(% of calls rec)	(% of calls rec)
Fire Hydrants out of Service	Fire Hydrant Insps. and Maint.	Fire Hydrants Replaced	Permit Processing within SLA
52	36	250	93
Apr (count)	(count)	Apr (YTD count)	(%)

### Low Income Assistance Program

Splash Contributions		Customer Assistance Program	
Actual	61	Previous	74
Target	47	Current	71
	(\$ tho)		(\$ tho)

### Operational Highlights

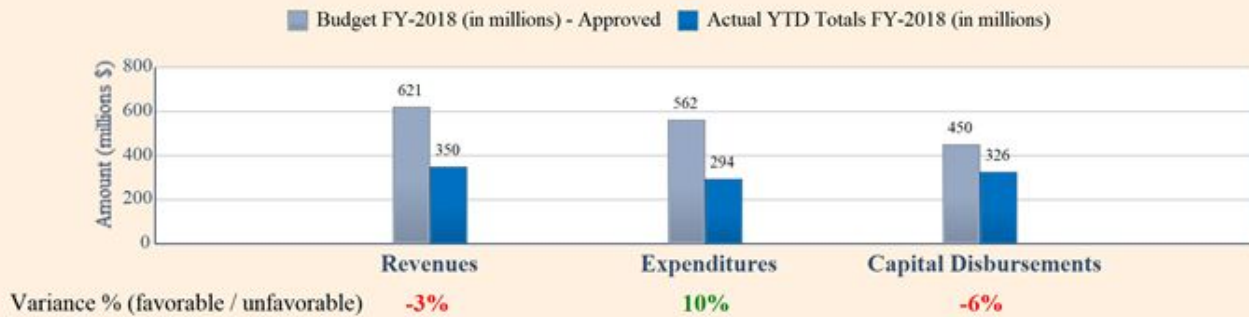
Lead Concentration (ppb)	Total Coliform Rule (%)	Biosolids Production	Total Nitrogen (lbs/yr mil)
		446	
		(wet tons)	
Plant Effluent Flow (gal mil)	Excess Flow	Water Main Leaks	Water Valve Leaks
	54	16	2
	(gal mil)	(count)	(count)
Non-Revenue Water	Sewer Main Backups	Sewer Lateral Backups	Dry Weather CSO
Sold NA	15	130	0
Purchased NA	(count)	(count)	(events)
(CCF mil)			
Recruitment Activity	Electricity Usage	Employee Lost Time Accidents	Vendor Payments
Filled 69	18	0	Actual
Open 16	(MWh)	(count)	Target 97
(count)			(%)

## FINANCIAL HIGHLIGHTS

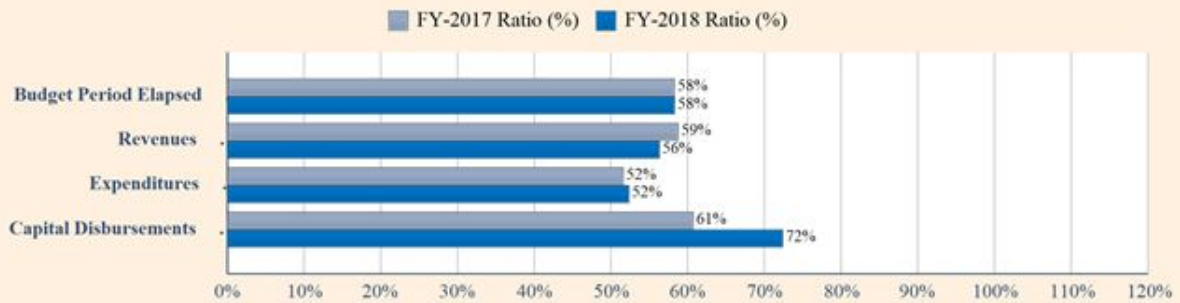
### FINANCIAL PERFORMANCE SUMMARY

#### REVENUE, EXPENDITURE, CAPITAL DISBURSEMENT

*Cumulative Revenue, Expenditure & Capital Disbursements compared to Budget*

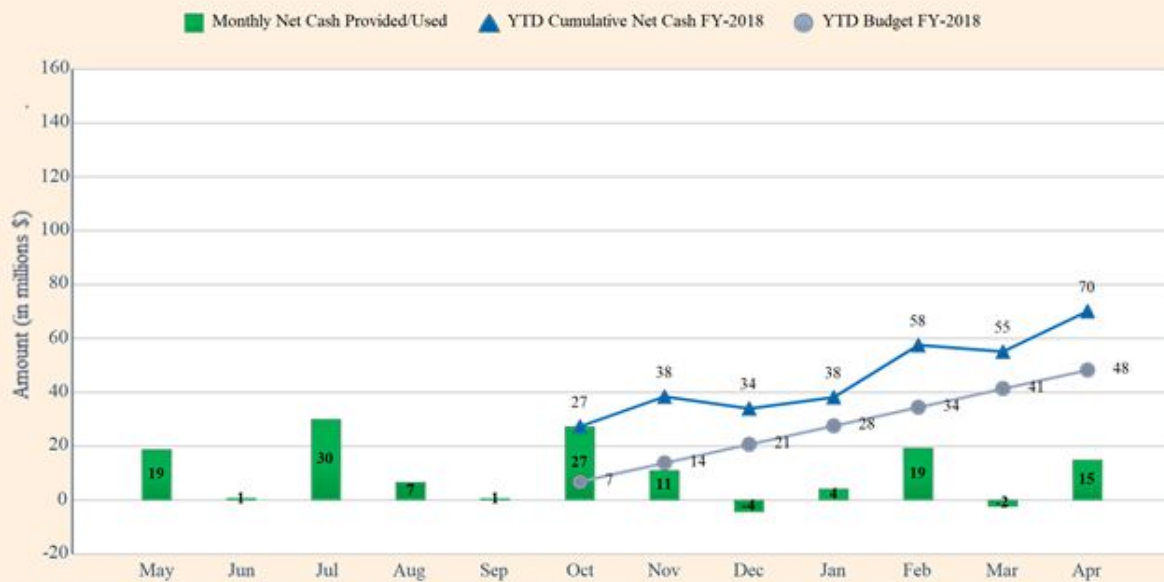


#### YEAR TO DATE ANALYSIS



#### NET OPERATING CASH

*Monthly and YTD Net Operating Cash Provided / Used compared to Budget*



*Net cash to date for April was above budget by \$22 Million*

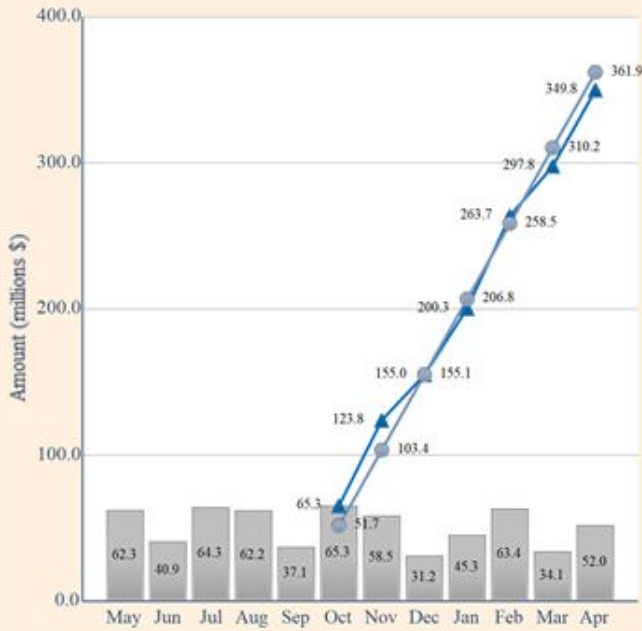
## FINANCIAL HIGHLIGHTS

### REVENUES AND OPERATING EXPENSES

#### OPERATING REVENUES

Monthly & Cumulative Revenue compared to YTD Budget

- Actual Monthly Revenue
- ▲ YTD Cumulative Revenue FY-2018
- YTD Cumulative Budget FY-2018

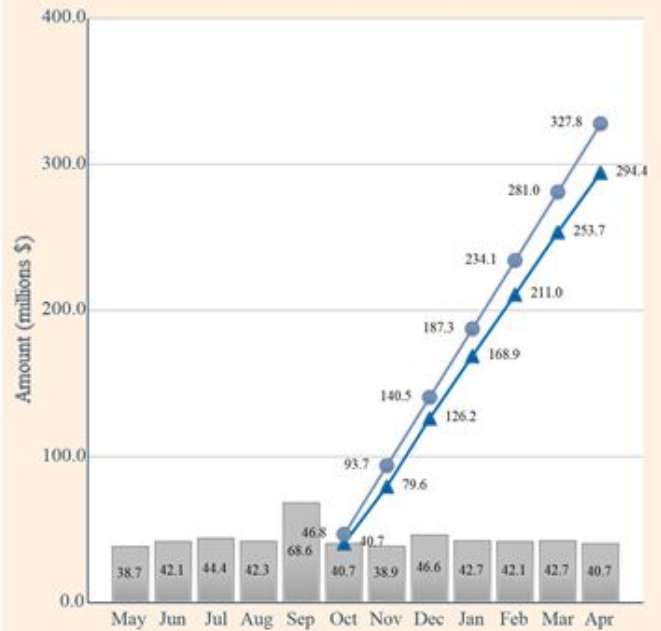


Revenue to date for April was below Budget by \$12 Million

#### OPERATING EXPENSES

Monthly & Cumulative Expenditure compared to YTD Budget

- Actual Monthly Expenses
- ▲ YTD Cumulative Expenditure FY-2018
- YTD Cumulative Budget FY-2018



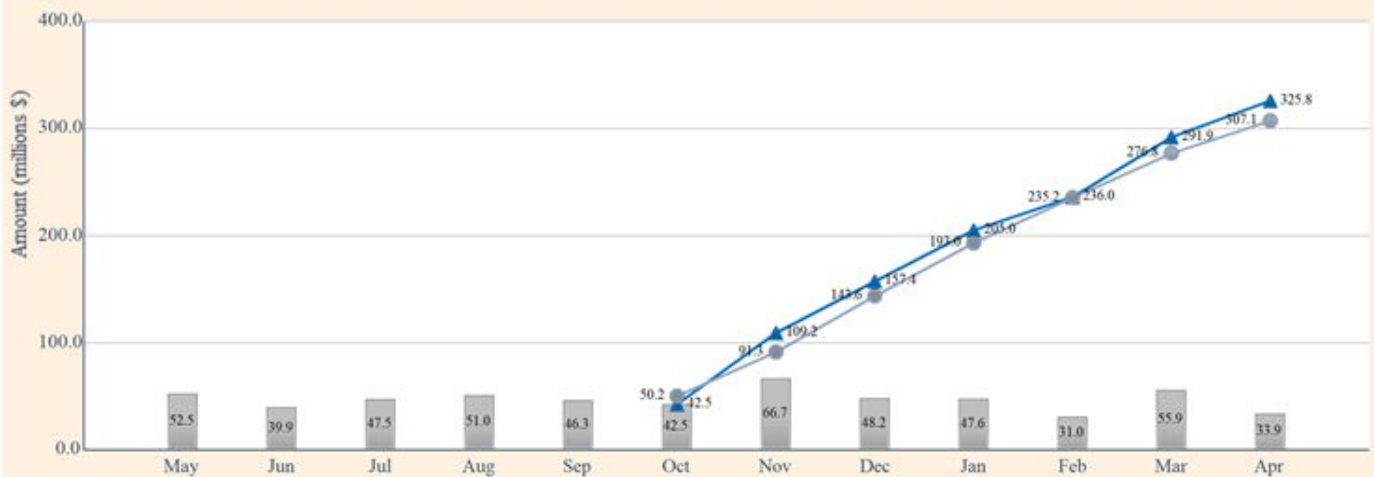
Expenditure to date for April was below budget by \$33 Million

### CAPITAL SPENDING

#### CAPITAL DISBURSEMENTS

Monthly & Cumulative Disbursements compared to YTD Budget

- Actual Monthly Disbursements
- ▲ YTD Cumulative Disbursements FY-2018
- YTD Cumulative Budget FY-2018



Disbursements to date for April was above budget by \$19 Million. YTD Spending reflects comparison to the straight lined approved budget.



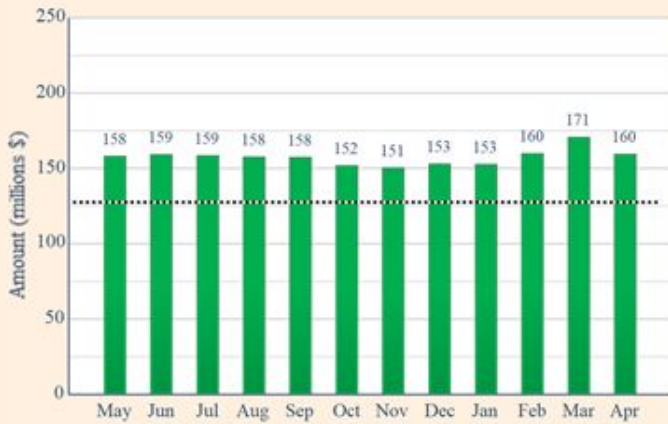
## FINANCIAL HIGHLIGHTS

### OPERATING CASH AND RECEIVABLES

#### OPERATING CASH BALANCE

*Average Daily Cash Balance compared to Operating Reserve Target*

- Actual Cash Balance FY-2018
- Operating Reserve Target - (125.5 Million)

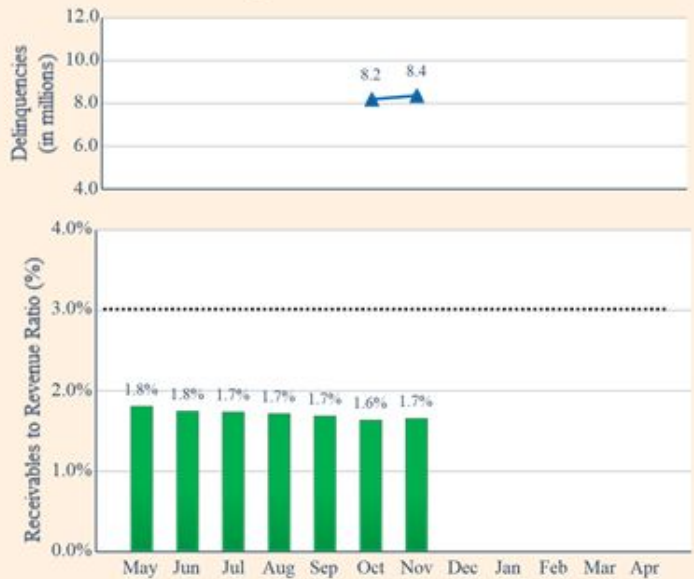


*Cash Balance for April was above target by \$30 million*

#### DELINQUENT ACCOUNT RECEIVABLES

*Delinquency & Receivables to Revenue Ratio compared to Target*

- Receivables to Revenue Ratio
- ▲ Delinquencies (in millions)
- Target: Receivables to Revenue Ratio (3%)



*March Receivables to Revenue Ratio info is pending, Delinquency info is pending*

### INVESTMENT EARNINGS

#### INVESTMENT CASH EARNINGS

*Monthly & Cumulative Earnings compared to YTD Budget*

- Monthly Earnings
- ▲ YTD Cumulative Earnings FY-2018
- YTD Cumulative Earnings Budget FY-2018



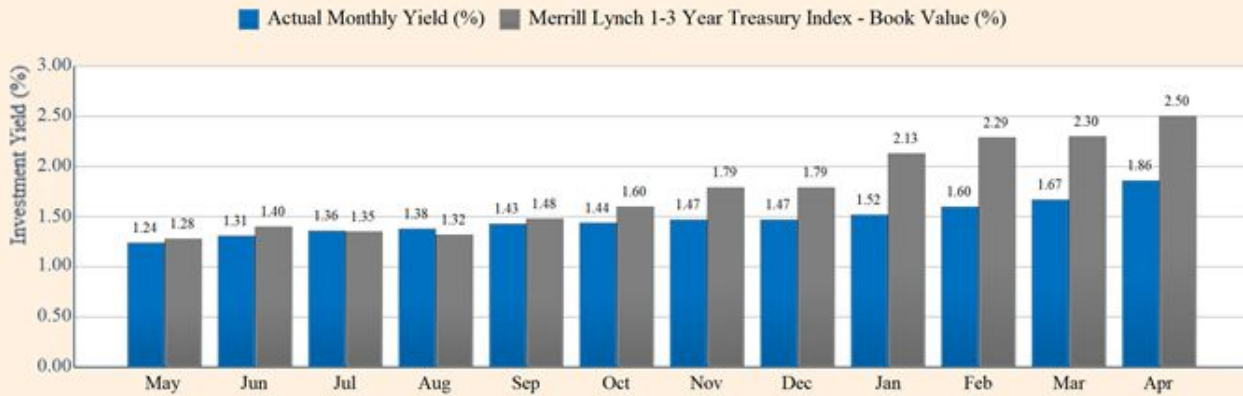
*Earnings to date for April were above Projected Budget by \$103,000*

## FINANCIAL HIGHLIGHTS

### INVESTMENT YIELD

#### CORE INVESTMENTS YIELD

*Monthly Yield compared to Merrill Lynch Benchmark*



*Yield for April was more than the treasury index by 0.64%*

#### SHORT TERM INVESTMENT YIELD

*Short Term Yield compared to Merrill Lynch Benchmark*



*Short Term Yield for April was less than the Merrill Lynch yield by 0.5%*

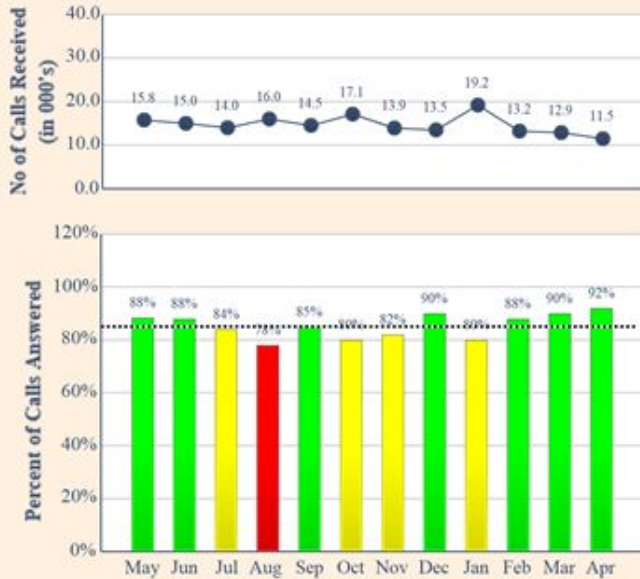
**CUSTOMER CARE AND OPERATIONS HIGHLIGHTS**

**CUSTOMER SERVICE**

**CALL CENTER PERFORMANCE**

*Calls Answered within 40 Seconds compared to Target*

- Call Center: Calls answered (%)
- No of Calls - Call Center (in 000's)
- Target - Call Center (85%)

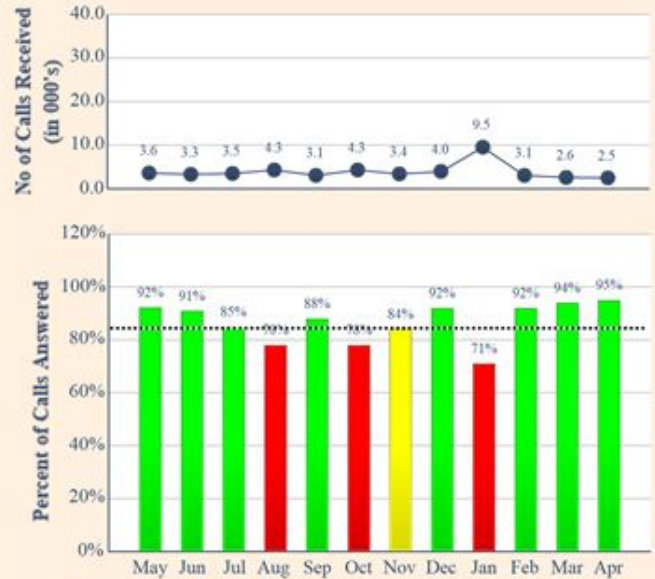


*Performance for April was above target by 7%*

**COMMAND CENTER PERFORMANCE**

*Calls Answered within 40 Seconds compared to Target*

- Command Center: Calls answered (%)
- No of Calls - Command Center (in 000's)
- Target - Command Center (85%)

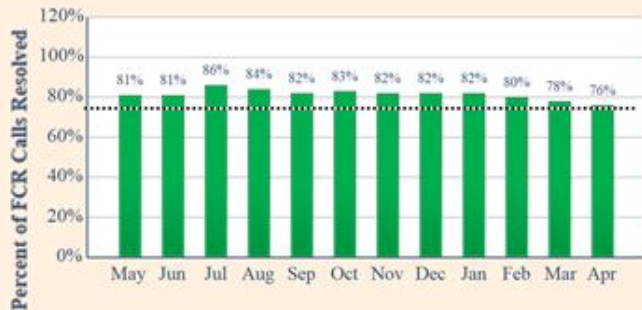


*Performance for April was above target by 10%*

**FIRST CALL RESOLUTION (FCR)**

*Calls resolved on first contact compared to Target*

- FCR (%)
- FCR Target (75%)

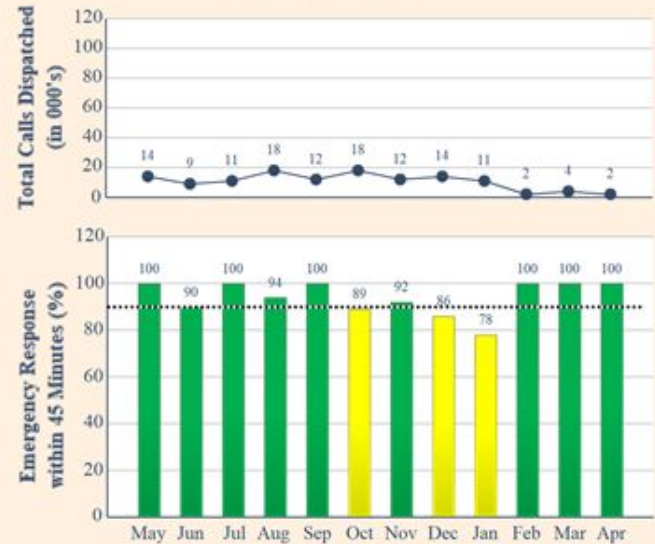


*Performance for April was above target by 1%*

**EMERGENCY RESPONSE TIME**

*Calls responded to within 45 Minutes compared to Target*

- Response (%) within Target
- Total Emergency Calls Dispatched
- Response Target (90%)



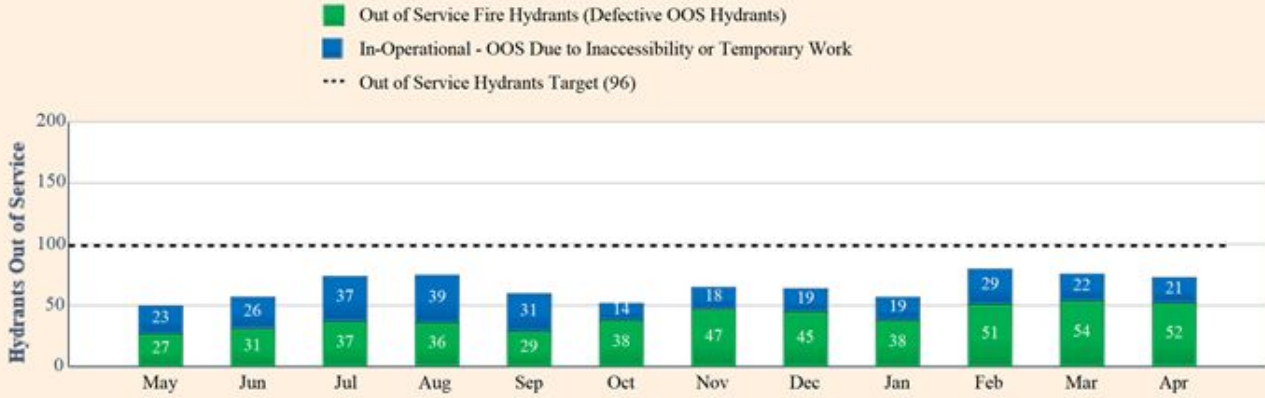
*Performance for April was above target by 10%*

**CUSTOMER CARE AND OPERATIONS HIGHLIGHTS**

**FIRE HYDRANTS**

**Fire Hydrants Out of Service (OOS)**

*Total Hydrants Out of Service against Target*



**Fire Hydrant Inspections and Maintenance**

*Total Hydrant Inspection and Maintenance Work Orders Completed per Month*



**Total Hydrant Replacements Per Month**

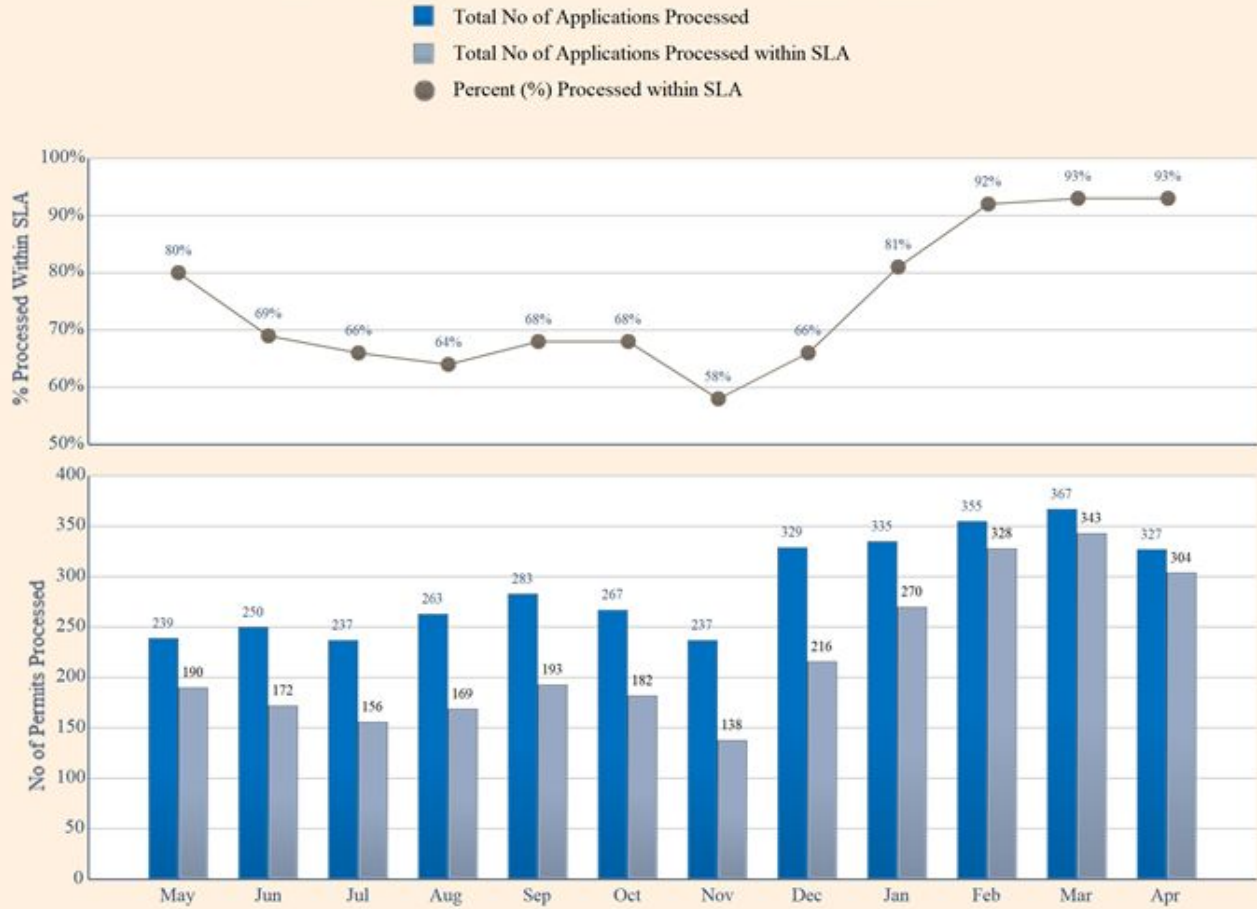
*Annual Replacement Target (250)*



**CUSTOMER CARE AND OPERATIONS HIGHLIGHTS**

**PERMIT PROCESSING**

**PERCENT OF APPLICATIONS PROCESSED WITHIN SLA**



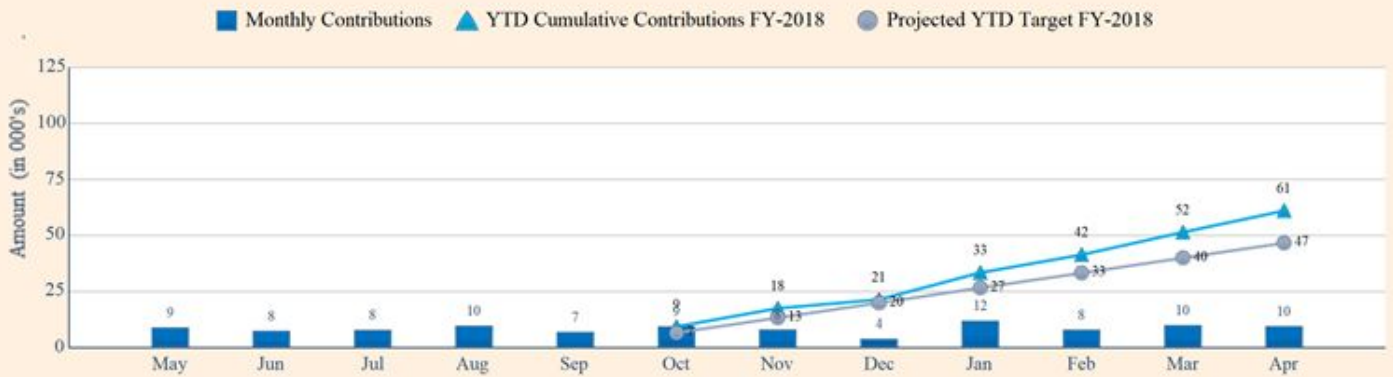
*Permits not processed within SLA in April were 7% Note that different SLA's range from 7 days to 45 days*

**LOW INCOME ASSISTANCE PROGRAM**

**SPLASH PROGRAM**

**SPLASH CONTRIBUTIONS**

*Monthly and Cumulative Contributions compared to YTD Target*

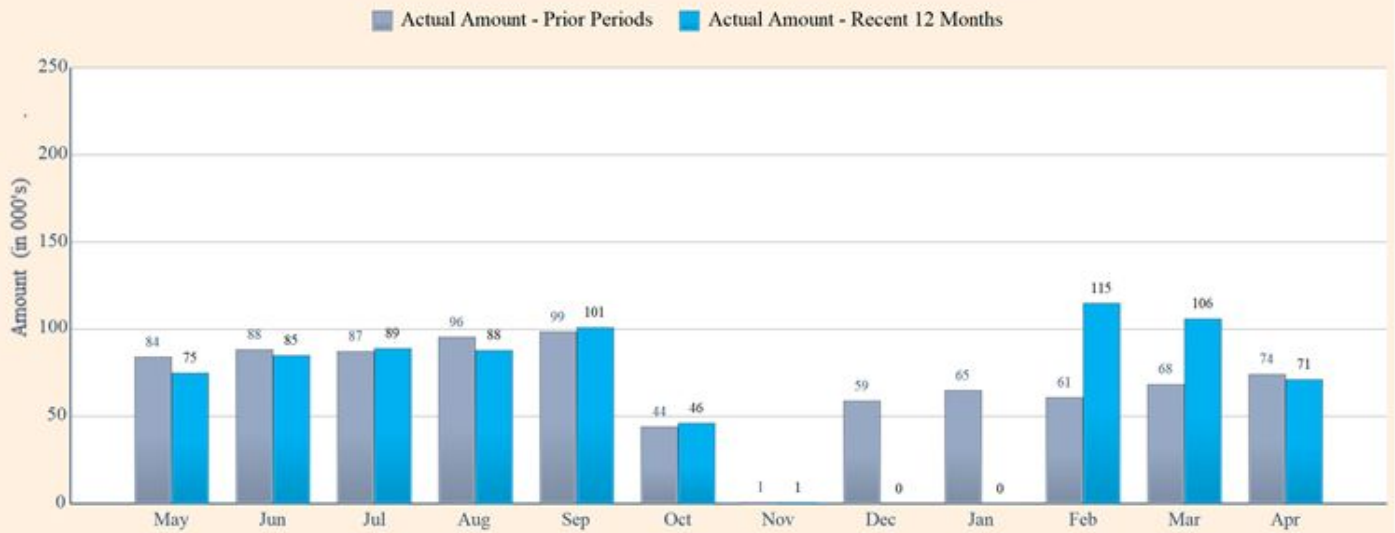


*Total SPLASH Contributions to date for April were above target by \$14,450*

**CUSTOMER ASSISTANCE PROGRAM (CAP)**

**CUSTOMER ASSISTANCE PROVIDED**

*Monthly Assistance Provided compared to corresponding Previous Year Periods*



**OPERATIONAL HIGHLIGHTS**

**DRINKING WATER QUALITY**

**LEAD AND COPPER RULE (LCR) COMPLIANCE**

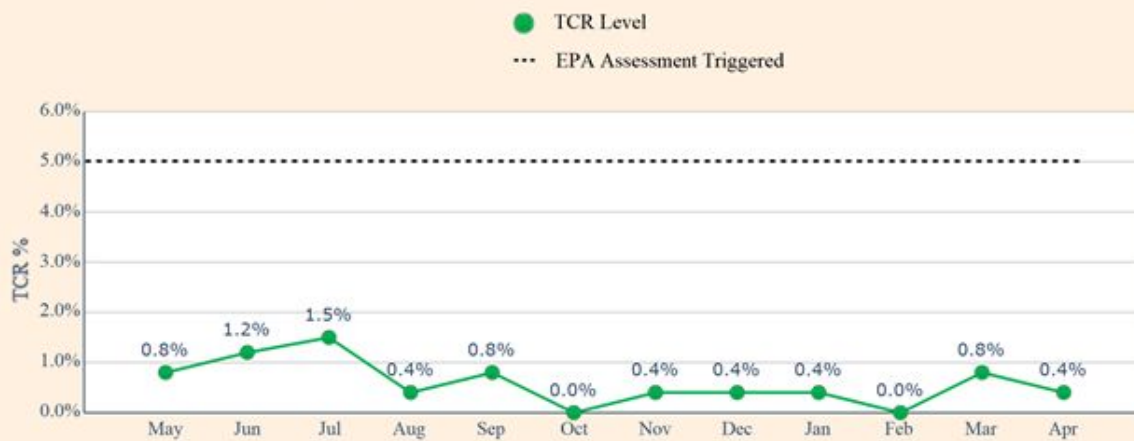
*Semi-Annual LCR Monitoring Results*



*Jan-Jun 2018 results to date*

**TOTAL COLIFORM RULE (TCR) COMPLIANCE**

*Total Coliform Positives compared to EPA Maximum Contaminant Level (MCL)*



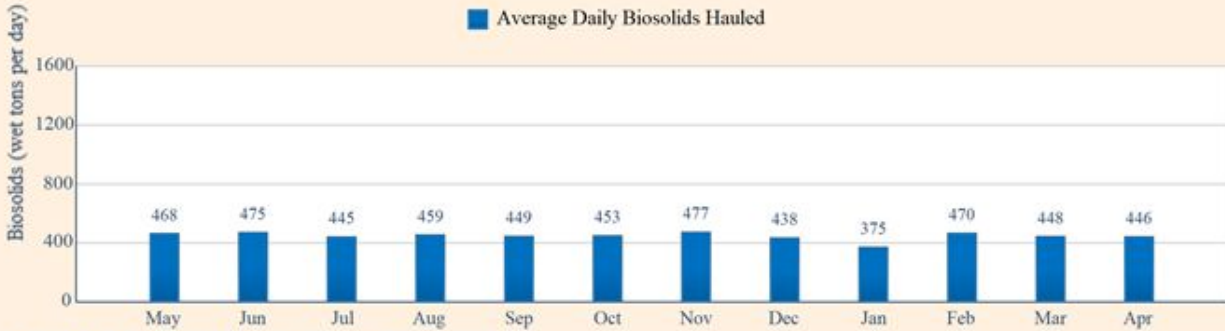
*Coliform Positive was recorded at 0.4% in April*

**OPERATIONAL HIGHLIGHTS**

**WASTEWATER TREATMENT**

**BIOSOLIDS PRODUCTION**

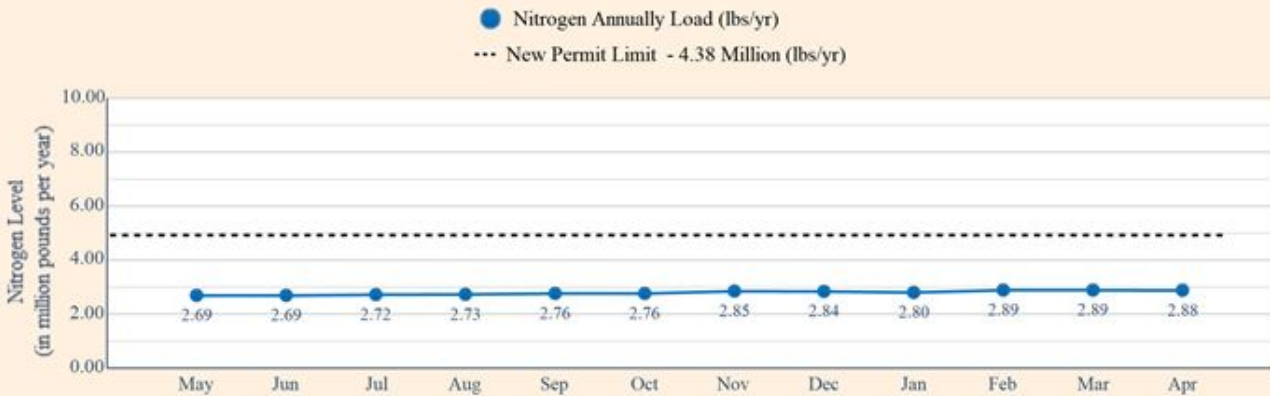
*Average Daily Biosolids Production*



*Biosolids Daily Production for April were 446 wet tons per day*

**TOTAL NITROGEN**

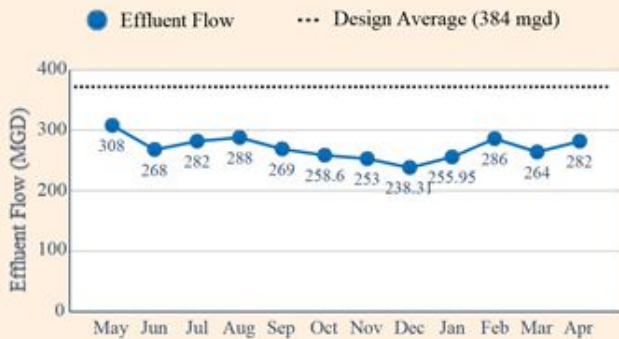
*Total Nitrogen Compared to New Permit Levels*



*Nitrogen level for April were below permit by 1.5 million lbs/yr*

**PLANT EFFLUENT FLOW**

*Effluent Flow compared to Plant Design Average Limit*



*In April Influent flow was below design by 102 MGD*

**TOTAL EXCESS FLOW**



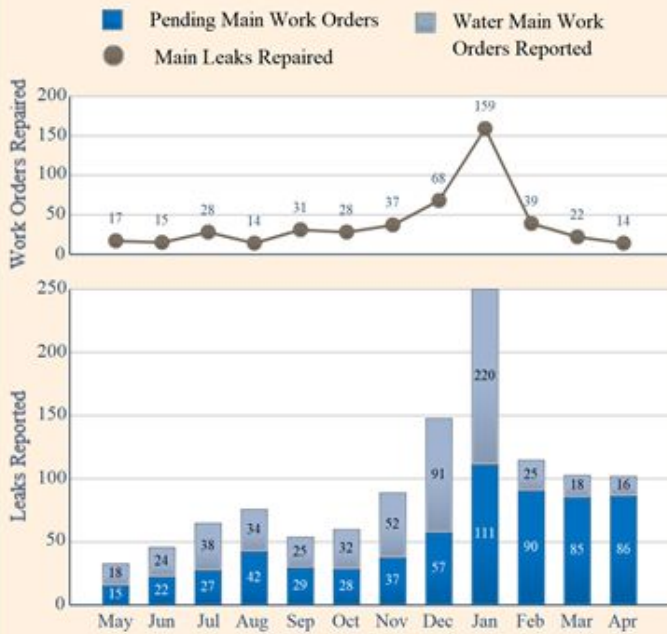
*Excess flow events were recorded at 54.15 MG in April*



## OPERATIONAL HIGHLIGHTS

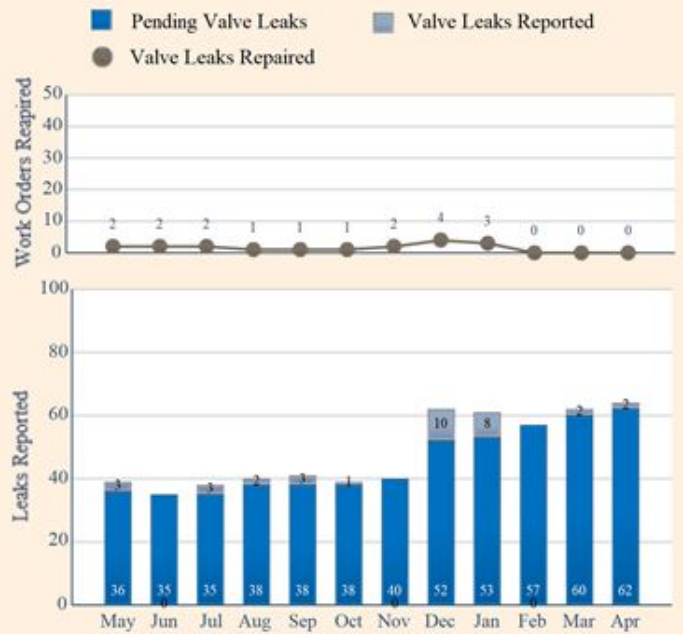
### WATER DISTRIBUTION OPERATIONS

#### WATER MAIN LEAKS



*There were 16 Water Main Work Orders reported in April*

#### WATER VALVE LEAKS

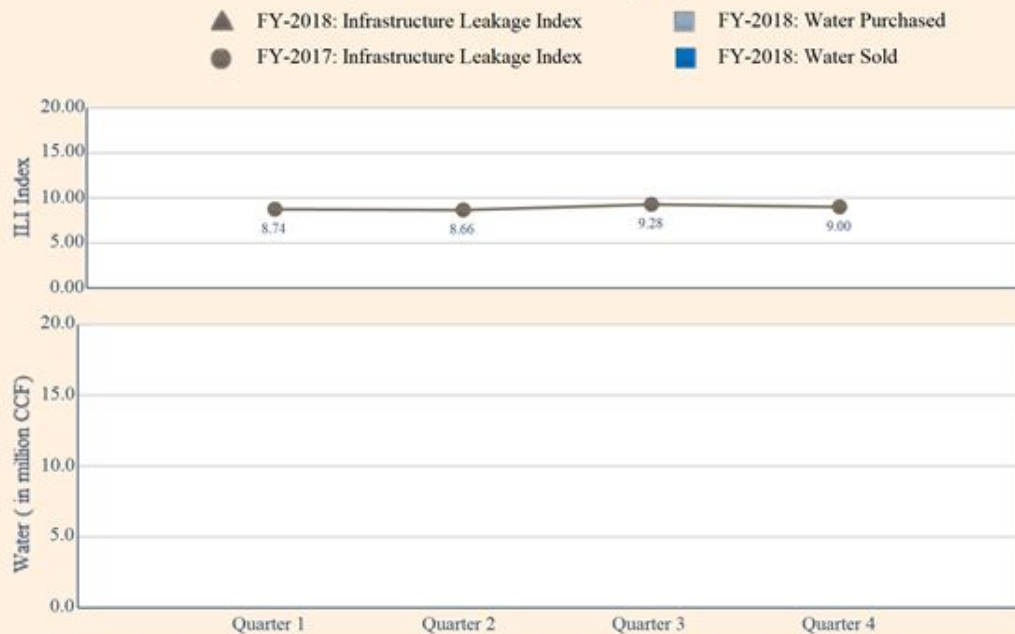


*No leaks were resolved in April*

### WATER BALANCE

#### NON-REVENUE WATER

*Volume of Water Purchased and Sold per Quarter*



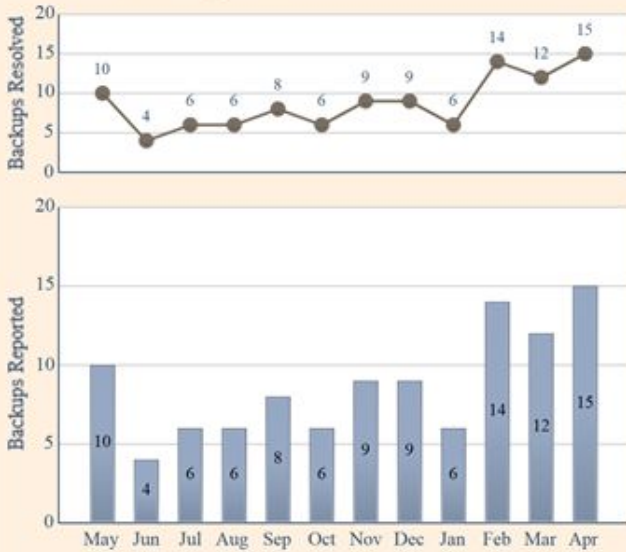
**OPERATIONAL HIGHLIGHTS**

**SEWER SYSTEM OPERATIONS**

**SEWER MAIN BACKUPS**

*Sewer Mains Backed Up and Relieved per Month*

- Pending Main Backups
- Main Backups Reported
- Main Backups Resolved

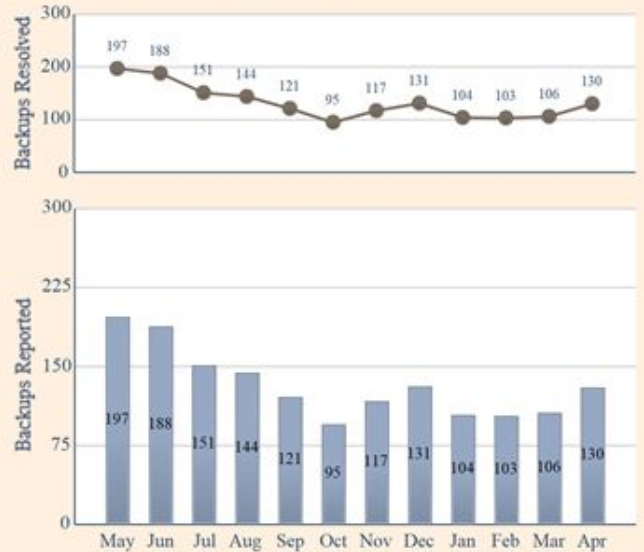


*No pending main backups reported*

**SEWER LATERAL BACKUPS**

*Sewer Laterals Backed Up and Relieved per Month*

- Pending Lateral Backups
- Lateral Backups Reported
- Lateral Backups Resolved



*No pending lateral backups reported*

**COMBINED SEWER SYSTEM**

**DRY WEATHER CSO EVENTS**

*Combined Sewer Overflow Volume and No of Events per Month*

- Overflow Volume (MG)
- Number of CSO Events



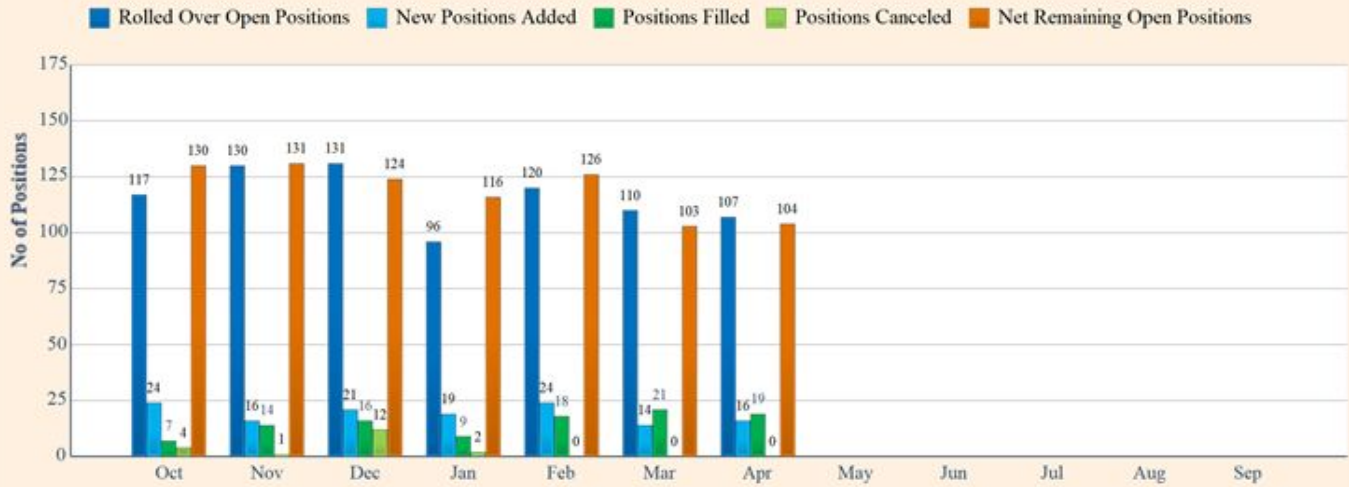
*No dry weather Combined Sewer Overflow events were recorded in April 2018*

**OPERATIONAL HIGHLIGHTS**

**HUMAN RESOURCES**

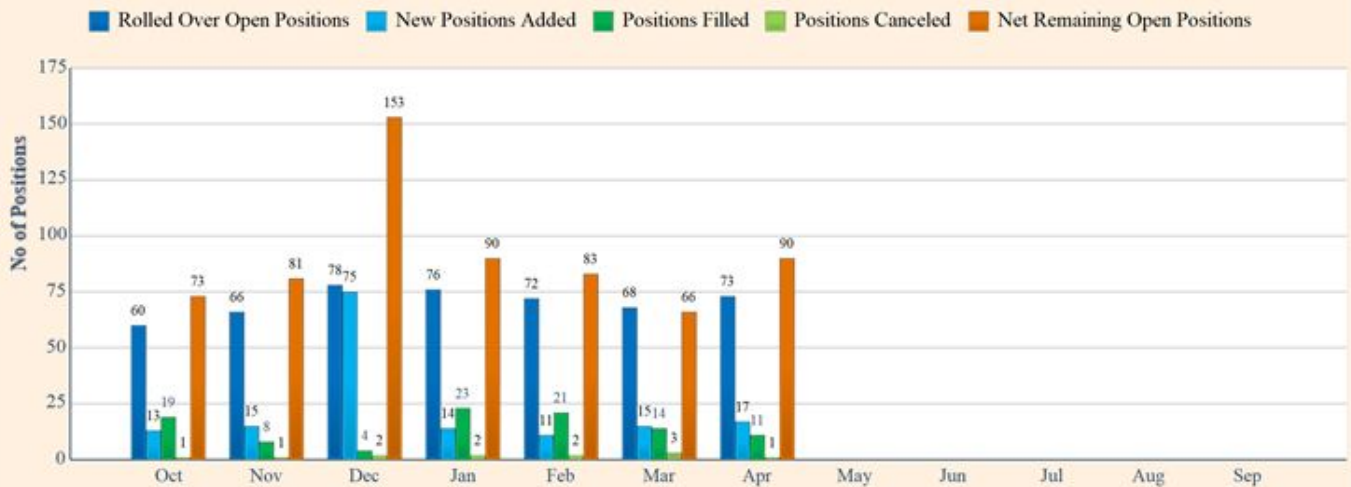
**RECRUITMENT ACTIVITY**

PREVIOUS FISCAL YEAR



**RECRUITMENT ACTIVITY**

CURRENT FISCAL YEAR



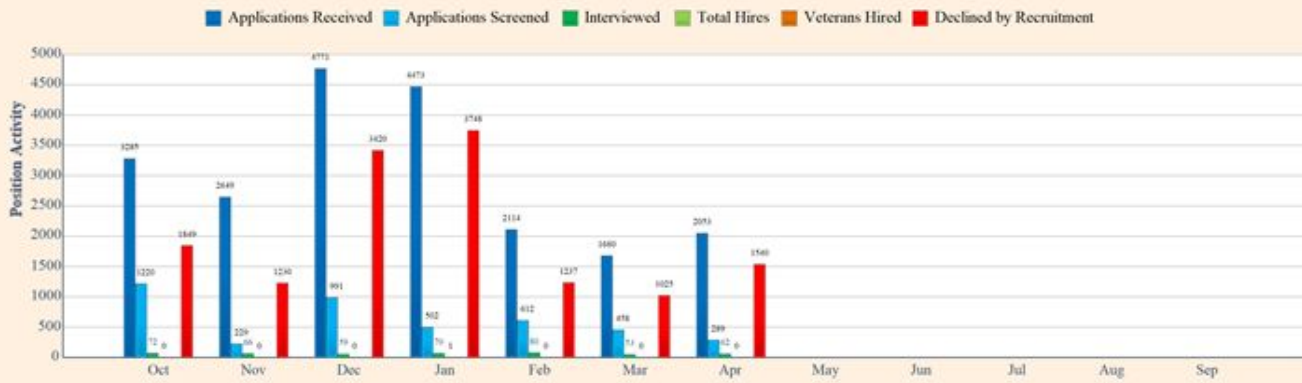
RECRUITMENT PERFORMANCE METRIC

PREVIOUS FISCAL YEAR



RECRUITMENT PERFORMANCE METRIC

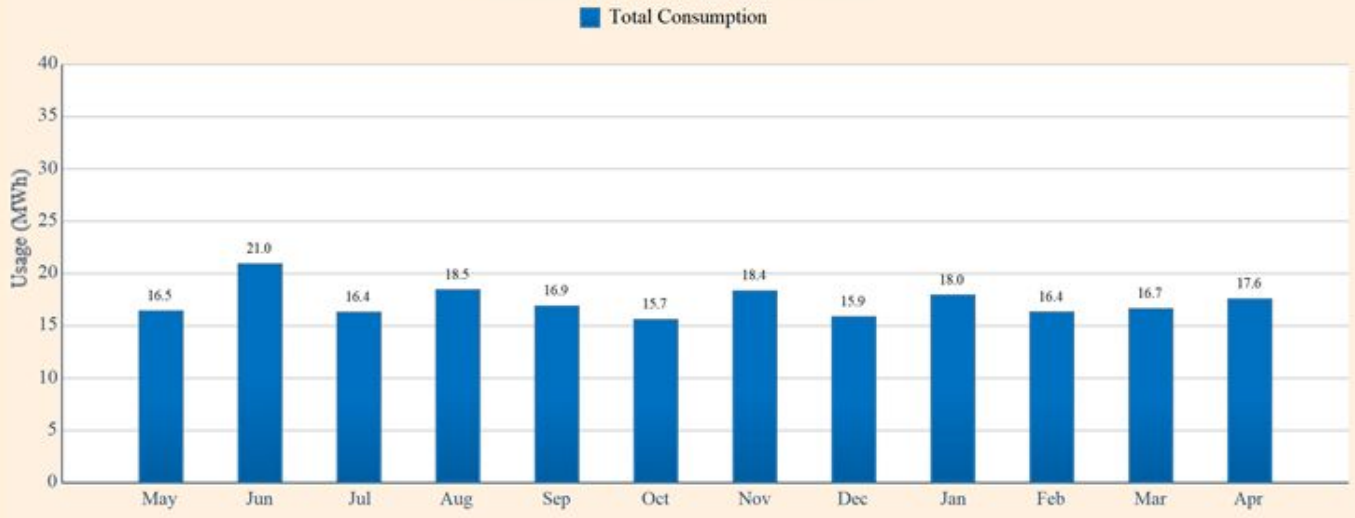
CURRENT FISCAL YEAR



**OPERATIONAL HIGHLIGHTS**

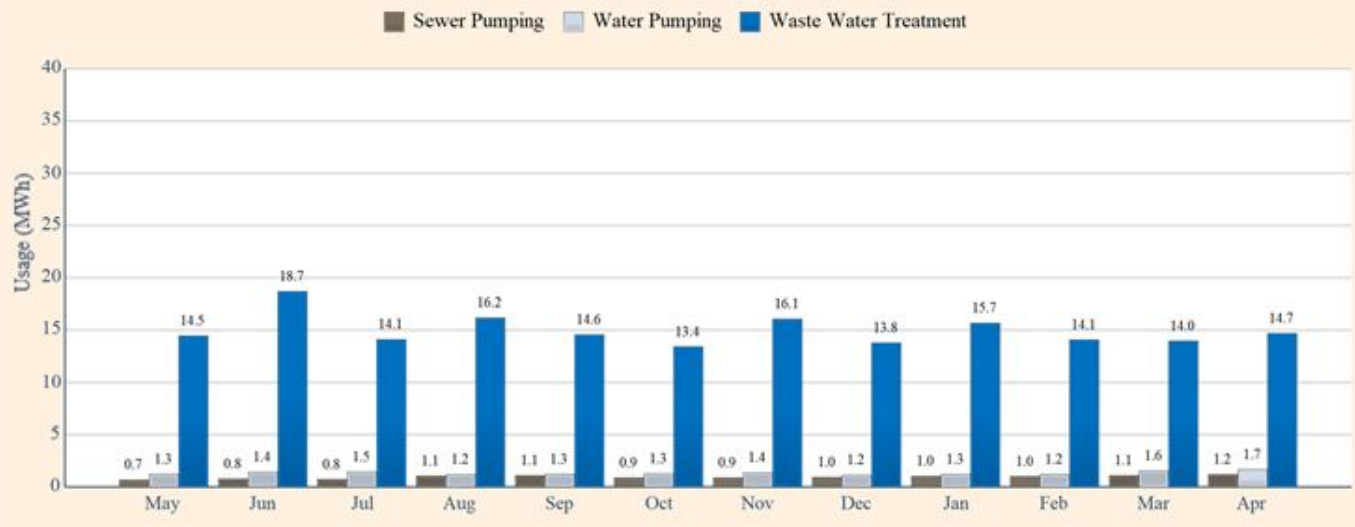
**ENERGY CONSUMPTION**

**ELECTRICITY USAGE SUMMARY**



*Electricity Consumption in April was 17,617 KWh*

**ELECTRICITY USAGE BY SERVICE AREA**



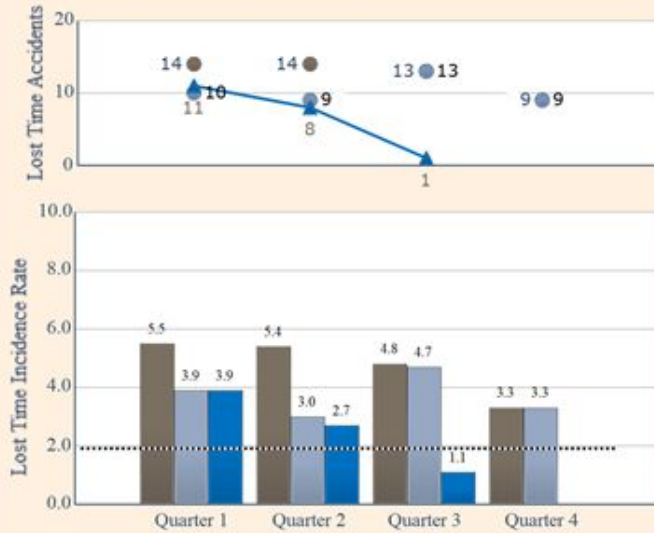
*Waste Water treatment had the highest electricity consumption in April at 14,710 KWh*

OPERATIONAL HIGHLIGHTS

SAFETY

EMPLOYEE LOST TIME INCIDENCE RATE

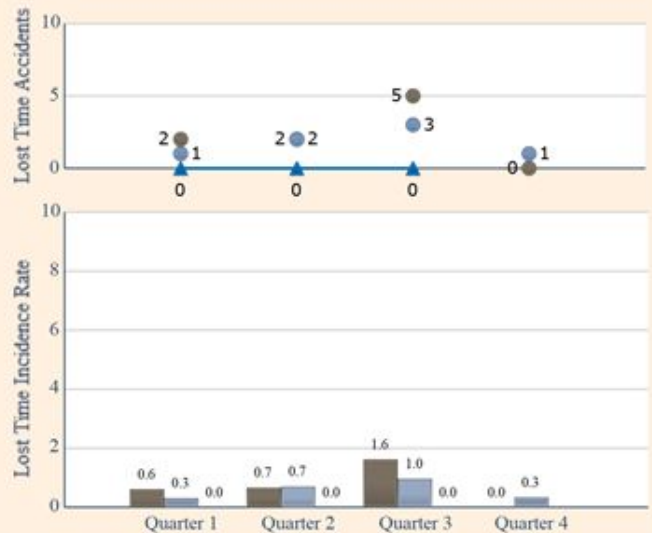
- FY-2016: No of LT Accidents
  - FY-2016: LT Incidence Rate
  - FY-2017: No of LT Accidents
  - FY-2017: LT Incidence Rate
  - ▲ FY 2018 No of LT Accidents
  - FY 2018 LT Incidence Rate
- Target/National: LT Incidence Rate



In the 3rd quarter, 1 lost time accidents were reported

CONTRACTOR LOST TIME INCIDENCE RATE

- FY-2016: No of LT Accidents
- FY-2016: LT Incidence Rate
- FY-2017: No of LT Accidents
- FY-2017: LT Incidence Rate
- ▲ FY 2018 No of LT Accidents
- FY 2018 LT Incidence Rate

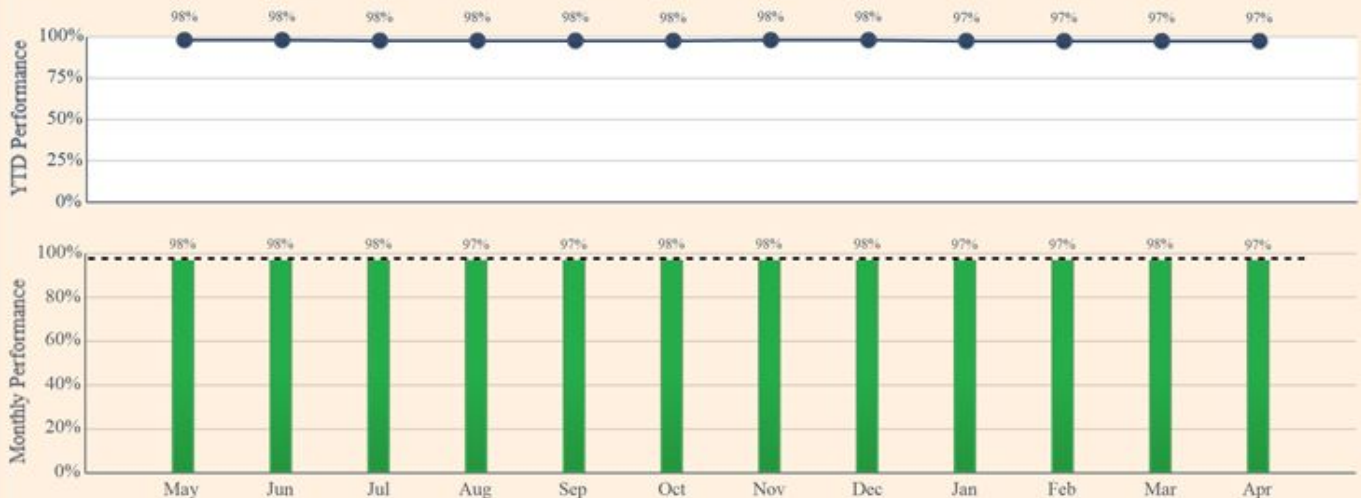


In the 3rd quarter, 0 lost time accidents were reported

VENDOR PAYMENTS

VENDOR PAYMENT PERFORMANCE

- Monthly Performance (%)
- YTD Performance (%)
- Monthly Target - (97%)



Monthly performance for April was below Budget by ?

**INTERPRETATION OF CHARTS:**

**FINANCIAL HIGHLIGHTS**

---

**Revenue, Expenditure, Capital Disbursement**

- Bulls eye shows the variance for YTD budget against actual for revenues, expenditures and capital disbursements
- Bar graph shows **total** for the fiscal year budgeted(grey)-revenues, expenditures and capital disbursements against YTD actual(blue)
- Horizontal line graph shows a YTD progress analysis as compared to the previous year

**Net Operating Cash**

- Bar graph shows monthly net operating cash provided/used
- Line graph denoted by (Δ) compares YTD actual against budget (O). This element is dynamically color coded\*

**Operating Revenues**

- Bar graph shows monthly operating revenues
- Line graph denoted by (Δ) compares YTD revenue against budget (O). This element is dynamically color coded\*

**Operating Expenses**

- Bar graph shows monthly operating expenses
- Line graph denoted by (Δ) compares YTD expenditure against budget (O). This element is dynamically color coded\*\*

**Capital Disbursements**

- Bar graph shows monthly capital disbursements
- Line graph denoted by (Δ) compares YTD disbursements against budget (O). This element is dynamically color coded\*\*

**Operating Cash Balance**

- Bar graph shows monthly average cash balance compared to the target of \$125 million; indicated by grey dotted line

**Delinquent Account Receivables**

- Bar graph shows monthly Receivables to Revenue ratio against target of 3%; indicated by grey dotted line. This element is dynamically color coded\*\*
- Line graph denoted by (Δ) shows delinquency in actual dollars

**Investment Cash Earnings**

- Bar graph shows monthly investment cash earnings
- Line graph denoted by (Δ) compares the YTD earnings against budget (O). This element is dynamically color coded\*

**Core Investments Yield**

- Bar graph shows the monthly investment yield compared to the monthly target (grey) benchmark as set by the US Treasury Bill. This element is dynamically color coded\*

**Short Term Investment Yield**

- Bar graph shows the monthly short term investment yield compared to the monthly short term target (grey) benchmark as set by the US Treasury Bill. This element is dynamically color coded\*

Dynamic Color Coding Legend

*	**
<p><b>Red</b> - when the actual is <b>lower</b> than 3% of budget or target</p> <p><b>Yellow</b> - when the actual is <b>within</b> 3% of budget or target</p> <p><b>Green</b> - when the actual is <b>equal to or higher</b> than budget or target</p>	<p><b>Red</b> - when the actual is <b>higher</b> than 3% of budget or target</p> <p><b>Yellow</b> - when the actual is <b>within</b> 3% of budget or target</p> <p><b>Green</b> - when the actual is <b>equal to or lower</b> than budget or target</p>

Symbols where the color code applies- (Δ, □)

A

**CUSTOMER CARE AND OPERATIONS HIGHLIGHTS**

---

**Call Center Performance**

- Bar graph shows monthly percentage of calls answered within 40 seconds against target of 85%; indicated by grey dotted line. This element is dynamically color coded\*\*\*
- Line graph denoted by (O) shows the number of calls received by the call center every month

**Command Center Performance**

- Bar graph shows monthly percentage of calls answered within 40 seconds against target of 85%; indicated by grey dotted line. This element is dynamically color coded\*\*\*
- Line graph denoted by (O) shows the number of calls received by the command center every month

**First Call Resolution (FCR)**

- Bar graph shows monthly percentage of calls resolved on first contact against target of 75%; indicated by grey dotted line. This element is color dynamically coded\*\*\*

**Emergency Response Time**

- Bar graph shows the percentage of emergency calls responded to within 45 minutes against target of 90%; indicated by grey dotted line. This element is dynamically color coded\*\*\*
- Line graph denoted by (O) shows the total calls dispatched per month

**Fire Hydrants Out of Service (OOS)**

- Bar graph shows total hydrants not available for use against target of 91; indicated by grey dotted line. This element is dynamically color coded\*\*\*\*
- The bar graph is stacked (blue) to show hydrants that are inaccessible. Inaccessible hydrants are not measured against the target of 91

**Fire Hydrant Inspections and Maintenance**

- Bar graph shows the total number of fire hydrants repaired per month

**Fire Hydrant Replacements**

- Bar graph shows the total number of hydrants replaced per month against target of 21; indicated by grey dotted line. This element is dynamically color coded\*\*\*\*

**Total Applications Processed within Service Level Agreement (SLA)**

- Bar graph shows
  - the number of permits processed per month(dark blue)
  - the number of permits processed within SLA per month(light blue)
- Line graph denoted by (O) shows the percentage of permits processed vs. processed within SLA

Dynamic Color Coding Legend

***	****
<p><b>Red-</b> when the actual is <b>lower</b> than 5% of budget or target</p> <p><b>Yellow-</b> when the actual is <b>within</b> 5% of budget or target</p> <p><b>Green-</b> when the actual is <b>equal to or higher</b> than budget or target</p>	<p><b>Red-</b> when the actual is <b>higher</b> than 5% of budget or target</p> <p><b>Yellow-</b> when the actual is <b>within</b> 5% of budget or target</p> <p><b>Green-</b> when the actual is <b>equal to or lower</b> than budget or target</p>

Symbols where the color code applies- (Δ, □)



**LOW INCOME ASSISTANCE PROGRAM**

---

**SPLASH Contributions**

- Bar graph shows monthly SPLASH contributions
- Line graph denoted by (Δ) shows the YTD contributions against target (O). This element is color coded\*\*\*

**Customer Assistance Program (CAP)**

- Bar graph shows monthly CAP assistance
- Line graph denoted by (Δ) shows the YTD contributions against budget (O). This element is color coded\*\*\*

**OPERATIONAL HIGHLIGHTS**

---

**Lead and Copper Rule (LCR) Compliance**

- Line graph denoted by (Δ, O) shows semi-annual LCR monitoring results against target of 15ppb; indicated by grey dotted line. This element is color coded\*\*\*\*

**Total Coliform Rule (TCR)**

- Line graph denoted by (Δ) shows total coliform positives against the EPA maximum contaminant level of 5%. This element is color coded\*\*\*\*

**Biosolids Production**

- Bar graph shows monthly average daily biosolids production

**Total Nitrogen**

- Line graph denoted by (Δ) shows monthly total nitrogen level against the current permit (dark grey) and 2015 permit (light grey) levels. This element is color coded\*\*\*\*

**Plant Effluent Flow**

- Line graph denoted by (Δ) shows monthly influent flow against the plant design average limit of 370MGD. This element is color coded\*\*\*\*

**Excess Flow**

- Line graph denoted by (Δ) shows monthly excess flow

**Water Main Leaks**

- Bar graph shows the water main leaks reported
- The bar graph is stacked(dark blue) to show the pending leaks carried over from the previous month if any; bar graph(light blue) shows new water main leaks reported for the given month
- Line graph denoted by (O) shows the number of main leaks repaired per month

**Water Valve Leaks**

- Bar graph shows the water valve leaks reported
- The bar graph is stacked(dark blue) to show the pending leaks carried over from the previous month if any; bar graph(light blue) shows new water valve leaks reported for the given month
- Line graph denoted by (O) shows the number of valve leaks repaired per month

Dynamic Color Coding Legend

***	****
Red- when the actual is <b>lower</b> than 5% of budget or target	Red- when the actual is <b>higher</b> than 5% of budget or target
Yellow- when the actual is <b>within</b> 5% of budget or target	Yellow- when the actual is <b>within</b> 5% of budget or target
Green- when the actual is <b>equal to or higher</b> than budget or target	Green- when the actual is <b>equal to or lower</b> than budget or target

Symbols where the color code applies- (Δ, □)

**Non Revenue Water**

- Bar graph shows the volume of water purchased(dark blue) and water sold(light blue) per quarter
- Line graph denoted by (Δ, O) shows the Infrastructure Leakage Index(ILI) for the current and previous year

**Sewer Main Backups**

- Bar graph shows the sewer main backups reported
- The bar graph is stacked(dark blue) to show the pending backups carried over from the previous month if any; bar graph(light blue) shows new sewer main backups reported for the given month
- Line graph denoted by (O) shows the number of main backups resolved per month

**Sewer Lateral Backups**

- Bar graph shows the sewer lateral backups reported
- The bar graph is stacked(dark blue) to show the pending backups carried over from the previous month if any; bar graph(light blue) shows new sewer laterals backups reported for the given month
- Line graph denoted by (O) shows the number of lateral backups resolved per month

**Combined Sewer dry weather Overflow (CSO) Events**

- Bar graph shows dry weather CSO events per month
- Line graph denoted by (O) shows the volume in Million Gallons(MG) per dry weather CSO event

**Open Positions**

- Bar graph (dark blue) shows open positions carried over from the previous month.
- Bar graph (light blue) shows new positions added in the given month.
- Bar graph (olive green) shows positions filled in the given month.
- Bar graph (orange) shows positions cancelled in the given month.
- Bar graph (light green) shows net remaining open positions at the end of the given month.

**Electricity Usage Summary**

- Bar graph shows total electricity consumption per month

**Electricity Usage by Service Area**

- Shows a monthly breakdown by service area of electricity usage
- Dark blue shows for Waste Water Treatment Service Area
- Light blue shows Water Pumping Service Area
- Brown shows Sewer Pumping Service Area

**Employee Lost Time Incidence Rate**

- Bar graph shows quarterly Employee Lost Time (LT) incidence rate as compared to the National average LT rate of 2.0; indicated by grey dotted line. Light blue represents the previous year, brown represents the year before previous and dark blue the current fiscal year.
- Scatter graph denoted by (Δ, O) shows the number of Lost Time accidents and comparison is also made between the current year and the previous years.

**Contractor Lost Time Incidence Rate**

- Bar graph shows quarterly Contractor Lost Time (LT) incidence rate. Light blue represents the previous year, brown represents the year before previous and dark blue the current fiscal year.
- Scatter graph denoted by (Δ, O) shows the number of Lost Time accidents and comparison is also made between the current year and the previous years.

Dynamic Color Coding Legend

***	****
<p><b>Red-</b> when the actual is <b>lower</b> than 5% of budget or target</p> <p><b>Yellow-</b> when the actual is <b>within</b> 5% of budget or target</p> <p><b>Green-</b> when the actual is <b>equal to or higher</b> than budget or target</p>	<p><b>Red-</b> when the actual is <b>higher</b> than 5% of budget or target</p> <p><b>Yellow-</b> when the actual is <b>within</b> 5% of budget or target</p> <p><b>Green-</b> when the actual is <b>equal to or lower</b> than budget or target</p>

Symbols where the color code applies- (Δ, □)

**Vendor Payment Performance**

- Bar graph shows monthly Vendor Payment Performance percentage against monthly target of 97%; indicated by grey dotted line. This element is dynamically color coded\*\*
- Line graph denoted by (O) shows the YTD vendor payment performance %.

Dynamic Color Coding Legend

***	****
<p><b>Red-</b> when the actual is <b>lower</b> than 5% of budget or target</p> <p><b>Yellow-</b> when the actual is <b>within</b> 5% of budget or target</p> <p><b>Green-</b> when the actual is <b>equal to or higher</b> than budget or target</p>	<p><b>Red-</b> when the actual is <b>higher</b> than 5% of budget or target</p> <p><b>Yellow-</b> when the actual is <b>within</b> 5% of budget or target</p> <p><b>Green-</b> when the actual is <b>equal to or lower</b> than budget or target</p>

Symbols where the color code applies- (Δ, □)

E



**Consent Agenda**

**Summary of Contracts**

**243<sup>rd</sup> Meeting of the DC Water Board of Directors**

**Thursday, June 7, 2018**

**Joint Use Contracts**

- 1. Resolution No. 18-41, Execute Option Year Two of Contract No. 16-PR-DWT-13A, Urban Service Systems Corporation** - The purpose of the option is to provide all necessary labor, supervision, equipment, materials, tools, insurance and personnel for hauling and roll-off trailers of grit, screenings and scum. The option amount is \$1,018,000. **(Recommended by Environmental Quality and Operations Committee 05/17/18)**
  
- 2. Resolution No. 18-42, Approval of Additional Funding to Option Year One and Execute Option Year Two of Contract No. 16-PR-DWT-41A, Colonial Chemicals, Inc.** The additional funding for Option Year One in the amount of \$1,315,000 was due to the methanol seasonal winter pricing being greater than expected. Option Year Two of the contract in the amount of \$5,940,000 is to continue the supply and delivery of methanol to the Blue Plains Wastewater Treatment Plant. The total contract amount is \$7,255,000. **(Recommended by Environmental Quality and Operations Committee 05/17/18)**
  
- 3. Resolution No. 18-43, Approval of Additional Funding to Option Year One and Execute Option Year Two of Contract No. 16-PR-DWT-41B, Mitsubishi International Corp.** The additional funding for Option Year One in the amount of \$681,000 was due to the methanol seasonal winter pricing being greater than expected. Option Year Two of the contract in the amount of \$1,978,000 is to continue the supply and delivery of methanol to the Blue Plains Wastewater Treatment Plant. The total contract amount is \$2,659,000. **(Recommended by Environmental Quality and Operations Committee 05/17/18)**
  
- 4. Resolution No. 18-44, Approval to Execute Contract No. DCFA-495-WSA, Brown and Caldwell.** The purpose of the contract is to provide conceptual design, final design, services during bidding, and services during construction, NEPA Compliance,

and other permitting needs. The contract amount is \$6,000,000. **(Recommended by Environmental Quality and Operations Committee 05/17/18)**

5. **Resolution No. 18-45, Approval to Execute Contract No. 140100, Marbury Point Solar LLC.** The purpose of the 20-year contract with an option to renew for 5 years is for the purchase of solar power generated at Blue Plains Advanced Wastewater Treatment Plant through the installation of solar panels at a rate less than the Utility rate. The 20-year contract amount is \$2,727,169. **(Recommended by Environmental Quality and Operations Committee 05/17/18)**
6. **Resolution No. 18-46, Approval to Execute Contract No. 17-PR-CFO-20A, 20B, 20C, Alliant Insurance Services.** The purpose of the contract is to provide various types of insurance brokerage services to DC Water including Property, Flood, Cyber, Pollution, Excess Liability, Worker's Compensation, Employment Practices, Public Officials, Crime and Fidelity Fiduciary. The contract not-to-exceed amount is \$3,220,000. **(Recommended by Finance and Budget Committee 05/24/18)**

#### **Non-Joint Use Contracts**

1. **Resolution No. 18-47, Approval to Execute Contract No. 170020, Northeast Remsco Construction, Inc.** The purpose of the contract is to install inspection ports and cathodic protection for a 66-inch steel water main. The contract amount is \$5,117,900. **(Recommended by Environmental Quality and Operations Committee 05/17/18)**
2. **Resolution No. 18-48, Approval to Execute Contract No. 170020, Northeast Remsco Construction, Inc.** The purpose of the contract is to install inspection ports and cathodic protection for a 66-inch steel water main. The contract amount is \$5,117,900. **(Recommended by Environmental Quality and Operations Committee 05/17/18)**

**Presented and Approved: June 7, 2018**

**SUBJECT: Approval to Execute Option Year Two of Contract No. 16-PR-DWT-13A, Urban Service Systems Corporation**

**#18-41  
RESOLUTION  
OF THE  
BOARD OF DIRECTORS  
OF THE  
D.C. WATER AND SEWER AUTHORITY**

The Board of Directors ("Board") of the District of Columbia Water and Sewer Authority ("the Authority") at its meeting on June 7, 2018 upon consideration of a joint use matter, decided by a vote of \_\_\_() in favor and \_\_\_() opposed to execute Option Year Two of Contract No. 16-PR-DWT-13A, Urban Service Systems Corporation.

**Be it resolved that:**

The Board of Directors hereby authorizes the General Manager to execute Option Year Two of Contract No. 16-PR-DWT-13A, Urban Service Systems Corporation. The purpose of the option is to provide all necessary labor, supervision, equipment, materials, tools, insurance and personnel for hauling and roll-off trailers of grit, screenings and scum. The option amount is \$1,018,000.

This Resolution is effective immediately.

\_\_\_\_\_  
Secretary to the Board of Directors

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

**ACTION REQUESTED**

**GOODS AND SERVICES CONTRACT OPTION YEAR**

**Solids Screening Facility Hauling  
(Joint Use)**

Approval to exercise option year two (2) for the hauling of grit and scum from the solids screening facility in the amount of \$1,018,000.00.

**CONTRACTOR/SUB/VENDOR INFORMATION**

<b>PRIME:</b> Urban Service Systems Corporation 212 Van Buren St., NW Washington, D.C. 20012 LBE	<b>SUBS:</b> N/A	<b>PARTICIPATION:</b> N/A
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**DESCRIPTION AND PURPOSE**

<b>Original Contract Value:</b>	\$900,000.00
<b>Original Contract Dates:</b>	04-18-2016 – 04-17-2017
<b>No. of Option Years in Contract:</b>	4
<b>Option Year 1 Value:</b>	\$850,000.00
<b>Option Year 1 Dates:</b>	06-19-2017 – 06-18-2018
<b>Prior Modification Value:</b>	\$235,352.06
<b>Prior Modification Dates:</b>	04-18-2017 – 06-18-2018
<b>Option Year 2 Value:</b>	\$1,018,000.00
<b>Option Year 2 Dates:</b>	06/19/2018 – 06/18/2019

**Purpose of the Contract:**

This contract provides DC Water’s Department of Wastewater Treatment (WWT) and Department of Distribution & Conveyance Systems (DDCS) with hauling/disposal services for grit/scum collected at the Solids Screening Facility. The Contractor manages the liquids that may collect in the trailers and oversees the proper disposal of these liquid. The Contractor also manages the weighing and hauling of the trailers to a permitted disposal site (sanitary landfill).

**Contract Scope:**

The Contractor shall provide all necessary labor, supervision, equipment, materials, tools, insurance and personnel for the hauling and roll-off trailers of grit, screenings and scum. The Contractor shall perform the services in areas located where DC Water’s grit, scum and screening conveyance and loading systems are actively operating. This process requires continuous availability and monitoring of the trailers and dumpsters located under the loading chutes to collect the residuals.

The requested funding will cover forecasted disposal services at all DC Water facilities, where necessary.

**Spending Previous Year:**

Cumulative Contract Value:	04-18-2016 to 06-18-2018: \$1,985,352.00
Cumulative Contract Spending:	04-18-2016 to 04-04-2018: \$1,573,625.90

**Contractor’s Past Performance:**

According to the COTR, the Contractor’s quality of workmanship; timeliness of deliverables; conformance to DC Water’s policies, procedures and contract terms; and invoicing all meet expectations.

**PROCUREMENT INFORMATION**

<b>Contract Type:</b>	Fixed Price	<b>Award Based On:</b>	Best Value
<b>Commodity:</b>	Services	<b>Contract Number:</b>	16-PR-DWT-13A
<b>Contractor Market:</b>	Open Market with Preference Points for LBE and LSBE participation		

**BUDGET INFORMATION**

<b>Funding:</b>	Operating	<b>Department:</b>	WWT
<b>Service Area:</b>	Blue Plains	<b>Department Head:</b>	Salil Kharkar

**ESTIMATED USER SHARE INFORMATION**

User	Share %	Dollar Amount
District of Columbia	41.90	\$359,502.00
Washington Suburban Sanitary Commission	43.10	\$369,798.00
Fairfax County	9.59	\$82,282.20
Loudoun Water	4.64	\$39,811.20
Other (PI)	0.77	\$6,606.60
<b>TOTAL ESTIMATED DOLLAR AMOUNT</b>	<b>100.00</b>	<b>\$858,000.00</b>

**BUDGET INFORMATION**

<b>Funding:</b>	Operating	<b>Department:</b>	DDCS
<b>Service Area:</b>	District of Columbia	<b>Department Head:</b>	Charles Sweeney

**ESTIMATED USER SHARE INFORMATION**

User	Share %	Dollar Amount
District of Columbia	100.00%	\$160,000.00
Washington Suburban Sanitary Commission	0.00%	\$0.00
Fairfax County	0.00%	\$0.00
Loudoun Water	0.00%	\$0.00
Other (PI)	0.00%	\$0.00
<b>TOTAL ESTIMATED DOLLAR AMOUNT</b>	<b>100.00%</b>	<b>\$160,000.00</b>

 5/6/18  
 Akilile Tesfaye  
 Assistant General Manager,  
 Blue Plains  
 Date

 5/9/18  
 Matthew T. Brown  
 Chief Financial Officer  
 Date

 5/8/18  
 Charles Kiely  
 Assistant General Manager,  
 Customer Care & Operations  
 Date

 5/24/18  
 Henderson J. Brown  
 Interim General Manager  
 Date

 5/8/18  
 Dan Bae  
 Director of Procurement  
 Date



**Presented and Approved: June 7, 2018**

**SUBJECT: Approval of Additional Funding to Option Year One and  
Execute Option Year Two of Contract No. 16-PR-DWT-41A,  
Colonial Chemicals, Inc.**

**#18-42  
RESOLUTION  
OF THE  
BOARD OF DIRECTORS  
OF THE  
D.C. WATER AND SEWER AUTHORITY**

The Board of Directors ("Board") of the District of Columbia Water and Sewer Authority ("the Authority") at its meeting on June 7, 2018 upon consideration of a joint use matter, decided by a vote of \_\_\_() in favor and \_\_\_() opposed to add funding for Option Year One and execute Option Year Two of Contract No. 16-PR-DWT-41A, Colonial Chemicals, Inc.

**Be it resolved that:**

The Board of Directors hereby authorizes the General Manager to add funding to Option Year One and execute Option Year Two of Contract No. 16-PR-DWT-41A, Colonial Chemicals, Inc. The additional funding for Option Year One in the amount of \$1,315,000 was due to the methanol seasonal winter pricing being greater than expected. Option Year Two of the contract in the amount of \$5,940,000 is to continue the supply and delivery of methanol to the Blue Plains Wastewater Treatment Plant. The total contract amount is \$7,255,000.

This Resolution is effective immediately.

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Secretary to the Board of Directors

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

**ACTION REQUESTED**

**GOODS AND SERVICES CONTRACT OPTION YEAR  
Supply and Delivery of Methanol  
(Joint Use)**

This contract action is to add \$1,315,000 in funds to the option year one (1), and execute option year two (2) in the amount of \$5,940,000. For the combined total of \$7,255,000.

**CONTRACTOR/SUB/VENDOR INFORMATION**

<b>PRIME:</b> Colonial Chemicals, Inc. 916 West Lathrop Avenue Savannah, GA 31415	<b>SUBS:</b> N/A	<b>PARTICIPATION:</b> N/A
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**DESCRIPTION AND PURPOSE**

Base Period Contract Value:	\$5,363,280.00
Base Contract Period:	08-07-2016 – 08-06-2017
No. of Option Years:	2
Prior Modification Value:	\$490,000.00
Prior Modification Dates:	06-01-2017 – 06-30-2017
Option Year 1 Value:	\$7,052,000.00
Option Year 1 Dates:	07-01-2017 – 08-06-2018
<b>Option Year 1 Modification Value:</b>	<b>\$1,315,000.00</b>
<b>Option Year 1 Modification Dates:</b>	<b>06-01-2018 – 08-06-2018</b>
<b>Option Year 2 Value:</b>	<b>\$5,940,000.00</b>
<b>Option Year 2 Dates:</b>	<b>08-07-2018 – 08-06-2019</b>

**Purpose of the Contract:**

To secure the consistent supply and delivery of methanol to the Blue Plains Advanced Wastewater Treatment Plant. DC Water dual-sources methanol to assure continuity of supply. Colonial Chemical was awarded 75% of our volume requirements, and Mitsubishi was awarded 25%.

**Contract Scope:**

DC Water consumes methanol continuously: it is the nutrient for bacteria in the Nitrification section of Blue Plains, where nitrogen is removed to comply with DC Water’s environmental permits as required by the EPA.

This contract action is to add additional funding for option year 1 in the amount of \$1,315,000, and exercising option year 2 in the amount of \$5,940,000. Option year 1 funding will be depleted sooner than anticipated for our methanol consumption has been above projected plan, and because the methanol seasonal winter pricing was greater than expected. The industry forecasts that the supply of methanol will become stable, which is expected to stabilize pricing during option year 2. The option year 1 amount currently exceeds the budget available for this contract, and the anticipated cost reductions in other line items will be used, as needed.

**Spending Previous Year:**

Cumulative Contract Value:	08-07-2016 to 08-06-2018: \$12,905,280.00
Cumulative Contract Spending:	08-07-2016 to 04-26-2018: \$11,906,635.00

**Contractor’s Past Performance:**

According to the COTR, the Contractor’s quality of products and services, timeliness of deliverables; conformance to DC Water’s policies, procedures and contract terms; and invoicing all meet expectations and requirements.

No LBE/LSBE participation.

**PROCUREMENT INFORMATION**


<b>Contract Type:</b>	Fixed Price Requirement Contract	<b>Award Based On:</b>	Lowest Cost Technically Acceptable Offeror
<b>Commodity:</b>	Goods and Services	<b>Contract Number:</b>	16-PR-DWT-41A
<b>Contractor Market:</b>	Open Market with Preference Points for LBE and LSBE Participation		

**BUDGET INFORMATION**

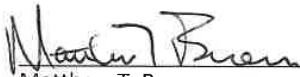
<b>Funding:</b>	Operating	<b>Department:</b>	Wastewater Treatment
<b>Service Area:</b>	Blue Plains AWTP	<b>Department Head:</b>	Salil Kharkar

**ESTIMATED USER SHARE INFORMATION**

User	Share %	Dollar Amount
District of Columbia	41.90%	\$3,039,845.00
Washington Suburban Sanitary Commission	43.10%	\$3,126,905.00
Fairfax County	9.59%	\$695,754.50
Loudoun Water	4.64%	\$336,632.00
Other (PI)	0.77%	\$55,863.50
<b>TOTAL ESTIMATED DOLLAR AMOUNT</b>	<b>100.00%</b>	<b>\$7,255,000.00</b>

 / 5/8/18  
 Akile Tesfaye  
 Assistant General Manager,  
 Blue Plains  
 Date

 / 5/8/17  
 Dan Bae  
 Director of Procurement  
 Date

 / 5/10/18  
 Matthew T. Brown  
 Chief Financial Officer  
 Date

 / 5/24/18  
 Henderson J. Brown IV  
 Interim General Manager  
 Date

**Presented and Approved: June 7, 2018**

**SUBJECT: Approval of Additional Funding to Option Year One and  
Execute Option Year Two of Contract No. 16-PR-DWT-41B,  
Mitsubishi International Corp.**

**#18-43  
RESOLUTION  
OF THE  
BOARD OF DIRECTORS  
OF THE  
D.C. WATER AND SEWER AUTHORITY**

The Board of Directors ("Board") of the District of Columbia Water and Sewer Authority ("the Authority") at its meeting on June 7, 2018 upon consideration of a joint use matter, decided by a vote of \_\_() in favor and \_\_() opposed to add funding for Option Year One and execute Option Year Two of Contract No. 16-PR-DWT-41B, Mitsubishi International Corp.

**Be it resolved that:**

The Board of Directors hereby authorizes the General Manager to add funding to Option Year One and execute Option Year Two of Contract No. 16-PR-DWT-41B, Mitsubishi International Corp. The additional funding for Option Year One in the amount of \$681,000 was due to the methanol seasonal winter pricing being greater than expected. Option Year Two of the contract in the amount of \$1,978,000 is to continue the supply and delivery of methanol to the Blue Plains Wastewater Treatment Plant. The total contract amount is \$2,659,000.

This Resolution is effective immediately.

\_\_\_\_\_  
Secretary to the Board of Directors

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

**ACTION REQUESTED**

**GOODS AND SERVICES CONTRACT OPTION YEAR  
Supply and Delivery of Methanol  
(Joint Use)**

This contract action is to add \$681,000 in funds to the option year one (1), and execute option year two (2) in the amount of \$1,978,000. For the combined total of \$2,659,000.

**CONTRACTOR/SUB/VENDOR INFORMATION**

<b>PRIME:</b> Mitsubishi International Corp. 655 Third Avenue New York, NY 10017	<b>SUBS:</b> N/A	<b>PARTICIPATION:</b> N/A
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**DESCRIPTION AND PURPOSE**

Base Period Contract Value:	\$1,925,000.00
Base Contract Period:	08-07-2016 – 08-06-2017
No. of Option Years:	2
Prior Modification Value:	\$74,000.00
Prior Modification Dates:	06-01-2017 – 06-30-2017
Option Year 1 Value:	\$2,373,000.00
Option Year 1 Dates:	07-01-2017 – 08-06-2018
<b>Option Year 1 Modification Value:</b>	<b>\$681,000.00</b>
<b>Option Year 1 Modification Dates:</b>	<b>06-01-2018 – 08-06-2018</b>
<b>Option Year 2 Value:</b>	<b>\$1,978,000.00</b>
<b>Option Year 2 Dates:</b>	<b>08-07-2018 – 08-06-2019</b>

**Purpose of the Contract:**

To secure the consistent supply and delivery of methanol to the Blue Plains Advanced Wastewater Treatment Plant. DC Water dual-sources methanol to assure continuity of supply. Colonial Chemical was awarded 75% of our volume requirements, and Mitsubishi was awarded 25%

**Contract Scope:**

DC Water consumes methanol continuously: it is the nutrient for bacteria in the Nitrification section of Blue Plains, where nitrogen is removed to comply with DC Water’s environmental permits as required by the EPA.

This contract action is to add additional funding for option year 1 in the amount of \$681,000, and exercising option year 2 in the amount of \$1,978,000. Option year 1 funding will be depleted sooner than anticipated for our methanol consumption has been above projected plan, and because the methanol seasonal winter pricing was greater than expected. The industry forecasts that the supply of methanol will become stable, which is expected to stabilize pricing during option year 2. The option year 1 amount currently exceeds the budget available for this contract, and the anticipated cost reductions in other line items will be used, as needed.

**Spending Previous Year:**

Cumulative Contract Value:	08-07-2016 to 08-06-2018: \$4,372,040.00
Cumulative Contract Spending:	08-07-2016 to 04-26-2018: \$4,106,449.00

**Contractor’s Past Performance:**

According to the COTR, the Contractor’s quality of products and services, timeliness of deliverables; conformance to DC Water’s policies, procedures and contract terms; and invoicing all meet expectations and requirements.

No LBE/LSBE participation.

**PROCUREMENT INFORMATION**


<b>Contract Type:</b>	Fixed Price Requirement Contract	<b>Award Based On:</b>	Lowest Cost Technically Acceptable Offeror
<b>Commodity:</b>	Goods and Services	<b>Contract Number:</b>	16-PR-DWT-41B
<b>Contractor Market:</b>	Open Market with Preference Points for LBE and LSBE Participation		

**BUDGET INFORMATION**

<b>Funding:</b>	Operating	<b>Department:</b>	Wastewater Treatment
<b>Service Area:</b>	Blue Plains AWTP	<b>Department Head:</b>	Salil Kharkar

**ESTIMATED USER SHARE INFORMATION**

User	Share %	Dollar Amount
District of Columbia	41.90%	\$1,114,121.00
Washington Suburban Sanitary Commission	43.10%	\$1,146,029.00
Fairfax County	9.59%	\$254,998.10
Loudoun Water	4.64%	\$123,377.60
Other (PI)	0.77%	\$20,474.30
<b>TOTAL ESTIMATED DOLLAR AMOUNT</b>	<b>100.00%</b>	<b>\$2,659,000.00</b>

 / 5/18/18  
 Akilile Tesfaye  
 Assistant General Manager,  
 Blue Plains  
 Date

 / 5/8/18  
 Dan Bae  
 Director of Procurement  
 Date

 / 5/10/18  
 Matthew T. Brown  
 Chief Financial Officer  
 Date

 / 5/24/18  
 Henderson J. Brown IV  
 Interim General Manager  
 Date

**Presented and Approved: June 7, 2018**

**SUBJECT: Approval to Execute Contract No. DCFA-495-WSA, Brown and Caldwell**

**#18-44  
RESOLUTION  
OF THE  
BOARD OF DIRECTORS  
OF THE  
D.C. WATER AND SEWER AUTHORITY**

The Board of Directors ("Board") of the District of Columbia Water and Sewer Authority ("the Authority") at its meeting on June 7, 2018 upon consideration of a joint use matter, decided by a vote of \_\_\_() in favor and \_\_\_() opposed to execute Contract No. DCFA-495-WSA, Brown and Caldwell.

**Be it resolved that:**

The Board of Directors hereby authorizes the General Manager to execute Contract No. DCFA-495-WSA, Brown and Caldwell. The purpose of the contract is to provide conceptual design, final design, services during bidding, and services during construction, NEPA Compliance, and other permitting needs. The contract amount is \$6,000,000.

This Resolution is effective immediately.

\_\_\_\_\_  
Secretary to the Board of Directors

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

**ACTION REQUESTED**

**ENGINEERING SERVICES:**

**Basic Ordering Agreement - Infrastructure and Environmental Assessment  
(Joint Use)**

Approval to execute an architectural and engineering services contract for \$6,000,000.

**CONTRACTOR/SUB/VENDOR INFORMATION**

<b>PRIME:</b>	<b>SUBS:</b>	<b>PARTICIPATION:</b>
Brown and Caldwell 1600 Duke Street Suite 310 Alexandria, VA 22314  <u>Headquarters</u> Walnut Creek, CA 94596	C.C. Johnson & Malhotra, PC Washington, DC	MBE 10.0%
	Savin Engineers, P.C. Landover, MD	MBE 8.0%
	Chesapeake Environmental Management, Inc. Bel Air, MD	MBE 6.0%
	Somat Engineering, Inc. Washington, DC	MBE 4.0%
	SZ PM Consultants, Inc. Washington, DC	WBE 4.0%
	Johnson, Mirmiran & Thompson, Inc. Washington, DC	14.0%
	Simpson Gumpertz & Heger Washington, DC	2.0%
	Frèchette Engineering, LLC LaPlata, MD	1.0%

**DESCRIPTION AND PURPOSE**

Contract Value, Not-To-Exceed: \$6,000,000  
 Contract Time: 2,555 Days (7 Years, 0 Months)  
 Anticipated Contract Start Date: 07-02-2018  
 Anticipated Contract Completion Date: 06-30-2025

Other firms submitting proposals/qualification statements:

Carollo*	Rummel, Klepper & Kahl, LLP
Delon Hampton & Associates (WRA)	Stantec
Dewberry	Whitman, Requardt & Associates, LLP (WRA)*
Hazen and Sawyer	

\* Asterisk indicates short listed firms.

**Purpose of the Contract:**

The consultant will provide conceptual design, final design, services during bidding, and services during construction, NEPA Compliance, and other permitting needs. Projects will be located in the water distribution and sewer collection systems throughout the District of Columbia as well as Montgomery, Fairfax, and Loudoun Counties. Projects are likely to include rehabilitation and replacement of water and sewer pipelines.

**Contract Scope:**

- Design for the rehabilitation and/or relocation of sewer and water pipeline infrastructure that could require bypass pumping up to 130 million gallons per day.



- Services anticipated include civil engineering; structural engineering; bidding services; topographical survey; subsurface utility engineering, research of easement, and other access rights; geotechnical and/or geophysical investigation; NEPA compliance; wetlands and other environmental permitting and design.

**PROCUREMENT INFORMATION**

<b>Contract Type:</b>	Lump Sum /Cost Plus Fixed Fee	<b>Award Based On:</b>	Highest Ranking Score
<b>Commodity:</b>	Engineering Design Services	<b>Contract Number:</b>	DCFA-495-WSA
<b>Contractor Market:</b>	Open Market		


**BUDGET INFORMATION**

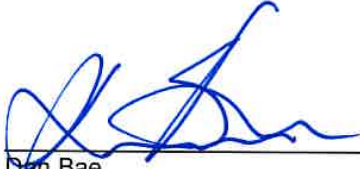
<b>Funding:</b>	Capital	<b>Department:</b>	Engineering and Technical Services'
<b>Service Area:</b>	Sewer and Water	<b>Department Head:</b>	Craig Fricke
<b>Project:</b>	LZ, IK, IE		

**\*ESTIMATED USER SHARE INFORMATION**

User	Share %	Dollar Amount
District of Columbia	100.00%	\$ 6,000,000.00
Federal Funds	0.00%	\$
Washington Suburban Sanitary Commission	0.00%	\$
Fairfax County	0.00%	\$
Loudoun County & Potomac Interceptor	0.00%	\$
<b>Total Estimated Dollar Amount</b>	<b>100.00%</b>	<b>\$ 6,000,000.00</b>

\* Work under this contract will be assigned as needed under specific task orders. It is anticipated that Joint Use work may be assigned during the contract period. As tasks are developed for work associated with specific facilities and costs are developed, the individual users will be notified and billed according to agreed cost sharing.

 / 5-9-18 / Date  
 Leonard R. Benson  
 Chief Engineer

 / 5/14/18 / Date  
 Dan Bae  
 Director of Procurement

 / 5/14/18 / Date  
 Matthew T. Brown  
 Chief Financial Officer

 / 5/24/18 / Date  
 Henderson J. Brown, IV  
 Interim CEO and General Manager

**Presented and Approved: June 7, 2018**

**SUBJECT: Approval to Execute Contract No. 140100, Marbury Point Solar LLC**

**#18-45  
RESOLUTION  
OF THE  
BOARD OF DIRECTORS  
OF THE  
D.C. WATER AND SEWER AUTHORITY**

The Board of Directors ("Board") of the District of Columbia Water and Sewer Authority ("the Authority") at its meeting on June 7, 2018 upon consideration of a joint use matter, decided by a vote of \_\_\_() in favor and \_\_\_() opposed to execute Contract No. 140100, Marbury Point Solar LLC a 20-year contract for solar power purchase at Blue Plains.

**Be it resolved that:**

The Board of Directors hereby authorizes the General Manager to execute Contract No. 140100, Marbury Point Solar LLC a 20-year contract for solar power purchase at Blue Plains. The purpose of the 20-year contract with an option to renew for 5 years is for the purchase of solar power generated at Blue Plains Advanced Waste Water Treatment Plant through the installation of solar panels at a rate less than the Utility rate. The 20-year contract amount is \$2,727,169.

This Resolution is effective immediately.

\_\_\_\_\_  
Secretary to the Board of Directors

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

**ACTION REQUESTED**

**GOODS AND SERVICES CONTRACT:**

**Solar Power Purchase Agreement  
(Joint Use)**

Approval to execute a 20-year contract for solar power purchase at Blue Plains with a 20-year amount of \$2,727,169 covering only the purchase of energy. The Provider shall retain the ownership and operation of the solar facilities delivering the power.

**CONTRACTOR/SUB/VENDOR INFORMATION**

<b>PRIME:</b>	<b>SUBS:</b>	<b>PARTICIPATION:</b>
Marbury Point Solar LLC 101 Constitution Ave. NW Suite 525 East Washington, DC 20001  <u>Headquarters</u> Framingham, MA 01701	*MBE/WBE Planned Goals:  <b>**Design     \$ 1,055,900.00</b> MBE     \$ 295,652.00 WBE     \$ 42,236.00  <b>**Construction     \$15,258,012.00</b> MBE     \$ 4,882,564.00 WBE     \$ 915,481.00  Total Eligible     \$16,313,912.00 MBE/WBE Total     \$ 6,135,933.00	28.0% 4.0%  32.0% 6.0%

\* Final sub-contracts for work to be undertaken are still being negotiated by Contractor. However, they have identified categories where MBE and WBE firms will be selected to perform the work. As contractor is still in final negotiations with sub-contractors, the specific names of firms selected have not been finalized. Marbury has committed to meet or exceed the above stated goals for MBE and WBE.

\*\* MBE and WBE goals are based on the design and construction costs which are the sole responsibility of the contractor. This fact sheet, is only for the Power Purchase Agreement operational costs.

**DESCRIPTION AND PURPOSE**

Contract Value, 20-year amount:	\$2,727,169
Contract Time:	7300 Days     (20 Years, 0 Months)
Anticipated Contract Start Date:	07-18-2018     (Design-Build Start) 02-26-2020     (Commercial Operation Date)
Anticipated Contract Completion Date:	02-26-2040
Proposal Opening Date:	03-23-2018
Proposal Received:	2
Other firms submitting qualification statements:	
ConEdison	*** Standard Solar
ForeFront Power	Sun Power
*** groSolar	Tesla Energy
Johnson Controls	True Green Capital
*** Silicon Ranch – Hexagon	Vitrol URH
*** Sol Systems	

\*\*\* Asterisks indicate short-listed firms.

**Purpose of the Contract**

Provide a 20-year contract with an option to renew for 5 years for the purchase of solar power generated at Blue Plains Advanced Waste Water Treatment Plant through the installation of solar panels at a rate less than the Utility rate.

**Contract Scope:**

- Provide new roofs on the following buildings:
  - Solids Processing Building – Dissolved Air Flotation Thickeners (DAFT) Area
  - Central Maintenance Facility
  - Metal Salts Building

- Provide solar panels over the following buildings:
  - Solids Processing Building – DAFT and old Vacuum Filter Areas
  - Central Maintenance Facility
  - Grit Chamber Buildings 1 and 2
  - Chemical Building (Metal Salts) Building
  - Nitrification Blower Building and the Denitrification Electrical Building
- Provide solar panels over the following open areas:
  - East Perimeter Grass
  - Patch North of the Denitrification Pump Station
- Provide solar panels over the following parking lots:
  - Central Maintenance and Central Operation Facilities
  - Visitor Center Warehouse
  - Dock and Flood Wall
- Provide Intermediate Design for solar panels over the following Process Facilities:
  - West and East Secondary Sedimentation Basins
  - Dual Purpose and Nitrification Sedimentation Basins
  - Filtration and Disinfection Facility
- Provide guaranteed energy to DC Water for every year of the contract term. The first year Annual Guaranteed Energy Output is 5,202 MWh at \$0.025 / kWh.

**PROCUREMENT INFORMATION**



<b>Contract Type:</b>	Fixed Price	<b>Award Based On:</b>	Best Value, responsible bidder
<b>Commodity:</b>	Goods	<b>Contract Number:</b>	140100
<b>Contractor Market:</b>	Open Market		



**BUDGET INFORMATION**


<b>Funding:</b>	Operations	<b>Department:</b>	Wastewater Treatment
<b>Service Area:</b>	Wastewater	<b>Department Head:</b>	Aklile Tesfaye

**ESTIMATED USER SHARE INFORMATION**

User	Share %	Dollar Amount
District of Columbia	41.90%	\$ 1,142,683.81
Washington Suburban Sanitary Commission	43.10%	\$ 1,175,409.84
Fairfax County	9.59%	\$ 261,535.51
Loudoun County	4.64%	\$ 126,540.64
Potomac Interceptor	0.77%	\$ 20,999.20
<b>Total Estimated Dollar Amount</b>	<b>100.00%</b>	<b>\$ 2,727,169.00</b>


5-10-18 / Date
 
5/10/18 / Date  
 Leonard R. Benson, Chief Engineer      Dan Bae, Director of Procurement


5-10-18 / Date
 
5/24/18 / Date  
 Aklile Tesfaye, Assistant General Manager      Henderson J. Brown, IV, Interim CEO and General Manager


5/10/18 / Date  
 Matthew T. Brown, Chief Financial Officer

**Presented and Approved: June 7, 2018**

**SUBJECT: Approval to Execute Contract No. 17-PR-CFO-20A, 20B, 20C, Alliant Insurance Services**

**#18-46  
RESOLUTION  
OF THE  
BOARD OF DIRECTORS  
OF THE  
D.C. WATER AND SEWER AUTHORITY**

The Board of Directors ("Board") of the District of Columbia Water and Sewer Authority ("the Authority") at its meeting on June 7, 2018 upon consideration of a joint use matter, decided by a vote of \_\_\_() in favor and \_\_\_() opposed to execute Contract No. 17-PR-CFO-20A, 20B, 20C, Alliant Insurance Services.

**Be it resolved that:**

The Board of Directors hereby authorizes the General Manager to execute Contract No. 17-PR-CFO-20A, 20B, 20C, Alliant Insurance Services. The purpose of the contract is to provide various types of insurance brokerage services to DC Water including Property, Flood, Cyber, Pollution, Excess Liability, Worker's Compensation, Employment Practices, Public Officials, Crime and Fidelity Fiduciary. The contract not-to-exceed amount is \$3,220,000.

This Resolution is effective immediately.

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Secretary to the Board of Directors

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

**ACTION REQUESTED**

**GOODS AND SERVICES CONTRACT MODIFICATION**

**Property and Casualty Insurance Premiums  
(Joint Use-Indirect)**

Approval to spend the total not to exceed amount of \$3,220,000.00 on the property and casualty insurance premiums through DC Water’s brokers of record in. This action requests authorization to pay future property and casualty insurance premiums consistent with the approved future year’s budget.

**CONTRACTOR/SUB/VENDOR INFORMATION**

<b>PRIME:</b>	<b>SUBS:</b>	<b>PARTICIPATION:</b>
Alliant Insurance Services 100 Pine Street, 11 <sup>th</sup> Floor San Francisco, CA 94111	N/A	N/A
Aon Risk Solutions, Inc., of Washington, DC 1120 20 <sup>th</sup> Street, NW Washington, DC 20036	N/A	N/A
Willis of Maryland, Inc. 12505 Park Potomac Avenue, Suite 300 Potomac, MD 20854	N/A	N/A

**DESCRIPTION AND PURPOSE**

**Estimated Annual Premium Values:**      **\$3,220,000.00**  
**Premium Dates:**                              **07-01-2018 – 06-30-2019**

**Scope of Broker Services:**

Three (3) commercial insurance brokers were selected through a competitive Request for Proposal (RFP) process to provide various types of insurance brokerage services to DC Water including Property, Flood, Cyber, Pollution, Excess Liability, Worker’s Compensation, Employment Practices, Public Officials, Crime and Fidelity and Fiduciary. These three (3) brokers will market/negotiate DC Water’s insurance requirements and compete with each other to bring DC Water the best insurance coverages and premiums. Their annual broker fees are shown below if selected in all of the categories:

Insurance Brokerage Firm	Annual Fee
Alliant	\$124,420.00
Aon	\$138,020.00
Willis	\$143,500.00

**Contractor’s Past Performance:**

According to the COTR, the brokerage firm’s service level; timeliness of service delivery; conformance to DC Water’s risk management policies, procedures and contract terms; and invoicing all meet expectations.

No LBE/LSBE participation

**PROCUREMENT INFORMATION**

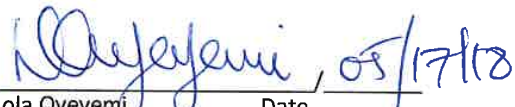
<b>Contract Type:</b>	Fixed Unit Price	<b>Award Based On:</b>	Highest Ranked Offerors
<b>Commodity:</b>	Services	<b>Contract Numbers:</b>	17-PR-CFO-20A, 20B, 20C
<b>Contractor Market:</b>	Open Market with Preference Points for LBE and LSBE Participation		


**BUDGET INFORMATION**


<b>Funding:</b>	Operating	<b>Department:</b>	Finance, Accounting and Budget
<b>Project Area:</b>	DC Water Wide	<b>Department Head:</b>	Ivan Boykin

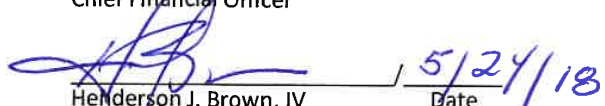
**ESTIMATED USER SHARE INFORMATION**

User – Operating	Share %	Dollar Amount
District of Columbia	83.75%	\$ 2,696,750.00
Washington Suburban Sanitary Commission	12.09%	\$ 389,298.00
Fairfax County	2.69%	\$ 86,618.00
Loudoun Water	1.30%	\$ 41,860.00
Other (PI)	0.17%	\$ 5,474.00
<b>TOTAL ESTIMATED DOLLAR AMOUNT</b>	<b>100.00%</b>	<b>\$3,220,000.00</b>

  
 Lola Oyeyemi Date 05/17/18  
 Director of Budget

  
 Dan Bag Date 5/17/18  
 Director of Procurement

  
 Matthew T. Brown Date 5/17/18  
 Chief Financial Officer

  
 Henderson J. Brown, IV Date 5/24/18  
 Interim General Manager

**Presented and Approved: June 7, 2018**  
**SUBJECT: Approval to Execute Contract No. 170020**  
**Northeast Remsco Construction, Inc.**

**#18-47**  
**RESOLUTION**  
**OF THE**  
**BOARD OF DIRECTORS**  
**OF THE**  
**D.C. WATER AND SEWER AUTHORITY**

The Board of Directors ("Board") of the District of Columbia Water and Sewer Authority ("the Authority") at its meeting on June 7, 2018 upon consideration of a non-joint use matter, decided by a vote of \_\_\_() in favor and \_\_\_() opposed to execute Contract No. 170020, Northeast Remsco Construction, Inc.

**Be it resolved that:**

The Board of Directors hereby authorizes the General Manager to execute Contract No. 170020, Northeast Remsco Construction, Inc. The purpose of the contract is to install inspection ports and cathodic protection for a 66-inch steel water main. The contract amount is \$5,117,900.

This Resolution is effective immediately.

\_\_\_\_\_  
Secretary to the Board of Directors



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

**ACTION REQUESTED**

**CONSTRUCTION CONTRACT:  
Low Service 66-Inch Steel Water Main  
(Non-Joint Use)**

Approval to execute a construction contract for \$5,117,900.00.

**CONTRACTOR/SUB/VENDOR INFORMATION**

<b>PRIME:</b>	<b>SUBS:</b>	<b>PARTICIPATION:</b>
Northeast Remsco Construction, Inc. 12815 Old Fort Road Suite 105 Fort Washington, MD 20744  <u>Headquarters</u> Farmingdale, NJ 07727	M. Barbosa Construction Rockville, Maryland	MBE 4.6%
	Atlas Foundations Temple Hills, Maryland	MBE 3.1%
	Pronto Paving Hyattsville, Maryland	MBE 2.1%
	East Star Transportation, LLC Upper Marlboro, Maryland	MBE 0.6%
	Williams Solutions Hagerstown, Maryland	MBE 0.4%
	Strum Contracting Company, Inc Baltimore, Maryland	MBE 0.4%
	Apex Petroleum, Corporation Largo, Maryland	MBE 0.3%
	Capitol Development Design, Inc Beltsville, Maryland	MBE 0.2%
	Atlantic Traffic Safety Ocean City, Maryland	WBE 6.8%
	R&R Contract Utilities, Inc Olney, Maryland	WBE 4.1%

**DESCRIPTION AND PURPOSE**

Contract Value, Not-To-Exceed:	\$5,117,900.00
Contract Time:	365 Days (1 Year)
Anticipated Contract Start Date (NTP):	07-05-2018
Anticipated Contract Completion Date:	07-05-2019
Bid Opening Date:	April 4, 2018
Bids Received:	6
Other Bids Received	
Garney Companies, Inc	\$ 5,271,000.00
Spiniello Companies	\$ 6,133,000.00
Anchor Construction	\$ 7,165,875.00
J. Fletcher Creamer & Sons	\$ 7,667,500.00
Corna Kokosing	\$ 7,724,450.00

**Purpose of the Contract:**

The installation of inspection ports and cathodic protection for a 66-inch steel water main. While the work is underway an opportunistic inspection and any required repairs of the 8,000 linear feet of the drained portion of the 3 mile waterline will take place.

**Contract Scope:**

- Construct 9 access/entry port and installation of a new 66-inch butterfly valve.
- Installation of cathodic protection system.
- Coordination with a third party inspection firm.
- Completion of minor repairs identified from the inspection.
- Maintenance of traffic and pavement restoration.

**Federal Grant Status:**

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

**PROCUREMENT INFORMATION**


<b>Contract Type:</b>	Fixed Price	<b>Award Based On:</b>	Lowest responsive, responsible bidder
<b>Commodity:</b>	Construction	<b>Contract Number:</b>	170020
<b>Contractor Market:</b>	Open Market		

**BUDGET INFORMATION**


<b>Funding:</b>	Capital	<b>Department:</b>	Engineering and Technical Services
<b>Service Area:</b>	Water	<b>Department Head:</b>	Craig Fricke
<b>Project:</b>	C9		

**ESTIMATED USER SHARE INFORMATION**


User	Share %	Dollar Amount
District of Columbia	100.00%	\$ 5,117,900.00
Federal Funds	0.00%	\$
Washington Suburban Sanitary Commission	0.00%	\$
Fairfax County	0.00%	\$
Loudoun County & Potomac Interceptor	0.00%	\$
<b>Total Estimated Dollar Amount</b>	<b>100.00%</b>	<b>\$ 5,117,900.00</b>


5-9-18
Date

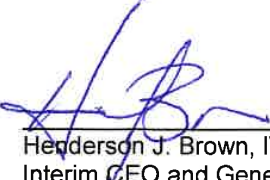
Leonard R. Benson  
 Chief Engineer


5/14/18
Date

Dan Bae  
 Director of Procurement


5/14/18
Date

Matthew T. Brown  
 Chief Financial Officer


5/24/18
Date

Henderson J. Brown, IV  
 Interim CEO and General Manager

**Presented and Approved: June 7, 2018**

**SUBJECT: Approval to Add funding to Option Year One of Contract No. 16-PR-DMS-43, Electric Motor & Contracting Co., Inc. (EMC)**

**#18-48  
RESOLUTION  
OF THE  
BOARD OF DIRECTORS  
OF THE  
D.C. WATER AND SEWER AUTHORITY**

The Board of Directors ("Board") of the District of Columbia Water and Sewer Authority ("the Authority") at its meeting on June 7, 2018 upon consideration of a non-joint use matter, decided by a vote of \_\_() in favor and \_\_() opposed to add funding to Option Year One of Contract No. 16-PR-DMS-43, Electric Motor & Contracting Co., Inc. (EMC).

**Be it resolved that:**

The Board of Directors hereby authorizes the General Manager to add funding to Option Year One of Contract No. 16-PR- DMS-43, Electric Motor & Contracting Co., Inc. (EMC). The purpose of the option is to provide additional funding to continue major overhauls and preventive maintenance necessary to ensure the availability of identified equipment for reliable operation. The additional funding is in the amount of \$886,000.

This Resolution is effective immediately.

\_\_\_\_\_  
Secretary to the Board of Directors

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

**ACTION REQUESTED**

**GOODS AND SERVICES CONTRACT OPTION YEAR**

**Repair and Rehabilitation of Various Process Assets  
(Non-Joint Use)**

Approval to add funding in the amount of \$886,000.00 for option year one (1) to the Repair and Rehabilitation of Various Process Assets contract.

**CONTRACTOR/SUB/VENDOR INFORMATION**

<b>PRIME:</b> Electric Motor & Contracting Co., Inc.(EMC) 3728 Profit Way Chesapeake, VA 23323	<b>SUBS:</b> M&M Electric Motor Repair, Inc. LSBE	<b>PARTICIPATION:</b> 29%
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**DESCRIPTION AND PURPOSE**

Original Contract Value:	\$2,850,000.00
Base Year Dates:	01-01-2017 – 12-31-2017
No. of Option Years in Contract:	2
Option Year 1 Value:	\$2,076,186.00
Option Year 1 Dates:	01-01-2018 – 12-31-2018
Prior Modification Value:	\$65,000.00
Prior Modification Dates:	02-26-2018 – 12-31-2018
<b>This Modification Value:</b>	<b>\$886,000.00</b>
<b>This Modification Dates:</b>	<b>06-08-2018 – 12-31-2018</b>

**Purpose of the Contract:**

The Department of Maintenance Service (DMS) and Department of Distribution & Conveyance Systems (DDCS) require the services of a qualified contractor to provide inspection, rehab, replacement, and upgrade services for various process assets (pumps, motors, blowers, valves, etc.) located at all DC Water facilities.

**Scope of the Contract:**

The contract scope covers major overhauls and preventive maintenance necessary to ensure the availability of identified equipment for reliable operation. The amount of this request will be utilized by DDCS alone. DMS has enough funds under this contract for the remainder of the option year. The requested funding will cover emergency rehabilitation of mechanical and electrical equipment at DC Water facilities.

This request for \$886,000.00 is for DDCS only, and comprises \$386,000 from FY18 funds and \$500,000 from the FY19 budget. DMS has sufficient approved funding for the remainder of the contract year. Projects requiring these funds include 26<sup>th</sup> and K St. Storm Water station rehabilitation, Various Valve rehabilitation, Main Pumping Station Backflow rehabilitation totaling \$570,000, and several smaller projects. This request brings the option year 1 total to about \$3,027,000 – similar to the base year funding.

**Spending Previous Year:**

Cumulative Contract Value:	01-01-2017 to 04-02-2018: \$4,991,186.00
Cumulative Contract Spending:	01-01-2017 to 04-02-2018: \$3,276,704.00

**Contractor's Past Performance:**

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

**PROCUREMENT INFORMATION**

<b>Contract Type:</b>	Fixed Price Requirement Contract	<b>Award Based On:</b>	Best Proposal and Responsible Bidder
<b>Commodity:</b>	Goods and Services	<b>Contract Number:</b>	16-PR-DMS-43

**BUDGET INFORMATION**

<b>Funding:</b>	Capital Equipment	<b>Department:</b>	DDCS
<b>Service Area:</b>	EQP 4210	<b>Department Head:</b>	Charles Sweeney

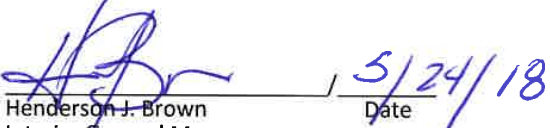
**ESTIMATED USER SHARE INFORMATION**

User	Share %	Dollar Amount
District of Columbia	100.00%	\$886,000.00
Washington Suburban Sanitary Commission	0.00%	\$0.00
Fairfax County	0.00%	\$0.00
Loudoun Water	0.00%	\$0.00
Other (PI)	0.00%	\$0.00
<b>TOTAL ESTIMATED DOLLAR AMOUNT</b>	<b>100.00%</b>	<b>\$886,000.00</b>

  
 Charles Kiely  
 Assistant General Manager,  
 Customer Care & Operations  
 Date 5/8/18

  
 Dan Bae  
 Director of Procurement  
 Date 5/8/18

  
 Matthew T. Brown  
 Chief Financial Officer  
 Date 5/10/18

  
 Henderson J. Brown  
 Interim General Manager  
 Date 5/24/18