



**DISTRICT OF COLUMBIA
WATER AND SEWER AUTHORITY
Board of Directors**

*Meeting of the
Environmental Quality and Operations Committee*

*HQO-125 O Street SE, Washington DC 20003
Thursday, June 20, 2019
9:30 a.m.*

- I. **Call to Order** Adam Ortiz
Chair
- 9:30 a.m. II. **AWTP Status Update** Akile Tesfaye
 - 1. BPAWTP Performance
- 9:45 a.m. III. **Clean Rivers Project Status Update** Moussa Wone
- 10:00 a.m. IV. **Action Item**
 - 1. Recommendation of Final Approval of the Fee Implementation Regulations – BPA & FOG Pierre Constant
- 10:10 a.m. V. **Action Items** Dan Bae / Len Benson

Joint Use

- 1. Contract No.: 16-PR-DWT-41A – Supply and Delivery of Methanol, Colonial Chemicals, Inc.
- 2. Contract No.: 16-PR-SEC-23 – Security Systems Integration and Management Services, – Enterprise Security Solutions
- 3. Contract No.: 18-PR-DFS-28 – Small Construction and Renovation Projects, ADP Group; North Arrow Co.; Mid-Atlantic General Contractors
- 4. Contract No.: DCFA 501 - Supervisory Contract & Data Acquisition (SCADA) System Integrator Services, MC Dean
- 5. Contract No.: DCFA 505 - Supervisory Contract & Data Acquisition (SCADA) System Integrator Services, Optimum Controls Corporation (OCC)

Non-Joint Use

- 1. None.

- 10:25 a.m. VI. **Green Infrastructure Projects** Seth Charde

10:40 a.m. VII. Other Business / Emerging Issues

10:50 a.m. VIII. Executive Session*

11:00 a.m. IX. Adjournment

Adam Ortiz
Chair

* 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.

Follow-up Items from Prior Meetings:

1. EVP, Ops & Engr, DC Water: Provide a briefing to the Committee regarding preventative and corrective maintenance programs on water, storm and sanitary sewer pump stations also including performance of DC Water's SCADA system. **[Target: July 2019]**
2. Vice President, Wastewater Operations, DC Water: Provide an overall assessment of the CHP program with respect to its operating costs versus cost savings and revenue generated and present to the Committee during a future meeting. **[Target: September 2019]**
3. -00Vice President, Wastewater Operations, DC Water: Provide a presentation on the Advanced Wastewater Treatment Plant and Wet Weather Treatment Facility operating parameters and the flow split logic relative to the volume of CSO flow captured in the tunnels going through the AWWTP versus the WWTF. **[Target: July 2019]**
4. CEO and General Manager, DC Water: DC Water's new smart technology helps utilities save money, prioritize repairs. **[Target: July 2019]**
5. Director, DCCR, DC Water: Brief the Cmte on the Downspout Disconnection Program. **[Forwarded to Board Secretary, 06/13/19]**
6. Manager, Green Infrastructure (DCCR): Provide the Committee with a brief, comprehensive update regarding all Green Infrastructure projects. **[On Current Agenda]**



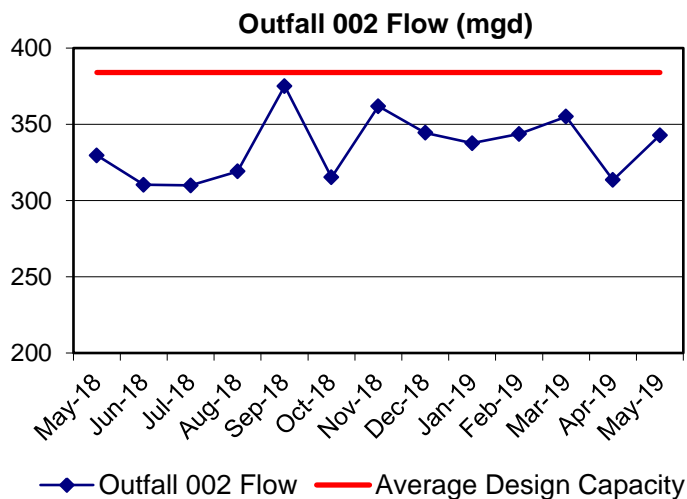
Blue Plains Advanced Wastewater Treatment Plant Performance Report

Environmental Quality and Operations Committee

June 20, 2019



Complete Treatment Performance



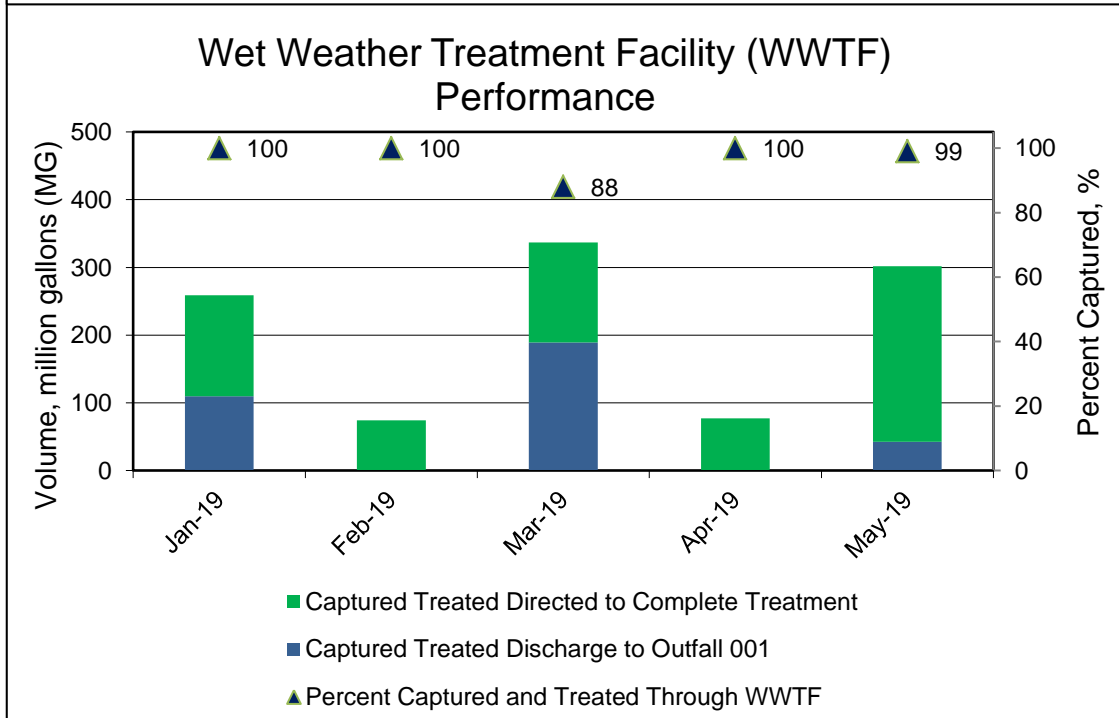
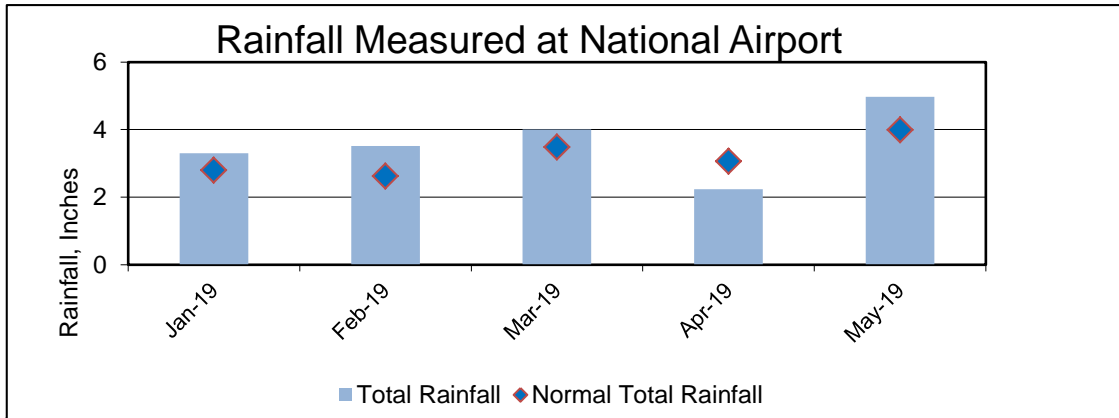
- Plant performance was excellent with all effluent quality requirements well below or within the NPDES permit requirements
- Annual Average flow remained above 300 MGD since November 2018

- Peak Performance Award from NACWA
- Platinum 7 award recognizes Blue Plains for exceptional effluent quality and 100% compliance for 7 consecutive year





Wet Weather Treatment Facility Performance

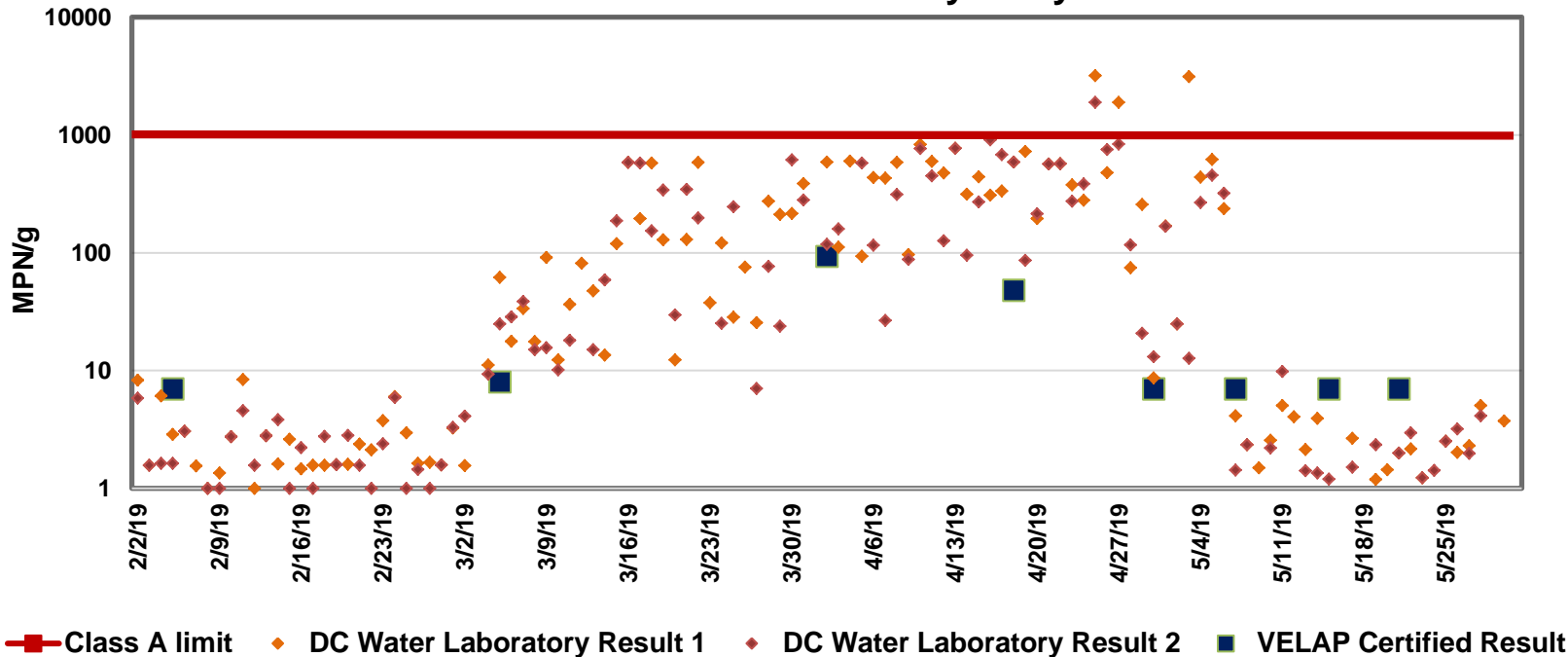


- ❑ Since commissioning on March 20, 2018 and through May 2019, 5,299 MG captured and treated through WWTF
- ❑ Over 1,700 wet tons of screening and grit removed



Class A Biosolids Quality

Fecal Coliform Results: February - May 2019



- Fecal Coliform values on daily process monitoring samples remained below 10 MPN/gram since May 7, 2019 and consistent with the low levels measured historically
- None of the compliance samples analyzed by VELAP certified laboratory exceeded the 1,000 MPN/gram Class A limit
- Land application and marketing as Class A EQ product resumed on May 21, 2019 after two-weeks of non-detect results



Class A Biosolids Quality

- ❑ All solids produced and processed through THP met time and temperature regimes required to reduce pathogenic organisms
- ❑ During the time we suspended Bloom marketing, we managed the solids as Class B biosolids, to farms in Virginia through our contractors.

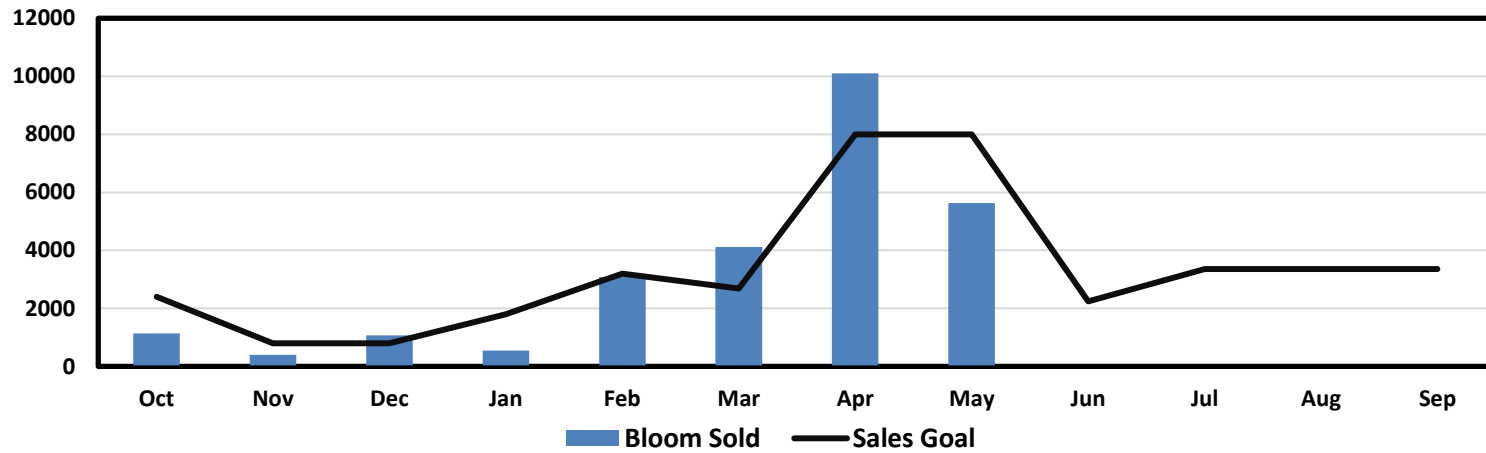


- ❑ Root cause for elevated levels is associated with one of four anaerobic digesters
 - ❑ Digester isolated on May 6, 2019
 - ❑ Finalizing a plan to bring the digester back into operations
 - ❑ Active measures taken to prevent recurrence
- ❑ EPA and state regulators in VA, MD, and PA notified with supporting data and the findings of our investigation and corrective actions



Bloom Marketing

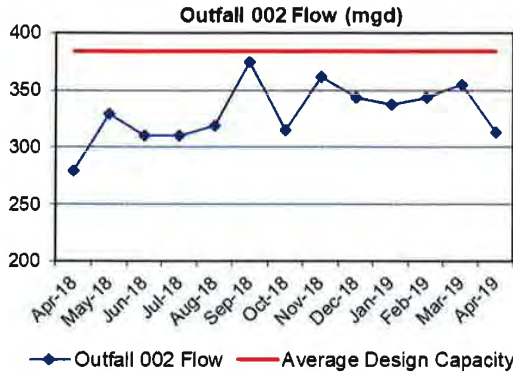
Bloom Marketing - FY2019



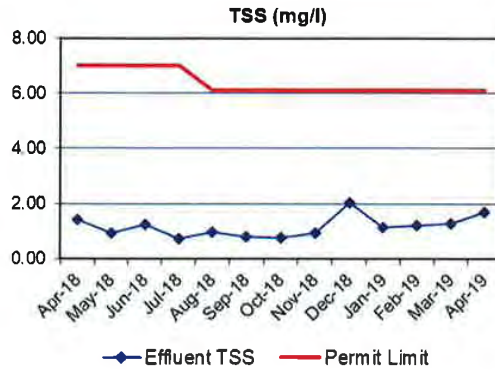
- ❑ In May, 5,632 tons marketed to bring the total for fiscal year to 26,082 or 65% of the 40,000 tons goal
- ❑ Goal for the remaining 4 months is 12,320 tons

BLUE PLAINS ADVANCED WASTEWATER TREATMENT PLANT PERFORMANCE REPORT – APRIL 2019

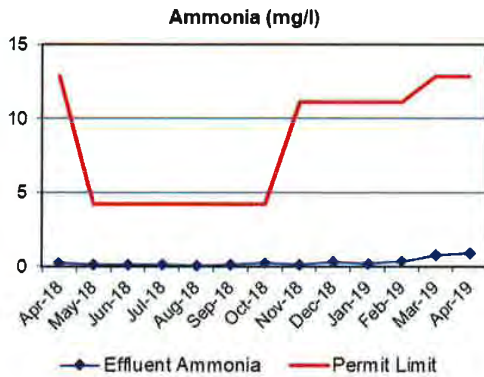
Average plant performance for the month of April 2019 was excellent with all effluent parameters well below the seven-day and monthly NPDES permit requirements. The monthly average flow through complete treatment and discharge to outfall 002, was 313 MGD. There was no treated captured combined flow discharged to Outfall 001 during this period. The following figures compare the plant performance with the corresponding NPDES permit limits.



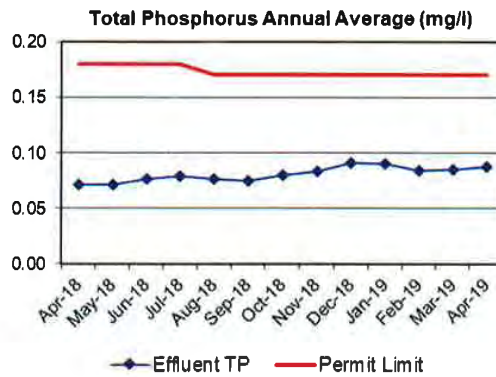
This graph illustrates the monthly average influent flow to the plant. The design average flow is 384 MGD. Blue Plains has a 4-hour peak flow capacity of 555 MGD through complete treatment. Once the plant is at capacity, up to 225 MGD of additional captured combined system flows from the tunnel can be treated through enhanced clarification, disinfection and dechlorination.



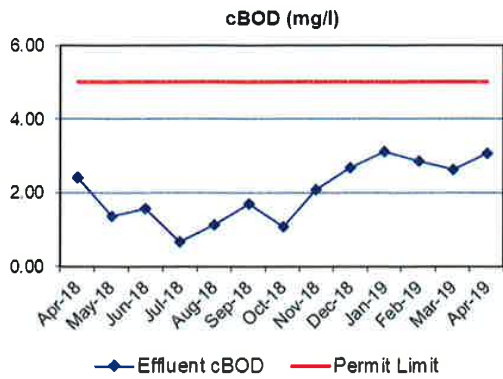
Effluent Total Suspended Solids (TSS) is a measurement of the amount of solid material that remains suspended after treatment. The effluent TSS concentration for the month averaged 1.71 mg/L, which is below the 6.1 mg/L permit limit.



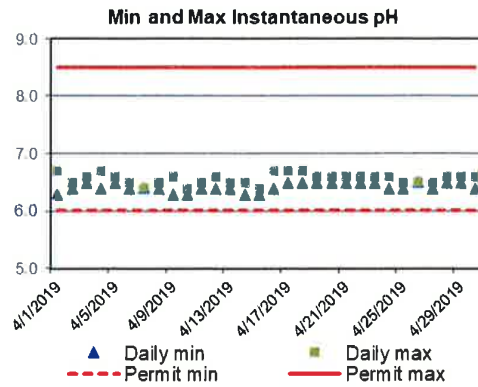
The Ammonia Nitrogen (NH₃-N) is a measurement of the nitrogen found in ammonia. For the month, effluent NH₃-N concentration averaged 0.94 mg/L and is below the average 12.8 mg/L limit.



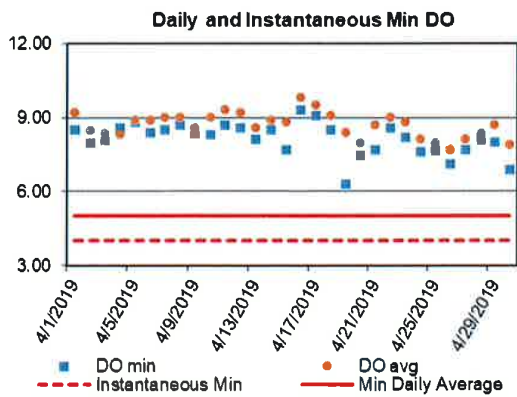
The Total Phosphorus (TP) is a measurement of the particulate and dissolved phosphorus in the effluent. The annual average effluent TP concentration is 0.09 mg/L, which is below the 0.17 mg/L annual average limit.



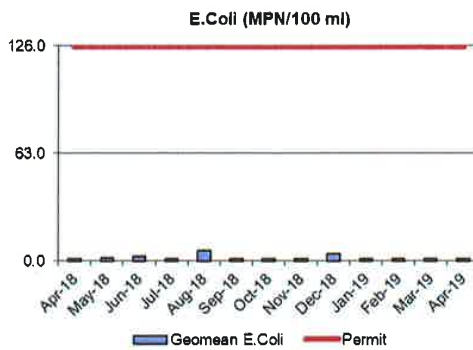
Carbonaceous Biochemical Oxygen Demand (CBOD) is a measurement of the amount of oxygen required for the decomposition of organic materials. The effluent CBOD concentration averaged 3.06 mg/L (partial month), which is below the 5.0 mg/L limit.



pH is a measurement of alkalinity or acidity of the effluent. The minimum and maximum pH observed were 6.3 and 6.7 standard units, respectively. The pH was within the permit limits of 6.0 and 8.5 for minimum and maximum respectively.



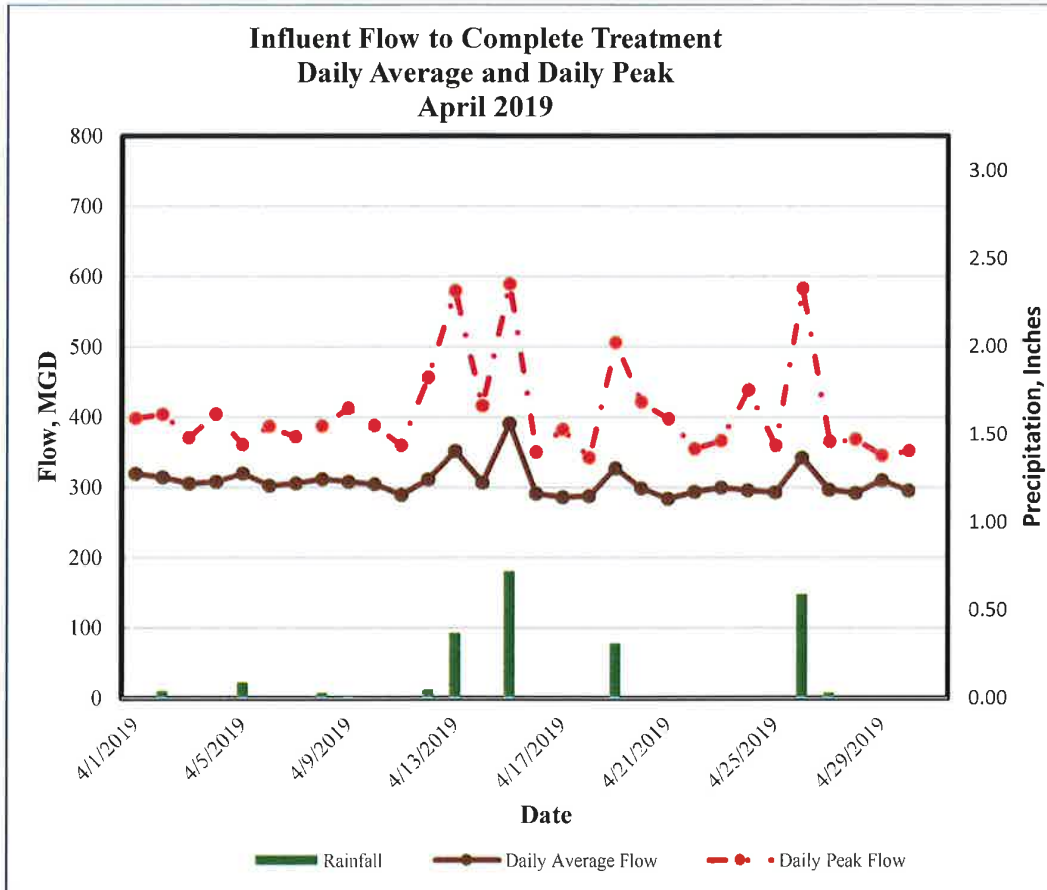
Dissolved Oxygen (DO) is a measure of the atmospheric oxygen dissolved in water. The DO readings for the month are within the permit limits. The minimum daily average is 7.7 mg/L. The minimum instantaneous DO reading is 6.3 mg/L. The minimum daily average and instantaneous permit limits are 5.0 mg/L and 4.0 mg/L, respectively.



E.coli is an indicator of disease causing organisms (pathogens). The E.coli permit limit is 126/100mL. The E coli geometric mean is 1.4 /100mL, and well below the permit limit.

Wet Weather Impact on Plant Performance

During the month of April 2019, the Washington Metropolitan Region received record above average precipitation (2.24 inches vs normal of 3.06 inches) as measured at the National Airport. The plant's performance was excellent and the event had minimal impact on the quality of the effluent discharge through the complete treatment outfall. All effluent quality parameters were below the weekly and monthly average NPDES permit limits.



Wet Weather Treatment Facility (WWTF) at Blue Plains

Brief Description

The Wet Weather Treatment Facility at Blue Plains provides treatment for Combined Sewer Overflows (CSO) conveyed through the Long Term Control Plan (LTCP) tunnel systems to Blue Plains. With a design capacity of 250 MGD, the facility consists of sub systems including- a flow surcharge wet well and coarse screens, upstream of five 3,000 Horse Power (HP) Tunnel Dewatering Pumps (TDPs). The TDPs lift the flow 156 ft to the above ground Enhanced Clarification Facility (ECF), which comprises of fine screening, grit removal, and high rate clarification (HRC). The effluent from HRC is disinfected and dechlorinated before it's discharged through Outfall 001. When flow rates to the main plant are below the permitted peak flow rates of 555 OR 511 MGD, the effluent from the HRC (or a portion of it) is directed to the main plant for complete treatment. On an average year, the facility is designed to receive approximately 2.6 billion gallons of CSOs and provide treatment with effluent total suspended solids quality comparable to that of Secondary Treatment effluent. The WWTF, along with the first section of the Anacostia Tunnel System were placed in operation, three days in advance of the March 23rd Consent Decree date.



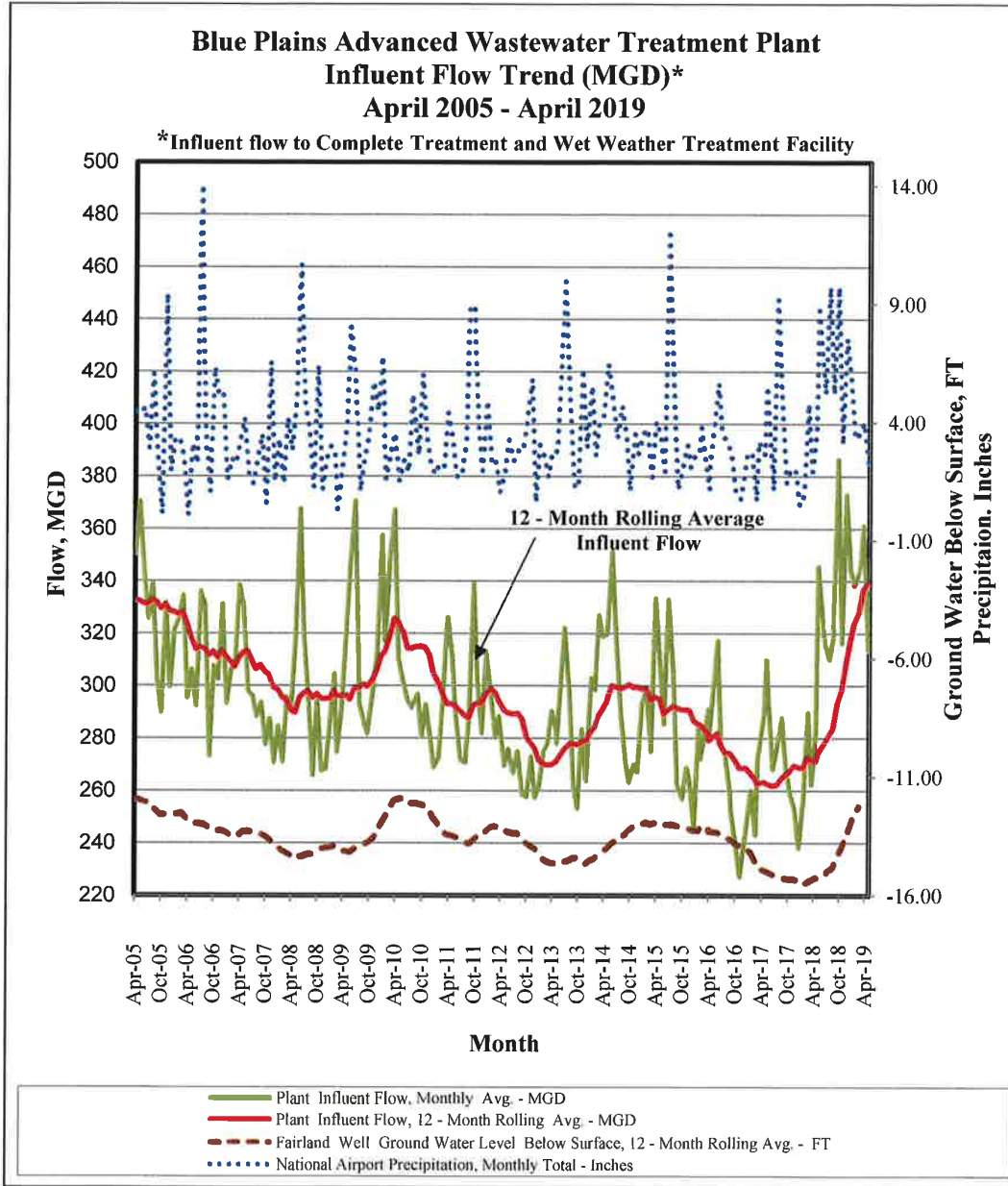
Aerial rendering of the Wet Weather Treatment Facility

Performance

During the month, a total of 56.2 million gallons (MG) of wet weather flow captured in the tunnel system, was pumped, and treated using the ECF. There was no discharge of the treated flow to Outfall 001. The treated flow was directed to the main plant to maximize complete treatment. Since the commissioning of the first section of the Anacostia River Tunnel Systems and the WWTF on March 20, 2018 and including the wet weather events that occurred in April 2019, the total volume pumped and treated through the WWTF is 5,299 MG. During the same period, over 1,719 wet tons of screenings and grit (trash, debris, sediment) were removed, that would otherwise have been discharged into the Anacostia River.

Plant Influent Flow Trend

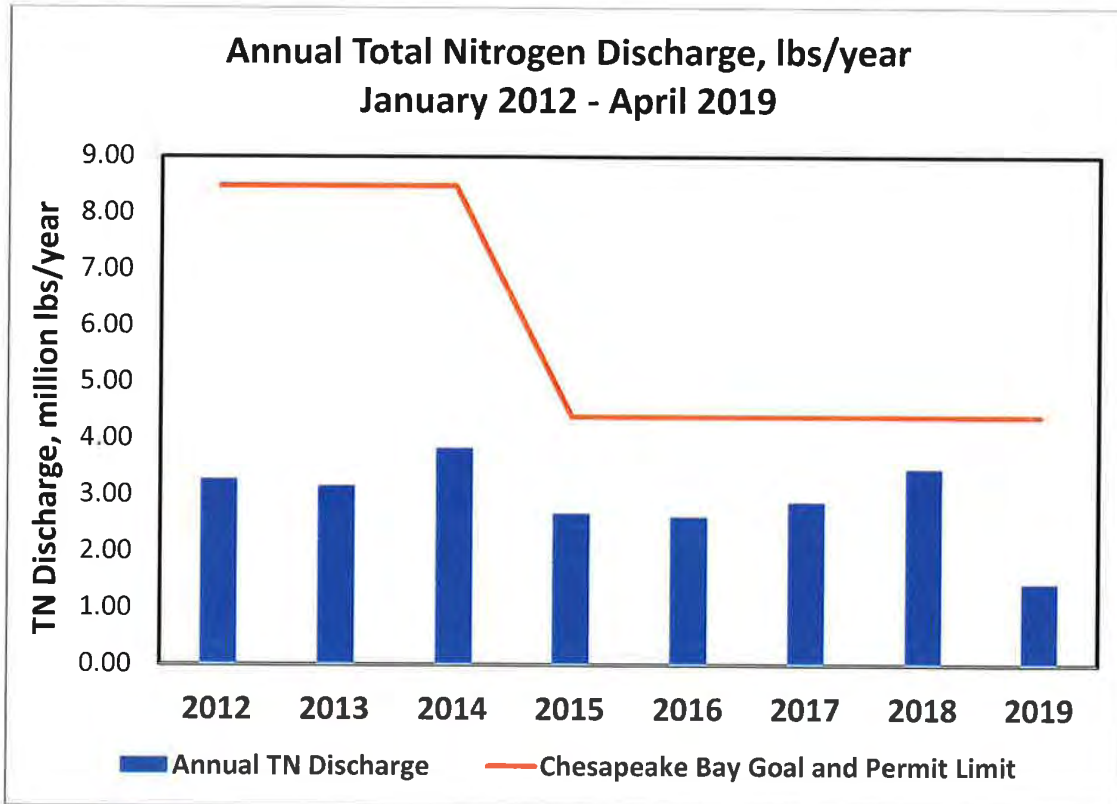
The graph below shows a long-term influent flow trend to the plant ending April 2019. While for any given month the flow is weather dependent, the 12-month rolling average influent flow exceeded 300 MGD for the first time since December 2010



Blue Plains Total Nitrogen (TN) Removal – Performance

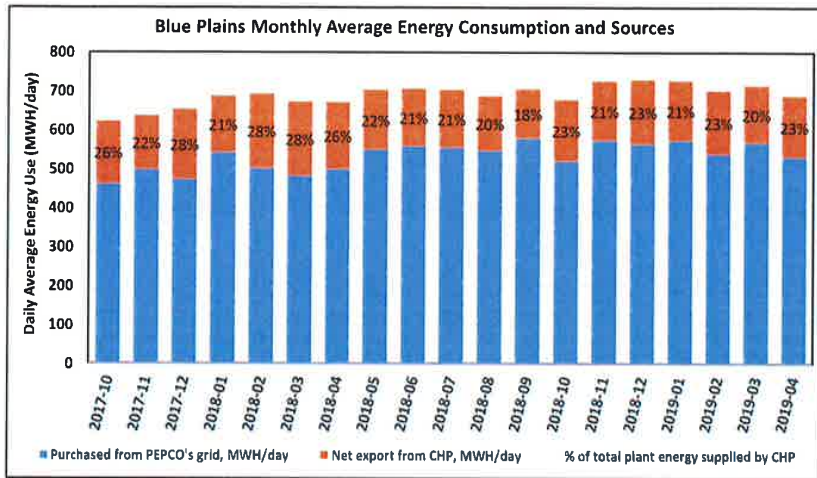
The graph below shows total annual nitrogen discharge, in million pounds per year, over a eight-year period ending April 2019. In April 2019, the monthly average TN concentration and total load in the complete treatment effluent were 4.25 mg/L and lbs., respectively.

The total pounds of nitrogen discharged in the complete treatment effluent during the current calendar year (through April, 2019) is 1,363,186 lbs and on track to remain below the NPDES permit discharge limit of 4,377,580 lbs. /year. The performance corresponds to average flow of 338 MGD, maximum month flow of 355 MGD, and average wastewater temperature above 16 °C observed during the period. The Blue Plains Enhanced Nitrogen Removal Facility (ENRF) is designed to meet the TN discharge limits at influent loads corresponding to annual average flows of 370 MGD, maximum month flows of 485 MGD, and operating wastewater temperatures below 12°C.



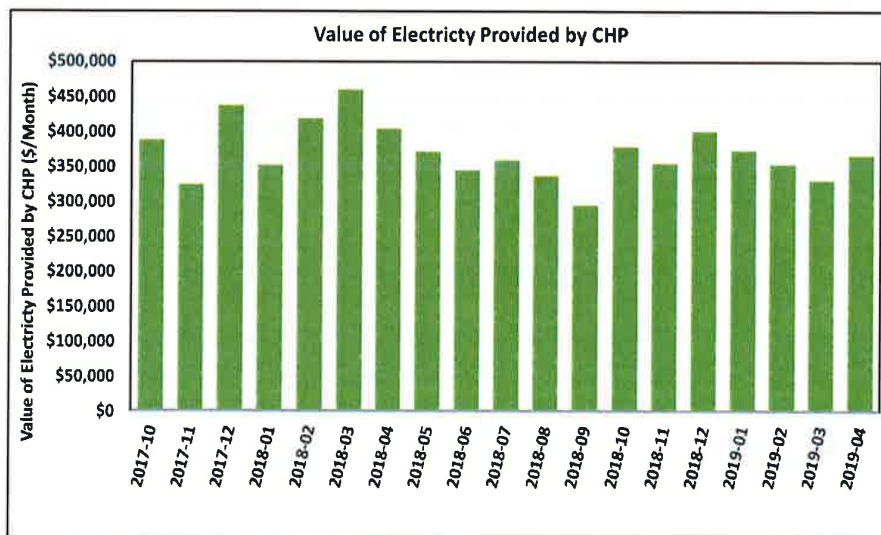
Blue Plains Electricity Generation and Usage

In April 2019, the average energy consumed at Blue Plains was 688 megawatt hours per day (MWH/day) or 2.24 MWH of electricity per million gallons of wastewater processed through complete treatment. The Combined Heat and Power (CHP) facility generated an average of 157 MWH/day, making up for 23% of total energy consumed at Blue Plains. The remaining 531 MWH/day was purchased from PEPCO.



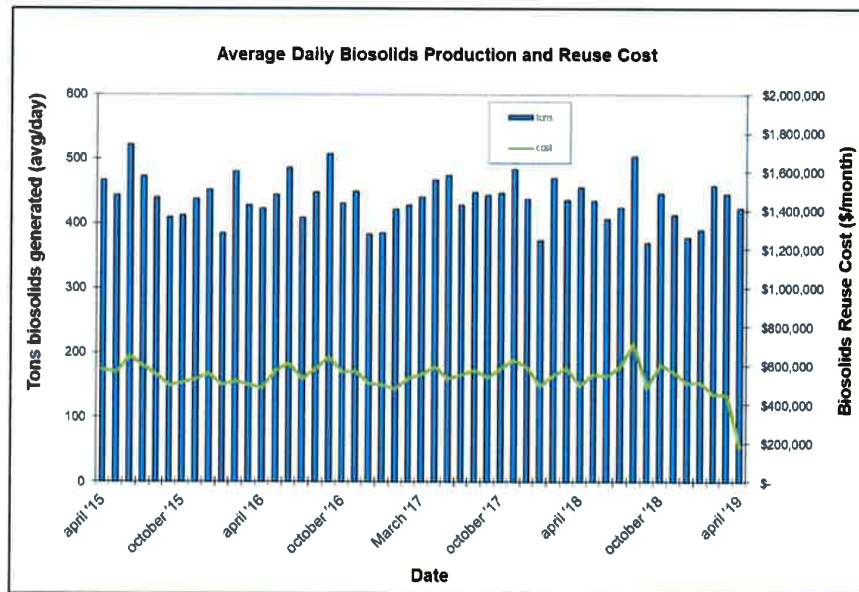
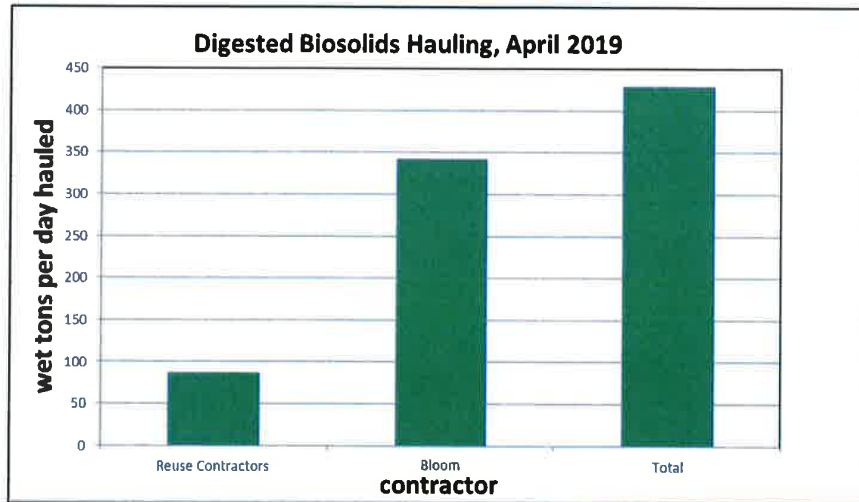
The graph above is based on power monitors installed at the Main Substation and CHP, and reflects average energy consumed at Blue Plains in MWH/day. Of the total use, the energy purchased from PEPCO and net energy supplied by CHP are indicated by the blue and orange highlights, respectively.

The graph below shows the monthly value of the net electricity exported by CHP by assuming unit price of \$78/MWH of electricity.



RESOURCE RECOVERY

In April, biosolids hauling averaged 428 wet tons per day (wtpd). The average percent solids for the Class A material was 29.4%. The graph below shows average daily biosolids produced and the associated monthly cost for reuse (transportation and application cost) for a three-year period ending April 2019. In April, diesel prices averaged \$3.34/gallon, and with the contractual fuel surcharge, the weighted average biosolids reuse cost (considering the marketed material) was \$32.43 per wet ton.

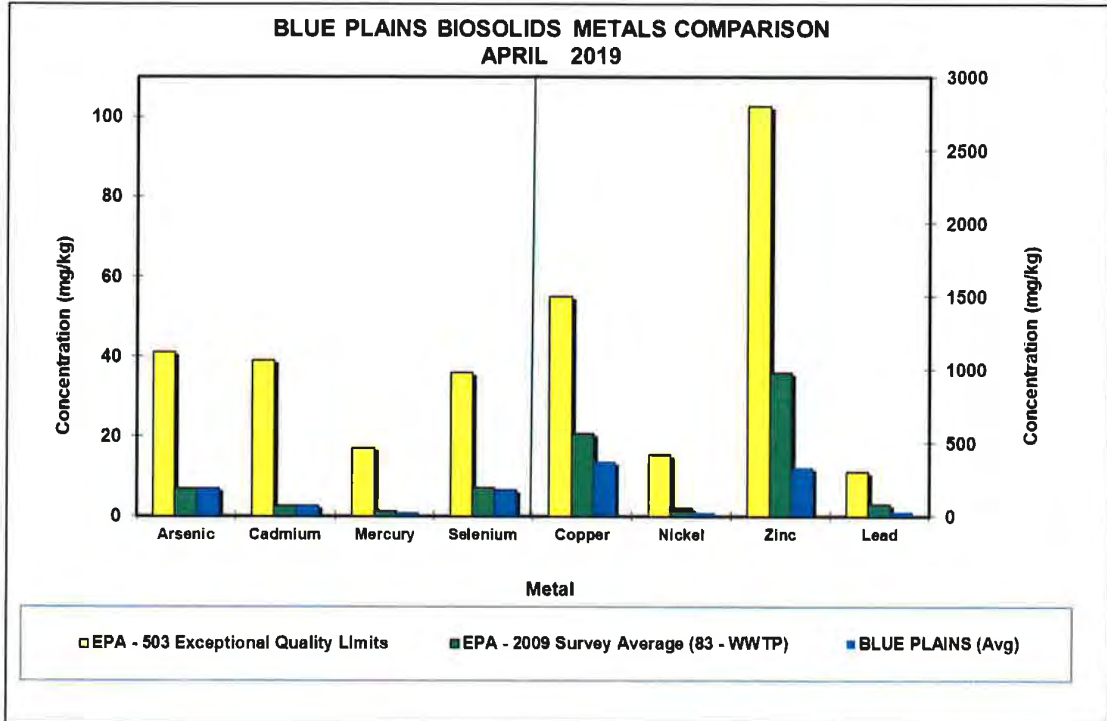


The average quantities of Class A biosolids transported and applied on farms by the two major contracts (WSSC's Recyc and DC Water's Nutriblend) and the quantities marketed as Bloom are shown on the graph above. In April, 10,097 wet tons of Bloom were distributed to 26 customers.

Product Quality

Metals

All biosolids produced during the month of April met Class A Exceptional Quality (EQ) requirements required by EPA. The graph below shows the EPA regulated heavy metals average concentrations in the Class A biosolids. The concentrations are considerably below the regulated exceptional quality limits (EPA-503 Exceptional Quality Limits) and the national average (EPA-2009 Survey Average).



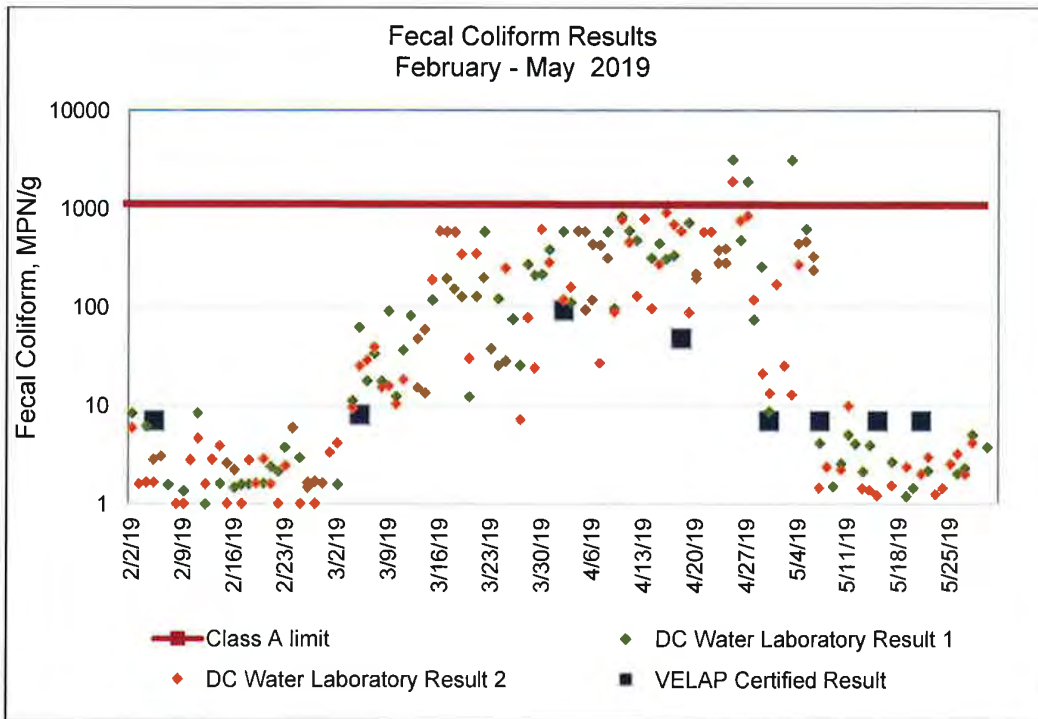
Vector Attraction

Vector Attraction Reduction is measured by the reduction in Volatile Solids (VS) or organic compounds that are odorous and attract nuisance vectors such as flies and rodent. DC Water anaerobic digesters reduced VS by over 65 percent, well above the required 38 percent minimum.

Fecal Coliform (May 2019 update)

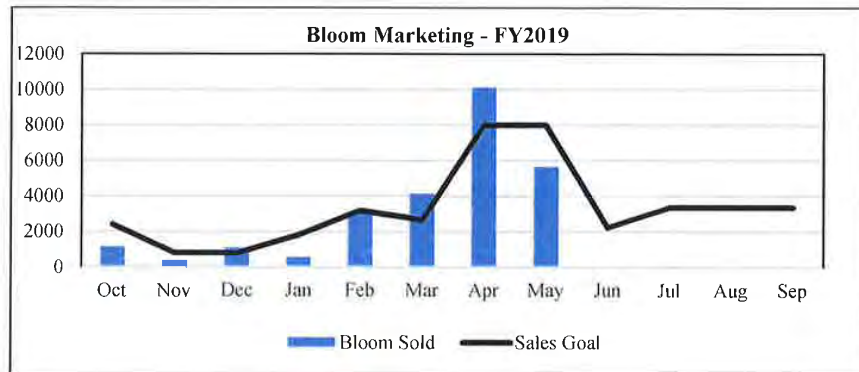
Since May 7, 2019, fecal coliform values in daily biosolids cake samples, analyzed by DC Water Laboratory, have remained below 10 MPN/gram and well below the 1,000 MPN/gram requirement for Class A certification. The results of all compliance samples collected and analyzed by a Virginia Environmental Laboratory Accreditation Program (VELAP) certified commercial laboratory have never exceeded the Class A limit. In addition, all solids produced and processed through the Thermal Hydrolysis Process (THP) met the time and temperature regimes required to reduce pathogenic organisms.

DC Water has determined that the root cause for the elevated levels of fecal coliform in March, April and during the first week of May was associated with one of the four Anaerobic Digesters. The digester was isolated on May 6, 2019 and the Authority is in the process of developing a final plan to bring the digester back into operation.



Bloom Marketing (May 2019 update)

Bloom marketing resumed on May 21, 2019 after two weeks of non-detect results observed beginning May 7, 2019. During the month, 5,632 tons was marketed to bring the total for the fiscal year to 26,082 tons or 65 percent of the 40,000 tons goal. Based on progress to-date, the Authority anticipates achieving the marketing goals for the fiscal year.



WATER QUALITY AND PRETREATMENT

The Blue Plains Water Quality & Pretreatment group manages the Industrial Pretreatment Program, including temporary dewatering dischargers (construction dewatering, etc.) and dental dischargers, as well as the Hauled Waste Program. Staff also provide specialized sampling and program management support for the Blue Plains NPDES permit, including low level PCB and mercury monitoring as well as storm water management and regulatory compliance support. Staff conducted training for the Spill Prevention Control and Countermeasures Plan implementation this month.

Industrial Pretreatment Program

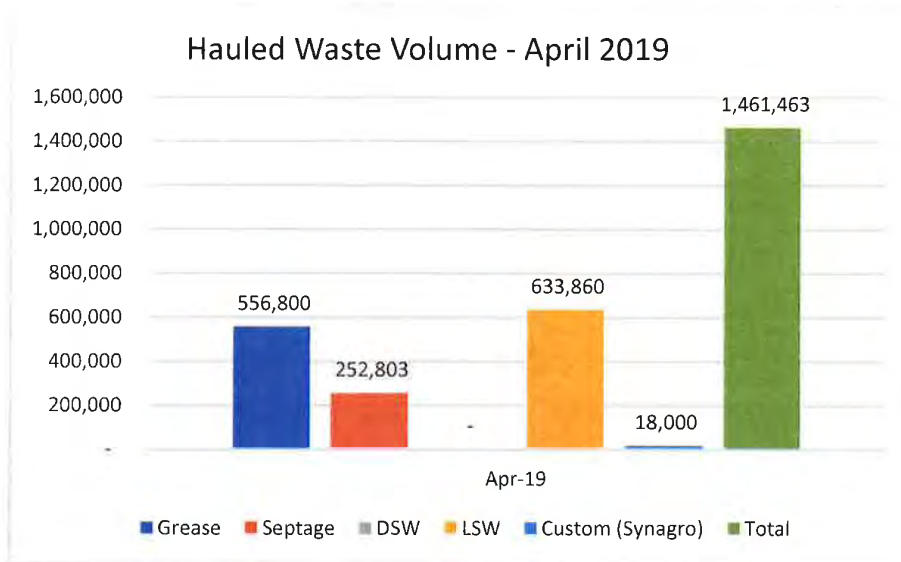
DC Water currently manages twelve (12) Significant Industrial User (SIU) and sixteen (16) Non-Significant Industrial User (NSIU) wastewater discharge permits. One NSIU permit was terminated this month (Half Street SE) for a groundwater remediation system that is now discharging to the MS4 under an EPA permit. Staff conducted four SIU inspections this month (Amtrak and three WMATA facilities). All SIUs and NSIUs are in compliance with discharge standards for the current month.

DC Water currently manages 80 Temporary Discharge Authorization (TDA) permits, primarily for construction site discharges of groundwater and/or surface runoff in the combined sewer area. Seven (7) new TDA permits were issued this month. All TDA permittees are currently in compliance with discharge standards.

Hauled Waste Program

DC Water currently manages 38 Waste Hauler permits for discharge of domestic septage, portable toilet waste, grease trap waste, groundwater or surface runoff, and other types of waste (if approved in advance and meet pretreatment standards). Three waste haulers were banned this month for failure to pay monthly disposal costs that were more than 60 days past due. Accounts for two of the three haulers have subsequently been reinstated after payment was received.

DC Water received 610 hauled waste loads (1,461,463 gallons) from permitted haulers this month. Manifest forms from each truck entering the plant are collected by the security guards and picked up daily by Pretreatment staff and information is manually entered into an access database. No hauled waste samples were collected this month since two additional samples were collected at the end of the previous month.



Revenue Generation

The following billing (revenue) and receivables (cash) occurred this month for Groundwater/Retail Sewer (GWRS) billing for disposal fees in accordance with TDA permits issued under the Industrial Pretreatment Program, Industrial User (IU) billing for high strength waste, permitting fees, and annual compliance fees issued under the Industrial Pretreatment Program, and Waste Hauler (WH) billing for permitting and disposal fees issued under the Hauled Waste Program:

Cat. Code	FY (Oct-Apr) Revenue Posted	FY (Oct-Apr) Cash Received
GWRS	\$297,052.16	\$25,636.44
IU	\$73,972.59	\$80,066.66
WH	\$473,683.04	\$576,903.66
Total	\$844,707.79	\$682,606.66

Awards

NACWA Peak Performance Award: DC Water has earned a Peak Performance Award from the National Association of Clean Water Agencies. The Platinum Award recognizes the Blue Plains Advanced Wastewater Treatment Plant for exceptional quality and 100% compliance with all NPDES permit limits for treated effluent discharges during the last seven consecutive years, including calendar year 2018. The award will be presented during NACWA's Utility Leadership Conference on July 18, 2019, in Minneapolis, MN.



District of Columbia Water and Sewer Authority
David L. Gadis, CEO and General Manager

Briefing on:

DC Clean Rivers Project Quarterly Update

Briefing for:

Environmental Quality & Operations Committee Meeting

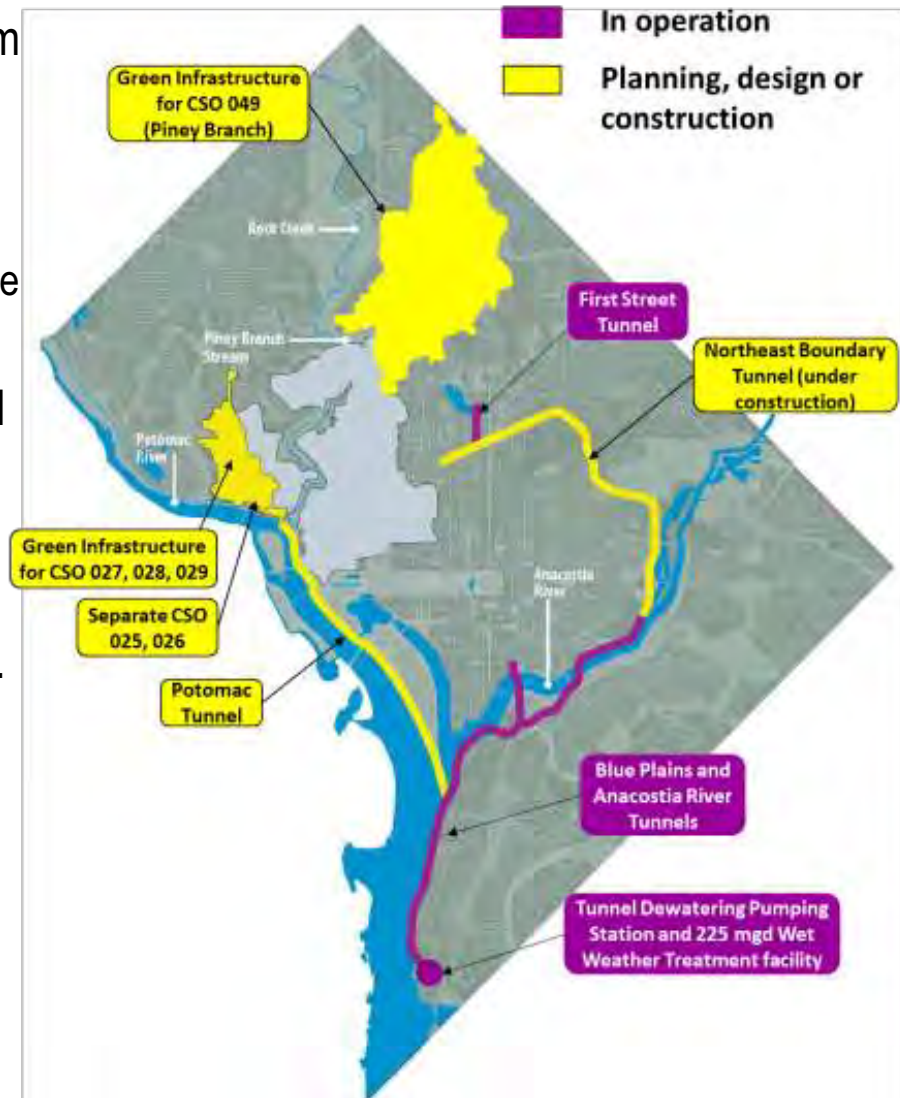
June 20, 2019



DCWATER.COM

Project Status

- First phase of Anacostia River tunnel system commissioned on March 20, 2018
 - Provides control for all CSOs along the Anacostia River
 - Provides about 100 million gallons of storage
- Northeast Boundary Tunnel, under construction, will increase CSO storage and flood risk mitigation
 - Adds about 90 million gallons of storage
- Green infrastructure (GI) project in Rock Creek substantially complete October 2018. Potomac River project substantially complete early March 2019
- CSO 025/026 Sewer Separation Project currently in design
- Potomac River Tunnel Facility Plan approved by EPA in March 2019



Anacostia Tunnel System Performance Since March 20, 2018

No.	Month	Rainfall (IN)	Volume Captured by Tunnel (MG)	Measured Overflow (MG)	Total (Captured + Overflow)	% Captured
1	March 20 -31, 2018	1.48	20	0	20	100%
2	April 2018	3.59	249	10	259	96%
3	May 2018	8.73	860	13	873	98%
4	June 2018	5.21	265	47	311	85%
5	July 2018	9.73	679	260	939	72%
6	August 2018	5.19	334	14	349	96%
7	September 2018	9.73	784	116	900	87%
8	October 2018	3.06	164	0	164	100%
9	November 2018	7.57	777	5	782	99%
10	December 2018	5.82	468	100	568	82%
11	January 2019	3.30	259	0	259	100%
12	February 2019	3.52	74	0	74	100%
13	March 2019	4.00	337	46	384	88%
14	April 2019	2.24	77	0	77	100%
15	May 2019	5.81	302	3	305	99%
16	June 2019 (thru 6/11)	0.79	39	0	39	100%
Total		79.77	5,687	616	6,302	90%

- Nearly 5.7 billion gallons captured to date
- 1,760 tons of trash, debris, and other solids captured
- Exceeding predicted capture rate (90%>80%)
- First year in operation was the wettest year on record for the District of Columbia



April 2018



November 2018

Trash and Debris Removed from CSO Captured by Tunnel at ECF Fine Screens










Division J – Northeast Boundary Tunnel Flyover Video

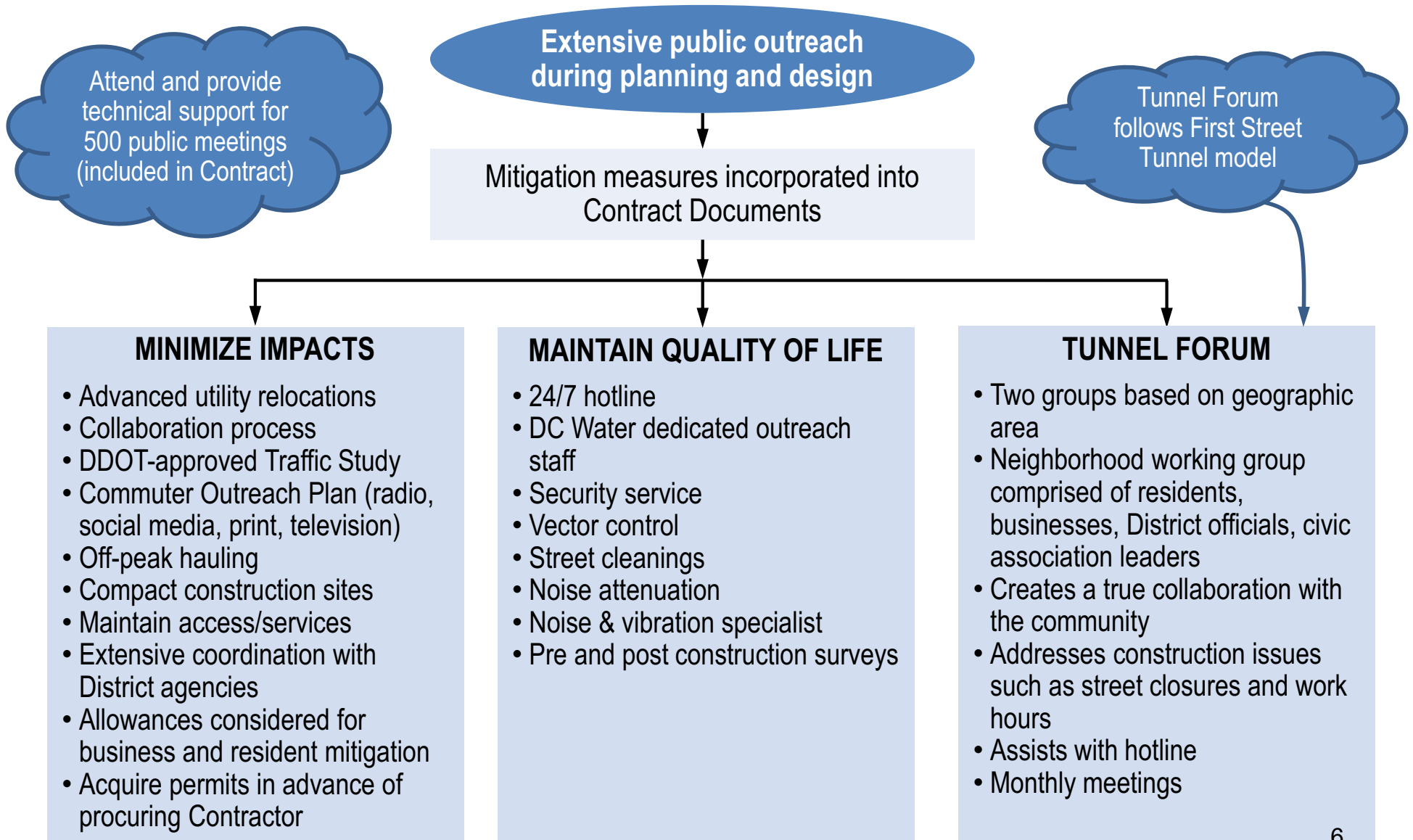


Division J – Northeast Boundary Tunnel Construction Progress



Site	Progress	
CSO 019	TBM "Chris" mined 4,338 feet Eastside Force Main backfilled Installation a California Switch at the bottom of the shaft	
Mt Olivet Road	Completed jet grout columns Jet grout coring and proof testing on-going	
W Street	Construction of cement bentonite reek-in/out walls Completed retaining wall mockup Construction of retaining wall Excavation of shaft Development of watering wells	
Rhode Island Ave	Slurry plant mobilization Installation of geotechnical instrumentation for shaft construction Constructing shaft slurry wall (85% complete)	
4th Street	Jet grout installation for shaft base plug Pre-trench for cement bentonite guide walls for near surface structures Installation of cement bentonite guide walls (95% complete) Installation of approach channel cement bentonite walls Installation of instrumentation ongoing	
Pumping Station	Utility relocation and potholing on-going Site mobilization and setup ongoing Jet grout plant mobilization Completed median removal and repaving on Rhode Island Ave. NW to allow for lane shifts	
Florida Ave	Utility location and potholing ongoing Site mobilization and setup ongoing Reconfiguration of traffic signals Installation of geotechnical instrumentation	
T Street	Utility location and potholing ongoing	
R Street	Utility location and potholing ongoing Tree removal	

Community Impact Mitigation



DC Water Partnering Activities with 3 Main Street Organizations to Enhance Patronage of Local Businesses during Construction

Main Street Organizations

- 510(c)(3) non profits
- Goal is to support patronage of local business during construction

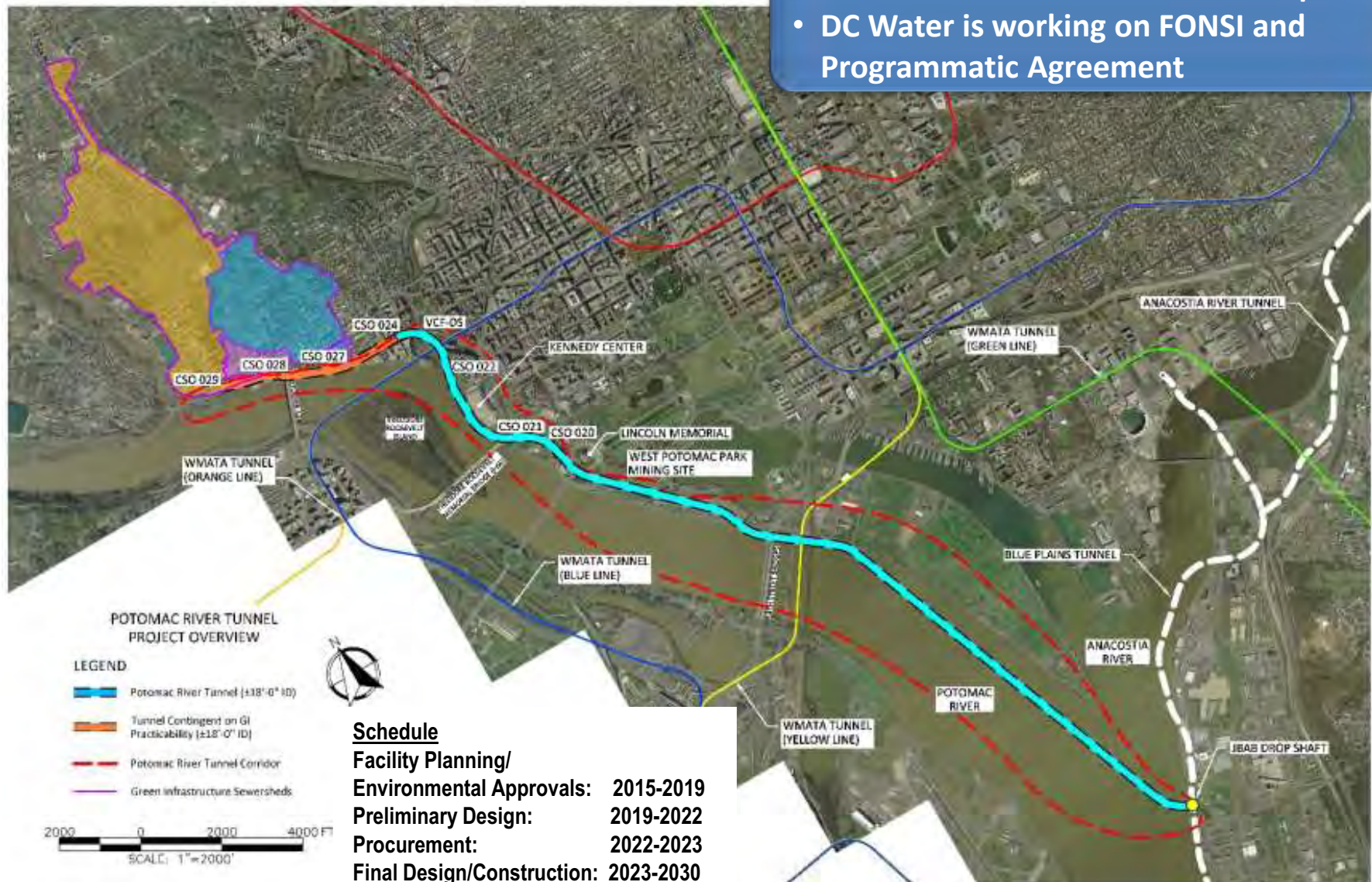


- **Traffic Advisories and Newsletters:** Distributed to media, residents, and businesses with updates of construction site activity impacts such as lane and street closures, parking restrictions, pedestrian and bicycle detours, and work schedules and durations.
 - **Media Buy:** Purchased time for delivery of on-air project messages on WTOP and WHUR radio stations.
- **24/7 hotline:** Most callers to the hotline are able to access information without leaving a message. Received 29 messages from callers and responded directly to each to answer questions or to register caller for the Bryant Street Alternative Parking Area.
 - **Tree Replanting:** Delivered tree being removed from median on Rhode Island Avenue NW to resident's home for replanting.
 - **Traffic Advisories and Newsletters:** Distributed to media, residents, and businesses with updates of construction site activity impacts such as lane and street closures, parking restrictions, pedestrian and bicycle detours, and work schedules and durations.
 - **Media Buy:** Purchased time for delivery of on-air project messages on WTOP and WHUR radio stations.
 - **24/7 hotline:** Most callers to the hotline are able to access information without leaving a message. Received 29 messages from callers and responded directly to each to answer questions or to register caller for the Bryant Street Alternative Parking Area.
 - **Tree Replanting:** Delivered tree being removed from median on Rhode Island Avenue NW to resident's home for replanting.

Potomac River Tunnel Facility Plan and Environmental Assessment



- Environmental Assessment is complete.
- DC Water is working on FONSI and Programmatic Agreement



CSO 025/026 Sewer Separation Project

- Continued coordination with ANC 2E Chair Mr. Rick Murphy, Vice-Chair Ms. Lisa Palmer, and Georgetown BID throughout field investigation efforts
- Completed CCTV utility investigation, E.Coli sampling, dye testing, and geotechnical boring investigation (May)
- Utility test pit investigation and survey development is ongoing
- Development of preliminary design, plans, specifications, and technical documents is ongoing
- Ongoing coordination with DDOT on 31st St. Bridge Replacement Project
- Continued attendance at DDOT utility coordination meetings

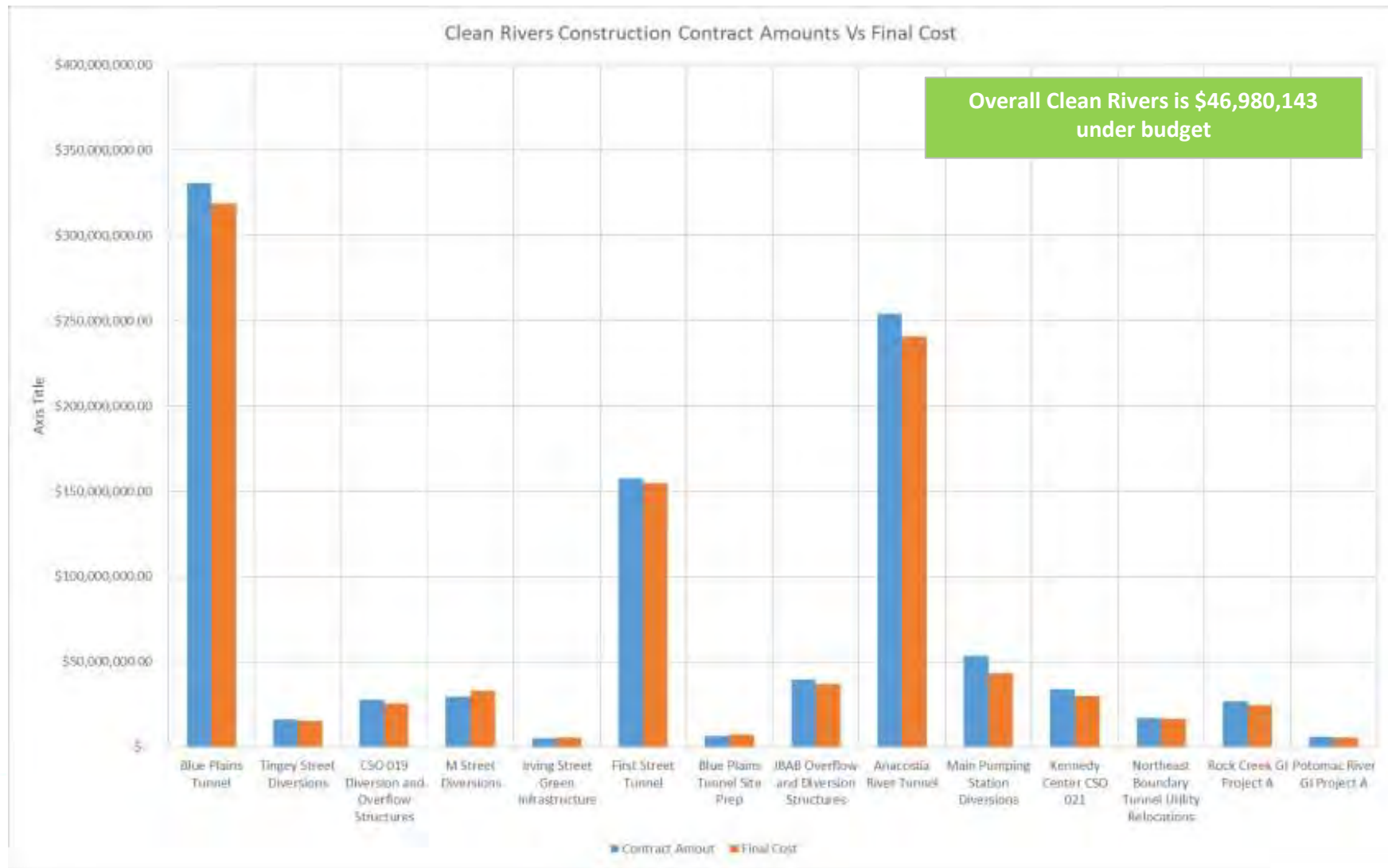


DC Clean Rivers Schedule

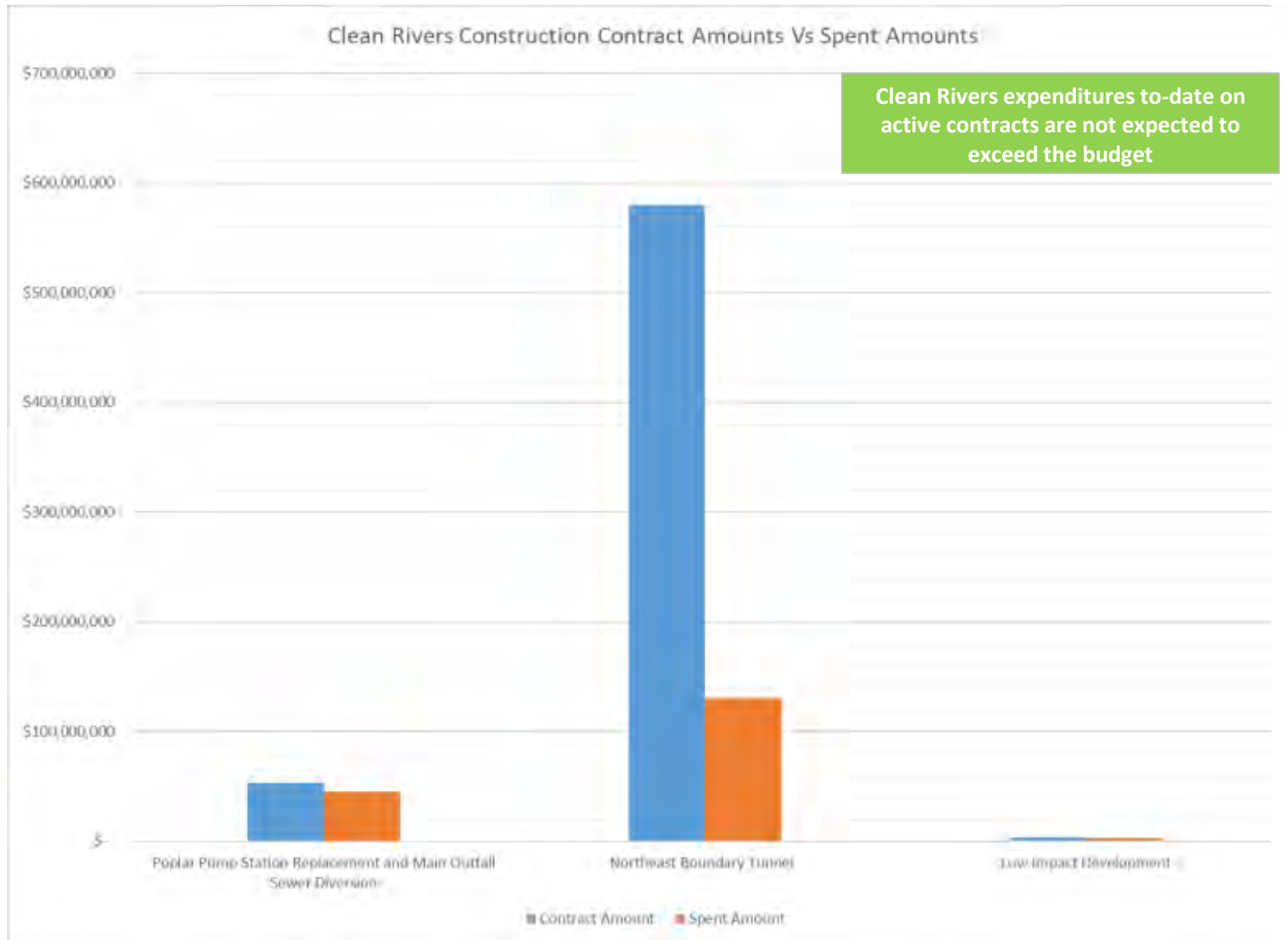
Div	Description	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Anacostia				◆ CD Deadline 3/23/2018													
W	Blue Plains Site Prep	Complete															
A	Blue Plains Tunnel	Complete															
C	CSO 019 OF & Diversion	Complete															
B	Tingey St Diversions	Complete															
D	JBAB OF & Diversions	Complete															
E	M St Diversion Sewer	Complete															
G	CSO 007	Complete															
H	Anacostia River Tunnel	Complete															
N	LID @ DCW Facilities	Complete															
P	First St Tunnel	Complete															
I	Main PS Diversions	Complete															
S	Irving St GI	Complete															
Y	TDPS and ECF	Complete															
Z	Poplar Point PS	Complete															
U	NEBT Utility Reloc	Complete									◆ CD Deadline 3/23/2025						
J	Northeast Boundary Tun.																
Potomac																	
PR-B	CSO 021	Complete															
PR-A	Potomac GI Project 1																
TBD	Potomac GI Project 2																
TBD	Potomac GI Project 3																
PR-C	CSO 025/026 Separation																
TBD	Potomac Tunnel	EA	Fac Plan (24)														
Rock Creek																	
TBD	Piney Banch Div. Str. Imp.																
RC-A	Rock Creek GI Project 1																
TBD	Rock Creek GI Project 2																
TBD	Rock Creek GI Project 3																
TBD	Rock Creek GI Project 4																
TBD	Rock Creek GI Project 5																



Clean Rivers Budget for Completed Contracts



Clean Rivers Budget for Active Contracts





Regulation Schedule

- I. EQ&O Committee is presented with proposed rules 4/18
- II. RR Committee is briefed by Memo 4/23
- III. EQ&O committee recommends proposed rule to Board & Board approves publication of proposed rulemaking 5/2
- IV. Publish *Proposed* FOG and Cross Connection Facility Fees Implementing Regulations for public comment 5/17
- V. Public Comment Period 5/17 to 6/17
- VI. Present comments and final rulemaking to EQ&O Committee 6/20
- VII. Board approves publication of final rulemaking 7/11
- VIII. NOFR published in DC Register 7/26

Action Item

Approval to publish Notice of Final Rulemaking for rules implementing Fats, Oil and Grease (FOG) and Cross-Connection Control-Backflow Prevention Assembly (CCC-BPA) Fees, effective August 1, 2019, as provided below:

NOTICE OF FINAL RULEMAKING

This proposed rulemaking, if finalized, will be effective August 1, 2019.

Chapter 1, WATER SUPPLY, of Title 21 DCMR, WATER AND SANITATION, is amended as follows:

Subsection 112.12 of Section 112, FEES, is amended to read as follows:

112.12 Cross-Connection/ Back Flow Prevention Fees and Turn-Off Charges

- (a) The Cross-Connection/ Back Flow Prevention Fees and Turn-Off Charges shall be as follows:

Fee Name	Fee
Cross-Connection/Back Flow Prevention Monthly Fee per Assembly	\$6.70
Cross-Connection Turn-off - 5/8" to 2"	\$200
Cross-Connection Turn-off - 3" to 5"	\$400
Cross-Connection Turn-off - 6" and larger	\$900

- (b) Except as provided below, Residential, Multi-Family and Non-Residential Customers shall be charged the Cross-Connection/Back Flow Prevention Monthly Fee for each Backflow Prevention Assembly (BPA) on the premises subject to the District of Columbia Cross-Connection Control regulation provided in 21 DCMR Chapter 54 and the District of Columbia Construction Codes Supplement.
- (c) Residential customers shall not be charged the Cross-Connection/Back Flow Prevention Monthly Fee for a BPA on fire service connections but shall be subject to the fee for other plumbing connections, including but not limited to, lawn irrigation systems, swimming pools, chillers/cooling towers, and other similar systems that have contaminants or pollutants that may contaminate the District's potable water system.

A new Subsection 112.13 is added to read as follows:

112.13 Except as provided below, Non-Residential Customers shall be charged the FOG Facility Monthly fee as provided in 21 DCMR § 112.6 for each Food Service Establishment (FSE) that operates on the premises and has the potential to

discharge oil or grease laden wastewater to the District's wastewater system in accordance with the following requirements:

- (a) Applicable Food Service Establishments (FSE) shall include, but not limited to: bakeries; bars; candy manufacturers; cafeterias, caterers; coffee shops; delicatessens; commercial kitchens operated in educational institutions, hospitals, hotels/motels, and religious institutions; grocery stores; wholesale or retail ice cream facilities; wholesale and retail marine food facilities; restaurants; and other wholesale or retail facilities that have the potential to discharge oil or grease laden wastewater to the District's wastewater system; and subject to: the District's Pretreatment Standards and limits provided in 21 DCMR §§ 1501.01 *et seq.* and the District of Columbia Consumer and Regulatory Affairs Food Establishment Wholesale or Retail Licensing and grease abatement requirements.
- (b) The FOG Facility Monthly fee shall not be charged as follows:
 - (1) The Customer notifies General Manager that the FSE operates under an Industrial User Pretreatment Permit issued pursuant to the requirements in 21 DCMR Chapter 15, Discharges to Wastewater System;
 - (2) The Customer notifies the General Manager that the FSE does not exist or is permanently closed; or temporarily closed due to construction or renovation and notifies DC Water thirty (30) days prior the opening/operation of the FSE; or
 - (3) The Customer requests a Zero FOG Discharge Exemption that the FSE does not have the potential to discharge oil or grease laden wastewater to the District's wastewater system in accordance with the following requirements:
 - (A) The Customer submits a DC Water Food Service Establishment Wastewater Questionnaire to the General Manager that demonstrates the FSE on the premises does not have the potential to discharge oil or grease laden wastewater to the District's wastewater system.
 - (B) Upon receipt of the DC Water Food Service Establishment Wastewater Questionnaire the General Manager shall conduct a site inspection to confirm that the FSE on the premises does not have the potential to discharge grease laden wastewater to the District's wastewater system. Please note: During the review of the Zero FOG Discharge Exemption request, the account shall continue to be billed

for the FOG Facility Monthly Fee, but shall not be subject to any penalty, or interest charge for nonpayment of the Fee.

- (C) The General Manager shall issue a written determination approving or denying the Zero FOG Discharge Exemption and if approved, shall credit the account for amount of the FOG Monthly Fee billed as of the date of the request for exemption.
- (c) The Customer may challenge the bill or the determination of the General Manager denying the Zero FOG Discharge Exemption in accordance with the procedures set forth in Chapter 4 of this title.

Section 199, DEFINITIONS, is amended by adding the following terms and definitions to Subsection 199.1 to read as follows:

Cross-Connection/Back Flow Prevention Monthly Fee – fee charged to Residential, Multi-Family and Non-Residential Customers to recover the facility inspection and oversight costs for each Backflow Prevention Assembly on the premises.

Fats, Oil and Grease (FOG) Facility Monthly Fee – fee charged to Non-Residential Customers to recover the facility inspection and oversight costs for each Food Service Establishment operating on the premises that has the potential to discharge oil or grease laden wastewater to the District's wastewater system.

Food Service Establishment (FSE) – Facility that has the potential to discharge oil or grease laden wastewater to the District's wastewater system, including but not limited to, bakeries; bars; candy manufacturers; cafeterias, caterers; coffee shops; delicatessens; commercial kitchens operated in educational institutions, hospitals, hotels/motels, and religious institutions; grocery stores; wholesale or retail ice cream facilities; wholesale and retail marine food facilities; restaurants; and other wholesale or retail facilities that have the potential to discharge oil or grease laden wastewater to the District's wastewater system; and subject to the District's Pretreatment Standards and limits provided in 21 DCMR §§ 1501.01 et seq. and the District of Columbia Consumer and Regulatory Affairs (DCRA) Food Establishment Wholesale or Retail Licensing requirements.

Chapter 4, CONTESTED WATER AND SEWER BILLS, is amended as follows:

Section 400, RIGHT TO CHALLENGE GENERAL MANAGER'S DECISIONS AND BILLS, is amended by adding a new Subsection 400.7 to read as follows:

400.7 A Non-Residential Customer may appeal a determination issued by the General Manager denying a Zero FOG Discharge Exemption issued pursuant to Subsection 112.13 of this title by following the procedures set forth in this chapter.

Section 401, NOTICE OF RIGHT TO CHALLENGE BILLS, AND PRACTICABILITY AND IMMINENT THREAT DETERMINATIONS, is amended by adding a new Subsection 401.4 to read as follows:

- 401.4 A determination issued by the General Manager denying a Zero FOG Discharge Exemption shall contain a written statement advising the customer of the following:
- (a) The Customer may challenge the denial in accordance with the provisions in Section 402;
 - (b) The Customer may request a hearing in writing, within fifteen (15) days of receipt of the General Manager's written determination, if he or she is not satisfied with the General Manager's determination; and
 - (c) The Customer shall be notified in writing of the date and time of any hearing, if requested.

Section 402, INITIATING A CHALLENGE, is amended by adding a new Subsection 402.10 to read as follows:

402.10 A Non-Residential Customer subject to the requirements of Subsection 112.13 of this title, may appeal the General Manager's determination denying a Zero FOG Discharge Exemption by filing a petition for an administrative hearing within fifteen (15) days of the date of the General Manager's written determination in accordance with the requirements set forth in Section 412 entitled "Petition for Administrative Hearing":

Section 410, ADMINISTRATIVE HEARINGS, is amended as follows:

Subsection 410.1, paragraph (h) and (i) are amended, and a new paragraph (j) is added to read as follows:

- (h) Issuance, suspension, termination, or denial of a Temporary Discharge Authorization or Waste Hauler Discharge Permit, or the terms and conditions of a Temporary Discharge Authorization or Waste Hauler Discharge Permit;
- (i) Suspension of water and sewer service due to an imminent danger to the environment or the operation or integrity of the District's wastewater system; and
- (j) The Zero FOG Discharge Exemption determination that a Food Service Establishment has the potential to discharge oil and grease laden wastewater to the District's wastewater system.

**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 extend option year 2 of the contract and add funding in the amount of \$1,665,000.00

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME: Colonial Chemicals, Inc. 916 West Lathrop Avenue Savanah, GA 31415	SUBS: N/A	PARTICIPATION: 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:	\$1,805,000.00
Prior Modification Dates:	06-01-2017 – 08-06-2018
Option Year 1 Value:	\$7,052,000.00
Option Year 1 Dates:	07-01-2017 – 08-06-2018
Option Year 2 Value:	\$5,940,000.00
Option Year 2 Dates:	08-07-2018 – 08-06-2019
Requested Modification Value:	\$1,665,000.00
Requested Modification Dates:	08-07-2019—11-30-2019

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:

Methanol is the nutrient and carbon source for bacteria in the denitrification process of Blue Plains, where nitrogen is removed to comply with DC Water’s environmental permits.

This contract action extends option year 2 by four months and adds \$1,665,000 funding. The time extension is to enable DC Water to complete an RFP where other utilities have been invited to leverage combined volumes.

Spending Previous Year:

Cumulative Contract Value:	08-07-2016 to 08-06-2019: \$20,160,280.00
Cumulative Contract Spending:	08-07-2016 to 05-01-2019: \$17,788,450.00

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

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

BUDGET INFORMATION

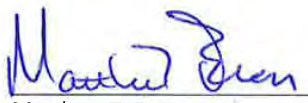
Funding:	Operating	Department:	Wastewater Treatment
Service Area:	Blue Plains AWTP	Department Head:	Aklile Tesfaye

ESTIMATED USER SHARE INFORMATION

User	Share %	Dollar Amount
District of Columbia	45.15%	\$751,747.50
Washington Suburban Sanitary Commission	39.61%	\$659,506.50
Fairfax County	9.76%	\$162,504.00
Loudoun Water	4.74%	\$78,921.00
Other (PI)	0.74%	\$12,321.00
TOTAL ESTIMATED DOLLAR AMOUNT	100.00%	\$1,665,000.00

 / 05/29/19
 Aklile Tesfaye Date
 VP of Wastewater Operations

 / 5/31/19
 Dan Bae Date
 VP of Procurement and Compliance

 / 6/7/19
 Matthew T. Brown Date
 CFO and EVP of Finance and Procurement

_____/_____
 David L. Gadis Date
 CEO and General Manager

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

ACTION REQUESTED

**GOODS AND SERVICES CONTRACT EXERCISE OPTION YEAR
Security Systems Integration and Management Services
(Joint Use)**

Approval to execute option year 2 for security systems integration and services contract in the amount of \$1,660,000.00.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME: Enterprise Security Solutions 40 East Henrietta St. Smithburg, MD 21783	SUBS: Telecommunications Development Co. 1919 13 th St. NW Washington, DC 20009 LSBE	PARTICIPATION: 30%
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DESCRIPTION AND PURPOSE

Original Contract Value:	\$5,943,868.00
Base Contract Period:	10-01-2016 – 09-30-2018
Number of Option Years:	3
Contract Modification No 1 Value	\$1,100,000.00
Contract Modification No 1 Dates	10-01-2017 – 09-30-2018
Option Year 1 Value:	\$1,587,000.00
Option Year 1 Dates:	10-01-2018 – 09-30-2019
Option Year 2 Value:	\$1,660,000.00
Option Year 2 Dates:	10-01-2019 – 09-30-2020

Purpose of the Contract:

The Department of Security has a need for security systems integration and management services in support of DC Water’s designation by the Department of Homeland Security as a critical infrastructure national asset, in accordance with the 2013 Presidential Policy Directive/ PPD 21, “Critical Infrastructure Security and Resilience”.

This Contract extension to exercise option year 2 shall provide ongoing and new Security related Project Installations, integration and management services for electronic security systems and devices throughout all DC Water facilities.

Contract Scope:

To provide security systems integration and management services at DC Water facilities including:

- Capital equipment: Security infrastructure, cameras, card readers, door/window/hatch sensors, fence-line detection systems, automated entry/exit data capture and other elements plus all software support.
- Operating Services include: routine maintenance and repairs of all pre-existing security systems.

Contract Modification Scope:

DC Water will exercise option year 2 from October 1, 2019 until September 30, 2020. The additional funds needed to exercise this option year is \$ 1,660,000.00. The breakdown of funds for the option year is:

- \$ 695,000 for Capital Improvement (Equipment System’s upgrade)
- \$ 515,000 for Capital Equipment (New Equipment)
- \$ 450,000 for Systems Maintenance

Spending Previous Year:

Cumulative Contract Value:	10-01-2016 to 09-30-2019:	\$ 8,630,868.00
Cumulative Contract Spending:	10-01-2016 to 05-23-2019:	\$ 7,720,103.65

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 and requirements.

PROCUREMENT INFORMATION

Contract Type:	Fixed Hourly Rate	Award Based On:	Highest Ratings
Commodity:	Good and Services	Contract Number:	16-PR-SEC-23
Contractor Market:	Open Market with Preference Points for LBE and LSBE Participation		

BUDGET INFORMATION

Funding:	Operating	Department:	Security
Project Area:	DC Water Wide	Department Head:	Ivelisse Cassas

ESTIMATED USER SHARE INFORMATION

User – Operating (54090)	Share %	Dollar Amount
District of Columbia	45.15%	\$203,175.00
Washington Suburban Sanitary Commission	39.61%	\$178,245.00
Fairfax County	9.76%	\$43,920.00
Loudoun Water	4.74%	\$21,330.00
Other (PI)	0.74%	\$3,330.00
TOTAL ESTIMATED DOLLAR AMOUNT	100.00%	\$450,000.00

BUDGET INFORMATION

Funding:	Capital Equipment & Improvement	Department:	Security
Project Area:	DC Water Wide	Department Head:	Ivelisse Cassas

User - Capital Improvement (CW & E9)	Share %	Dollar Amount
District of Columbia	41.22%	\$286,479.00
Washington Suburban Sanitary Commission	45.84%	\$318,588.00
Fairfax County	8.38%	\$58,241.00
Loudoun Water	3.73%	\$25,923.50
Other (PI)	0.83%	\$5,768.50
TOTAL ESTIMATED DOLLAR AMOUNT	100.00%	\$695,000.00

User – Capital Equipment (EQP3610)	Share %	Dollar Amount
District of Columbia	78.67%	\$405,150.50
Washington Suburban Sanitary Commission	16.18%	\$83,327.00
Fairfax County	3.30%	\$16,995.00
Loudoun Water	1.56%	\$8,034.00
Other (PI)	0.29%	\$1,493.50
TOTAL ESTIMATED DOLLAR AMOUNT	100.00%	\$515,000.00

 / 6/13/19
Maureen Holman Date
EVP of Administration

 / 6/13/19
Dan Bae Date
VP of Procurement and Compliance

 / 6/13/19
Matthew T. Brown Date
CFO and EVP of Finance and Procurement

_____/_____
David L. Gadis Date
CEO and General Manager

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

ACTION REQUESTED

**GOODS AND SERVICES CONTRACT OPTION YEAR
Small Construction and Renovation Projects
(Joint Use)**

This contract action is to execute option year 1 of the contract and add funding in the amount of \$1,955,000.00.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME:	SUBS:	PARTICIPATION:
ADP Group, Inc.* Washington, DC 20019	N/A	100%
North Arrow Co.* Washington, DC 20002	N/A	100%
Mid-Atlantic General Contractors* Beltsville, MD 20705	N/A	100%

*LSBE

DESCRIPTION AND PURPOSE

Original Contract Value: \$0.00
 Original Contract Dates: 07-13-2018 — 07-12-2019
 No. of Option Years in Contract: 2
 Contract Modification Value: \$1,202,307.79
 Contract Modification Dates: 07-13-2018 — 05-28-2019
This Option Year 1 Value: \$1,955,000.00
This Option Year 1 Dates: 07-13-2019 — 09-30-2020

Purpose of the Contract:

DC Water needs the services of qualified general contractors, licensed in the Washington DC Metropolitan area to provide general construction work for roof, carpentry, partition installation & removal, dry wall systems, plumbing, cast and place concrete, HVAC, electrical applications, demolition as applicable to the project, painting, fall protection, ceiling & floor tiles and any other related to small construction & renovations that arises within the Authority.

ADP Group, Inc., North Arrow Inc. and Mid- Atlantic General Contractors, were awarded separate IDIQ contracts to provide general small construction and renovation projects.

Contract Modification:

For the Option Year 1, the following projects are identified with available budget in the amount of \$1,955,000.00.

- Water System Laboratory Facilities at Blue Plains (DU)
- Fort Reno Pump Station (HF)
- CMF Renovation (HK)
- Floatable Debris Dock Replacement (NZ)
- Bryant St. Pump Station Building Mod (HE)

Spending Previous Year:

Cumulative Contract Value: 07-13-2018 to 07-12-2019 --\$1,202,307.79
 Cumulative Contract Spending: 07-13-2018 to 05-28-2019 --\$1,189,162.49

Contractor's Past Performance:

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

PROCUREMENT INFORMATION

Contract Type:	Indefinite Delivery/Indefinite Quantity (IDIQ) Contract	Award Based On:	Highest Ratings
Commodity:	Small Construction Projects	Contract Number:	18-PR-DFS-28
Contractor Market:	Open Market with Preference Points for LSBE/LBE		
Projects	DU, HF, HK, NZ, HE		

BUDGET INFORMATION


Funding:	Capital Improvement	Department:	Facilities
Service Area:	Non-Process Facilities	Department Head:	Brent Christ

ESTIMATED USER SHARE INFORMATION

User	Share %	Dollar Amount
District of Columbia	41.22%	\$805,851.00
Washington Suburban Sanitary Commission	45.84%	\$896,172.00
Fairfax County	8.38%	\$163,829.00
Loudoun Water	3.73%	\$72,921.50
Other (PI)	0.83%	\$16,226.50
TOTAL ESTIMATED DOLLAR AMOUNT	100.00%	\$1,955,000.00

 / 6/4/2019
 Maureen Holman Date
 EVP of Administration

 / 6/4/19
 Dan Bae Date
 VP of Procurement and Compliance

 / 6/7/19
 Matthew T. Brown Date
 CFO and EVP of Finance and Procurement

 David L. Gadis Date
 CEO and General Manager

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

ACTION REQUESTED

ENGINEERING SERVICES:

**Supervisory Control and Data Acquisition (SCADA) System Integrator Services
(Joint Use)**

Approval to execute an architectural and engineering services contract not to exceed \$4,000,000.00

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME:	SUBS:	PARTICIPATION:
MC Dean 1765 Greensboro Station Place Tyson, VA 22102	CCJM Washington, DC	MBE 10.0%
	Peak Technologies Washington, DC	MBE 6.0%
	BVF Engineering Columbia, MD	MBE 6.0%
	PCI Detroit, MI	MBE 6.0%
	Tilt-Up West River, MD	WBE 4.0%

DESCRIPTION AND PURPOSE

Contract Value, Not-To-Exceed: \$4,000,000.00
 Contract Time: 1460 Days (4 Years, 0 Months)
 Anticipated Contract Start Date: 10-01-2019
 Anticipated Contract Completion Date: 10-01-2023

Other firms submitting proposals/qualification statements:

- Automated Control Concepts, Inc.
- Hatch
- Optimum Controls Corporation (OCC)*
- Tetra Tech Inc.

* Asterisk indicates short listed firms.

Purpose of the Contract:

To provide Supervisory Control and Data Acquisition (SCADA) system integrator services, to implement necessary upgrades and increase reliability of the existing water, stormwater and sewer facilities including pump stations, tanks, reservoirs fibradams, odor control sites and metering stations.

Certain data required for permit reporting is generated by the SCADA system; therefore, this work is critical in meeting the permit requirements.

Contract Scope:

Scope of work will be developed and issued to the Contractor on a task order basis by DC Water. Typical work scope includes but is not limited to:

- Upgrade existing Water and Sewer facilities to reflect the new SCADA Programming Standards.
- Interface stormwater pump stations to the SCADA system.
- Implement consistent power monitoring and Variable Frequency Drives (VFD) monitoring.
- Eliminate the panalarm panel that is single point of failure at East Side sewer pump station.
- Improve back-up and redundancy to the existing SCADA control system.
- To implement other SCADA and instrumentation services requested by DC Water

PROCUREMENT INFORMATION

Contract Type:	Cost Plus Fixed Fee, Lump Sum	Award Based On:	Highest Ranking Score
Commodity:	Engineering Services	Contract Number:	DCFA 501
Contractor Market:	Open Market		

BUDGET INFORMATION

Funding:	Capital	Department:	Wastewater Engineering
Service Area:	Sanitary, Stormwater, Water	Department Head:	Algyon Collymore
Project:	MC, LT		


****ESTIMATED USER SHARE INFORMATION**

User	Share %	Dollar Amount
District of Columbia	100.00%	\$ 4,000,000.00
Federal Funds	0.00%***	\$
Washington Suburban Sanitary Commission	0.00%	\$
Fairfax County	0.00%	\$
Loudoun County & Potomac Interceptor	0.00%	\$
Total Estimated Dollar Amount	100.00%	\$ 4,000,000.00

** 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.

*** Eligible for Federal Grant Funding. Grant funding is insufficient to fund all eligible contracts. Federal Grant Funding may be used if additional funding becomes available or if other eligible projects are postponed.

 _____, 6-11-19
 Leonard R. Benson Date
 Senior Vice President, Chief Engineer

 _____, 6/14/19
 Matthew T. Brown Date
 CFO and EVP of Finance and Procurement

 _____, 6/14/19
 Dan Bae Date
 VP of Procurement and Compliance

_____, _____
 David L. Gadis Date
 CEO and General Manager

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

ACTION REQUESTED

ENGINEERING SERVICES:

**Supervisory Control and Data Acquisition (SCADA) System Integrator Services
(Joint Use)**

Approval to execute an architectural and engineering services contract not to exceed \$4,000,000.00

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME:	SUBS:	PARTICIPATION:
Optimum Controls Corporation (OCC) 1044 MacArthur Road Reading, PA 19605	CCJM Washington, DC	MBE 28.0%
	Ideal Electric Supply Washington, DC	WBE 4.0%

DESCRIPTION AND PURPOSE

Contract Value, Not-To-Exceed: \$4,000,000.00
 Contract Time: 1460 Days (4 Years, 0 Months)
 Anticipated Contract Start Date: 10-01-2019
 Anticipated Contract Completion Date: 10-01-2023

Other firms submitting proposals/qualification statements:

- Automated Control Concepts, Inc.
- Hatch
- MC Dean*
- Tetra Tech Inc.

* Asterisk indicates short listed firms.

Purpose of the Contract:

To provide Supervisory Control and Data Acquisition (SCADA) system integrator services, to implement necessary upgrades and increase reliability of the existing water, stormwater and sewer facilities including pump stations, tanks, reservoirs fibradams, odor control sites and metering stations.

Certain data required for permit reporting is generated by the SCADA system; therefore, this work is critical in meeting the permit requirements.

Contract Scope:

The scope of work will be developed and issued to the Contractor on a task order basis by DC Water. Typical work scope includes but is not limited to:

- Upgrade existing Water and Sewer facilities to reflect the new SCADA Programming Standards.
- Interface stormwater pump stations to the SCADA system.
- Implement consistent power monitoring and Variable Frequency Drives (VFD) monitoring.
- Eliminate the panalarm panel that is single point of failure at East Side sewer pump station.
- Improve back-up and redundancy to the existing SCADA control system.
- To implement other SCADA and instrumentation services requested by DC Water

PROCUREMENT INFORMATION

Contract Type:	Cost Plus Fixed Fee, Lump Sum	Award Based On:	Highest Ranking Score
Commodity:	Engineering Services	Contract Number:	DCFA 505
Contractor Market:	Open Market		

BUDGET INFORMATION


Funding:	Capital	Department:	Wastewater Engineering
Service Area:	Sanitary, Stormwater, Water	Department Head:	Algyon Collymore
Project:	MC, LT		


****ESTIMATED USER SHARE INFORMATION**

User	Share %	Dollar Amount
District of Columbia	100.00%	\$ 4,000,000.00
Federal Funds	0.00%***	\$
Washington Suburban Sanitary Commission	0.00%	\$
Fairfax County	0.00%	\$
Loudoun County & Potomac Interceptor	0.00%	\$
Total Estimated Dollar Amount	100.00%	\$ 4,000,000.00

** 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.

*** Eligible for Federal Grant Funding. Grant funding is insufficient to fund all eligible contracts. Federal Grant Funding may be used if additional funding becomes available or if other eligible projects are postponed.


 Leonard R. Benson 1 6 -11-19
 Senior Vice President, Chief Engineer Date


 Matthew T. Brown 6/14/19
 CFO and EVP of Finance and Procurement Date


 Dan Bae 6/14/19
 VP of Procurement and Compliance Date

 David L. Gadis Date
 CEO and General Manager



District of Columbia Water and Sewer Authority
David L. Gadis, CEO and General Manager

Briefing on:
***DC Clean Rivers Project
Green Infrastructure Program***

Briefing for:
Environmental Quality and Operations Meeting

June 20, 2019



DCWATER.COM

Green Infrastructure Program

Program Drivers

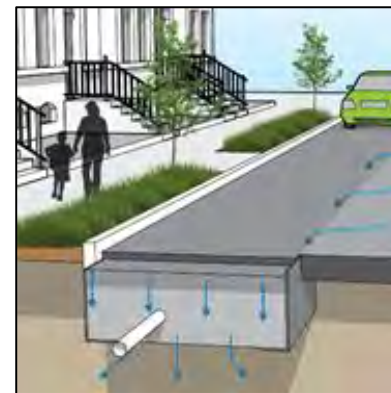
- Volume Management (Gallons)
 - Control Combined Sewer Overflows
- Cost Effectiveness
 - Responsibility to Rate Payers
- Maintenance/Asset Management
 - Safety
 - Aesthetics
 - Performance
- Outreach
 - Build Public Awareness and Stewardship
- Triple Bottom Line Benefits
 - Deliver Multiple Benefits to the Community



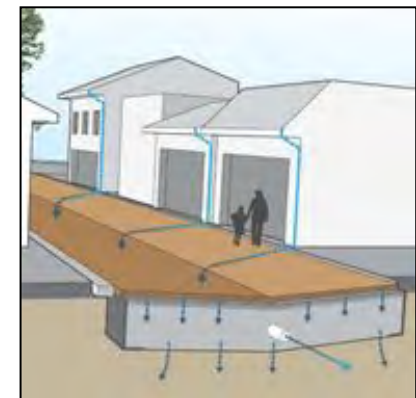
Curb Extension
Bioretention



Planter
Bioretention



Permeable
Parking Lane



Permeable Alley

Green Infrastructure Program

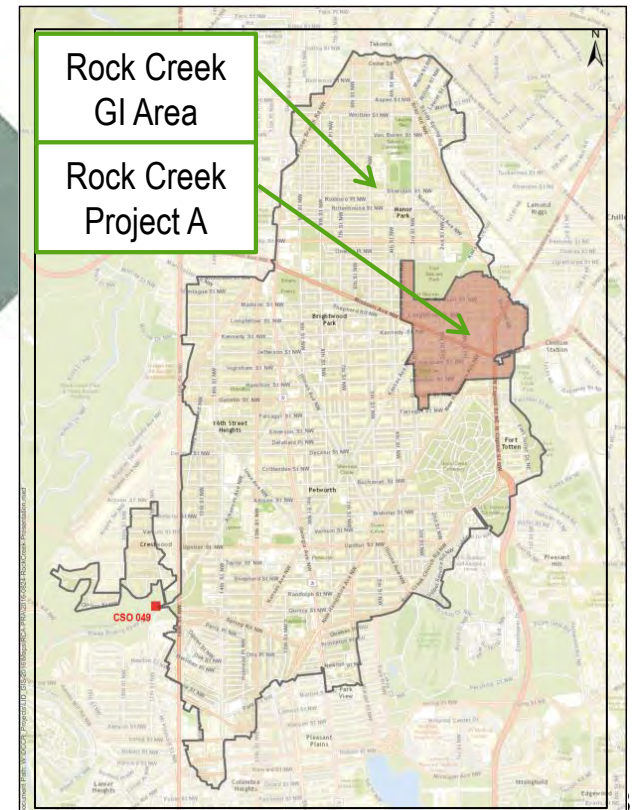
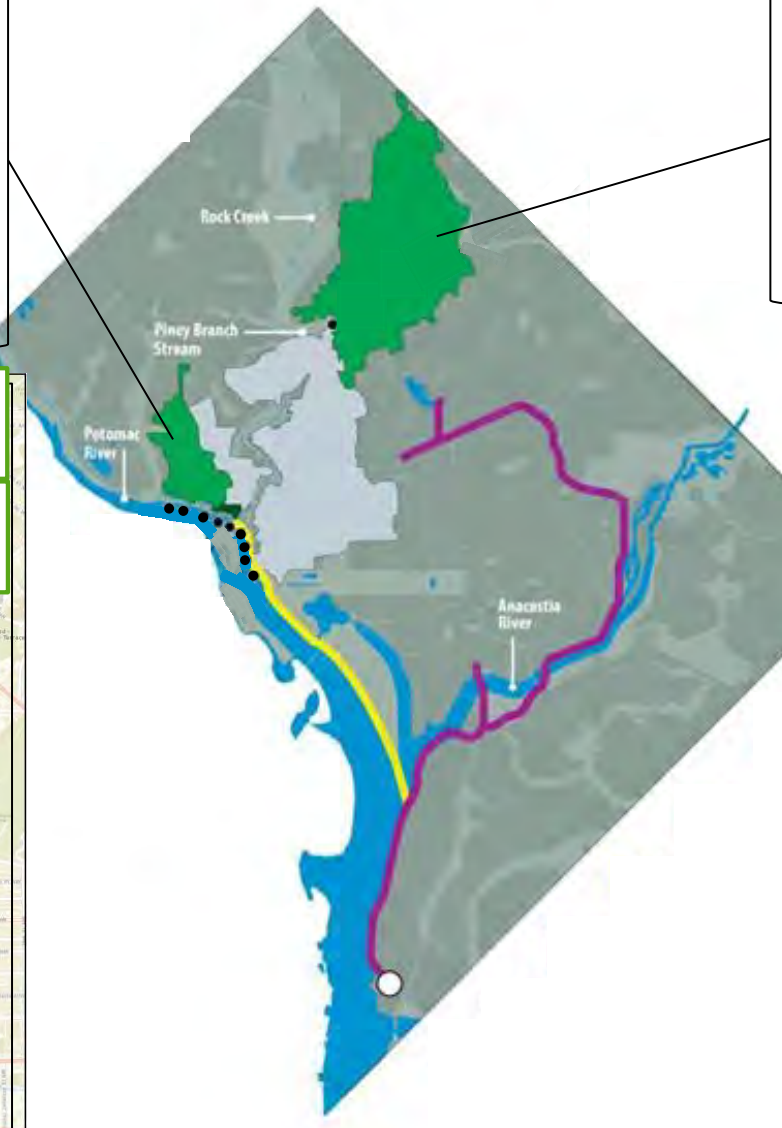
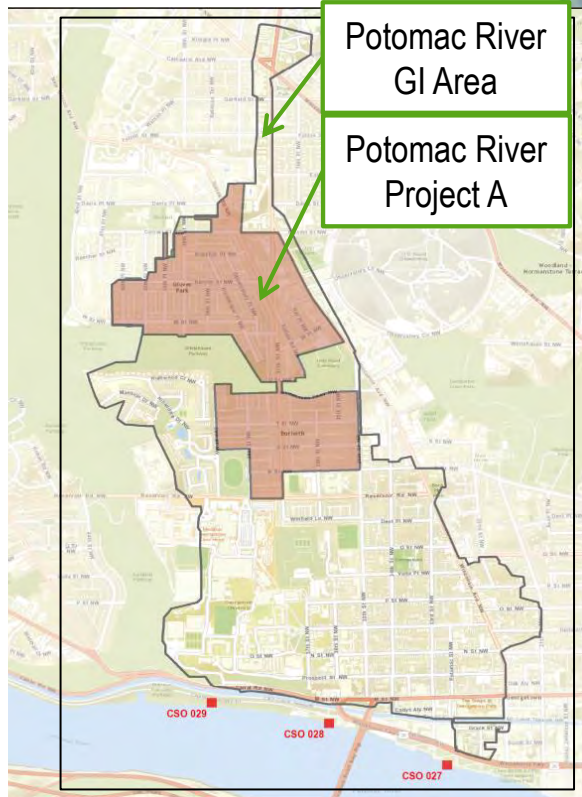
First Projects are Complete!

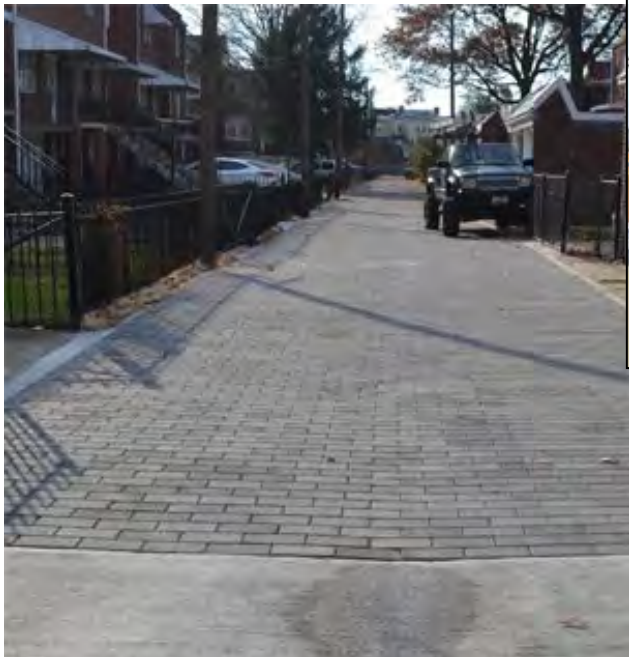
Potomac River Initial Project:

- 1st of 3 Contracts
- Manages 44 of 133 impervious acres (8 w/GI 36 w/sewer separation)
- Substantial Completion: April, 2019
- Contract Value: \$6,265,503

Rock Creek Initial Project:

- 1st of 5 contracts
- Manages 22 of 365 impervious acres
- Substantial Completion: October, 2018
- Contract Value: \$26,841,394





Green Infrastructure Program

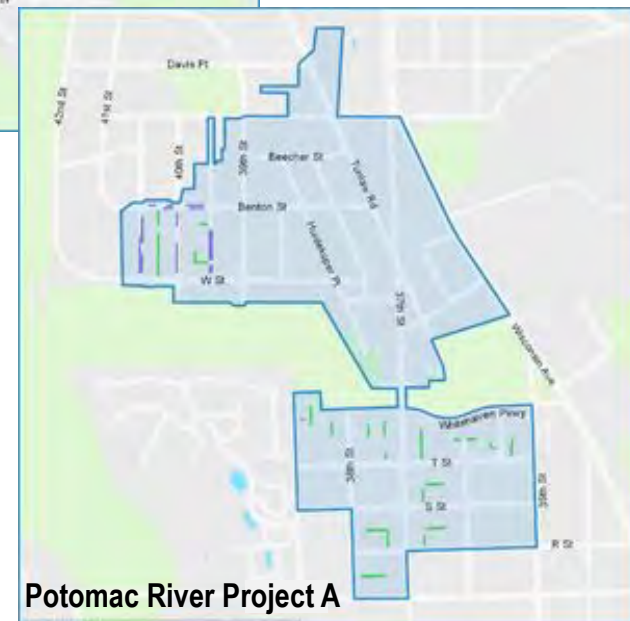
Completed GI Locations

GI Practices Constructed:

- 54 Alley Permeable Pavement
- 23 Parking Lane Permeable Pavement
- 41 Planter Bioretention
- 2 Curb Extension Bioretention
- 2 GI Challenge Parks

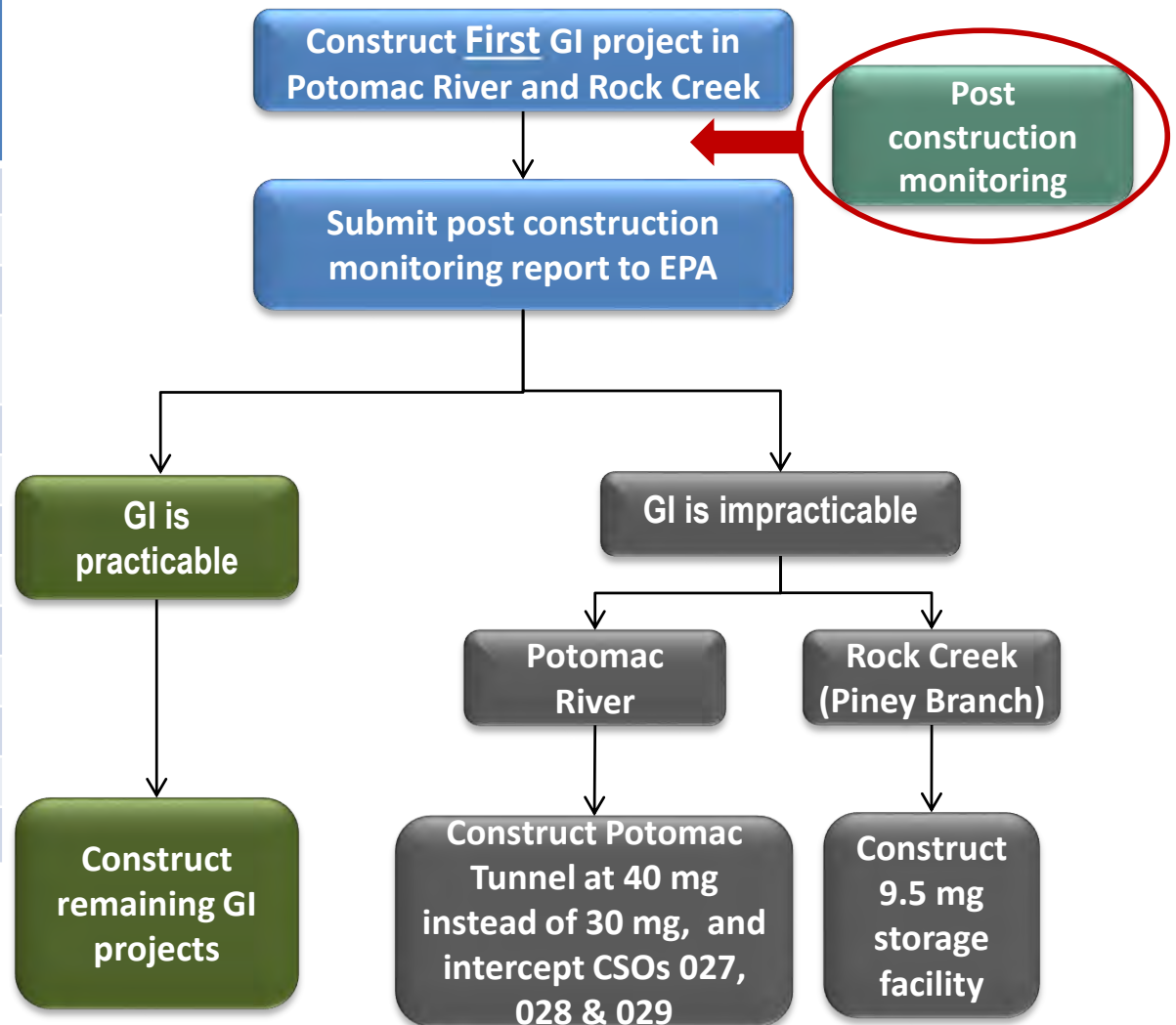
All 120 facilities plus the 2 parks can be found on the DC Water web site

www.dcwater.com/green



Green Infrastructure Program Consent Decree Requirements

Project	Impervious acres managed @ 1.2"	Place in operation deadline
Potomac River Project 1	44	2019
Practicability assessment		➔
Potomac River Project 2	46	2024
Potomac River Project 3	43	2027
Subtotal	133	
Rock Creek Project 1	20	2019
Practicability assessment		➔
Rock Creek Project 2	75	2024
Rock Creek Project 3	90	2027
Rock Creek Project 4	90	2029
Rock Creek Project 5	90	2030
Subtotal	365	
Grand Total	498	



Downspout Disconnection Program Overview: Progress to Date (2017-2018)

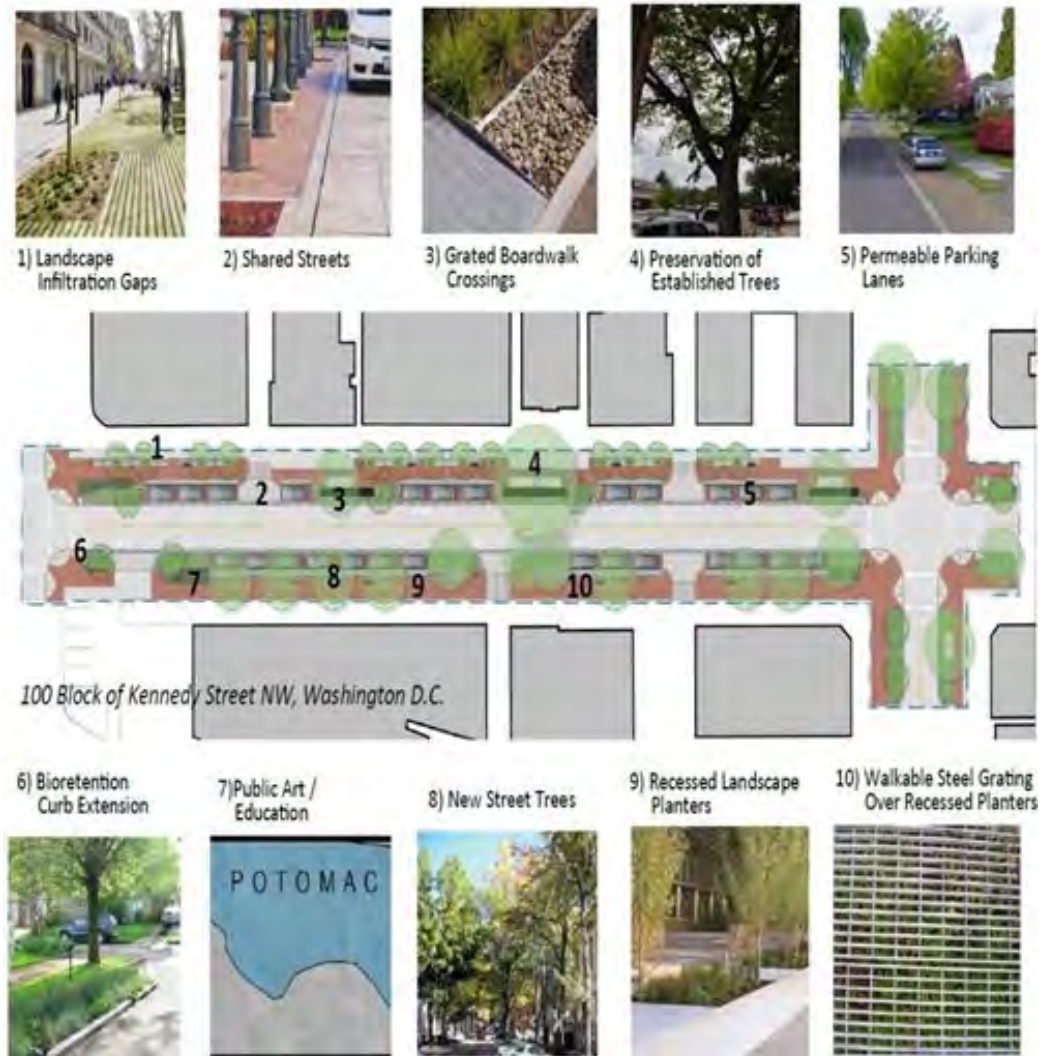
2017/2018 – (Work Completed to Date)	
Homes	4,400
Downspouts Evaluated	9,000
Downspouts Disconnected	252
Rain Barrels Installed	140
Homes Participating	186
Impervious Roof Acres Disconnected	2
Gallons of Stormwater Removed (per 1.2-inch Storm)	26,000
2019 – (Work to be Completed)*	
Target number of Homes	2000

*Third phase launched in April 2019



Partnership with DDOT Kennedy Street Revitalization Project

- Design closely coordinated with DDOT work on Kennedy Street NW
- DC Water awarded \$2.2 million for construction of GI
- Benefits
 - Manage 2 acres of stormwater runoff to reduce CSOs into the District's waterways
 - Improve traffic and safety conditions
 - Contribute to the revitalization of the historic Kennedy Street NW
- Completed June 2018



Partnership with DDOT Kennedy Street Revitalization Project

Before Construction



After Construction



DDOT AlleyPalooza Green Alley Partnership

- AlleyPalooza is the District's annual initiative to restore 8 alleys in 8 wards each summer
- DDOT and DC Water partnered to incorporate GI for alleys within the Rock Creek and Potomac River sewersheds
- The Green Alley Partnership aligns DDOT's and DC Water's goals while providing residents and ratepayers with newly constructed alleys that help reduce CSOs
- 7 alleys managing 2.7 acres of runoff constructed under the program for a cost of \$1.7M
- Completed September 2018



Questions?

Seth Charde
DC Clean Rivers Project
Green Infrastructure Manager
Seth.Charde@dcwater.com
(202) 787-4730



RC-A Kickoff Event - October 23, 2017
Permeable Parking Lane – It Works!

