

**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, September 19, 2019
9:30 a.m.*

	I.	Call to Order	Ivan Frishberg Acting Chair
9:30 a.m.	II.	AWTP Status Update	Aklile Tesfaye
		1. BPAWTP Performance	
9:45 a.m.	III.	CIP Quarterly Update	Paul Guttridge
10:00 a.m.	IV.	Biosolids Curing Pad	Christ Peot
10:15 a.m.	V.	Action Items	Dan Bae/Len Benson

Joint Use

1. Contract No.:15-PR-DWT-21 – Supply and Delivery of Sodium Hypochlorite, Kuehne Chemical Co. Inc.
2. Contract No.:15-PR-DWT-02 - Industrial Cleaning Services, Charmay, Inc. dba ServiceMasters of Alexandria
3. Contract No.:17-PR-BLOOM-01 – Marketing Services for Bloom Product, Blue Drop
4. Contract No.:16-PR-HCM-AC - For Temporary Staffing Services, MB Staffing and Premier Staffing

Non-Joint Use

		1. Contract Number: DCFA-502-WSA - Water Program Management (Engineering Services), Mott MacDonald North America	
10:35 a.m.	VI.	Other Business / Emerging Issues	
10:40 a.m.	VII.	Executive Session*	
11:00 a.m.	VIII.	Adjournment	Ivan Frishberg Acting 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: October 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. **[Forwarded Report to BOD Secretary, 9/9/19 will follow-up with a presentation at the October's meeting.]**
3. Vice 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: November 2019]**
4. Manager, Green Infrastructure, DC Water: Conduct a robust discussion with the Committee regarding per/acre costs of developing, operating and maintaining grey vs. green infrastructure. **[The Committee requested DCCR to return in 6 months to address this item. Target: December 2019]**
5. Vice President, Wastewater Operations: Provide an update on the root-cause and solution of the digester failure that led to elevated levels of fecal coliform in March, April and the first week of May 2019. **[On Current Agenda, included in the BPAWTP Report]**
6. Vice President, Wastewater Operations: Provide a presentation on proposed biosolids Curing Pad at September 2019 committee. **[On Current Agenda]**
7. Senior Vice President & Chief Engineer: Provide DC Water's MBE/WBE participation track record for previous years' contracts. **[Forwarded to BOD Secretary, 9/13/19]**
8. Senior Director, Water Operations: Provide an update regarding the total number of Public Fire Hydrants in service. **[Target: October 2019]**



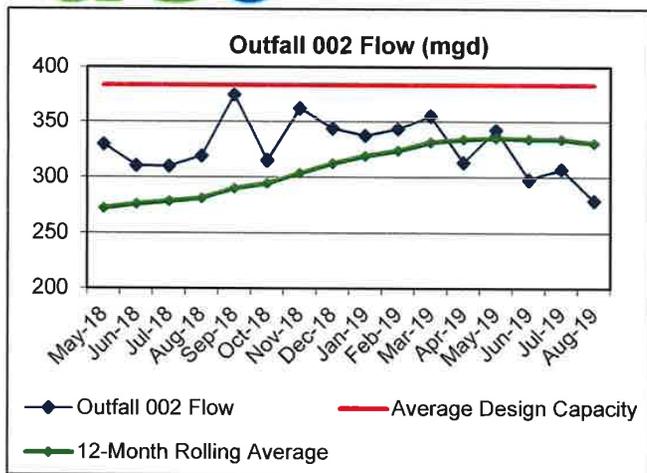
Blue Plains Advanced Wastewater Treatment Plant Performance Report

Environmental Quality and Operations Committee

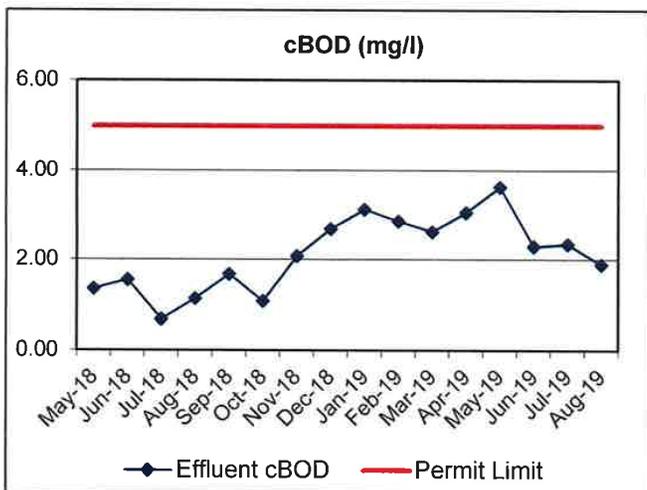
September 19, 2019



Complete Treatment Performance

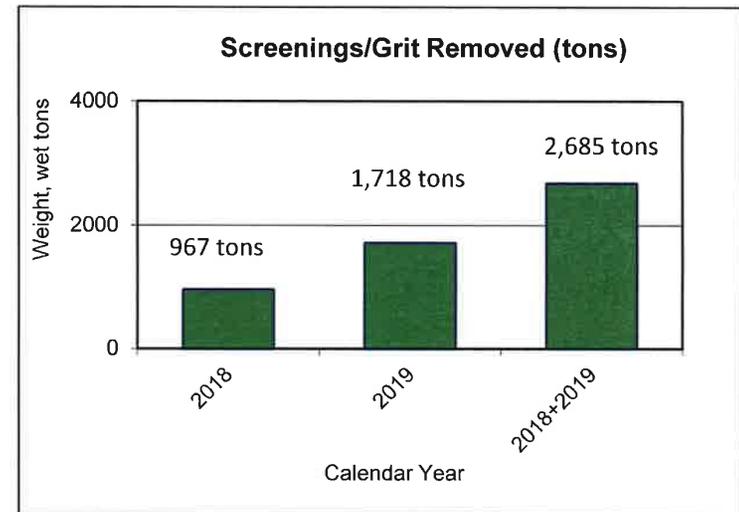
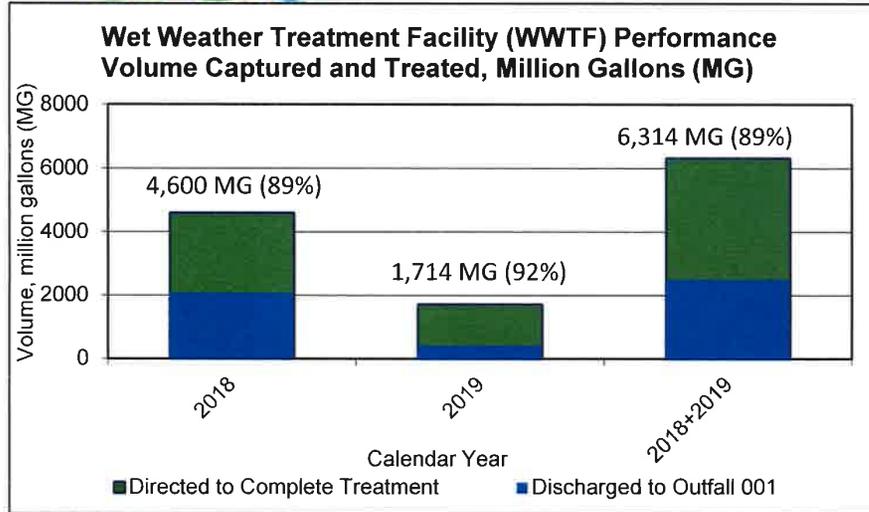


- Annual Average flow remained above 300 MGD since November 2018
- Plant performance was excellent with all effluent quality requirements well below or within the NPDES permit requirements
- The total pounds of nitrogen discharged in the complete treatment effluent is on track to remain below the NPDES permit discharge limit of 4,377,580 lbs. /year.





Wet Weather Treatment Facility Performance



	WWTF Influent	Outfall 001
Flow (MG)	332	89
cBOD (lbs)	126,289	12,238
TSS (lbs)	444,778	5,753
TN (lbs)	20,536	6,917
TP (lbs)	3,278	286
E.coli (cfu/100 mL)	686,429*	4.24**

- Exceeded predicted capture rate or 80% for tunnel systems in operations
- Effluent total suspended solids quality comparable to that of Secondary Treatment effluent

*Influent E.coli taken from various CSOs during LTCP sampling campaign

**Effluent E.coli is geometric mean of Jan to July 2019



Class A Biosolids Quality

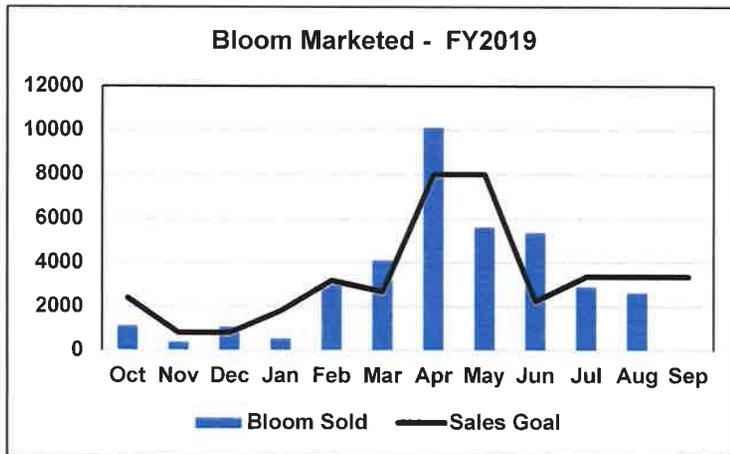
- Fecal Coliform values on daily process monitoring samples remained below 10 MPN/gram since May 7, 2019 and consistent with the low levels measured historically
- None of the compliance samples analyzed by VELAP certified laboratory exceeded the 1,000 MPN/gram Class A limit



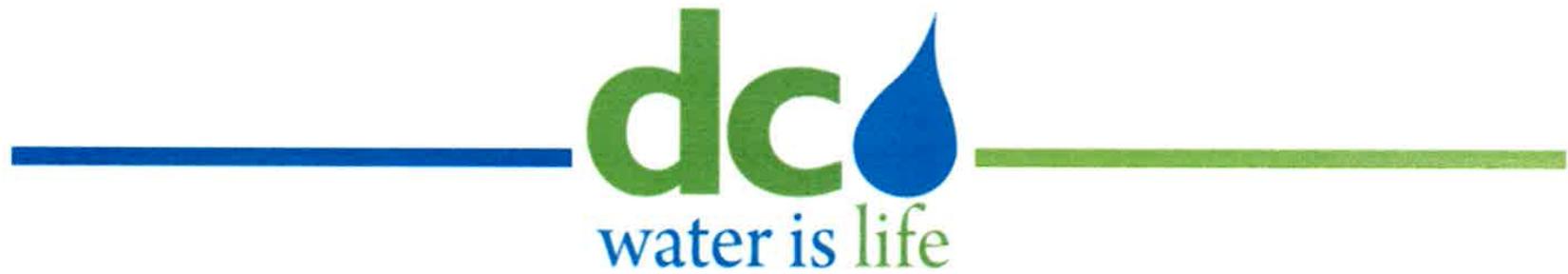
- Root cause for elevated levels in March and April is associated with one of four anaerobic digesters
- Digester isolated on May 6, 2019
- Active measures taken to prevent recurrence
- Finalizing a plan to bring the digester back into operations



Bloom Marketing

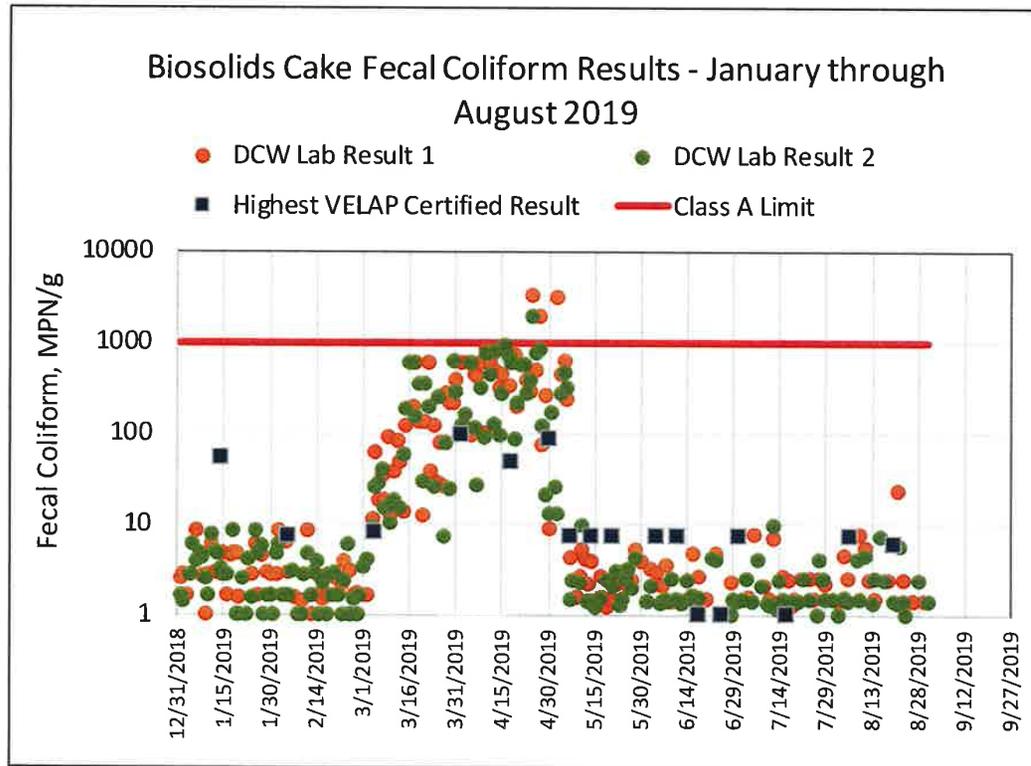


- ❑ 37,070 tons marketed through August or 93% of the 40,000 goal for the fiscal year 2019
- ❑ Goal during the remaining months is 3,360 tons



Biosolids Fecal Coliform

Biosolids Fecal Coliform

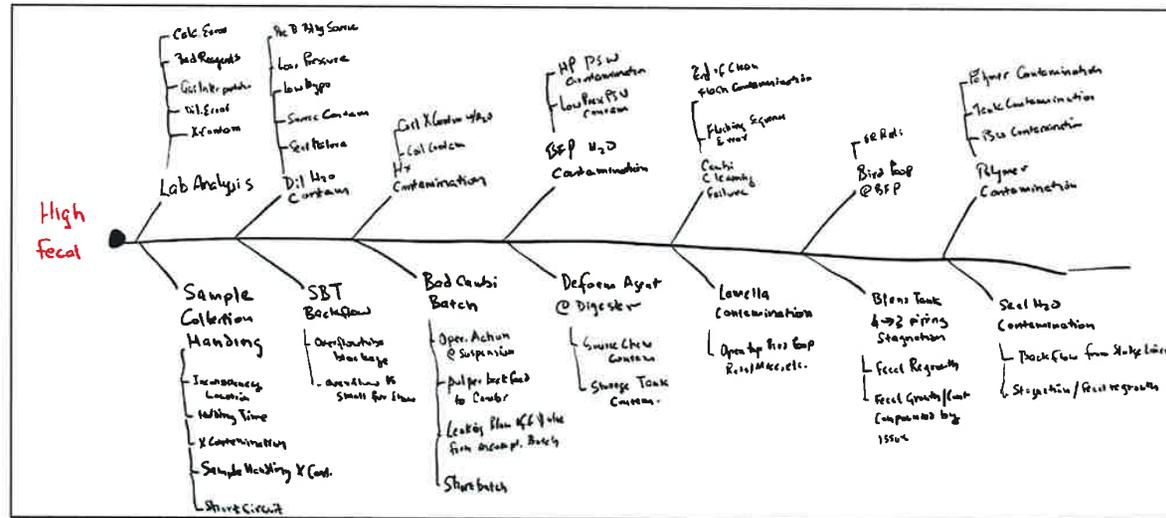


- Elevated levels in cake observed in mid-March thru April 2019
- Troubleshooting conducted March thru May
- Issue found with Digester 1
- Digester 1 taken out of service May 6
- Fecal coliform returned to normal low levels from May 7 onward

Actions Taken (March and April, 2019)

- Verified proper operation of all pumps and systems
- Cleaned all areas associated with Class A cake dewatering
- Increased chlorine content of dilution water and wash water
- Reviewed and modified sampling procedures
- Modified piping at Solids Blend Tanks to further ensure no opportunity for contamination
- Increased chlorine dosing to cooling water

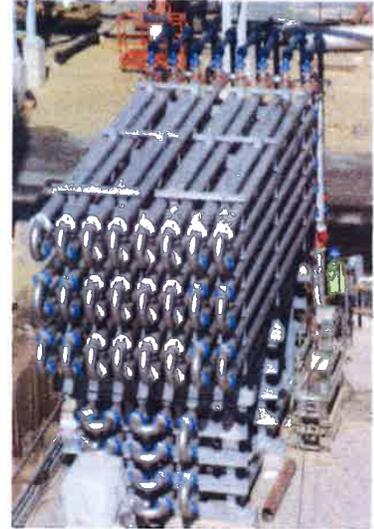
Root Cause Analysis



- Late March – conducted across entire biosolids system
 - Did not know source of issue at this time
 - Actions focused downstream of digesters
- April – conducted across entire biosolids system
 - Actions taken after first RCA did not resolve the issue
 - Troubleshooting data suggests Digester 1 (D1) is the culprit
 - Investigation plan developed for Digester 1
- September 5 – conducted mainly around Digester 1

Digester 1 Investigation

- All digesters receive common feed from Thermal Hydrolysis Process (THP) effluent
 - No apparent contamination from upstream sources
- Other inputs: defoaming agent, THP foul gas
- Heat Exchangers (HEX)
 - D1 HEX replaced between late Nov 2018 and early Jan 2019
 - Contamination from HEX installation possible but unlikely
 - Issue did not appear until March
 - Possible leaks from cooling water side to solids side
 - Multiple pressure and vacuum tests showed no leaks



Conclusions

- DC Water made a systematic and thorough evaluation
 - Three RCA efforts performed and documented by staff from operations, process engineering, maintenance, lab/research
 - Two reviewers outside the operation for fresh perspective
 - Additional troubleshooting analyses
 - Multiple pressure and vacuum tests of D1 HEX piping
- Contamination isolated to Digester 1
 - No leaks or system deficiencies
 - Many disruptive solids system shutdowns Nov thru March for HEX and valve replacements cannot be ruled out as a cause
- Actions taken to reduce risk and improve reliability
 - Enhanced guidelines for normal operations and solids outages
 - Additional sampling and analytical work
 - Minor piping modifications for additional isolation

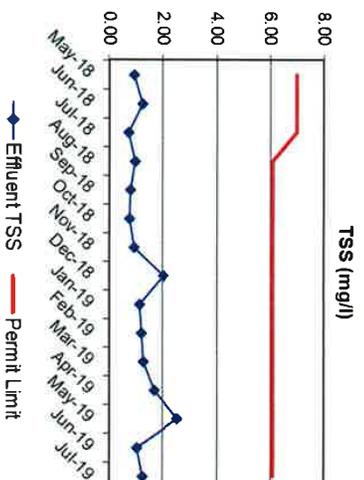
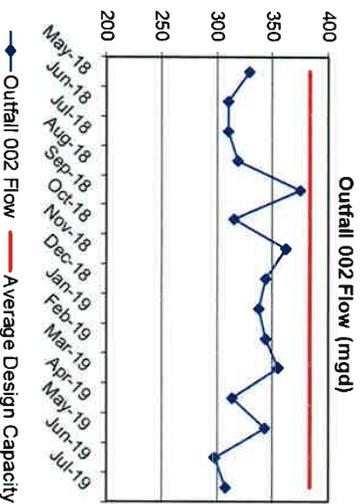
Path Forward

- Continue communication with EPA and State regulators
- Ensure compliance and protect Bloom brand by increasing quality control and monitoring for early detection
- Plan forward with controls in place
 - Prepare D1 for service by treating contents using temperature-phased digestion (thermophilic – mesophilic)
 - Monitor all 4 digesters, cooling water, and PSW to demonstrate integrity of process streams and provide early warning of potential issues
 - Enhanced inspection and process monitoring plan for solids system outages



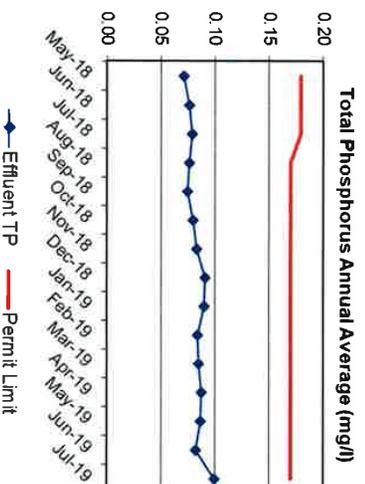
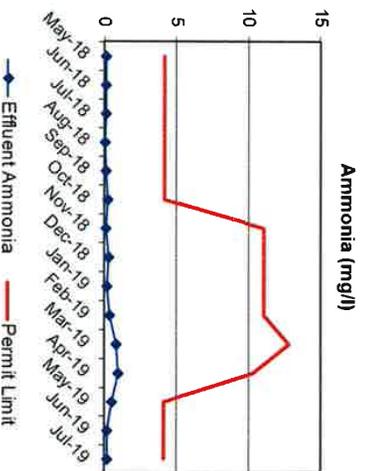
BLUE PLAINS ADVANCED WASTEWATER TREATMENT PLANT PERFORMANCE REPORT – JULY 2019

Average plant performance for the month of July 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 308 MGD. There was 89 million gallons of treated, captured and combined flows directed to Outfall 001 during this period. The following figures compare the plant performance with the corresponding NPDES permit limits.



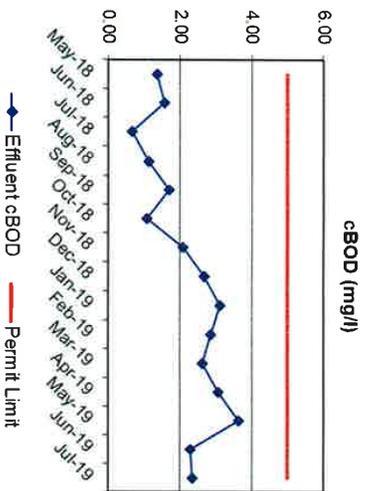
This graph illustrates the monthly average influent flow to the plant. The design average flow is 384 MGD. Blue Plains has a 4-hour peak flow capacity of 555 MGD through complete treatment. Once the plant is at capacity, up to 225 MGD of additional captured combined system flows from the tunnel can be 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 1.26 mg/L, which is below the 6.1 mg/L permit limit.

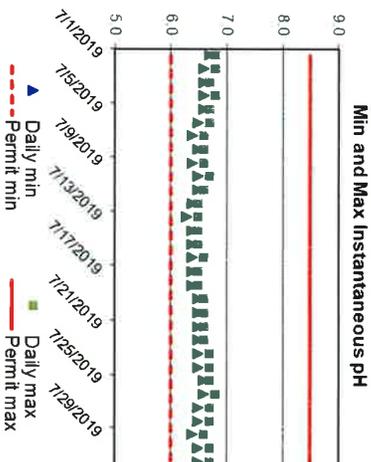


The Ammonia Nitrogen (NH₃-N) is a measurement of the nitrogen found in ammonia. For the month, effluent NH₃-N concentration averaged 0.21 mg/L and is below the 4.1 mg/L seasonal limit.

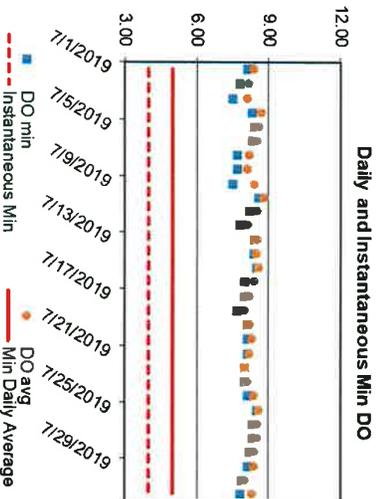
The Total Phosphorus (TP) is a measurement of the particulate and dissolved phosphorus in the effluent. The 12-month rolling average effluent TP concentration is 0.09 mg/L, which is below the 0.17 mg/L limit.



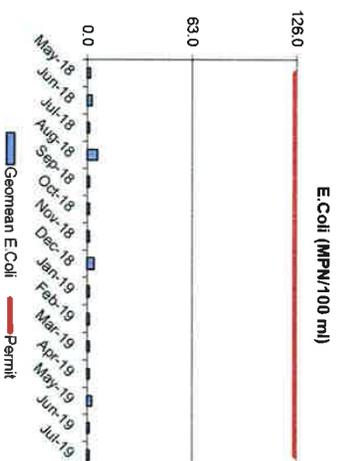
Carbonaceous Biochemical Oxygen Demand (CBOD) is a measurement of the amount of oxygen required for the decomposition of organic materials. The effluent CBOD concentration averaged 2.35 mg/L, which is below the 5.0 mg/L limit.



pH is a measurement of acidity of the effluent. The minimum and maximum pH observed were 6.3 and 6.8 standard units, respectively. The pH was within the permit limits of 6.0 and 8.5 for minimum and maximum respectively.



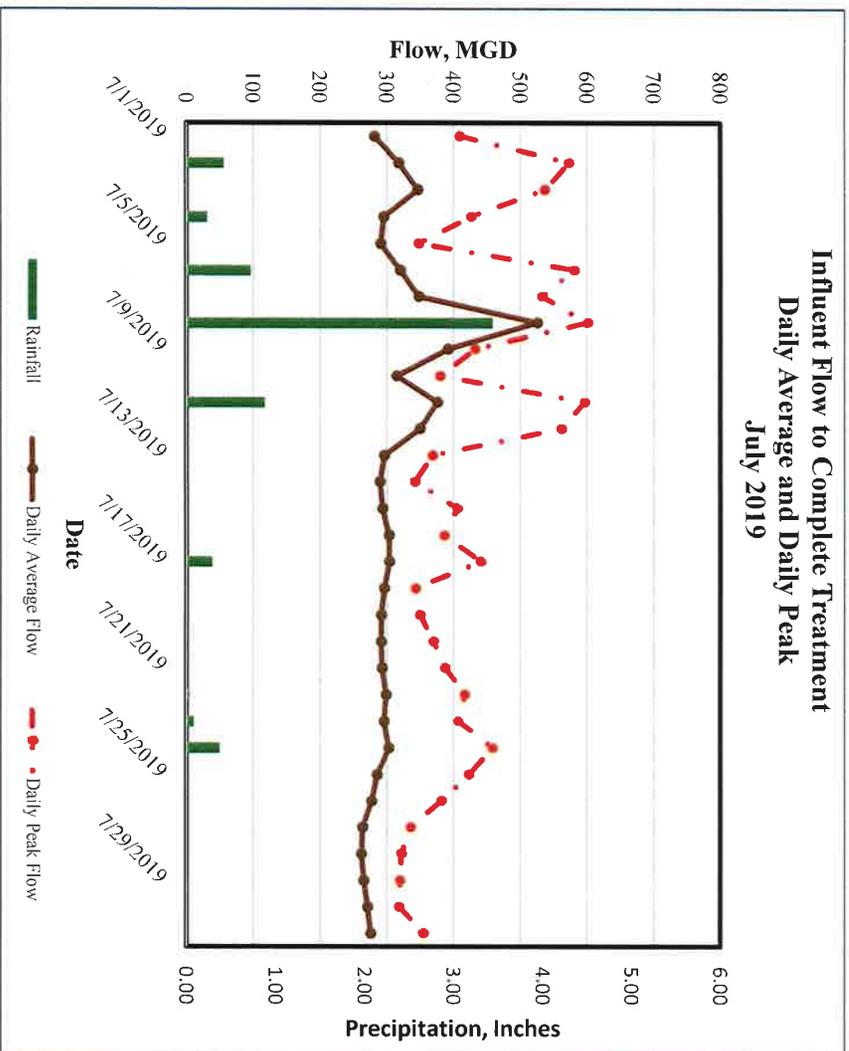
Dissolved Oxygen (DO) is a measure of the atmospheric oxygen dissolved in water. The DO readings for the month are within the permit limits. The minimum daily average is 8.0 mg/L. The minimum instantaneous DO reading is 7.5 mg/L. The minimum daily average and instantaneous permit limits are 5.0 mg/L 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 1.2/100mL, and well below the permit limit.

Wet Weather Impact on Plant Performance

During the month of July 2019, the Washington Metropolitan Region received above average precipitation (6.49 inches vs normal of 3.73 inches) as measured at the National Airport. The wet weather events that occurred during the second week of July resulted in peak flows through complete treatment exceeding 600 MGD. 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 Tern 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 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.



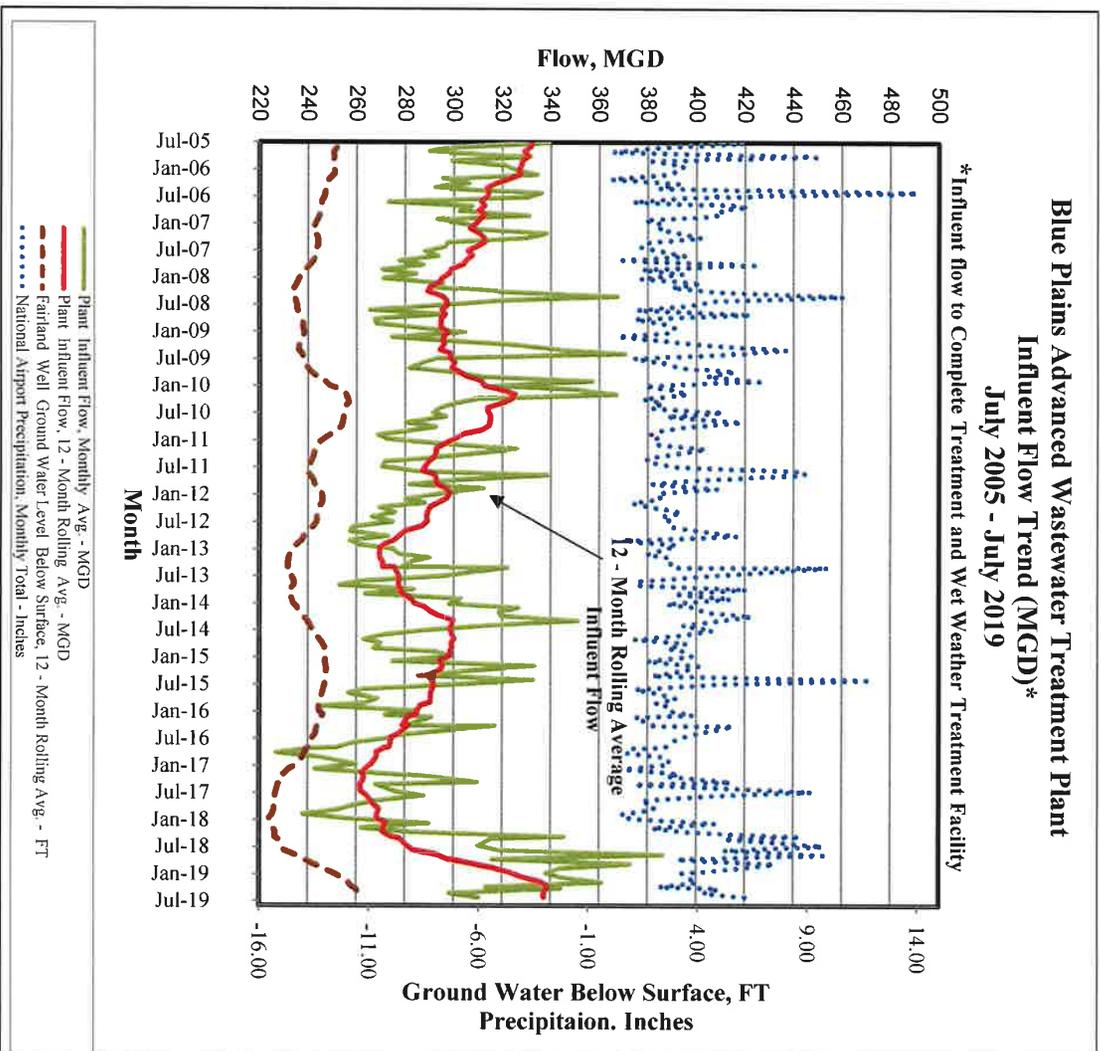
Aerial rendering of the Wet Weather Treatment Facility

Performance

During the month of July, a total of 339 million gallons (MG) of combined flow captured in the tunnel system, was pumped, and treated using the ECF. A portion of the treated flow or 250 MG was directed to the main plant to maximize complete treatment. The flow or 89 MG was disinfected, dechlorinated and discharge through Outfall 001. The quality of the effluent discharged was within anticipated ranges. 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 July 2019, the total volume pumped and treated through the WWTF is 6,129 MG. During the same period, 2,509 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

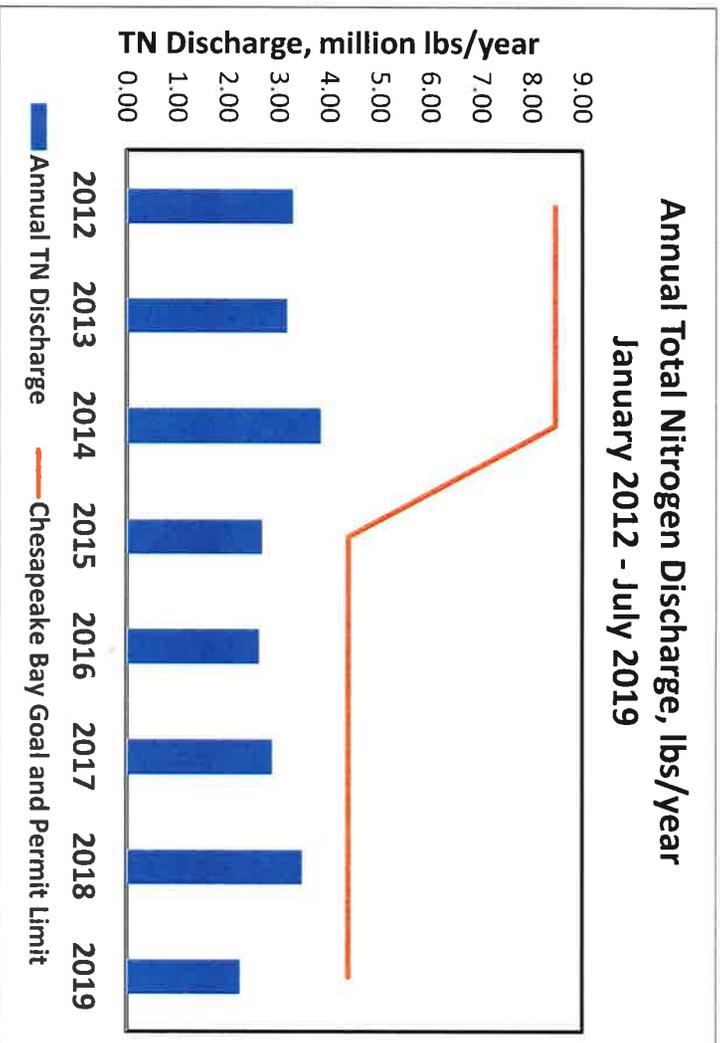
The graph below shows a long-term influent flow trend to the plant ending July 2019. While for any given month the flow is weather dependent, the 12-month rolling average influent flow exceeded 300 MGD since November 2018.



Blue Plains Total Nitrogen (TN) Removal – Performance

The graph below shows total annual nitrogen discharge, in million pounds per year, over an 8-year period ending July 2019. In July 2019, the monthly average TN concentration and total load in the complete treatment effluent were 3.36 mg/L and 274,498 lbs. respectively.

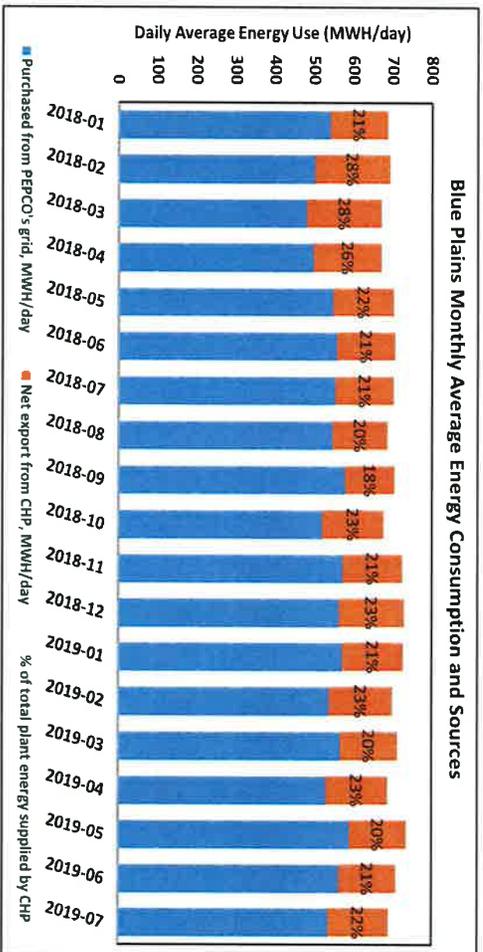
The total pounds of nitrogen discharged in the complete treatment effluent during the current calendar year (through July 2019) is 2,235,816 lbs. and on track to remain below the NPDES permit discharge limit of 4,377,580 lbs./year. The performance corresponds to average flow of 328 MGD, maximum month 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.



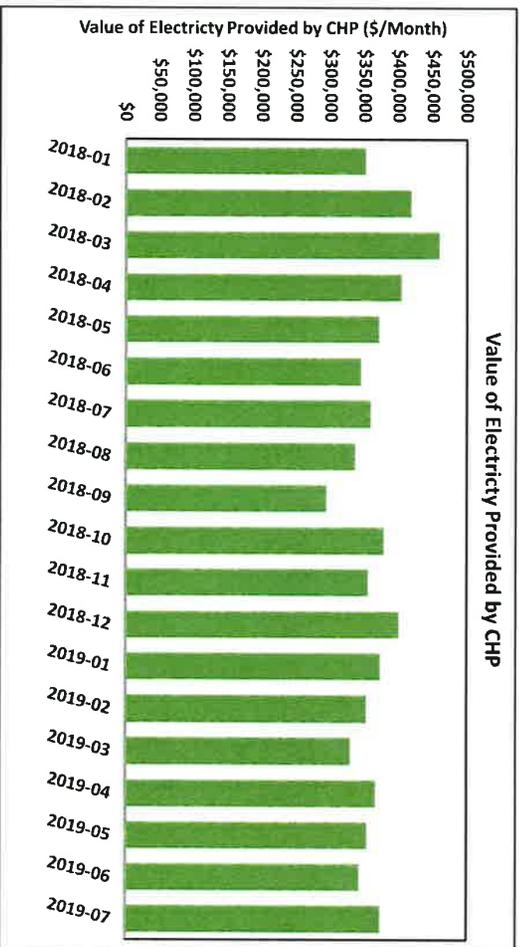
Blue Plains Electricity Generation and Usage

In July 2019, the average energy consumed at Blue Plains was 690 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 154 MWH/day, making up for 22% of total energy consumed at Blue Plains. The remaining 536 MWH/day was purchased from PEPCO.

The graph below 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.

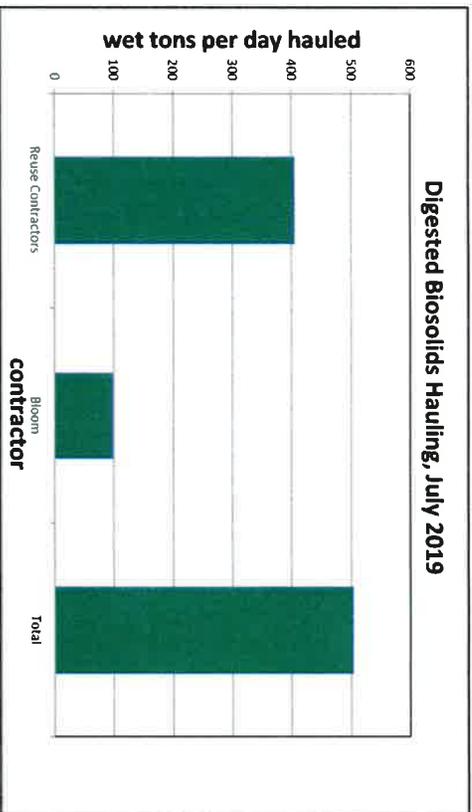


The graph below shows the monthly value of the net electricity exported by CHP by assuming unit price of \$78/MWH of electricity.

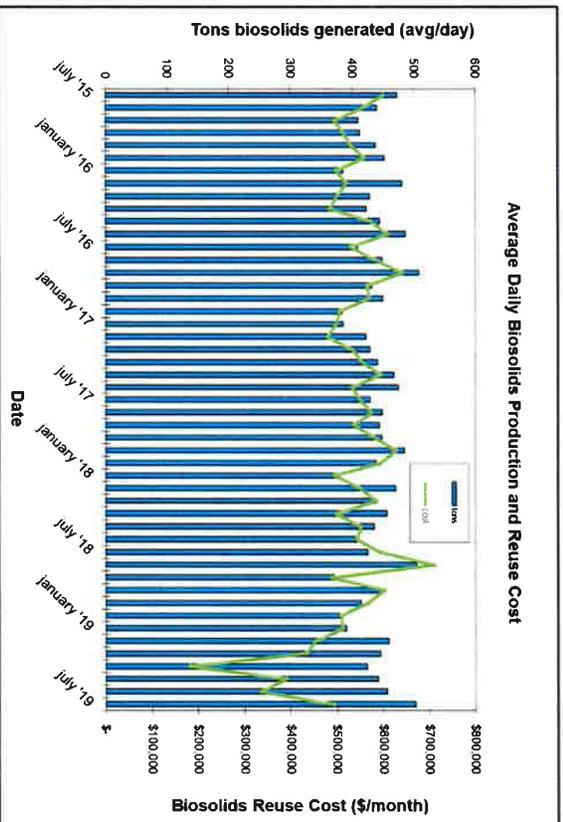


RESOURCE RECOVERY

In July, biosolids hauling averaged 511 wet tons per day (wtpd). The average percent solids for the Class A material was 32.2%. The average quantities of Class A biosolids transported and applied on farms by the three contracts and the quantities marketed as Bloom are shown on the graph above. In July, 3,036 wet tons of Bloom were distributed to 19 customers.



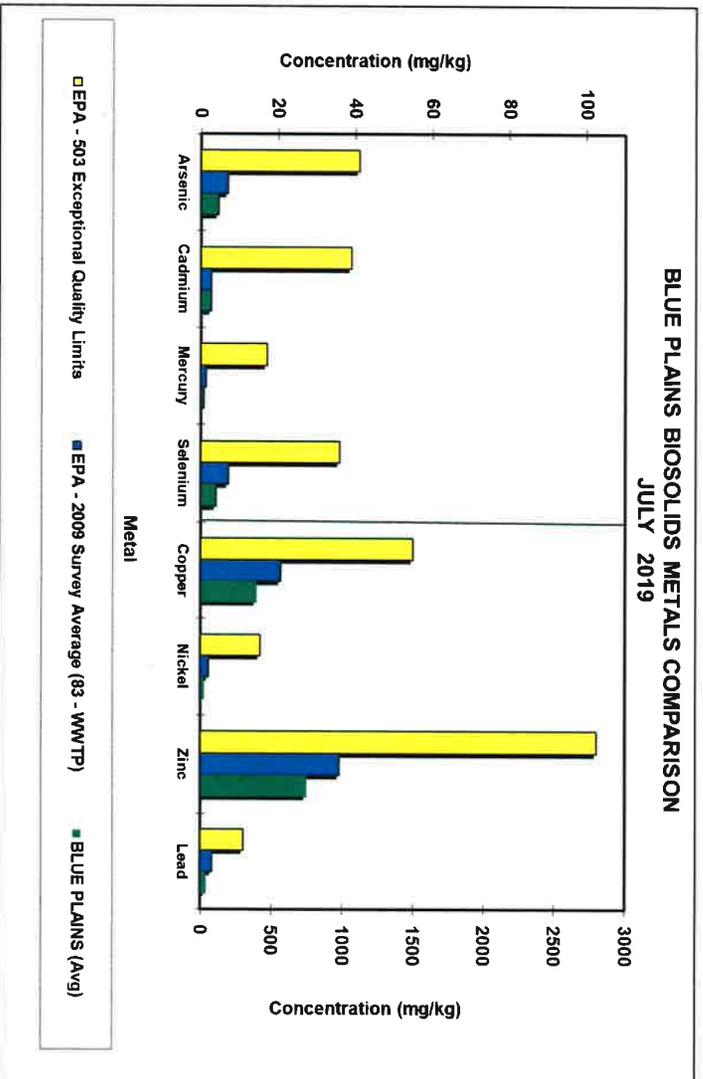
The graph below shows average daily biosolids produced and the associated monthly cost for reuse (transportation and application cost) for a three-year period ending July 2019. In July, diesel prices averaged \$3.26/gallon, and with the contractual fuel surcharge, the weighted average biosolids reuse cost (considering the marketed material) was \$31.72 per wet ton.



Product Quality

Heavy Metals

All biosolids produced during the month of July 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).

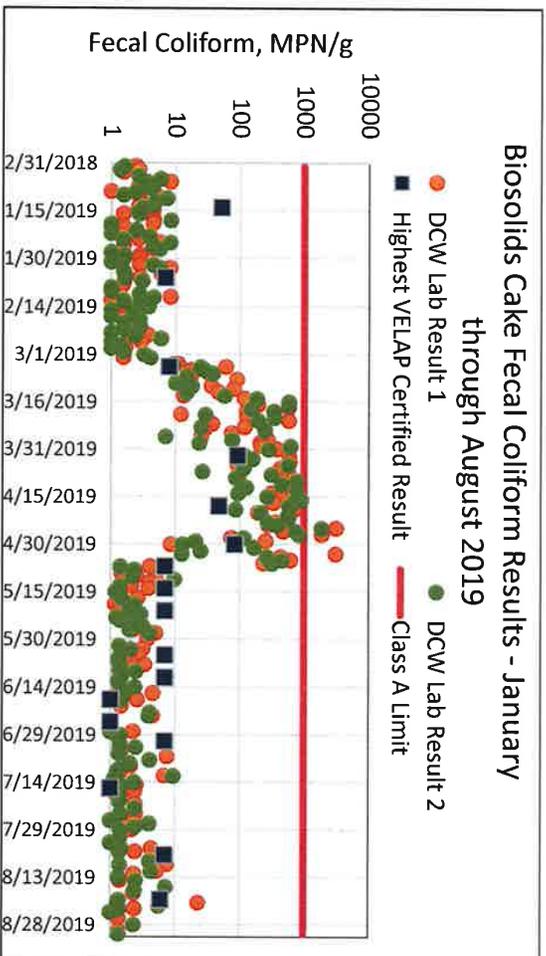


Vector Attraction

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.

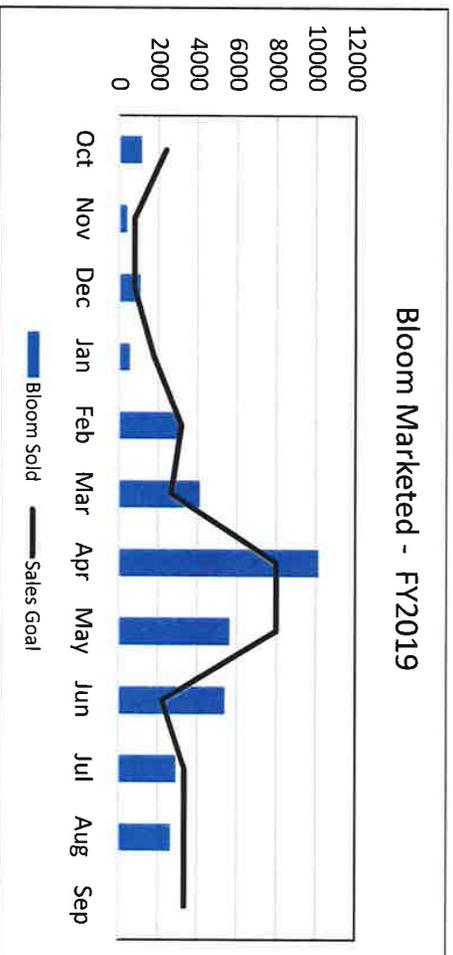
Pathogen Reduction – Fecal Coliform

The graph below shows fecal coliforms levels in the Class A product. Fecal coliforms are indicators of disease causing organism (pathogens), and must be below 1,000 MPN/g to meet Class A standards.



Bloom Marketing

Bloom sales as of August 31st totaled 37,070 wet tons for the fiscal year. This represents 93% of the 40,000 tons goal for the fiscal year. The Authority anticipates meeting the goal during the remaining month of 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.

Industrial Pretreatment Program

DC Water currently manages twelve (12) Significant Industrial User (SIU) and sixteen (16) Non-Significant Industrial User (NSIU) wastewater discharge permits. Staff conducted inspections and compliance monitoring at four SIUs this month (Capitol Power Plant, District Apartments, GSA Heating and Refrigeration Plant, and Naval Research Lab). All SIUs and NSIUs are currently in compliance with discharge standards.

DC Water currently manages 96 Temporary Discharge Authorization (TDA) permits, primarily for construction site discharges of groundwater and/or surface runoff in the combined sewer area. Six new TDA permits were issued this month. All TDA permittees are currently in compliance with discharge standards.

Hauled Waste Program

DC Water currently manages 37 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). One new Waste Hauler permit was issued this month and three permits were renewed (three additional permits were not renewed including the one waste hauler that was banned due to failure to pay monthly disposal costs).

DC Water received 689 hauled waste loads (1,731,077 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. Two hauled waste samples were collected this month and results were in-compliance with discharge criteria.

District of Columbia Water and Sewer Authority

Capital Improvement Program Report



**FY-2019 3rd Quarter
April 1st through June 30th, 2019**

**Board of Directors
Environmental Quality and Operations Committee**

**David L. Gadis CEO and General Manager
Leonard R. Benson, Senior Vice President and Chief Engineer**

August 2019

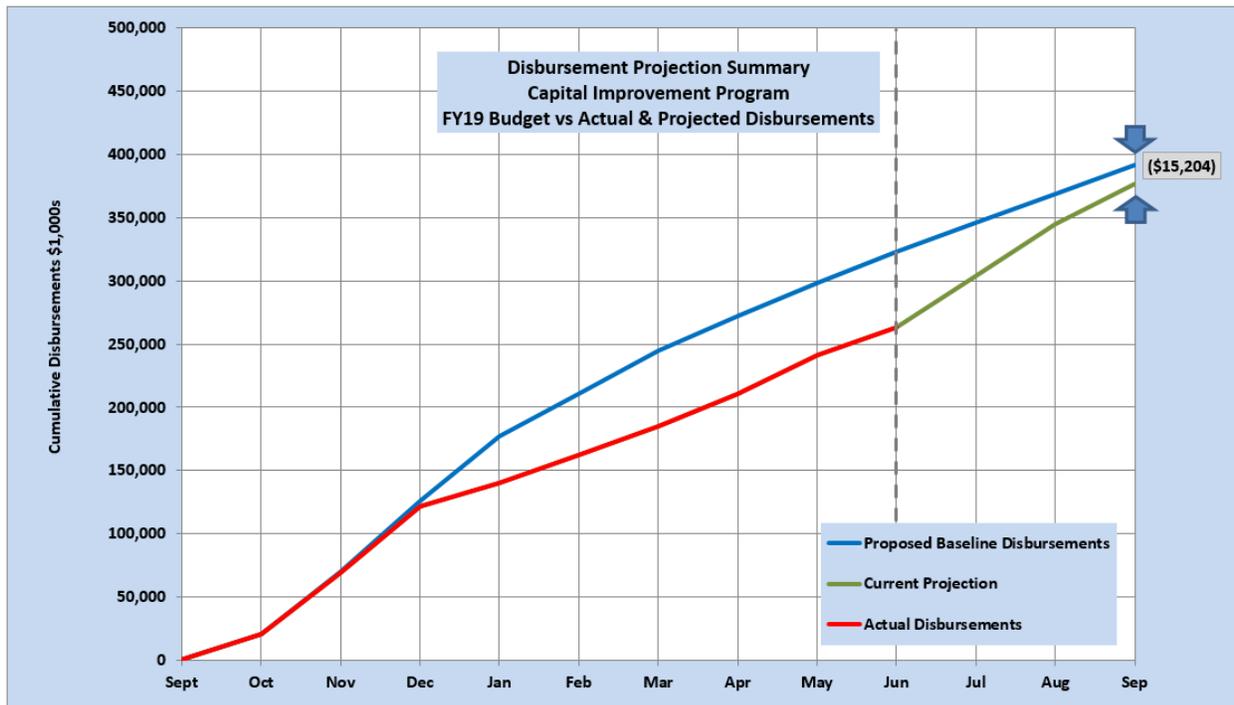


Capital Improvement Program Report 3rd Quarter FY2019

CIP Disbursement Performance

Current projected program disbursements through the end of the fiscal year compared with the FY19 baseline are shown in the chart below:

Disbursement Summary



*Note: FY19 Baseline was set in Dec, therefore Oct/Nov Actual disbursements match the Baseline disbursements.

The current projected fiscal year 2019 CIP disbursements are \$376,403,000 through the end of September 2019, which is on track to meet the baseline disbursement projection of \$391,670,000. The disbursements to date through the 3rd Quarter are \$263,357,000 which is \$59,451,000 under the baseline forecasted Q3 disbursements of \$322,808,000. The majority of the remaining spending is on committed construction projects, most of which are anticipated to be on track within the fiscal year.

Current disbursement projections within the service areas are as follows:

Non-Process Facilities

Baseline Disbursements \$15,309,000
 Projected Disbursements \$15,307,000 (on baseline projection)

There are no significant project variances for this service area currently projected over the fiscal year. The spending through the 3rd Quarter is \$6.2M, which is \$8.1M below the baseline, this underspending



Capital Improvement Program Report 3rd Quarter FY2019

is mainly due to the delay in retention release for the HQ building. It is anticipated the retention release will still occur within this fiscal year.

Wastewater Treatment Service Area

Baseline Disbursements	\$69,979,000
Projected Disbursements	\$60,600,000 (\$9.4M below baseline projection)

Significant project variances forecast for the fiscal year in this service area:

Project LS – Misc. Facilities Projects (\$1.0M below baseline)- Delay in contract execution to rebid the work to achieve cost savings

Project BX - Gravity Thickener Upgrades Ph II (\$1.2M below baseline) due to later than anticipated start.

Project E8 - Enhanced Clarification Facilities (\$1.7M below baseline) due to later than anticipated closeout of contract.

Project FS - Div D - Bolling Overflow & Diversion (\$2.3M below baseline) due to later than anticipated closeout of contract.

The spending through the 3rd Quarter is \$40.9M which is \$16.5M below the baseline. This underspending is mainly in the Plantwide Program (\$3.7M) and Enhanced Nitrogen Program (\$8.3M). Later than anticipated execution of contracts in the Plantwide Program resulted in reduced FY19 spending while the reduced spending in the Enhanced Nitrogen Removal Program was caused by a delay in project close-out for some contracts. Spending is not anticipated to recover by the end of the fiscal year.

For clarity, the Combined Sewer Overflow (CSO) Service Area comments are addressed separately by the CSO and DC Clean Rivers Program Areas:

Combined Sewer Overflow Program Area

Baseline Disbursements	\$7,491,000
Projected Disbursements	\$8,246,000 (\$0.7M above baseline projection)

There are no significant project variances for this service area currently projected over the fiscal year.

DC Clean Rivers Program Area

Baseline Disbursements	\$187,859,000
Projected Disbursements	\$187,883,000

The DCCR team currently anticipate the spending to meet the baseline forecast by year end.

The underspending through the 3rd Quarter (\$9.0M) is mainly attributable to invoicing delays in the DC Clean Rivers projects, due to compliance issues preventing processing payments to one Contractor and to untimely submittal of payment applications from another Contractor. It is currently anticipated the spending will be on track by fiscal year end.



Capital Improvement Program Report 3rd Quarter FY2019

Stormwater Service Area

Baseline Disbursements \$4,220,000

Projected Disbursements \$4,089,000 (\$0.1M below baseline projection)

There are no significant project variances for this service area currently projected over the fiscal year.

Sanitary Sewer Service Area

Baseline Disbursements \$44,926,000

Projected Disbursements \$45,116,000 (on baseline projection)

There are no significant project variances for this service area currently projected over the fiscal year.

The 3rd Quarter underspending (\$7.4M) in the Sanitary Sewer System service area is mainly attributable to delays in the closeout of projects G1 - Small Local Sewer Rehab 1 and IL - Creekbed Sewer Rehabilitation 2. It is currently anticipated these will closeout within the fiscal year.

Water Service Area

Baseline Disbursements \$61,884,000

Projected Disbursements \$55,162,000 (\$6.7M below baseline projection)

There are no significant project variances for this service area currently projected over the fiscal year.

The 3rd Quarter underspending (\$16.7M) in the Water Service area is mainly due to underspending in the Water Distribution System program area (\$10.0M), mainly attributable to delays in closing out two Small Diameter Water Main projects and suspension of work on C900 - Large Diameter Water Mains to ensure water pressure over the high demand summer period.



Capital Improvement Program Report 3rd Quarter FY2019

Priority 1 Projects (Court Ordered, Stipulated Agreements, etc.)

All priority 1 projects are on schedule and within budget.

Significant Contract Actions Anticipated – 6 Month Look-Ahead

Project	Name	Contract Type	Joint Use?	Cost Range	Committee	BOD
FA00	Soldiers Home Reservoir Upgrade	Construction	No	\$5M - \$10M	EQ & Ops Jul	Sep
Multiple	Waste-Water Program Manager	Professional Services	No	\$20M -25M	EQ & Ops Dec	Jan
Multiple	Water Program Manager	Professional Services	No	\$20M -25M	EQ & Ops Sep	Oct
LZ00	Potomac Interceptor – Phase 5 Pipe Rehab MH30-31	Construction	Yes	\$10M - \$15M	EQ & Ops Nov	Dec
F100	Small Diameter Water Main Repl. 13a	Construction	No	\$5M - \$10M	EQ & Ops Jan	Feb
F100	Small Diameter Water Main Repl. 13b	Construction	No	\$5M - \$10M	EQ & Ops Dec	Jan
F100	Small Diameter Water Main Repl. 13c	Construction	No	\$5M - \$10M	EQ & Ops Jan	Feb
F100	Small Diameter Water Main Repl. 13d	Construction	No	\$5M - \$10M	EQ & Ops Jan	Feb
JF00	Construction of Flood Seawall – Segment C	Construction	Yes	\$5M - \$10M	EQ & Ops Nov	Dec
HH00	Construction of New Fleet Facility	Construction	No	\$10M - \$14M	EQ & Ops Dec	Jan



Capital Improvement Program Report 3rd Quarter FY2019

Schedule - Key Performance Indicators Capital Improvement Program

Summary:

For the 3rd Quarter, one of the three Key Performance Indicators (KPIs) completed this period were achieved within 90 days of their target date. Two will be completed outside the 90-day threshold.

#	Performance
8	KPIs completed within threshold
0	KPIs completed outside threshold
8	Total KPIs completed to date
6	KPIs expected to be completed outside threshold
3	KPIs remaining
17	Total KPIs due this year

Reasons for any KPIs not meeting the 90-day threshold this period (Q3):

The Design Start milestone for project LZ09 - PI Phase 6 Pipe Rehab at Clara Barton Pkwy and I-495 has slipped due to extended review by NPS
 The Construction Substantial Completion for FQ01 Main & O St. PS Intermediate Upgrades has slipped due to delays related to completion of the construction of the HQO building. The modifications to the O Street PS included some work performed through the HQO contractor that will be resolved through ongoing final contract negotiations.

The table below provides a detailed breakdown of each KPI due date grouped by Quarter:

Quarter	Job Code	Job Name	Activity Name	Due Date (Baseline)	Estimated Complete Date	Actual Complete Date	Variance (positive is early)	Met within 90 days
Q1	DZ02	Div RC-A - Rock Creek Project 1 (GI)	Construction Substantial Completion Milestone (KPI)	9-Oct-18		9-Oct-18	0	✓
Q2	J306	National Arboretum Sewer Rehab (Eastside Interceptor)	Construction Substantial Completion	22-Jan-19		24-Jan-19	-2	✓



Capital Improvement Program Report 3rd Quarter FY2019

Quarter	Job Code	Job Name	Activity Name	Due Date (Baseline)	Estimated Complete Date	Actual Complete Date	Variance (positive is early)	Met within 90 days
Q2	DE02	Small Diameter Water Main Replacement 12B	Construction Substantial Completion	25-Jan-19		23-Jan-19	2	✓
Q2	O302	Small Diameter Water Main Replacement 11b	Construction Substantial Completion	1-Feb-19		27-Dec-18	36	✓
Q2	MA01	St. Elizabeth Water Tank	Construction Substantial Completion	24-Jan-19		24-Dec-18	31	✓
Q2	IL10	Creekbed Sewer Rehabilitation Rock Creek Oregon Avenue	Construction Substantial Completion	19-Feb-19	30-Sep-19		-223	x
Q2	DE01	Small Diameter Water Main Replacement 12A	Construction Substantial Completion	30-Apr-19		20-Dec-18	131	✓
Q3	AL05	Plantwide Projects Program Management	MFU6 - Start Milestone	1-May-19		29-May-19	-28	✓
Q3	LZ09	PI Phase 6 Pipe Rehab at Clara Barton Pkwy and I495	Design Start Milestone	19-Jun-19	2-Dec-19		-166	x
Q3	FQ01	FQ01 Main & O St. PS Intermediate Upgrades	Construction Substantial Completion	30-Jun-19	30-Sep-19		-92	x
Q4	QS01	Local Sewer Rehab Project 5-1	Design Start Milestone	15-Jul-19	30-Oct-19		-107	x
Q4	C904	66" Low Service Steel Main at 8th Street NE & SE	Construction Substantial Completion	5-Jul-19	30-Apr-20		-300	x
Q4	I801	Large Valve Replacements 11R	Construction Substantial Completion	31-Jul-19	30-Sep-19		-61	
Q4	CZ07	Potomac Project 1 (GI)	Substantial Completion Milestone	31-Jul-19		8-Mar-19	145	✓
Q4	FA03	Soldiers Home Reservoir Upgrade	Construction Start Milestone	8-Aug-19	10-Oct-19		-63	
Q4	UC06	Upgrades to Filtration Influent Pumps 1-10	Construction Start Milestone	13-Aug-19	13-Aug-19		0	
Q4	OE01	FY15 - Plantwide Storm Drainage Improvements	Construction Start Milestone	17-Sep-19	17-Sep-21		-731	x

Table Key: Positive variance = Finishing earlier than baseline plan Bold = Actual Date achieved



Resource Recovery Long-Term Strategy and Curing Business Case

District of Columbia Water And Sewer Authority



Resource Recovery Strategy



1.Environmental Sustainability -
Move DC Water toward lower energy use and carbon footprint



1.Fiscal Sustainability - Generate non-ratepayer revenue

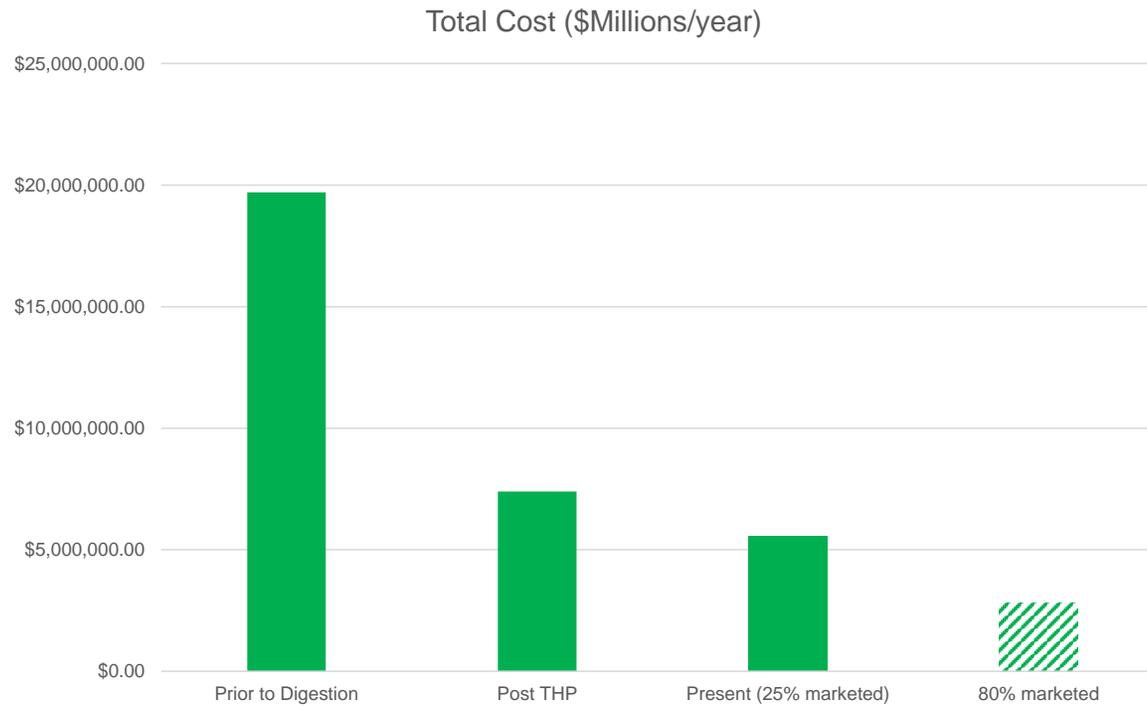


1.Workforce Sustainability -
2.Stimulate innovation from staff



1.Political Sustainability –
2.Help DC achieve it's aggressive environmental goals

Biosolids Budget History



Bloom is a widely used, trusted product in the community

The Winchester Star

Date: Saturday, August 08, 2009
Location: WINCHESTER, VA
Circulation (DMA): 20,608 (8)
Type (Frequency): Newspaper (D)
Page: 1,6
Keyword: biosolids

SATURDAY IN THE STAR

A smell that can grow

But use of biosolids as fertilizer concerns some residents

By VAL VAN METER
The Winchester Star

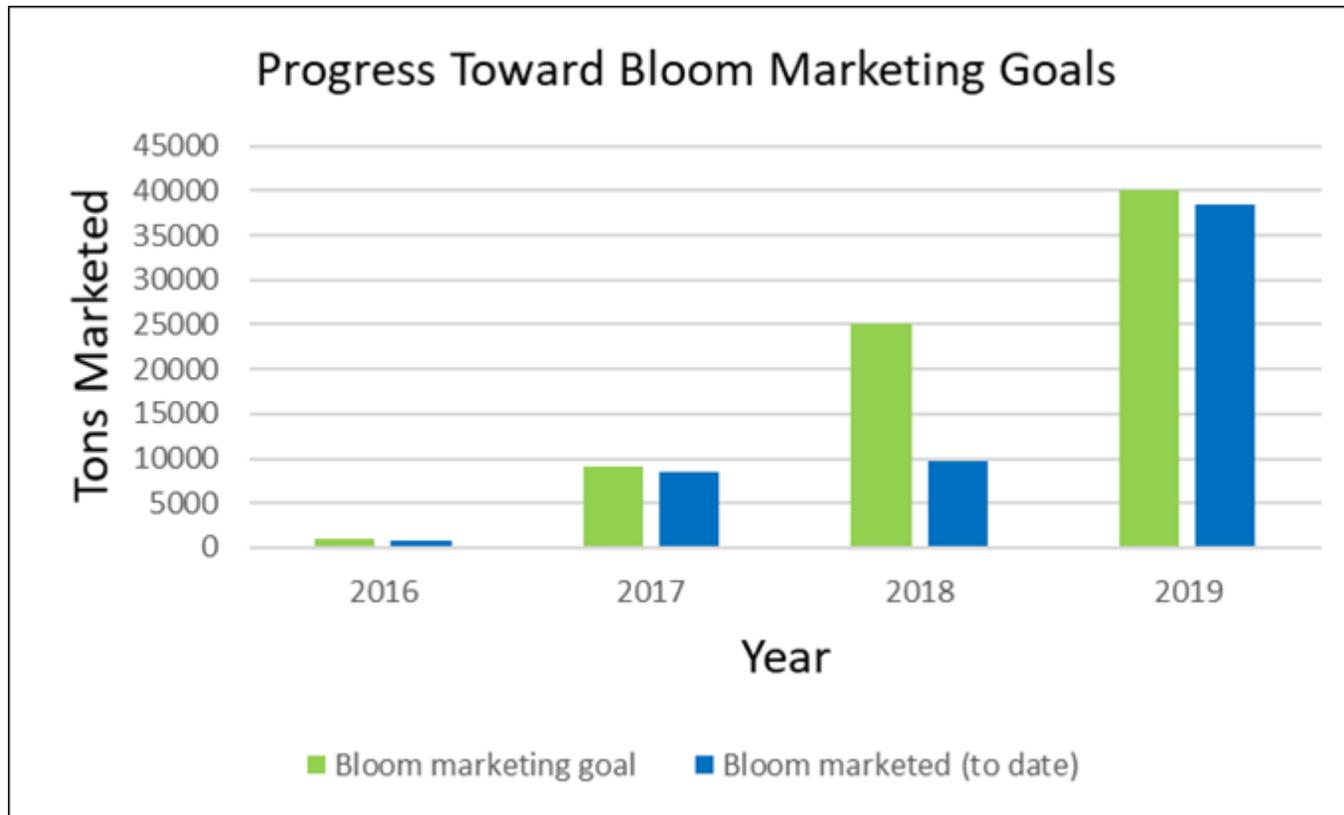
The federal Environmental Protection Agency approved the application of biosolids on agricultural land in 1993.

"Agriculture has the right to use that," said Paul Anderson, president of the Frederick County Farm Bureau. "As long as you

WINCHESTER — It all started with the smell.

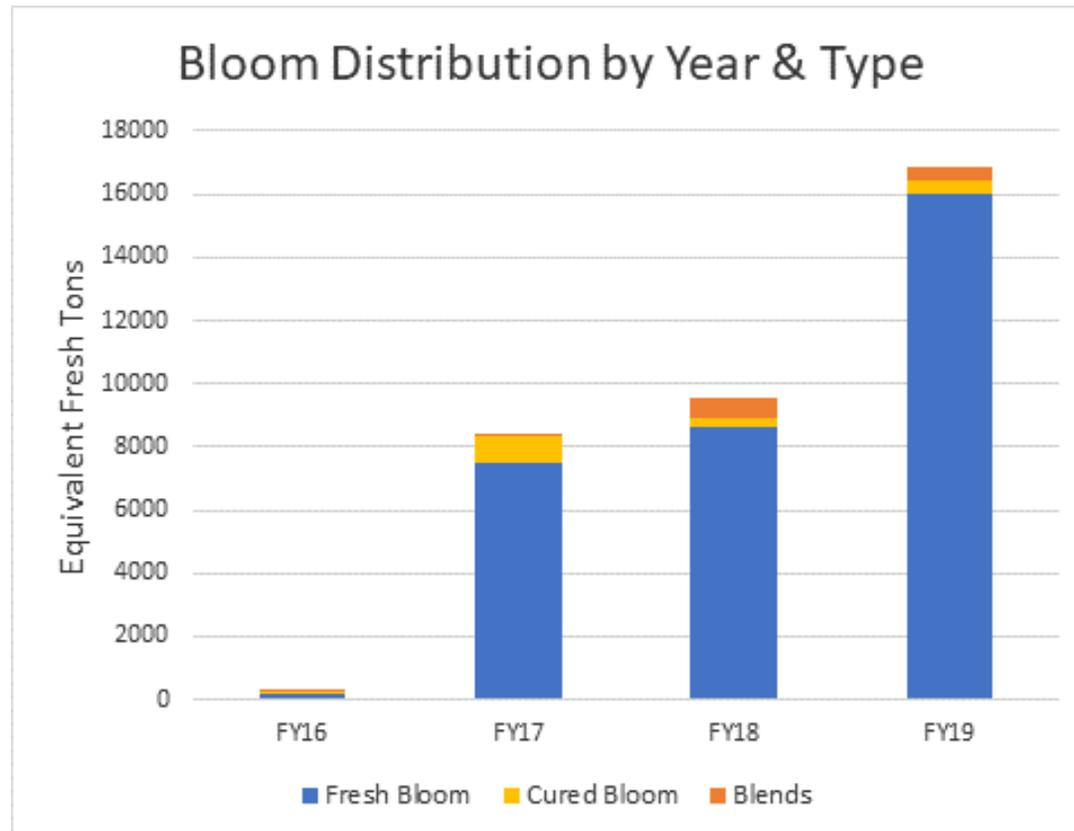


Bloom Sales to Date

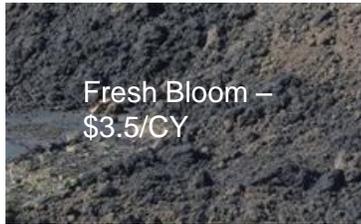


38,419 tons sold as of 8/31 in FY19, 96% of the to-date goal of 40,000 tons.

Bloom Distribution by Year & Type



Cured Bloom



Enhanced Market Value



Bagged Product
\$10-15/bag



Landscaping
\$10-20/CY



Horticulture
\$10-20/CY



Production Challenges

- Space available for curing at BPL is uncovered
- Cost of hauling to offsite facilities can be prohibitive and is limited by partners interest and schedule

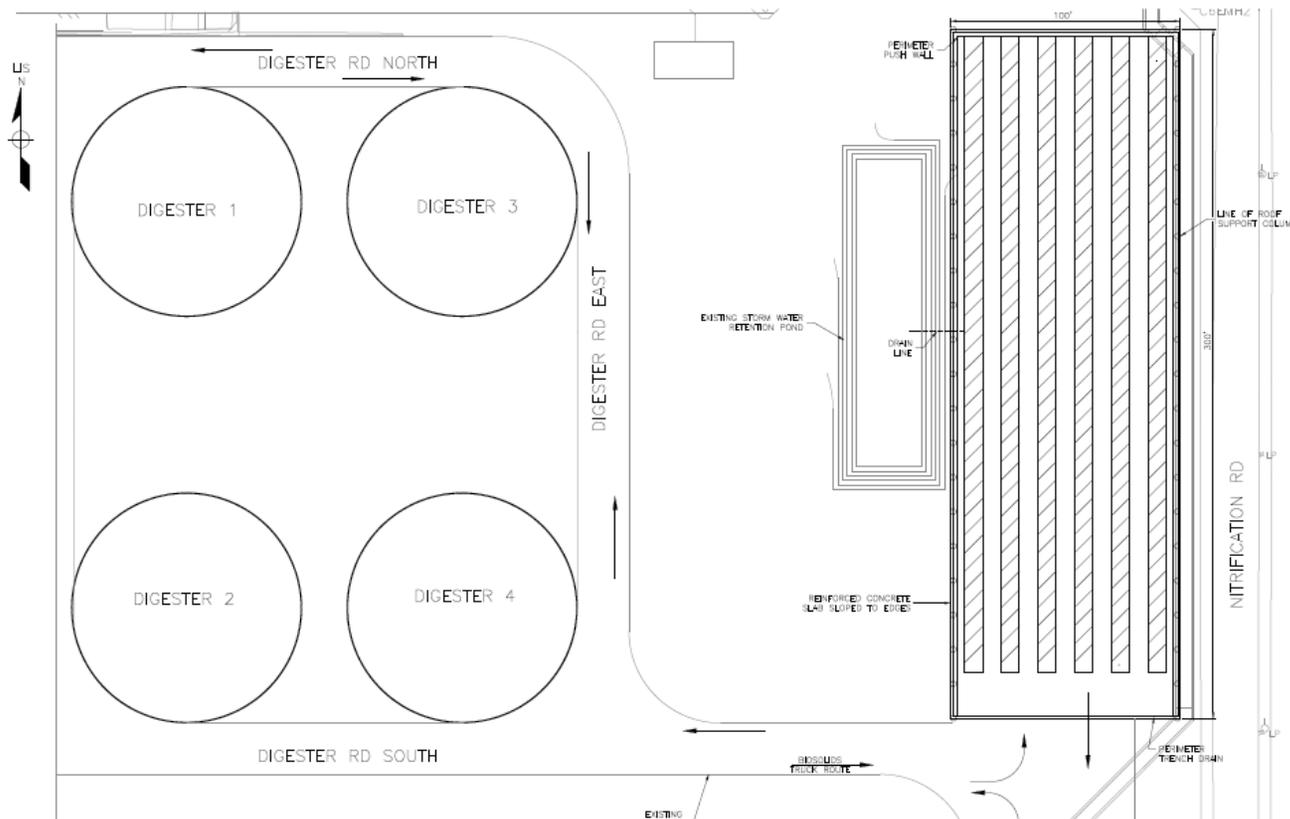


Build Roofed Structure

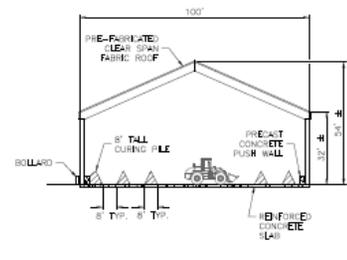
Project Goals

- Provide covered space for making cured bloom, a product resource recovery has had success marketing.
- Simplify production logistics for bloom curing.
- Provide outlet for bloom during non peak season.
- Upgrade the existing storm water infrastructure.

Curing pad business case



- BIOSOLIDS CURING DESIGN CRITERIA:**
1. CONCRETE PAD SEE 100' X 300' X 10' W/ TRUCK ACCESS AND TURNAROUND AREA ON SOUTH SIDE
 2. SOUTH SIDE OPEN WITH PUSH WALLS AROUND THREE REMAINING SIDES
 3. CLEAR SPAN CANOPY ROOF W/ 22' MIN. CLEAR HEIGHT TO ALLOW FOR 20-TON DUMP TRUCK TRILING HEIGHT
 4. ROOF SUPPORT COLUMNS ALONG WEST AND EAST EXTERIOR, NO INTERIOR COLUMNS
 5. TRENCH DRAIN AROUND PERIMETER OF PAD DRAINING TO ADJACENT STORM WATER RETENTION POND AND PUMPED TO DIAL PURPOSE FACILITY
 6. USE SPAKE 20 AMP SINGLE POLE CIRCUIT BREAKER IN BIOSOLIDS BUILDING FACILITY OR GREENHOUSE FACILITY FOR UNDER ROOF LIGHTING POWER
 7. 6 BAYS 300'L X 8' W X 8' H FILES AND 8' TURNING MACHINE LAKE PER BAY
 8. BAY STORAGE CAPACITY (281' X 8' X 4') = 333 CU YD
 9. TOTAL PAD STORAGE CAPACITY 6 BAYS ALTIME = 2,000 CU YD
 10. BASED ON 30 DAY STORAGE 2,000 X 12 = 24,000 CY/YEAR
 11. AT 2,000 CY APPROX. 1718 TONS @ 30% SOLIDS OR 1300 TONS @ 40% SOLIDS ON MONTHLY BASIS
 12. ANNUAL DATES PROCESS 20,000 TYP OF 30% CAKE OR 16,200 TYP OF 40% CAKE
 - * OPTIONAL AIR PILING EMBEDDED IN CONCRETE PAD TO ALLOW FUTURE BLOWER CONNECTION



TYPICAL CROSS SECTION - OPTION B

Proposed: 1.3 Acre Curing Structure

- 60,000 sqft footprint roofed canopy
- EST. CAPEX – \$3.5M
- 30,000 tons of Bloom, 20,000 tons of cured production/year -> \$300k-\$400k/year in revenue from cured sales
- Offsets \$1.1M in contracted hauling savings
- ROI 3.3 years

1.3-acre covered pad		
	Cycle (35 days)	Annual
Tons (in)	2,501	26,085
Tons (out)	1,337	13,942
Costs		
Hauling	\$ 3,887	\$ 40,532
Turning labor	\$ 12,507	\$ 130,427
Equipment (loader, turner)	\$ 8,265	\$ 86,195
Fuel (loader, turner)	\$ 1,170	\$ 12,203
subtotal	\$ 25,829	\$ 269,357
		\$10.3/wt
Benefits		
Savings (land app:\$45/input-wt)	\$ 112,560	\$ 1,173,840
Revenue (\$12.3/output-wt)	\$ 16,444	\$ 171,489
subtotal	\$ 129,004	\$ 1,345,329
NET	\$ 103,175	\$ 1,075,971
		\$41.2/wt
Capital cost		\$ 3,517,000
Simple payback period (years)		3.3

Solar Aspect

- Roof Capacity for 1.055MW
- Possibility for 30% ITC on canopy + panels (4-5M). Secondary partner will split tax credit. Could reduce capital by \$500k.



Installation Costs		
Per Watt Cost from Contractor	\$2	\$/W
System Cost (est.)	\$2,110,000	\$
Benefits and Revenue		
Electricity Price	\$0.085	per kWh
Annual Power Production (est.)	1,540,300	kWh
Value of Electricity	\$130,925	
SREC Price (current)	\$400	\$/MWh
Annual SREC Revenue	\$616,000	
Total benefits (2019)	\$746,000	\$/year
OPEX	\$50,000	\$/year
Simplified ROI	3	years

Curing solar – owned by DC Water vs PPA

DC Water Owned			PPA	\$ 0.025	per kwhr
1.054	MW		1.054	MW	
4	hr/day		4	hr/day	
1538.8	RECs/yr		1538.8	RECs/yr	
\$ 400	per REC		\$ -	per REC	
\$ 615,536	REC revenue/yr		\$ -	REC revenue/yr	
\$ 1,538,840	kwhr/yr		\$ 1,538,840	kwhr/yr	
\$ 0.085	per kwhr		\$ 0.06	per kwhr	
\$ 130,801	savings		\$ 92,330	savings	
\$ 746,337	total		\$ 92,330	total	

Solar PV Topped Curing Pad Project Implementation

- Planning is complete
- Revised construction cost estimate based on planning for covered curing pad and solar PV arrays = \$6.5M
- Total estimated project cost, including design and construction management = \$7.6M

**There is no such thing as waste, only wasted
resources.**

www.bloomsoil.com

**Chris Peot PE, BCEE
cpeot@dcwater.com**



- On December 18th, 2018 the DC city council approved the clean energy omnibus bill, which commits DC to achieving 100% renewable power by 2032. 10% of which will be solar.
- This is an update to the Clean Energy DC Plan of 2016. The recent council action increased the renewable energy target from 50% to 100% and stretched the SREC market to 2041.

1
6

Highlights of New Act

- SREC market will extend beyond 2032 and will expand more quickly than the 2016 Clean Energy Plan established. Was initially capped at 5% and ended at 2032.
- Central column is the new percentage. The SREC carve out will grow incrementally from 2032 until it reaches 10% by 2041
- REC lifetime increased from 3 years to 5 years, (e.g. can sell 2019 SRECs to cover 2024 demand). Increases SREC value.

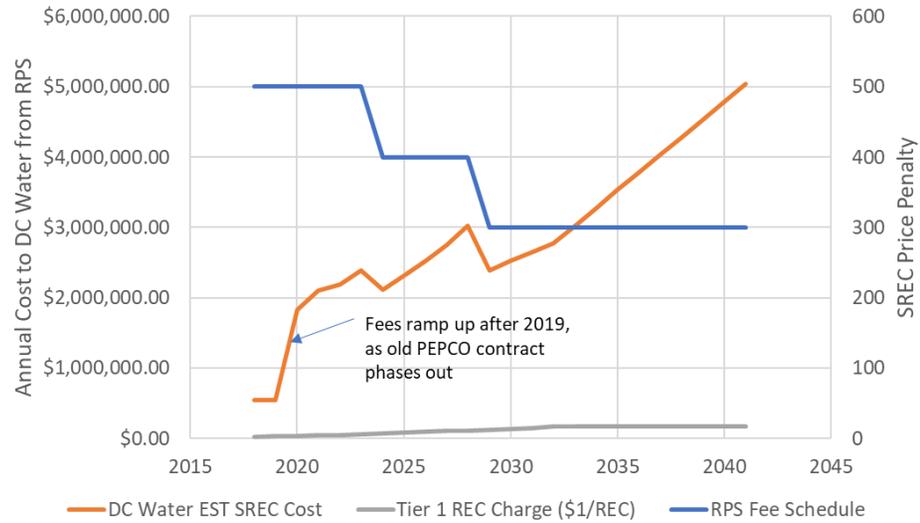
Year	Legacy Solar Carve Out	Proposed Solar Carve Out	Alternative Compliance Penalty
2019	1.35%	1.85%	\$500
2020	1.58%	2.18%	\$500
2021	1.85%	2.50%	\$500
2022	2.18%	2.60%	\$500
2023	2.50%	2.85%	\$500
2024	2.60%	3.15%	\$400
2025	2.85%	3.45%	\$400
2026	3.15%	3.75%	\$400
2027	3.45%	4.10%	\$400
2028	3.75%	4.50%	\$400
2029	4.10%	4.75%	\$300
2030	4.50%	5.00%	\$300
2031	4.75%	5.25%	\$300
2032	5.00%	5.50%	\$300
2033	-	6.00%	\$300
2034	-	6.50%	\$300
2035	-	7.00%	\$300
2036	-	7.50%	\$300
2037	-	8.00%	\$300
2038	-	8.50%	\$300
2039	-	9.00%	\$300
2040	-	9.50%	\$300
2041	-	10.00%	\$300

Omnibus carve out grows until at 10%

Impact on DC Water Electricity Bills

- REC fees on DC Water PEPCO bill currently amounts to \$0.00324/KW (≈\$550,000/yr), will ramp up substantially post September 2019 as old PEPCO contract expires (old contracts allowed to grandfather RPS schedule previous to 2016).
- 2020 Electricity bill to increase by >\$2M and will continue to rise.
- Cost increase for DC Water from new bill ≈\$60 million over next 20 years.
 - *Can be avoided if DC Water pursues path towards energy neutrality.*

DC Water Fees from RPS (if no solar is built)
EST Monthly Power usage (14 million kwh)



**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 Sodium Hypochlorite
(Joint Use)**

This contract action is to add \$200,000.00 in funds to option year 3, and exercise option year 4 in the amount of \$3,720,000.00. These actions total \$3,920,000.00.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME: Kuehne Chemical Co. Inc. 86 N. Hackensack Ave. S. Kearny, NJ 07032	SUBS: N/A	PARTICIPATION: N/A
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DESCRIPTION AND PURPOSE

Original Contract Value:	\$3,656,900.00
Original Contract Dates:	10-16-2015 – 10-15-2016
No. of Option Years in Contract:	4
Option Year 1 Value:	\$3,804,300.00
Option Year 1 Dates:	10-16-2016 – 10-15-2017
Option Year 2 Value:	\$3,300,000.00
Option Year 2 Dates:	10-16-2017 – 10-15-2018
Option Year 3 Value:	\$3,600,000.00
Option Year 3 Dates:	10-16-2018 – 10-15-2019
Option Year 3 Modification Value:	\$200,000.00
Option Year 3 Modification Dates:	08-01-2019 – 10-15-2019
Option Year 4 Value:	\$3,720,000.00
Option Year 4 Dates:	10-16-2019 – 10-15-2020

Purpose of the Contract:

To supply and deliver sodium hypochlorite. The sodium hypochlorite is used as disinfection and odor control.

Contract Scope:

DC Water has an on-going need for sodium hypochlorite. At the Blue Plains Advanced Wastewater Treatment Facility, it is primarily used for outfall disinfection, but also to control biological growth on multimedia filters, and for odor control in the scrubbers.

Option year 3 funding will be depleted sooner than anticipated for our sodium hypochlorite consumption has been above projected plan due to increased volume in incoming plant flow from heavy rain and activities from ECF/TDPS.

This is the last option year for the contract, DC Water will initiate new sodium hypochlorite solicitation to replace the current contract.

Spending Previous Year:

Cumulative Contract Value:	10-16-2015 to 10-15-2019: \$14,361,200.00
Cumulative Contract Spending:	10-16-2015 to 08-01-2019: \$13,805,867.00

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 LSB/LSBE participation

PROCUREMENT INFORMATION

Contract Type:	Goods and Services	Award Based On:	Lowest Bid
Commodity:	Chemical	Contract Number:	15-PR-DWT-21
Contractor Market:	Open Market with Preference Points for LBE and LSBE Participation		

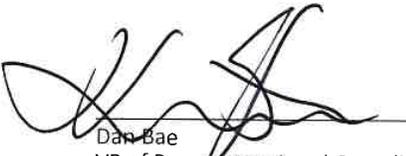
BUDGET INFORMATION

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

ESTIMATED USER SHARE INFORMATION

User - Operating	Share %	Dollar Amount
District of Columbia	45.15%	\$1,769,880.00
Washington Suburban Sanitary Commission	39.61%	\$1,552,712.00
Fairfax County	9.76%	\$382,592.00
Loudoun Water	4.74%	\$185,808.00
Other (PI)	0.74%	\$29,008.00
TOTAL ESTIMATED DOLLAR AMOUNT	100.00%	\$3,920,000.00

 / 8/29/19
 Aklile Tesfaye Date
 VP of Wastewater Operations

 / 9/5/19
 Dan Bae Date
 VP of Procurement and Compliance

 For MAT / 9/12/19
 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

**Industrial Cleaning Service
(Joint Use)**

Approval to exercise option year 4 for the Industrial Cleaning Service contract for Blue Plains waste water treatment processing equipment areas in the amount of \$550,000.00.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME: Charmay, Inc. dba ServiceMaster of Alexandria 7551 Fordson Road Alexandria, VA 22306 (LSBE)	SUBS: N/A	PARTICIPATION: 100%
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DESCRIPTION AND PURPOSE

Base Period Contract Value:	\$520,690.34
Original Contract Dates:	10-19-2015 – 10-18-2016
No. of Option Years in Contract:	4
Option Year 1 Value:	\$612,915.87
Option Year 1 Dates:	10-19-2016 – 10-18-2017
Option Year 2 Value:	\$600,000.00
Option Year 2 Dates:	10-19-2017 – 10-18-2018
Option Year 3 Value:	\$100,000.00
Option Year 3 Dates:	10-19-2018 – 10-18-2019
Prior Modification Value:	\$574,349.04
Prior Modification Dates:	02-15-2016 – 10-18-2019
Option Year 4 Value:	\$550,000.00
Option Year 4 Dates:	10-19-2019 – 10-18-2020

Purpose of the Contract:

To provide a team of professional industrial cleaning crew to do thorough routine cleaning of our wastewater treatment field areas, which house our processing equipment and systems.

Contract Scope:

The areas of Industrial Cleaning Service are above and below ground. It covers many different areas of process stations, galleries, labeled piping systems, pumps and associated equipment, conveyance systems and stairwells throughout Blue Plains Wastewater Treatment. If these areas are not serviced, the performance of the process units at Blue Plains will be impacted significantly and could result in equipment damage and disruption of the wastewater treatment process.

This is the final year of the contract and Department of Wastewater Treatment (DWT) and Department of Procurement will review and finalize its new statement of work (SOW) and issue a formal solicitation for the industrial cleaning services.

Spending Previous Year:

Cumulative Contract Value:	10-19-2015 to 10-18-2019: \$2,407,955.25
Cumulative Contract Spending:	10-19-2015 to 08-07-2019: \$2,328,697.78

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.

PROCUREMENT INFORMATION

Contract Type:	Goods and Services	Award Based On:	Highest-Ranking Score
Commodity:	Cleaning Services	Contract Number:	15-PR-DWT-02
Contractor Market:	Open Market with Preference Points for LBE and LSBE Participation		

BUDGET INFORMATION

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

ESTIMATED USER SHARE INFORMATION

User - Operating	Share %	Dollar Amount
District of Columbia	45.15%	\$248,325.00
Washington Suburban Sanitary Commission	39.61%	\$217,855.00
Fairfax County	9.76%	\$53,680.00
Loudoun Water	4.74%	\$26,070.00
Potomac Interceptor	0.74%	\$4,070.00
TOTAL ESTIMATED DOLLAR AMOUNT	100.00%	\$550,000.00

 / 9/5/19
 Aklile Tesfaye Date
 VP of Wastewater Operations

 / 9/5/19
 Dan Bae Date
 VP of Procurement and Compliance

 for MATT / 9/12/19
 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

**Marketing Services for Bloom Product
(Joint Use)**

This contract action is to add funds into option year 1 in the amount of \$142,000.00.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME: Blue Drop 80 M St. SE Washington, DC 20003	SUBS: N/A	PARTICIPATION: N/A
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DESCRIPTION AND PURPOSE

Base Period Contract Value:	\$300,000.00
Original Contract Dates:	03-13-2017 – 09-30-2018
No. of Option Years in Contract:	1
Option Year 1 Value:	\$400,000.00
Option Year 1 Dates:	10-01-2018 – 09-30-2019
Prior Modification Value	\$250,000.00
Prior Modification Date	05-01-2019 – 09-30-2019
Option Year 1 Add Funds Value:	\$142,000.00
Option Year 1 Add Funds Dates:	08-01-2019 – 09-30-2019

Purpose of the Contract:

To provides sales and marketing services including arranging for trucking, invoicing and tracking sales for the Bloom sales team.

Contract Scope:

DC Water generates approximately 165,000 wet tons per year of biosolids from its Blue Plains Advanced Water Resource Recovery Facility. Our Class A exceptional quality biosolids is trade named Bloom.

DC Water has historically contracted out the hauling and disposition management of Bloom. Blue Drop's engagement decreases these management costs and generates revenue for DC Water. Blue Drop provides marketing, invoicing, and collection services for the Bloom sales team. This is the final year of a three-year agreement.

Spending Previous Year:

Cumulative Contract Value:	03-13-2017 to 09-30-2019: \$950,000.00
Cumulative Contract Spending:	03-13-2017 to 08-08-2019: \$690,737.00

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 LSB/LSBE participation

PROCUREMENT INFORMATION

Contract Type:	Goods and Services	Award Based On:	Sole Source
Commodity:	Biosolids	Contract Number:	17-PR-BLOOM-01
Contractor Market:	Closed Market		

BUDGET INFORMATION

Funding:	Operating	Department:	Wastewater Treatment
Project Area:	Blue Plains AWTP	Department Head:	Chris Peot

ESTIMATED USER SHARE INFORMATION

User - Operating	Share %	Dollar Amount
District of Columbia	45.15%	\$64,113.00
Washington Suburban Sanitary Commission	39.61%	\$56,246.20
Fairfax County	9.76%	\$13,859.20
Loudoun Water	4.74%	\$6,730.80
Potomac Interceptor	0.74%	\$1,050.80
TOTAL ESTIMATED DOLLAR AMOUNT	100.00%	\$142,000.00

 / 9/5/19
 Akile Tesfaye Date
 VP of Wastewater Operations

 / 9/5/19
 Dan Bae Date
 VP of Procurement and Compliance

 / 9/12/19
 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 MODIFICATION
For Temporary Staffing Services
(Joint Use)**

This contract action is to add \$200,00.00 in funds to option year 2, and exercise option year 3 in the amount of \$1,129,026.16. These actions total \$1,329,026.16.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME:	SUBS:	PARTICIPATION:
MB Staffing Services LLC 819 7 th St. Suite 311 Washington, DC 20001 LSBE	N/A	100%
Premier Staffing Source Inc. 4640 Forbes Boulevard, Suite # 200A Lanham, MD 20706 LBE	N/A	100%

DESCRIPTION AND PURPOSE

	<u>MB Staffing</u>	<u>Premier Staffing</u>
Original Contracts Value:	\$200,000.00	\$200,000.00
Original Contracts Dates:	11-01-2016 – 10-31-2017	11-01-2016 – 10-31-2017
No. of Option Years in the contract:	4	4
Contract Modification, Base Year's Value:	\$319,912.31	\$0.00
Contract Modification, Base Year's Dates:	04-01-2017 – 10-31-2017	
Option Year No.1 Value:	\$1,299,689.60	\$100,000.00
Option Year No.1 Dates:	11-01-2017 – 10-31-2018	11-01-2017 – 10-31-2018
Option Year No. 2 Value:	\$2,030,300.00	\$648,862.00
Option Year No. 2 Dates:	11-01-2018 – 10-31-2019	11-01-2018 – 10-31-2019
Option Year 2 Modification Value:	\$187,200.00	\$12,800.00
Option Year 2 Modification Dates:	10-01-2019 – 10-31-2019	10-01-2019 – 10-31-2019
Option Year No. 3 Value:	\$1,009,026.16	\$120,000.00
Option Year No. 3 Dates:	11-01-2019 – 10-31-2020	11-01-2019 – 10-31-2020

Purpose of the Contract:

To supply Temporary Staffing Services for DC Water. The different departments submit individual requests for temporary staffing services as their need arises.

Contract Modification:

This action modifies the current Temporary Staffing contracts by adding funds to Option Year 2 and by exercising Option Year 3. This will incur an additional cost of \$632,833.00 for Operations and \$696,143.16 for Capital Expense, for a total of \$1,329,026.16.

The Option Year 3 amount currently exceeds the budget available for this contract, and the anticipated cost reductions in other line items will be used as needed.

Department-Unit	Budget
Engineering	\$696,143.16
Fleet	\$100,000.00
Customer Svc	\$102,000.00
Dept. Pumping Ops	\$100,000.00
Risk Mgmt.	\$93,683.00
Water Ops	\$92,000.00
General Counsel	\$65,200.00
Waste-Water Treatment	\$60,000.00
Permit Ops	\$20,000.00
TOTAL	\$1,329,026.16

Spending Previous Year:

Cumulative Contracts' Value: 11-01-2016 to 10-31-2019: \$ 4,798,763.91

Cumulative Contracts' Spending: 11-01-2016 to 09-03-2019: \$ 4,294,151.47

Contractor's Past Performance:

According to the COTR, the Contractor's quality and 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:	16PRHCM44AC/AD
Contractor Market:	Open Market with Preference Points for LBE and LSBE Participation		

BUDGET INFORMATION

Funding:	Operating	Department:	HCM
Project Area:	DC Water Wide	Department Head:	Keith Lindsey

ESTIMATED USER SHARE INFORMATION

User – Operating	Share %	Dollar Amount
District of Columbia	84.61%	\$535,482.31
Washington Suburban Sanitary Commission	11.11%	\$70,313.30
Fairfax County	2.74%	\$17,340.99
Loudoun Water	1.33%	\$8,417.34
Other (PI)	0.21%	\$1,329.05
TOTAL ESTIMATED DOLLAR AMOUNT	100.00%	\$632,883.00

BUDGET INFORMATION

Funding:	Capital	Department:	Waste Water Engineering
Project Area:	Waste Water Engineering	Department Head:	Algynon Collymore

User - FQ44021-CAPM0040-CW44055-GIBP0040-GR13320-GR13320	Share %	Dollar Amount
District of Columbia	41.22%	\$286,950.21
Washington Suburban Sanitary Commission	45.84%	\$319,112.02
Fairfax County	8.38%	\$58,336.80
Loudoun Water	3.73%	\$25,966.14
Other (PI)	0.83%	\$5,777.99
TOTAL ESTIMATED DOLLAR AMOUNT	100.00%	\$696,143.16

Environmental Quality and Operations Committee - 10:15 a.m. V. Action Items- Dan Bae/Len Benson

 9/6/2019

Keith Lindsay Date
EVP Human Capital Management (Acting)

 9/6/19

Dan Bae Date
VP of Procurement and Compliance

For Matt Brown
 9/13/19

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

ENGINEERING SERVICES:

**Engineering Program Management Consultant 2F
(Non-Joint Use)**

Approval to execute an architectural and engineering services contract for \$20,000,000.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME:	SUBS:	PARTICIPATION:
Mott MacDonald North America The Nature Conservancy Building 4245 N. Fairfax Drive Suite 800 Arlington, VA 22203	McKissack & McKissack Washington, DC	MBE 18.0%
	DM Enterprises of Baltimore Baltimore, MD	MBE 5.0%
	C.C. Johnson & Malhotra, P.C. Washington, DC	MBE 5.0%
	Creative Pages Sterling, VA	WBE 2.0%
	SZ PM Consultants, Inc. Washington, DC	WBE 2.0%

DESCRIPTION AND PURPOSE

Contract Value: \$20,000,000
 Contract Time: 1,825 Days (5 Years, 0 Months)
 Anticipated Contract Start Date: 01-01-2020
 Anticipated Contract Completion Date: 12-31-2024

Other firms submitting proposals/qualification statements: None*

*This contract was public noticed for 60 days in four advertisements and we received only one qualified proposal.

Purpose of the Contract:

To provide program management of the water service area Capital Improvements Program (CIP); provide technical support, staff augmentation and support operations of the water service area.

Contract Scope:

- Program management of the water service area CIP, including but not limited to;
 - Annual updates to the water CIP
 - Develop distribution system Master Planning documents
 - Develop programs for pipeline assessment, rehabilitation and/or replacement
 - Identify system facilities and distribution requirements
 - Manage overall planning of projects within the CIP
- Provide technical support to the water service area, including but not limited to;
 - Conduct review of third party submittals
 - Conduct tri-annual inspection of reservoirs and elevated tanks
 - Maintain water distribution system hydraulic model and provide GIS management support
- Augment DC Water staff with experienced & qualified technical resources and Project Managers
- Support operational departments
 - Provide technical expertise pertaining to existing or proposed assets and facilities
 - Provide technical support for development of SOPs, Job Plans, O&M Manuals and other guidance documents

PROCUREMENT INFORMATION			
Contract Type:	Cost Plus Fixed Fee	Award Based On:	Highest Ranking Score
Commodity:	Engineering Services	Contract Number:	DCFA# 502-WSA
Contractor Market:	Open Market		

BUDGET INFORMATION			
Funding:	Capital	Department:	Engineering and Technical Services
Service Area:	Water	Department Head:	Craig Fricke
Project:	AY, FA, FT, KV, MQ, QF		

ESTIMATED USER SHARE INFORMATION		
User	Share %	Dollar Amount
District of Columbia	100.00%	\$20,000,000.00
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%	\$20,000,000.00


 _____ | 9.6.19
 Leonard R. Benson Date
 Senior Vice President, Chief Engineer


 _____ | 9.10.19
 Dan Bae Date
 VP of Procurement and Compliance

FOR DAN BAE


 _____ | 9/12/19
 Matthew T. Brown Date
 CFO and EVP of Finance and Procurement

 David L. Gadis Date
 CEO and General Manager