



DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY

Board of Directors

*Meeting of the
Environmental Quality and Sewerage Services
Committee*

*5000 Overlook Avenue, SW, Room 407
Thursday, October 20, 2016
9:30 a.m.*

- | | | |
|-------------------|---|------------------------|
| | I. Call to Order | Bo Menkiti, Vice Chair |
| 9:30 a.m. | II. AWTP Status Updates
1. BPAWTP Performance | Aklile Tesfaye |
| 9:45 a.m. | III. Asset Management Program Updates | Craig Fricke |
| 10:15 a.m. | IV. Action Items | John Bosley/Len Benson |
| | Joint Use | |
| | 1. WAS-12-033-AA-RE Fleet Management Services, Centerra Integrated Services | |
| | 2. WAS-12-035-AA-RE Parts Supply for Fleet Management, Centerra Integrated Services | |
| | 3. DCFA #481 WSA – Project Delivery Services for Sewer Service Areas, Greeley and Hansen/ O'Brien & Gere Joint Venture | |
| | 4. IFB No. 150200 - Watts Branch Sewer Rehabilitation Phase III and Spring Valley Sewer Rehabilitation, SAK Construction, LLC | |
| | Non-Joint Use | |
| | 1. None | |
| 10:45 a.m. | V. Other Business/Emerging Issues | . |
| 10:55 a.m. | VI. Adjournment | Bo Menkiti, Vice 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

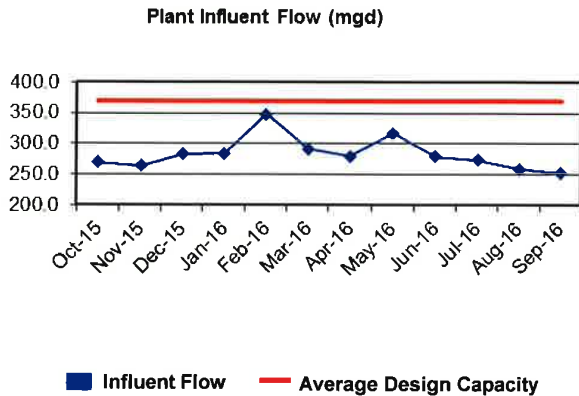
negotiations under D.C. Official Code § 2-575(b)(1); legal, confidential or privileged matters under D.C. Official Code § 2-575(b)(4); collective bargaining negotiations under D.C. Official Code § 2-575(b)(5); facility security under D.C. Official Code § 2-575(b)(8); disciplinary matters under D.C. Official 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:

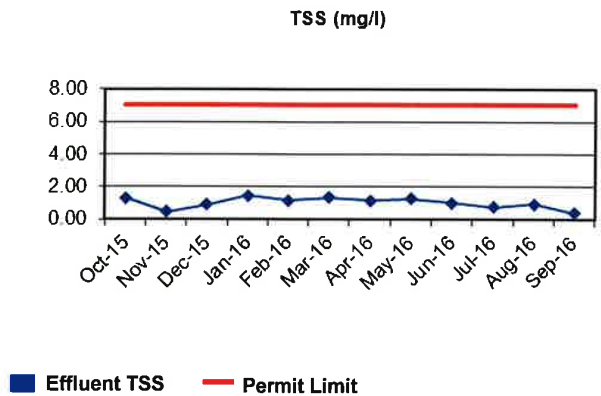
1. Assistant General Manager for Wastewater Treatment, Blue Plains: Provide a normalized trend line as well as some precipitation information as part of the 'influent flow trend' graph. **{Incorporated into BPAWTP Performance Report}**
2. Director, Procurement: For Action Items 2, 3 and 6 state clearly the reasons for any modification of the contract amount in the fact sheet summary. **{Completed}**
3. Director, Procurement: Ensure that invoices be paid only for modification requests that have been reviewed and approved in advance by the Committee and that any modifications to existing contract option years are presented to the Committee prior to the expiration date for the option year and/or prior to depletion of the existing budget. **{Completed}**
4. Director, Procurement: For Action Item 6, provide a detailed breakdown of sub-contractor participation (MBE/WBE) within the fact sheet. **{Completed}**

DEPARTMENT OF WASTEWATER TREATMENT September 2016

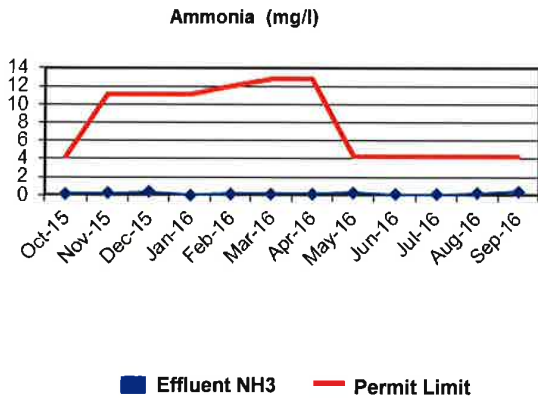
Average plant performance for the month was excellent with all effluent parameters well below the seven-day and monthly NPDES permit requirements. The monthly average influent flow was 252 MGD. There was 4 MG of Excess Flow during this reporting period. The following Figures compare the plant performance with the corresponding NPDES permit



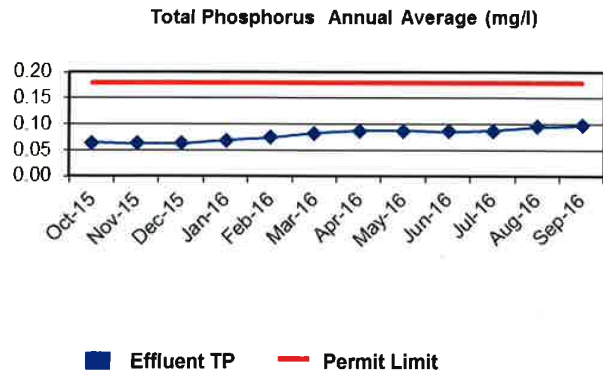
This graph illustrates the monthly average influent flow to the plant. The design average flow is 370 MGD. Blue Plains has a revised 4-hour peak flow capacity of 511 MGD through complete treatment. Flows up to 336 MGD in excess of the 511 MGD peak capacity receive primary treatment, disinfection and dechlorination.



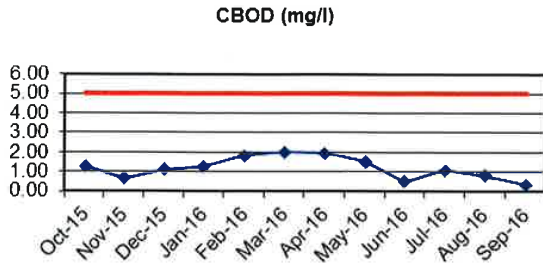
Effluent Total Suspended Solids (TSS) is a measure of the amount of solid material that remains suspended after treatment. The effluent TSS concentration for the month averaged 0.95 mg/L, which is below the 7.0 mg/L permit limit.



The Ammonia Nitrogen (NH₃-N) is a measure of the nitrogen found in ammonia. For the month, effluent NH₃-N concentration averaged 0.23 mg/L and is below the average 4.2 mg/L limit.

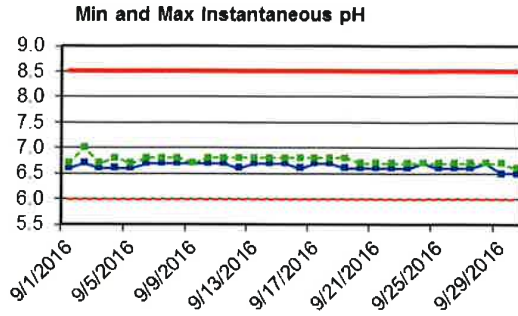


The Total Phosphorus (TP) is a measure of the particulate and dissolved phosphorus in the effluent. The annual average effluent TP concentration is 0.10 mg/L, which is below the 0.18 mg/L annual average limit.



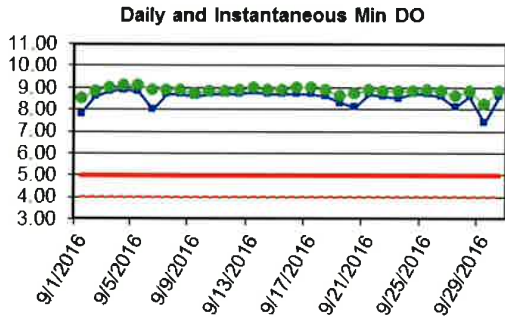
■ Effluent CBOD — Permit Limit

Carbonaceous Biochemical Oxygen Demand (CBOD) is a measure of the amount of dissolved oxygen required for the decomposition of organic materials. The effluent CBOD concentration averaged 0.82 mg/L (partial month), which is below the 5.0 mg/L limit.



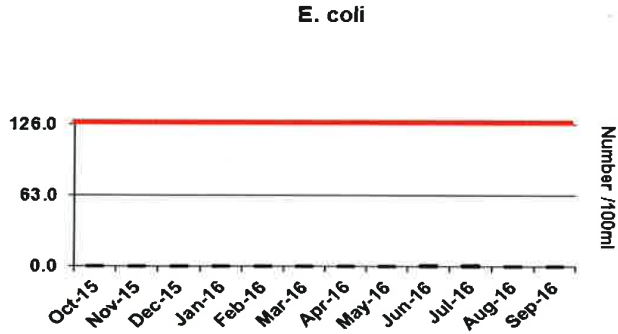
● MAX pH ■ MIN pH — Upper Limit - - Lower Limit

pH is a measure of the intensity of the alkalinity or acidity of the effluent. The minimum and maximum pH observed were 6.5 and 7.0 standard units, respectively. The pH was within the permit limits of 6.0 and 8.5 for minimum and maximum respectively.



● MIN Daily Average ■ Instant MIN DO
— MIN Daily Average Limit - - Instant MIN Limit

Dissolved Oxygen (DO) is a measure of the atmospheric oxygen dissolved in wastewater. The DO readings for the month are within the permit limits. The minimum daily average is 8.5 mg/L. The minimum instantaneous DO reading is 7.4 mg/L. The minimum permit limits are 5.0 mg/L and 4.0 mg/L respectively.

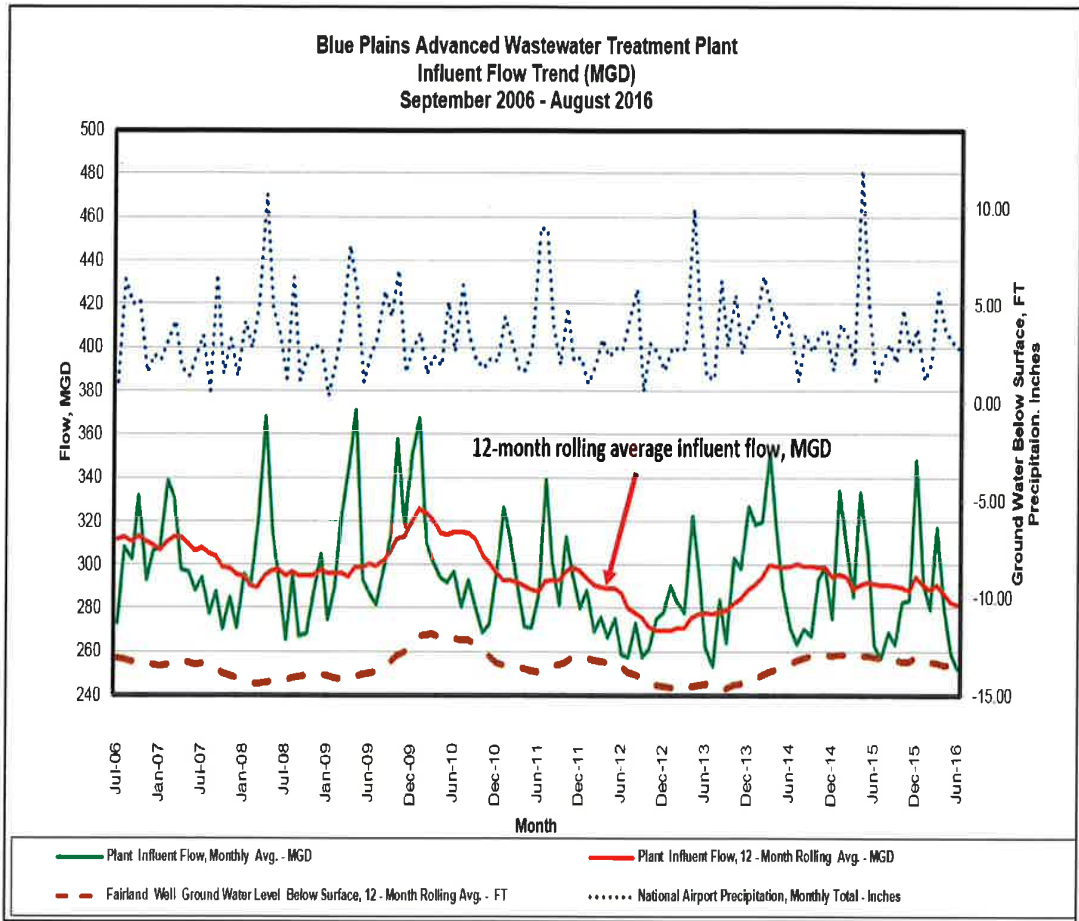


■ E. Coli Geomean — Permit Limit

E.coli is an indicator of disease causing organisms (pathogens). The E.coli permit limit is 126/100mL. The E coli geometric mean is 1.3/100mL, and well below the permit limit.

Plant Influent Flow Trend

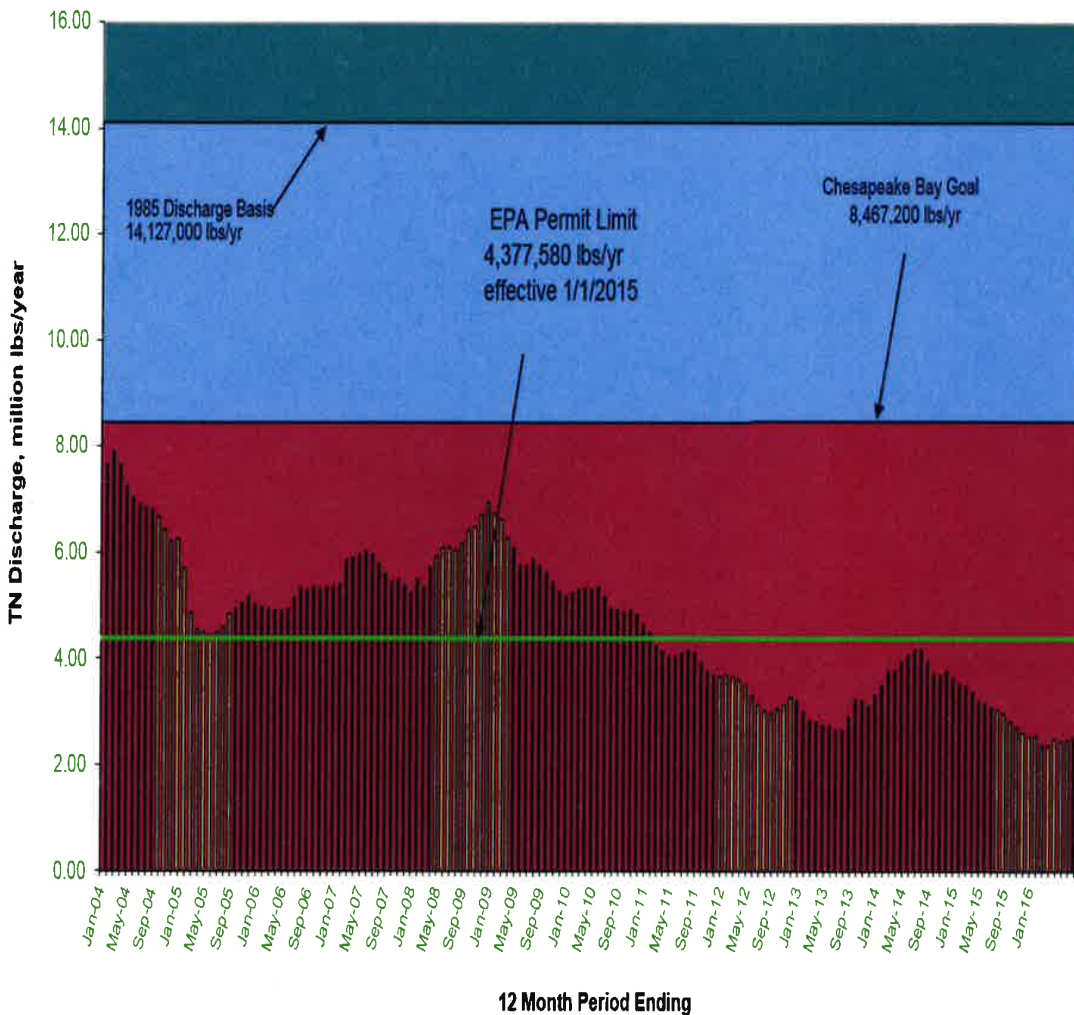
The graph below shows influent flow trend to the plant over a 10-year period ending August 2016. While for any given month the flow is weather dependent, the 12-month rolling average influent flow has remained at or below 300 since February 2011.



BIOLOGICAL NUTRIENT REMOVAL PERFORMANCE

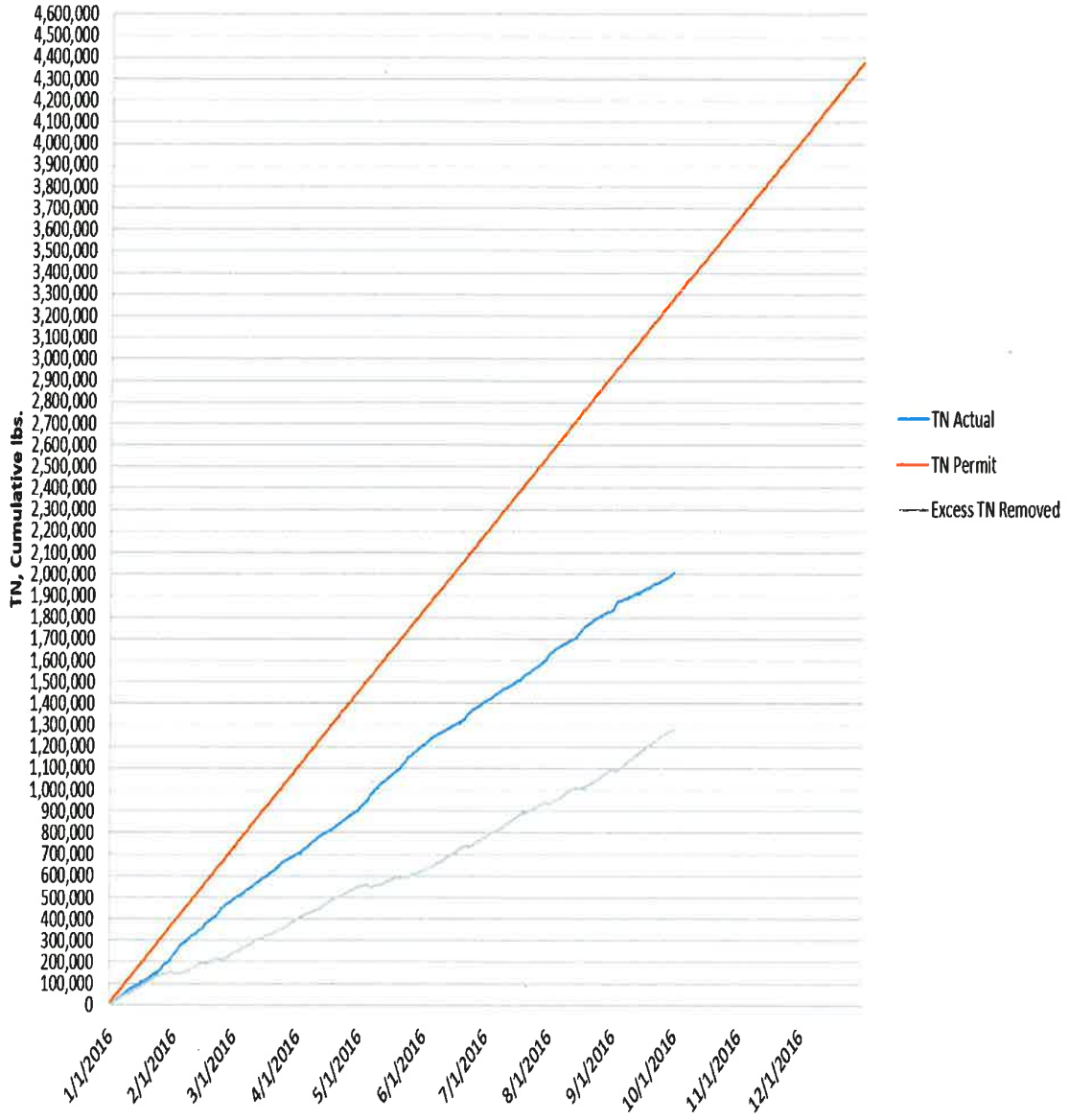
During the month, the full-scale BNR process produced an effluent with average total nitrogen concentration of 2.78 mg/l. The figure below shows Blue Plains effluent total nitrogen (TN) since the implementation of full scale BNR.

Annual Total Nitrogen Load, lbs/yr



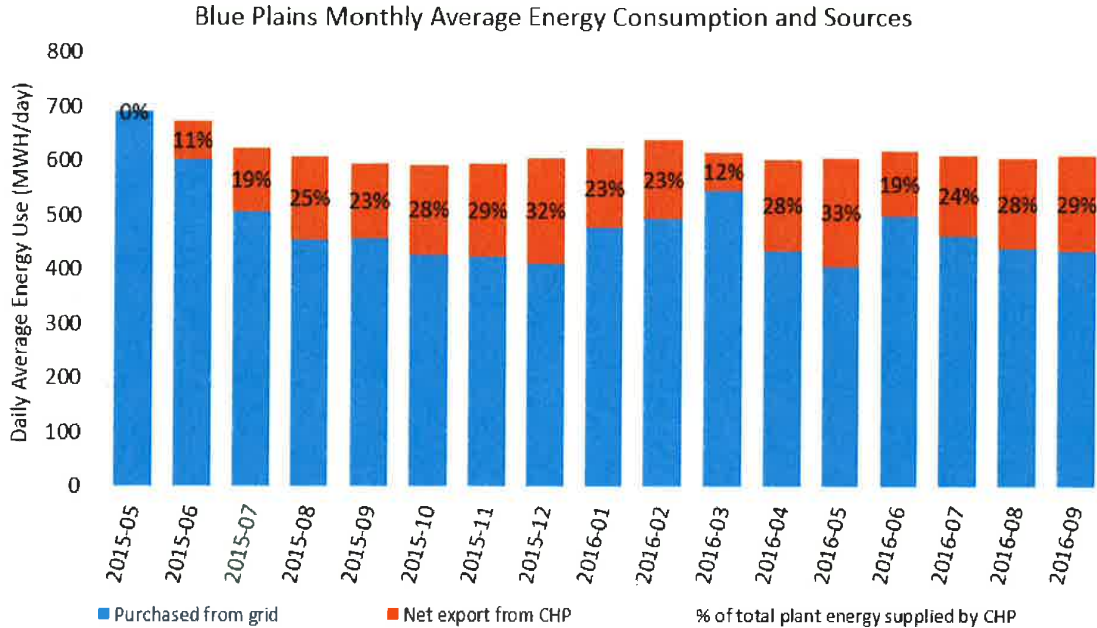
TN Removal at Blue Plains is on target to meet limits for 2016 as seen in the graph below.

2016 Cumulative Nitrogen



BLUE PLAINS ELECTRICITY GENERATION AND USAGE

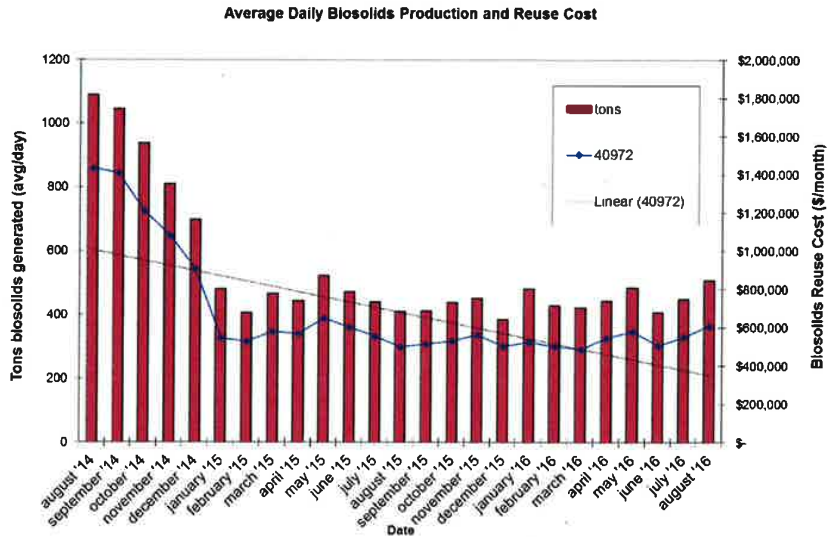
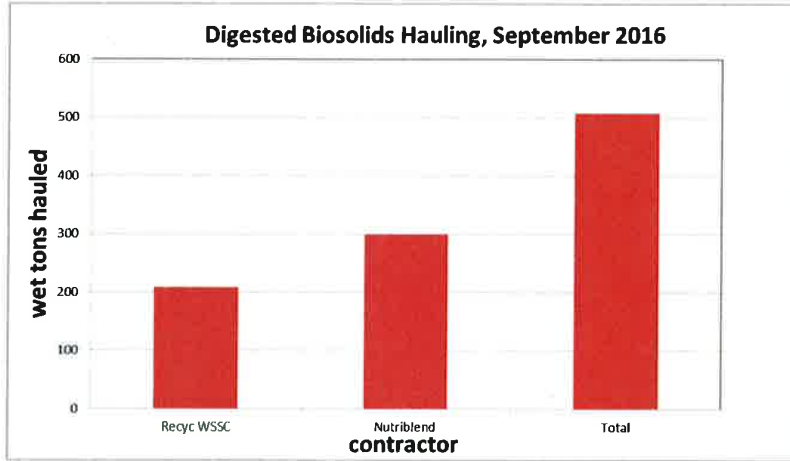
The average energy consumed at Blue Plains was 612 MWH/day for the month of September, while the average energy purchased from PEPCO was 436 MWH/day. 2.43 MWH of electricity was used per million gallon of wastewater that was fully treated. The CHP facility exported an average of 176 MWH/day, making up for 29% of total energy consumed at Blue Plains.



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 (exported) by CHP are indicated by the blue and orange highlights, respectively.

BLUE PLAINS RESOURCE RECOVERY REPORT – SEPTEMBER 2016

In September, biosolids hauling averaged 508 wet tons per day (wtpd). The graph below shows the total hauling by contractor for the month of September. The average percent solids for the digested material was 30.4%. At the end of September the Cumberland County storage pad had approximately 1468 tons (~25,000 tons capacity), Cedarville lagoon had zero tons of Blue Plains biosolids (~30,000 tons capacity), Goochland pad had zero tons, and Fauquier lagoon had 385 tons (~15,000 tons capacity).

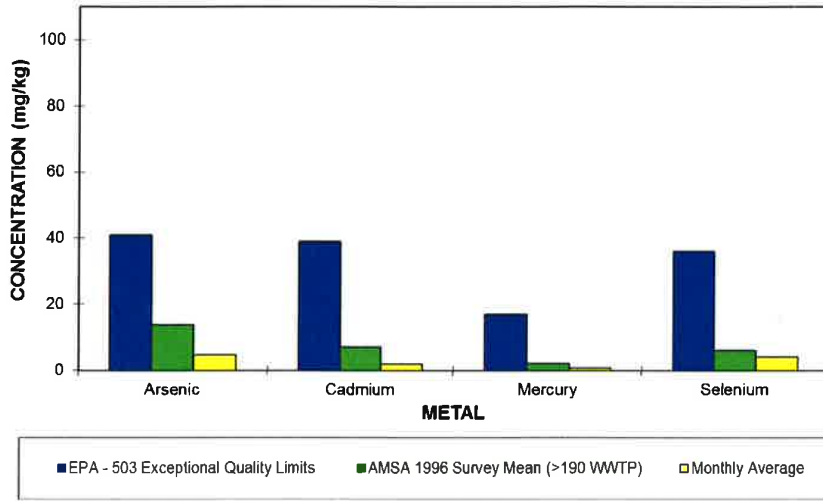


In September, diesel prices averaged \$2.49/gallon and with the contractual fuel surcharge the weighted average biosolids reuse cost was \$39.78/wet ton.

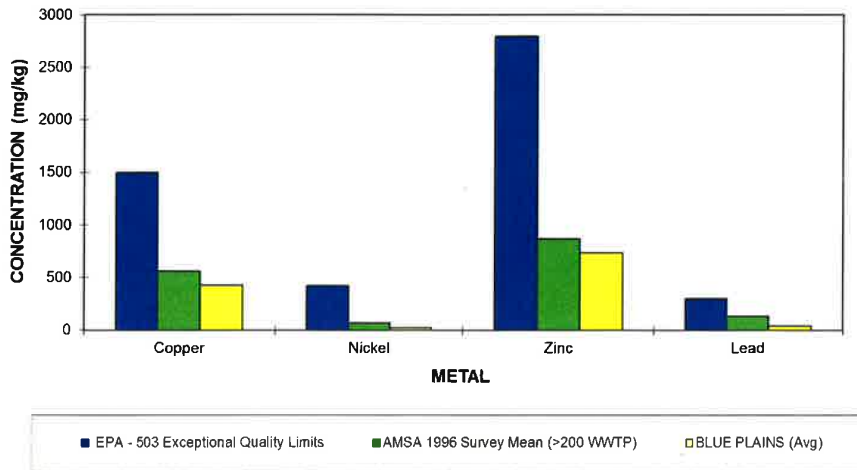
Product Quality

The graph below show the EPA regulated heavy metals in the Blue Plains biosolids for the month of August 2016. As can be seen in the graphs, the Blue Plains levels are considerably below the regulated exceptional quality limits and the national average.

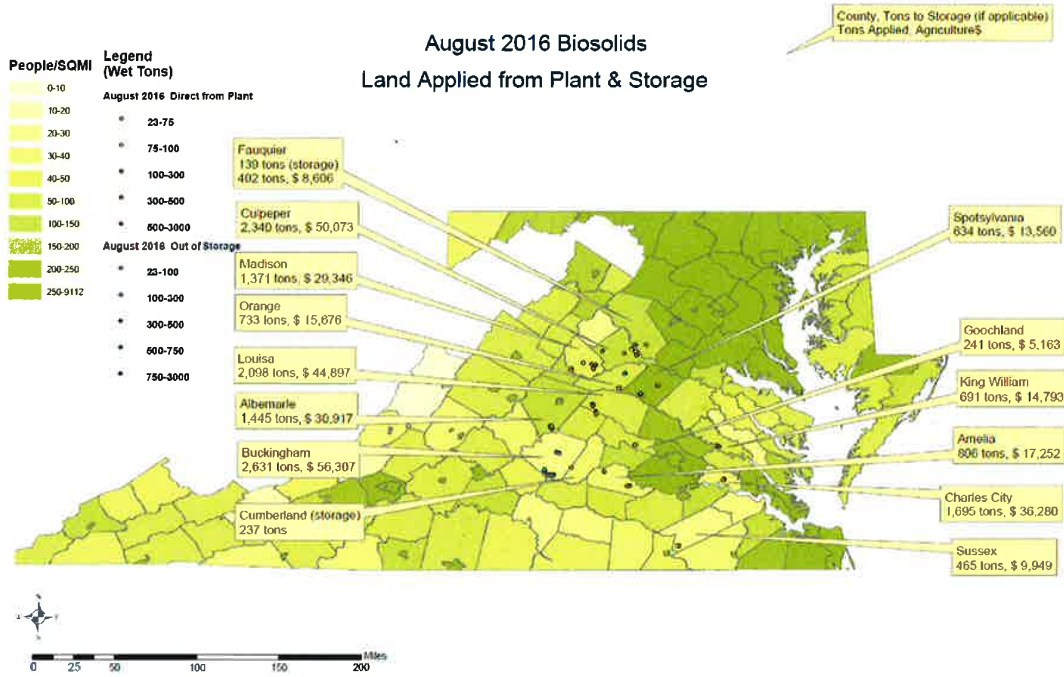
**BLUE PLAINS BIOSOLIDS METALS COMPARISON
August 2016**



**BLUE PLAINS BIOSOLIDS METALS COMPARISON
August 2016**



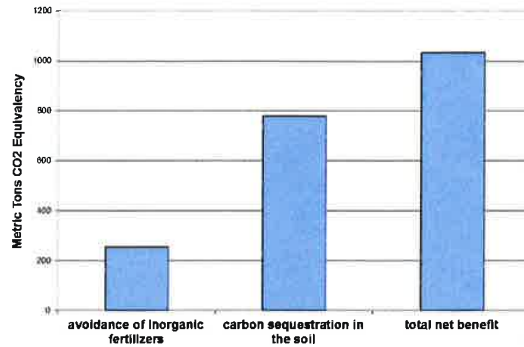
Biosolids Applications and Agricultural \$'s for August 2016



Environmental Benefits

The quantity land applied in August coming directly from the plant and from storage facilities equaled 15,552 tons. Taking into account the fuel required to transport biosolids to the field, the net benefit of the land applied material is 1034 metric tons CO₂ equivalent avoided emissions. This is equivalent to taking 2,106,489 car miles off the road in the month of August (assumes 20 mpg, 19.4 lb CO₂ equivalent emissions/gallon gas – EPA estimate). The cumulative total avoided carbon emission since, January 2006 is 149,696 metric tons CO₂ equivalent.

**DCWater Biosolids Recycling Program
Greenhouse Gas Balance Benefits
August 2016 Totals**



Highlights

Staff filled the first order of bagged Bloom for delivery to Casey Trees and DC DOT (DDOT) for tree planting. Through a landscaping company that has access to bagging equipment, we filled ~900 bags and sold them to the two organizations listed above. The landscaping company is interested in receiving more Bloom in the future, and we anticipate a sales relationship with them to develop in the coming months. Their desire to work with DC Water and Bloom resulted in their bagging the material at a very low cost, making for a large savings over our land application costs. A small amount, yes, but at the very least it proves the concept that there is a market for this material.



CLEAN WATER QUALITY AND TECHNOLOGY

The Clean Water Quality and Technology department includes the research and development, pretreatment and laboratory programs. A summary of activities for each group is provided below.

Research and Development

The research and development team continues to work on research topics associated with the planning and operation of Blue Plains. The current focus of research is to optimize treatment process capacity and to work toward achieving energy neutral operations.

Polymer evaluation to address coagulation and flocculation limitation in the biological sludge systems at Blue Plains to enhance clarification performance and capacity.

Solids settleability in sedimentation basins is a major limitation in wastewater treatment systems. Accelerating settling by making process or configuration changes (i.e. operating at a different SRT, or using alternative high-rate contact stabilization process) or by adding polymer can help increase the capacity of our secondary treatment systems. Linear polymer has been dosed at a constant rate of 0.2 mg/L or 0.1 mg/kg TSS over the past year. In this study we evaluated the effectiveness of this polymer addition for achieving increased settling rates and examined other polymer types to see if they would be more effective in overcoming coagulation and flocculation limitations in our biological systems at Blue Plains.

Batch jar tests were performed in the lab using 2 types of flocculant polymer: Linear polymer (LP) and Branched polymer (BP), and 2 coagulants: Polydadmac and ferric chloride. Particles settling in a clarifier undergo two main processes – coagulation and flocculation. Coagulation is a chemical process related to neutralizing the surface charge of particles to allow them to collide more effectively and form larger particles. The next step is flocculation, which is a term used to describe the physical process of adherence of small particles together to form larger particles (flocs). The effectiveness of the polymer can be tested through evaluation of the flocculation rates and polymer response curves (collision efficiency evaluation) and shear resistance (floc strength). These 3 pieces of information allows for quantification and comparison of differences in flocculation behavior with and without polymer addition.

At Blue Plains there are three biological systems that perform the bulk of the biological treatment; the east and west secondary, and the tertiary ENR systems. The East secondary system is bioaugmented with sludge from the ENR system which changes the settling characteristics (compared to the west secondary process). The table below summarizes the observations for all three sludges and the recommended polymer and coagulant addition to improve settling rates and effluent quality.

System	Sludge Source	Coagulation	Flocculation	Flocculation description	Improvements
East Secondary	East Secondary Bioaugmented with ENR sludge	Good	Limited	Weak but floc formation rate is good	Branched polymer may improve floc strength while maintaining effluent quality
West Secondary	West Secondary only	Limited	Limited	Strong but floc formation rate is slow	Combined Coagulant and Flocculant Polymer
ENR	ENR Sludge	Limited	Good but can be improved	Strongest and forming rate is good	Coagulant addition to improve effluent quality Branched polymer to further improve flocculation

Blue Plains Main Laboratory

The Main Laboratory staff conducts analyses on Blue Plains AWTP effluent for NPDES Permit requirements, as well as on biosolids, pretreatment samples, storm water runoff, and process samples, on a daily basis, 365 days a year. The laboratory currently analyzes approximately 2,800 samples each month and conducts approximately 8,000 analyses, including Total Suspended Solids; Volatile Suspended Solids; Total and Volatile Solids; Ammonia Nitrogen; Nitrite and Nitrate Nitrogen; Total, Soluble, and Ortho Phosphorus; Total and Soluble Kjeldahl Nitrogen; Carbonaceous Biochemical Oxygen Demand; Chemical Oxygen Demand; Total Alkalinity and Hardness; and Fecal Coliform and E. Coli microbiological testing.

This month, the laboratory continued the analysis of Belt Filter Press cake samples for fecal coliform bacteria for DC Water’s Class A Biosolids reporting, as well as digester samples from the new Cambi Thermal Hydrolysis and Anaerobic Digestion facility, including Total and Volatile Solids, Total and Volatile Suspended Solids, Ammonia Nitrogen, alkalinity and pH. Fecal coliforms in the BFP dewatered cake and TS and VS upstream and downstream of the digestion process are monitored to show compliance with 40 CFR 503 Pathogen and Vector Attraction Reduction requirements.

The laboratory also assisted the Department of Sewer Services conducting microbiological analysis of water samples for E. coli bacteria. Laboratory staff also participated in the WWOA Executive Board and this month attended the Tri-Association Conference of the Chesapeake American Water Works Association (AWWA), the Chesapeake Water Environment Association (CWEA), and the Water and Waste Operators of MD, DE, and DC (WWOA), as well as the Water Environment Federation’s Annual Technical Exhibition and Conference (WEFTEC).

Blue Plains Pretreatment Program

The Blue Plains Pretreatment Program manages the Industrial Pretreatment Program, including temporary dewatering dischargers from construction and other activities, as well as the Hauled Waste Program. Additional responsibilities include providing specialized sampling and program management support for the Blue Plains NPDES permit and facilitating the Blue Plains Storm Water Committee meetings. Pretreatment staff also participated in IT's third party portal work group for grease trap/food service establishments and Quality Assurance/Quality Control training this month.

Industrial Pretreatment Program

DC Water currently manages fourteen (14) Significant Industrial User (SIU) permits and sixteen (16) Non-Significant Industrial User (NSIU) wastewater discharge permits. An inspection and compliance monitoring was conducted at one SIU facility this month: Naval Support Facility Carderock. No significant issues were identified. DC Water received monthly self-compliance monitoring reports for six (6) SIUs and one NSIU. All SIUs and NSIUs are in compliance with discharge standards for the current month.

DC Water currently manages 86 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 discharges are currently in compliance with pretreatment standards.

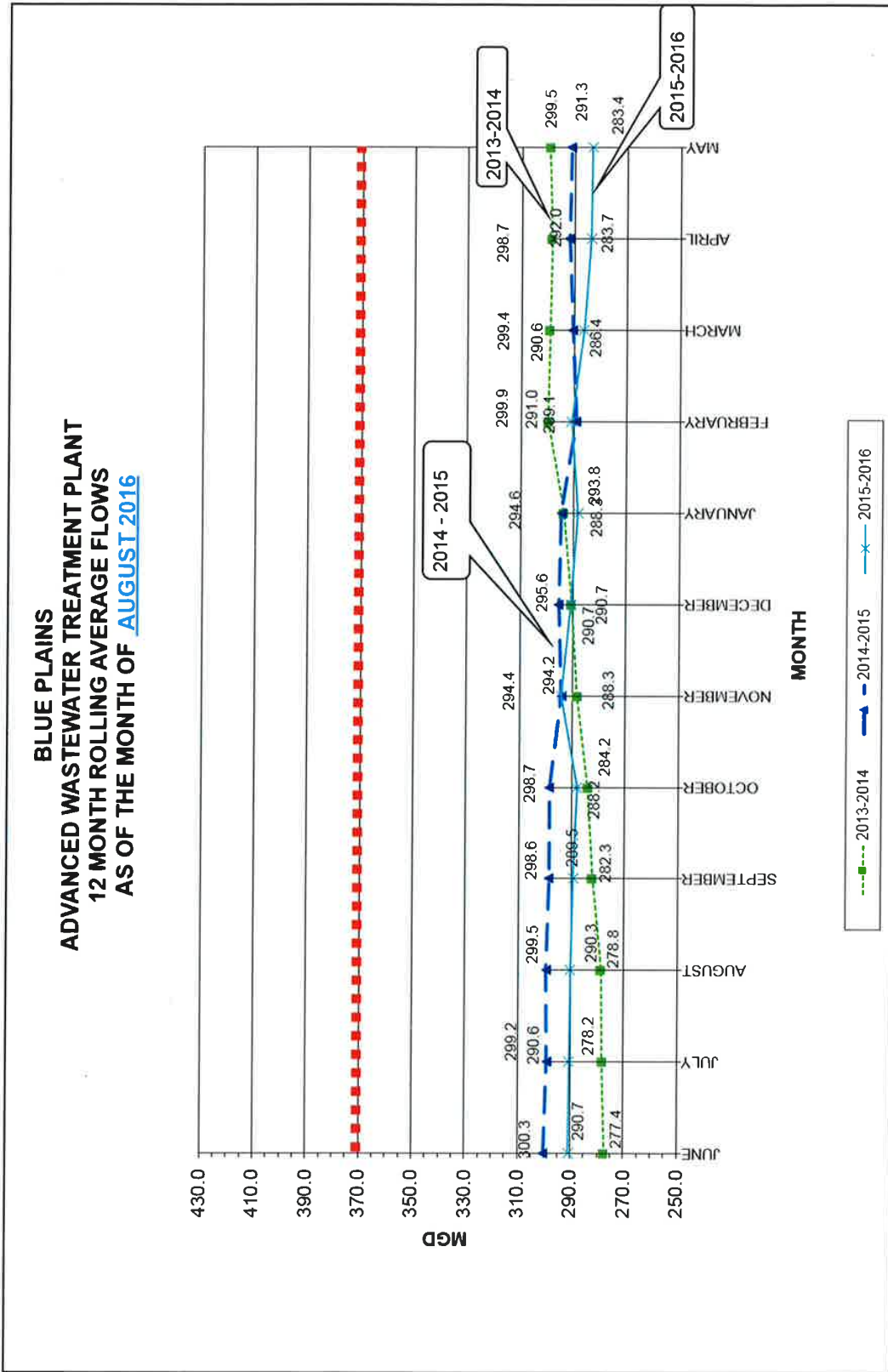
Hauled Waste Program

As of the end of the current month, the hauled waste program had 34 permitted haulers authorized to discharge domestic septage, portable toilet waste, grease trap waste, groundwater or surface runoff, and other types of waste, if approved in advance and have been characterized and meet pretreatment standards. Two new waste hauler permits were issued this month. DC Water collected fees from 19 waste haulers this month, including those on a monthly payment plan option.

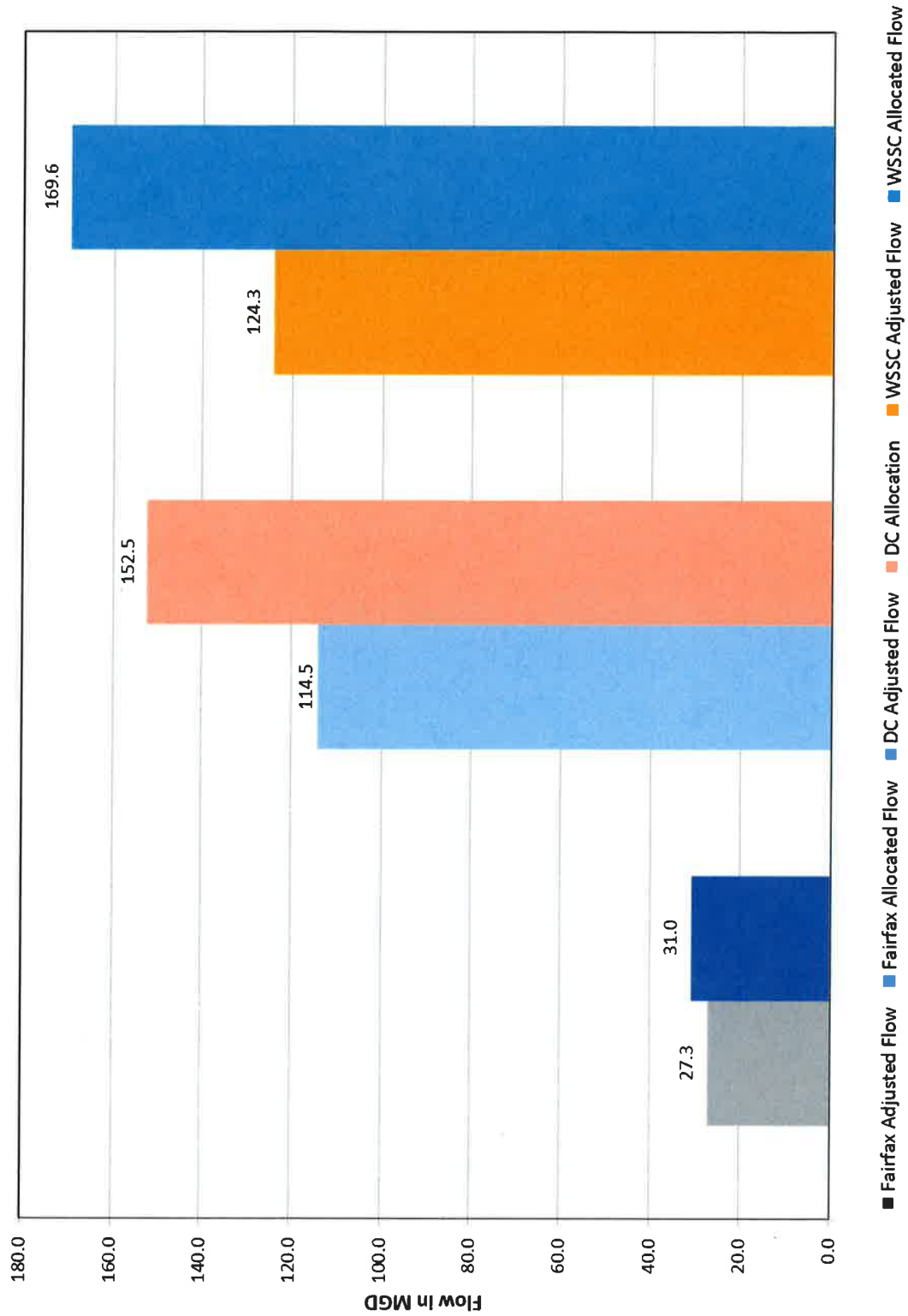
DC Water received 800 hauled waste loads (1,797,087 gallons) from permitted haulers this month. Manifest forms from each truck entering the plant are collected by the security guards and picked up daily by Pretreatment staff. Data is entered into an Excel spreadsheet to track the volume and type of loads being discharged daily and the results of sampling. Two hauled waste samples were collected this month.

NPDES Permit Sampling

Pretreatment staff collected quarterly samples of the influent, effluent (outfall 002), and biosolids this month for local limit parameters, including low-level mercury. Staff also collected one wet weather and two dry weather 24-hour composite samples at outfall 002 for low level PCB analysis this month.



Adjusted Flows vs Allocated Flows - AUGUST 2016





ASSET MANAGEMENT PROGRAM



Asset Management Program Update

October 20, 2016

Agenda

- Brief Review
- KANEW Modeling
- Linear Asset Risk Assessment
 - Sewer System Risk Results
 - Water System Risk Results
- Road Ahead and Future State

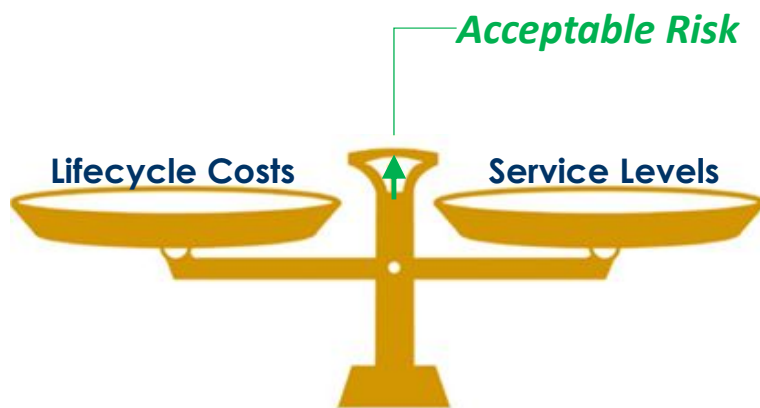


Brief Review



Asset Management addresses costs, risks and service delivery of the entire asset lifecycle

*An integrated set of processes to **minimize the lifecycle costs** of infrastructure assets, **at an acceptable level of risk**, while **continuously delivering established levels of service**.*



Balance conflicting goals by managing risk

Brief Review of Last Board Committee Update

- Initial Phase - Laying the Foundation
- Capital Program Improvements
- Vertical Asset Reliability Improvements
- Linear Asset Management Improvements
- Enterprise Level Initiatives



KANEW Modeling



KANEW

Developed by Water Research Foundation

Licensed by 3S Consult, Germany



KANEW 4



Manual

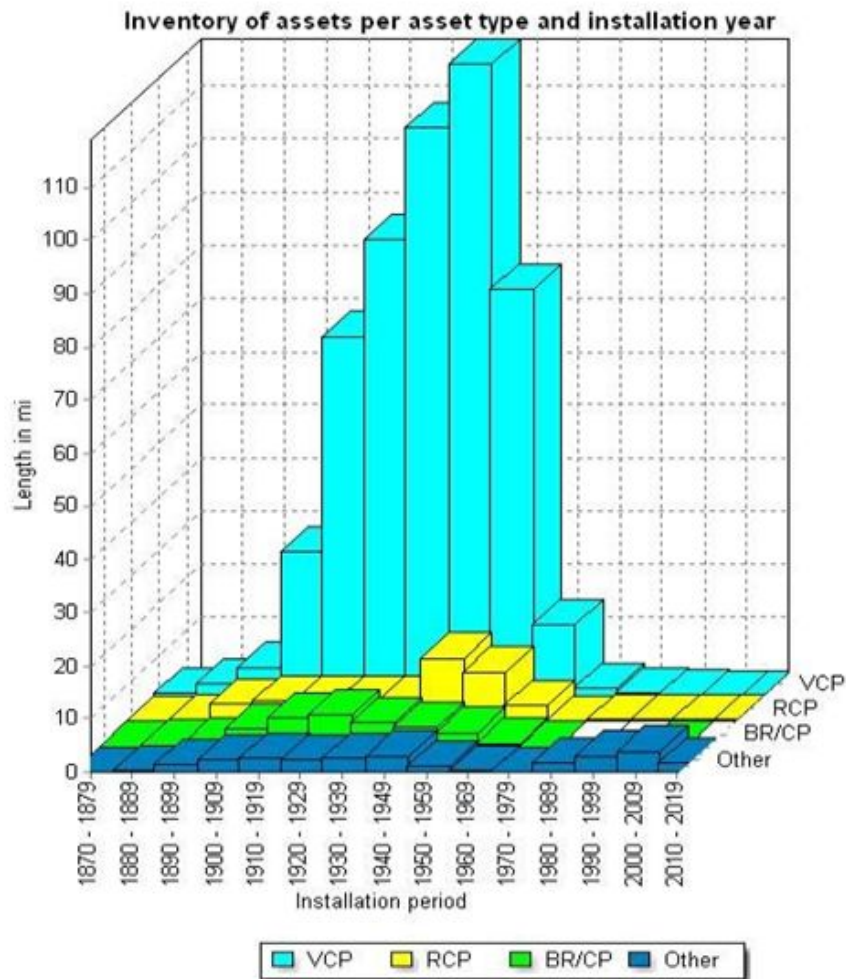


KANEW – Overview

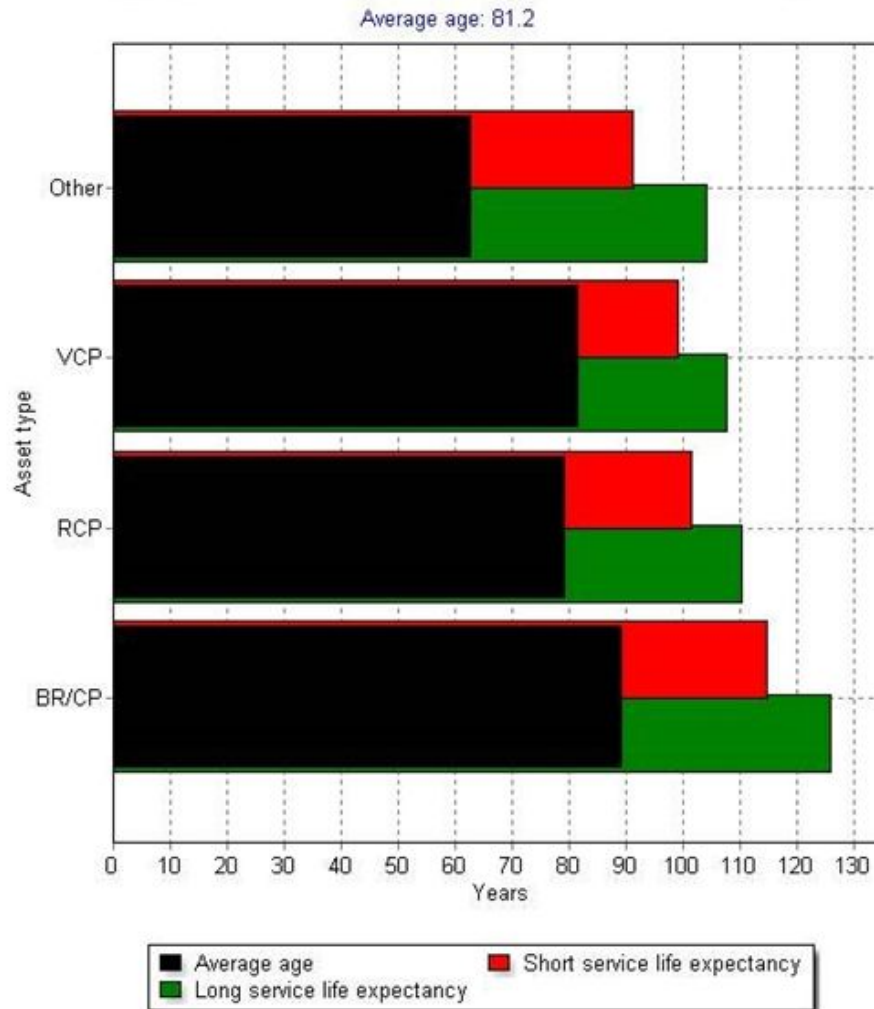
- Long range/strategic planning model for renewal of water and sewer mains
- System-wide statistical model that predicts renewal needs and timing for different pipe “cohorts”
 - Cohorts are logical groupings of pipes based primarily on size and material
- Uses anticipated life expectancies and age distribution of pipes to calculate annual renewal needs
- Anticipated life expectancies of pipes can be based on industry “standards” or specific experience



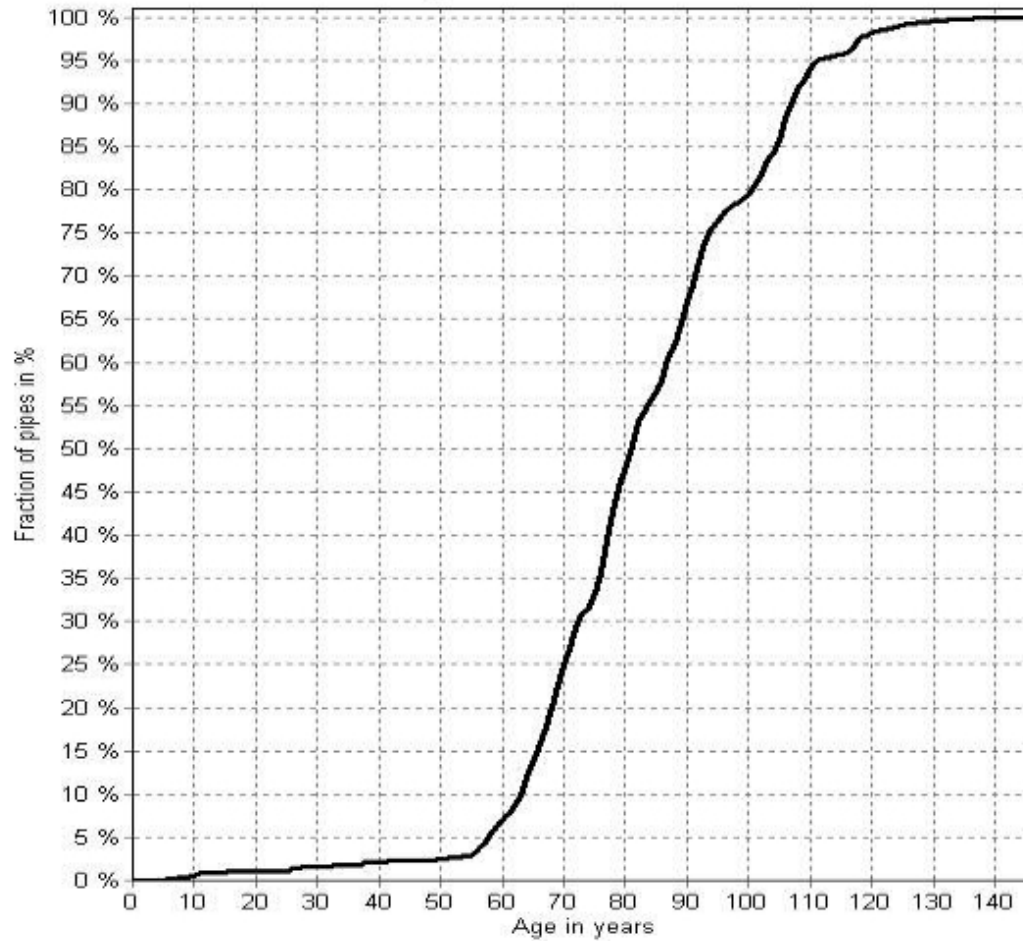
KANEW Input: Sanitary Sewer System Pipe Inventory by Installation Year



KANEW Input: Pipe Age and Life Expectancy



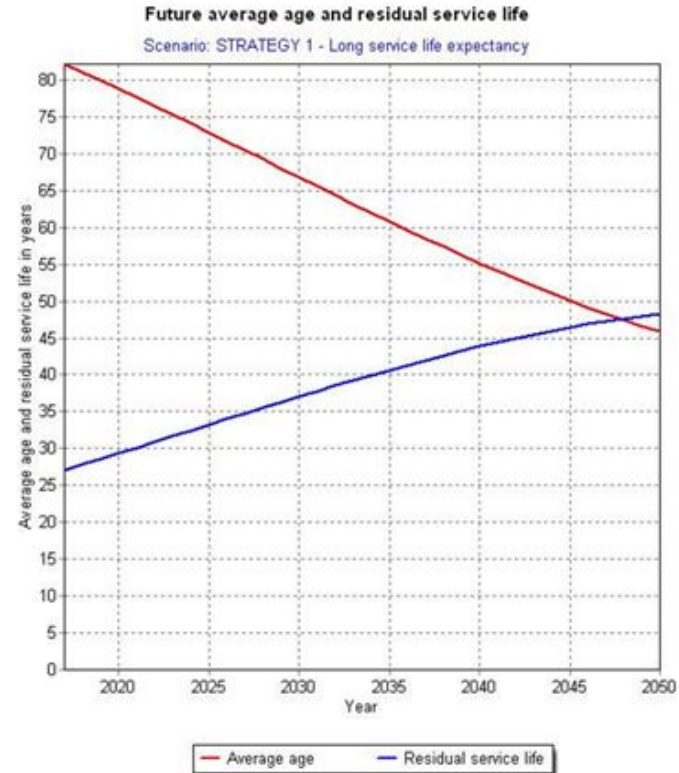
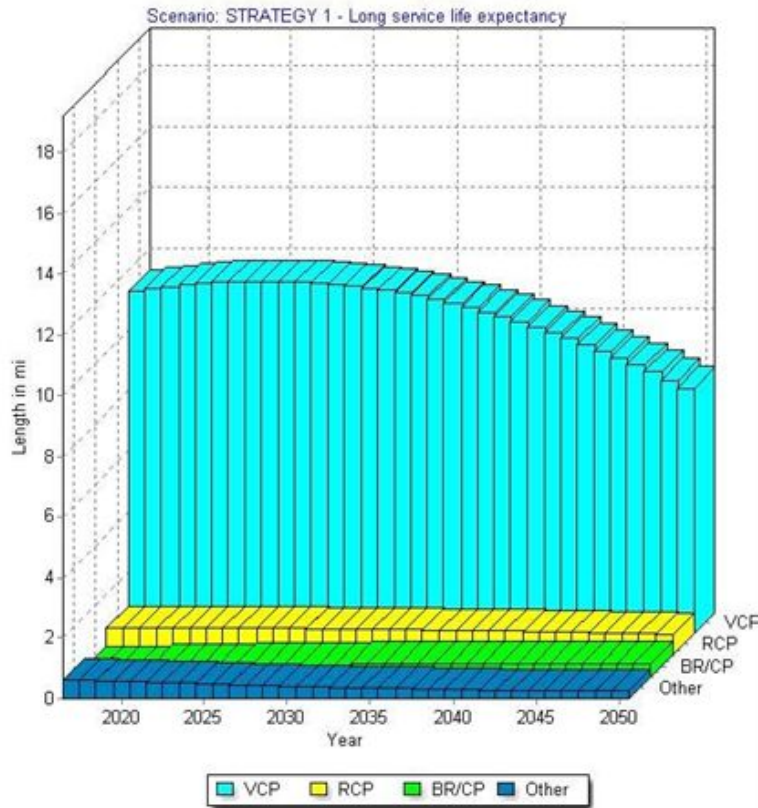
DC Water Sanitary Sewer System Age Distribution



KANEW Output

- Miles of pipe reaching the end of its life expectancy each year
 - Miles of pipe requiring renewal each year
 - Estimated cost for pipe renewal (i.e. replacement or rehabilitation)
- Age distribution of the system over time
 - How the median age and residual life of the system will change over time

Example Output – DC Water Sanitary Sewers



Linear Asset Risk Assessment



Linear Assets Risk Assessment

- Bottom Up Approach / Data Driven
- Based on Enterprise Risk Framework
 - Risk = Consequence of Failure (COF) x Likelihood of Failure (LOF)
- GIS Based Tool
 - Very flexible / easy to “drill down”
 - Slice and dice results different ways
 - Perform sensitivity analyses
 - Create custom reports



Sewer System Risk Results



Sewer System – COF Framework

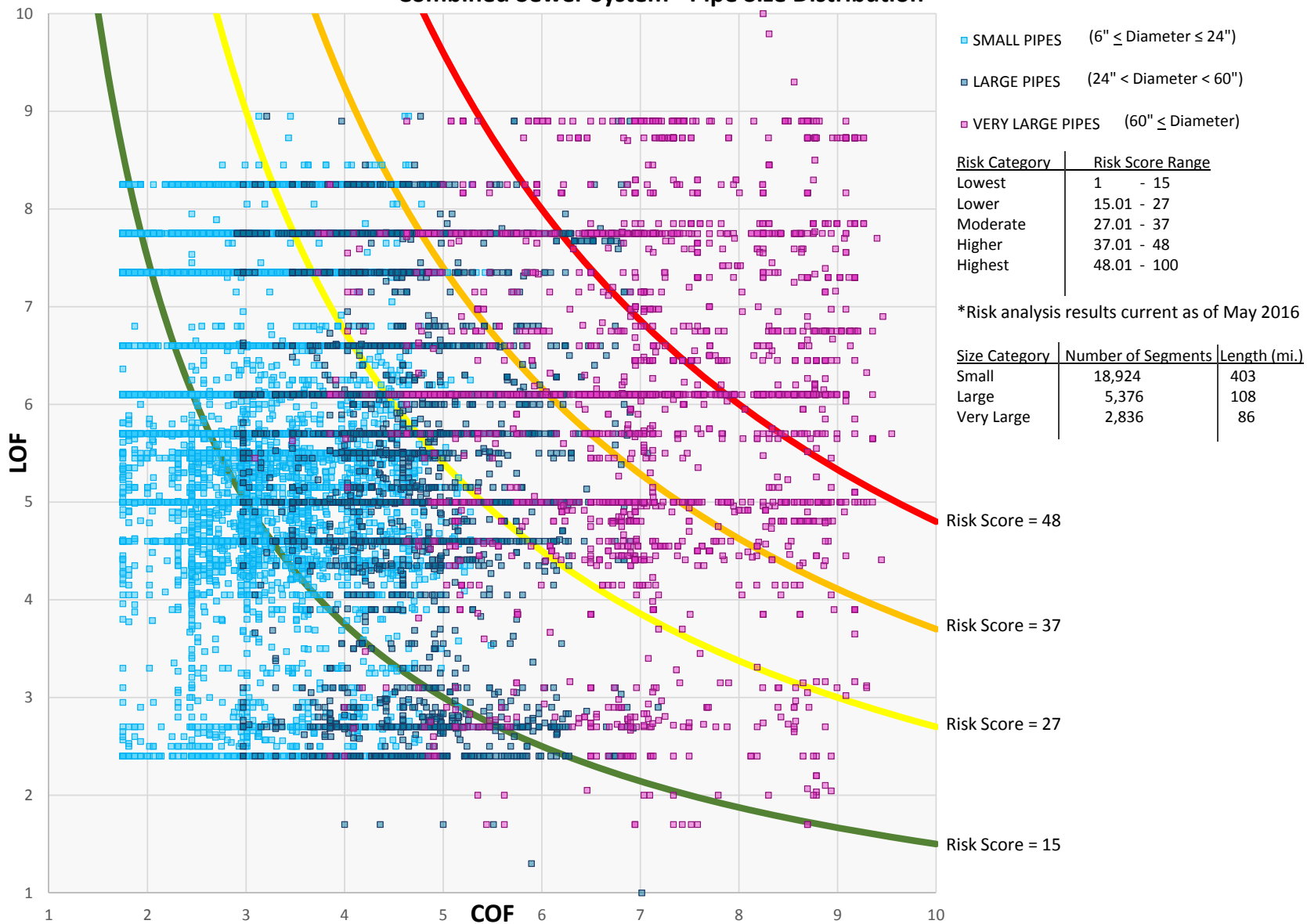
- Health and Safety - 25% of Score
 - Employee Hazards
 - Public Hazards
- Public Confidence - 15% of Score
 - Media Attention
 - Transportation
 - Community/ Business/ Environment
 - Critical Customers
 - Complaints
- System Reliability - 20% of Score
- Regulatory Compliance and Environmental Impact – 25% of Score
- Fiscal Impact - 15% of Score
 - O&M
 - Capital



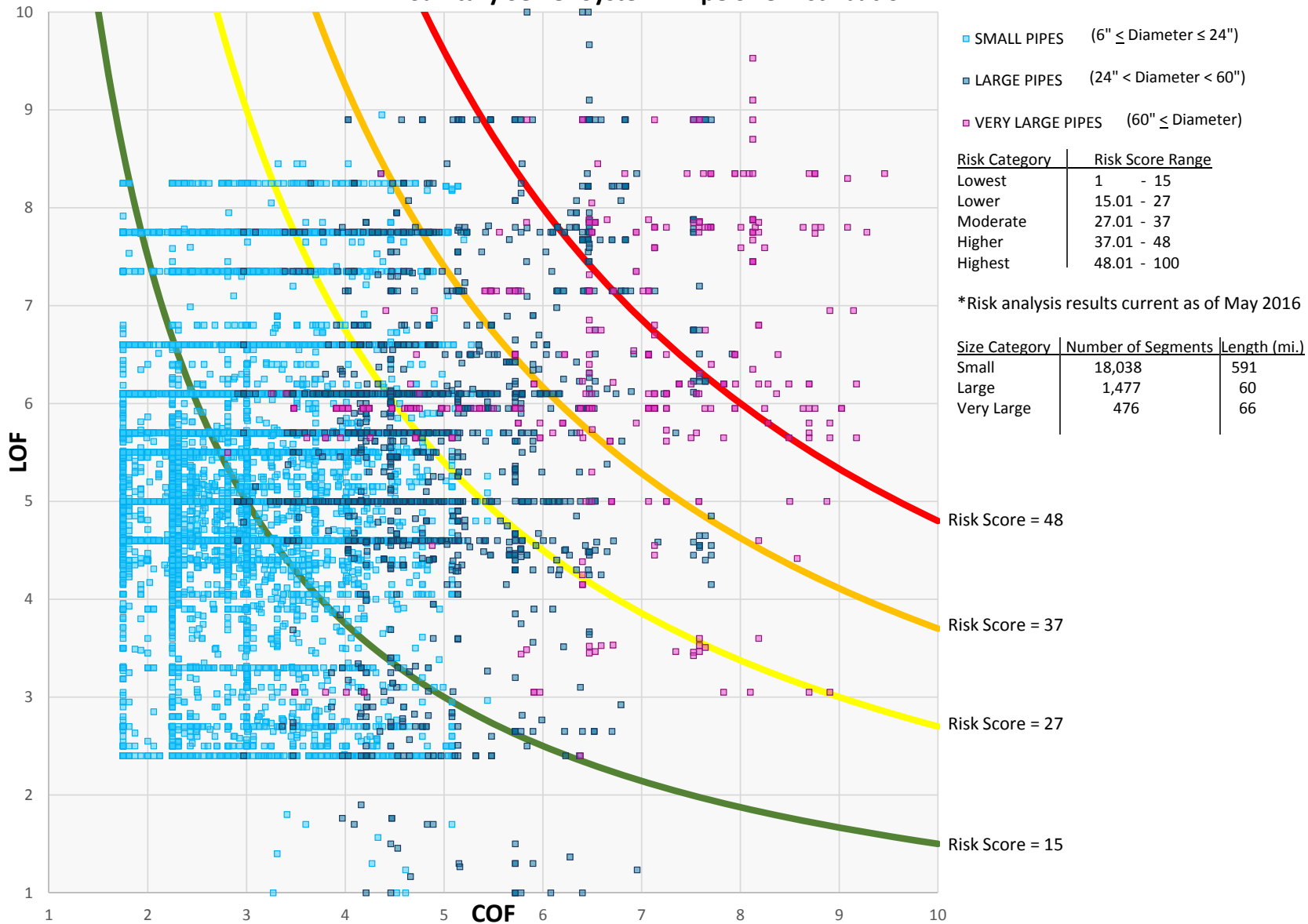
Sewer System – LOF Framework

- Physical Condition - 55% of Score
- Performance - 35% of Score
- Maintenance History - 10% of Score

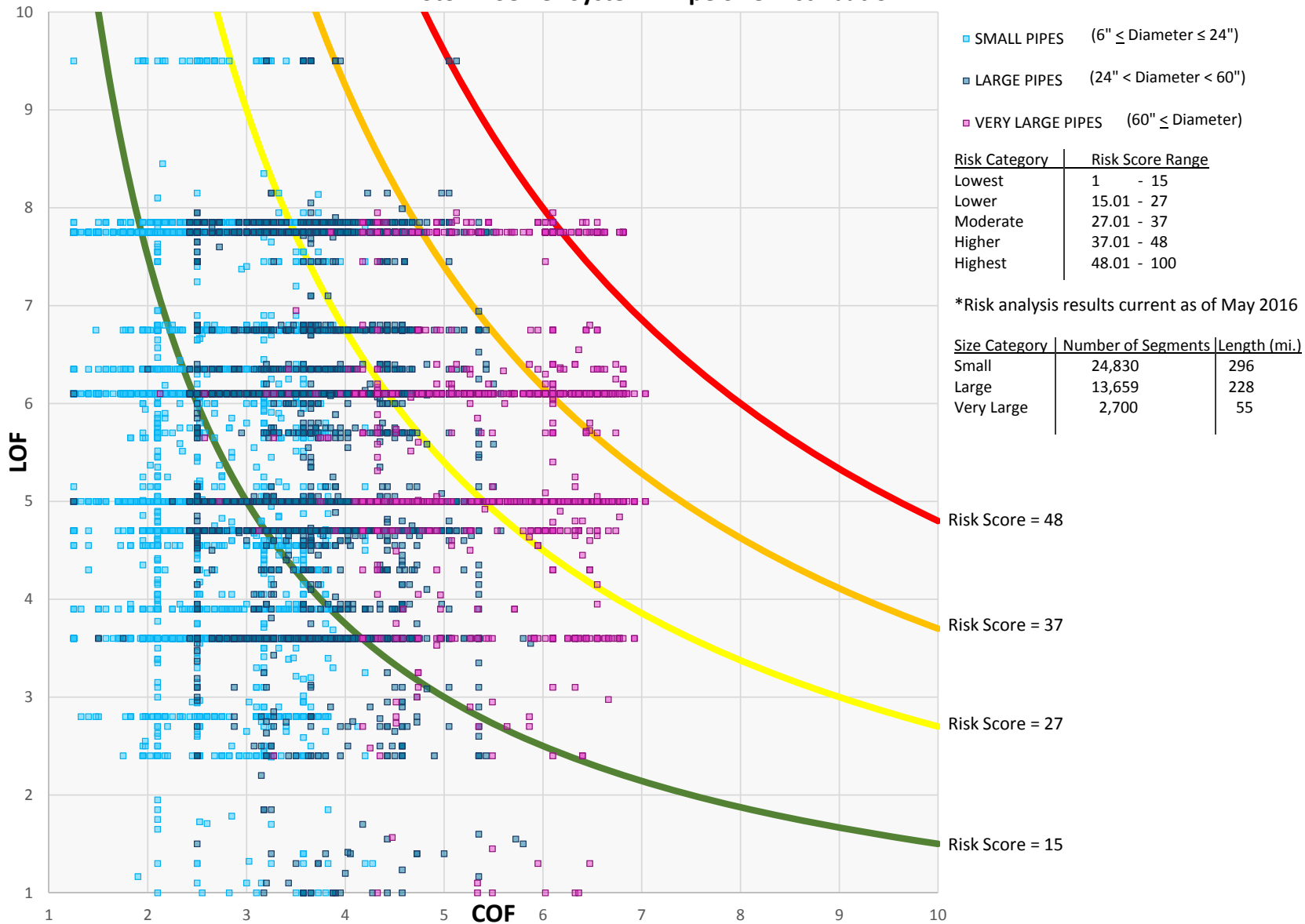
Consequence of Failure (COF) and Likelihood of Failure (LOF) Scores* Combined Sewer System - Pipe Size Distribution



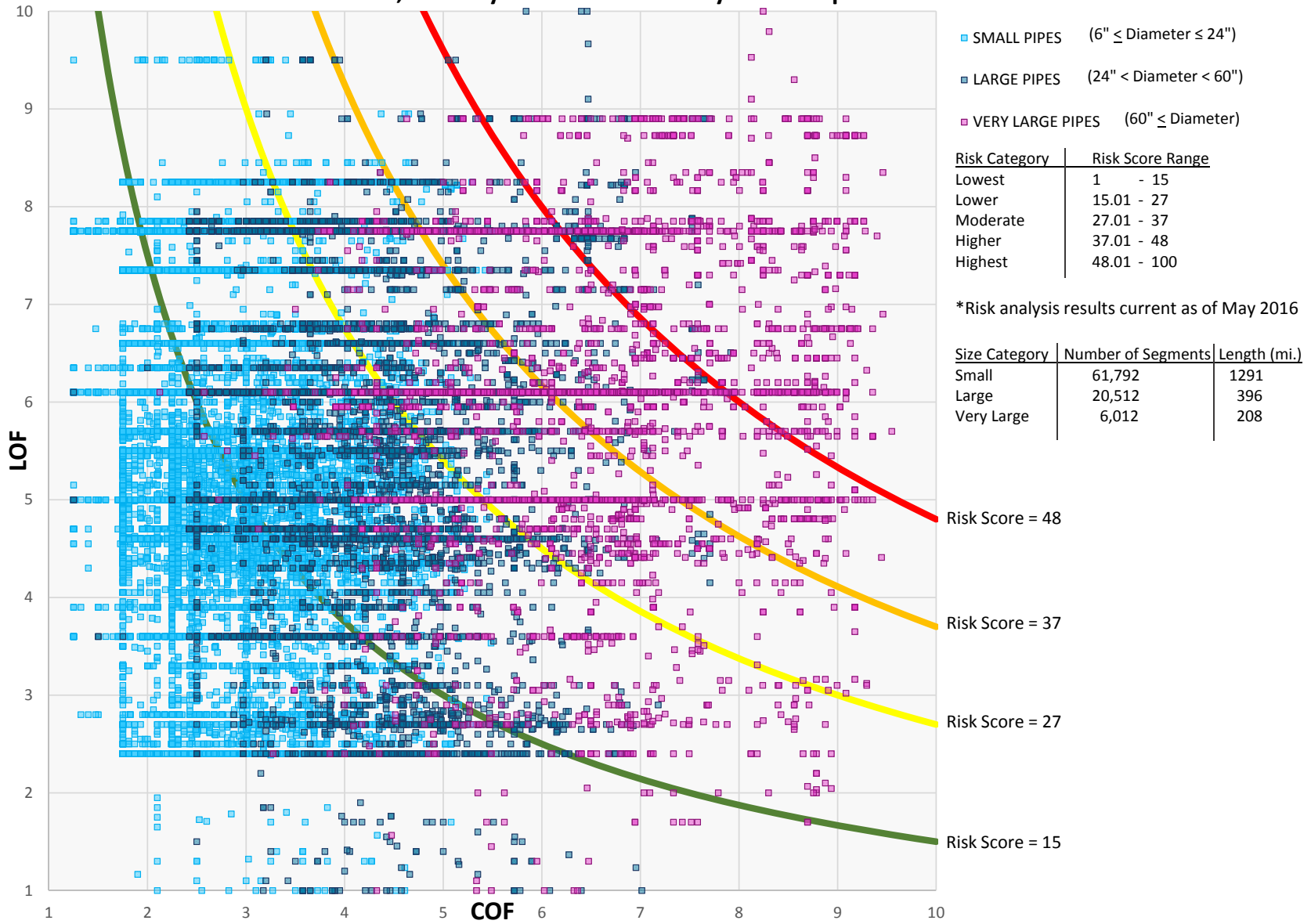
Consequence of Failure (COF) and Likelihood of Failure (LOF) Scores* Sanitary Sewer System - Pipe Size Distribution



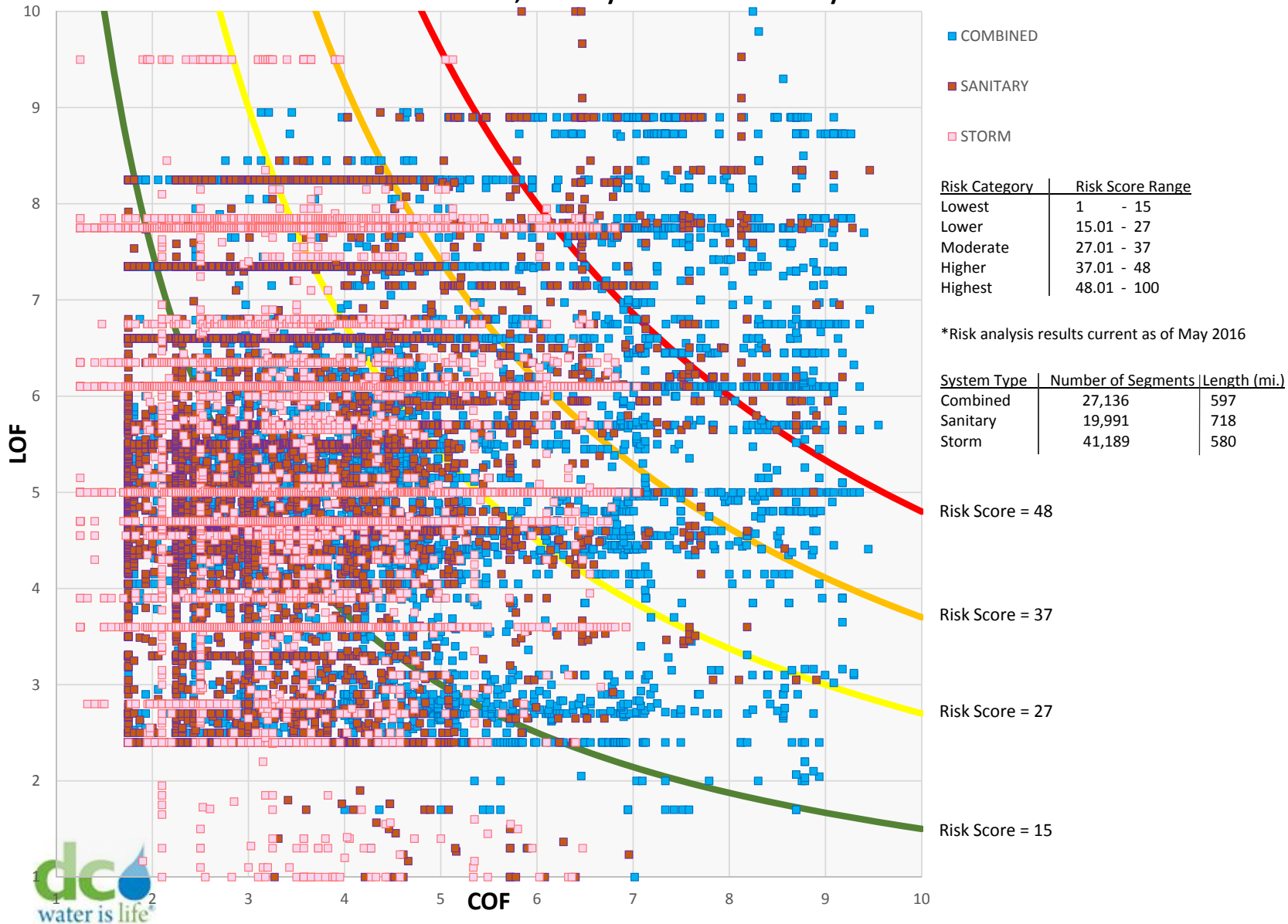
Consequence of Failure (COF) and Likelihood of Failure (LOF) Scores* Storm Sewer System - Pipe Size Distribution



Consequence of Failure (COF) and Likelihood of Failure (LOF) Scores* Combined, Sanitary and Storm Sewer Systems - Pipe Size Distribution

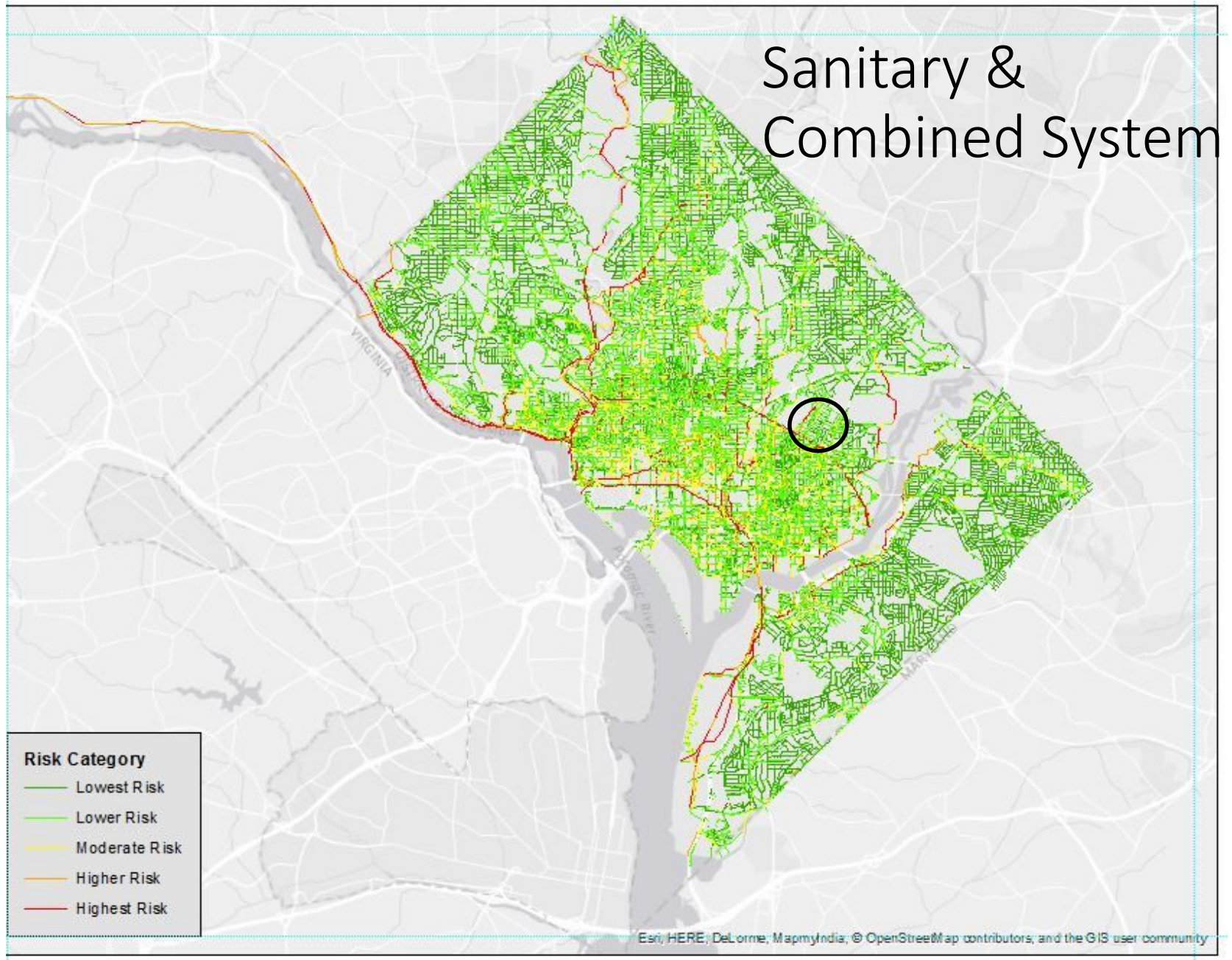


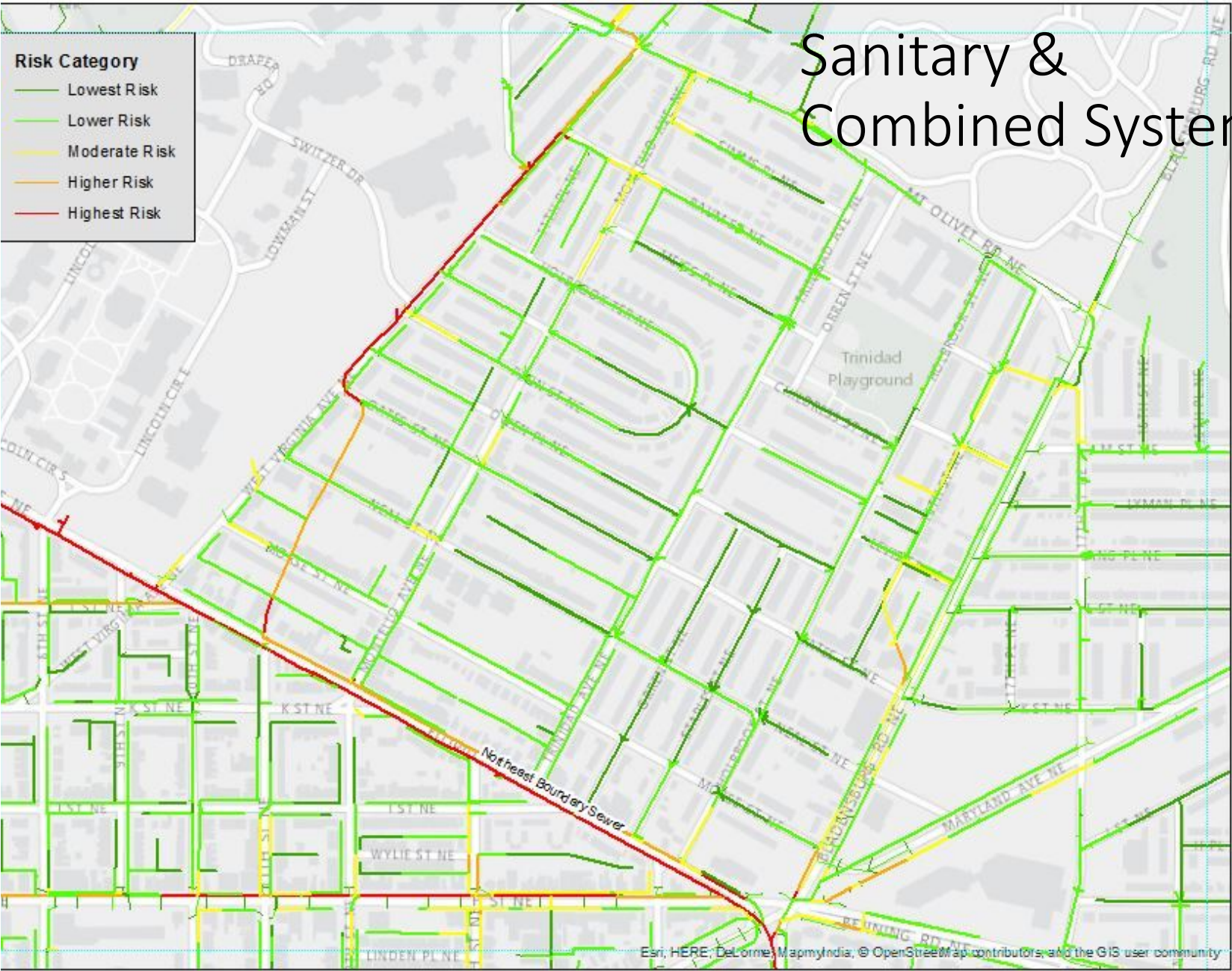
Consequence of Failure (COF) and Likelihood of Failure (LOF) Scores* Combined, Sanitary and Storm Sewer Systems



Sewer System Risk Assessment - Observations

- COF / Risk heavily influenced by sewer diameter
- Combined system is generally higher risk due to larger size and older age/poorer condition
- Storm sewers generally lower risk due to less regulatory/environmental impact





Water System Risk Results



Water System – COF Framework

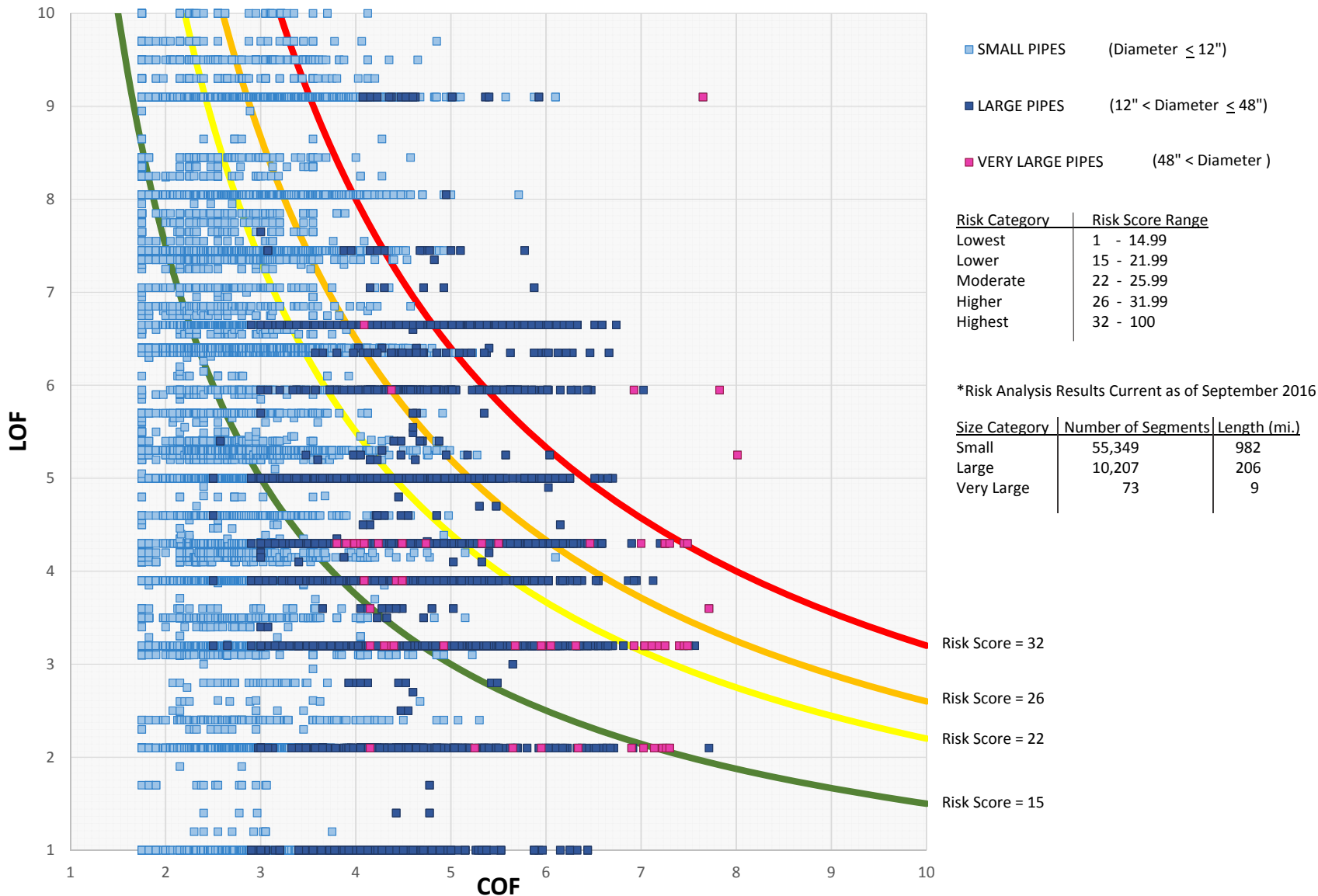
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 - O&M
 - Capital



Water System – LOF Framework

- Physical Condition - 55% of Score
- Performance - 35% of Score
- Maintenance History - 10% of Score

Consequence of Failure (COF) and Likelihood of Failure (LOF) Scores* Water System - Pipe Size Distribution



Road Ahead and Future State



Road Ahead / Next Steps

- Finalize Asset Management Plans for Water & Sewer
 - System Replacement Value
 - Risk Tool
 - KANEW Runs
 - Comparison of Risk Results with current CIP
 - Improvement Recommendations
 - Future CIP's based on risk results
- Asset Management Plan for Blue Plains
 - Plant Replacement Value
 - High Level / Top Down Risk Assessment
 - High Level Investment needs based on replacement value
 - High level comparison of risk assessment with current CIP
 - Future CIP's based on risk results
- Enterprise Asset Management Plan
 - Executive Summary / Roll-up



Future State

- Onsite Asset Management Program consultant will be phased out after current effort
 - Some task level, on-call support will still likely be required
- DC Water staff will continue to employ and progress asset management practices
- Existing Water, Sewer and Blue Plains Program Management efforts will continue to incorporate the asset management principles currently being developed
- Necessary outside resources and support will be provided via individual Water, Sewer and Blue Plains programs
- Necessary technology will be funded through the Capital Equipment program and provided under the IT Governance structure





ASSET MANAGEMENT PROGRAM



Thank you

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

ACTION REQUESTED

GOODS AND SERVICES CONTRACT OPTION YEAR

FLEET MANAGEMENT SERVICES

(Joint Use)

Approval to exercise option year four (4) for fleet vehicle maintenance services contract in the amount of \$1,816,900.00.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME: Centerra Integrated Services, LLC. 4800 Overton Plaza Suite 380 Ft. Worth, TX 76109	SUBS: Apex Petroleum 3190 Fairview Drive Falls Church, VA 22042 MBI, LLC 725 Gleneagles Drive Ft. Washington, MD 20744 R.REA Core 331 H Street, NE Washington, DC 20002 Washington Supply Network 1235 Kenilworth Avenue, NE Washington, DC 20019	PARTICIPATION: 1.5% 5.7% 4% 4%
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DESCRIPTION AND PURPOSE

Original Contract Value:	\$1,368,819.54
Original Contract Dates:	11-01-2012 — 10-31-2013
No. of Option Years in Contract:	4
Option Year 1 Value:	\$1,625,000.00
Option Year 1 Dates:	11-01-2013 — 10-31-2014
Option Year 2 Value:	\$1,948,285.75
Option Year 2 Dates:	11-16-2014 — 11-15-2015
Option Year 3 Value:	\$1,816,900.00
Option Year 3 Dates:	11-16-2015 — 11-15-2016
Modification Value:	\$0.00
Modification Dates:	11-01-2014 — 11-15-2014
Option Year 4 Value:	\$1,816,900.00
Option Year 4 Dates:	11-16-2016 — 11-15-2017

Purpose of the Contract:

This contract is to manage the preventive/predictive maintenance, repair, towing, emergency services and other fleet operations as required by the Department of Fleet Management.

Contract Scope:

The contract provides all the necessary supervision, labor, shop supplies and sub-contract work that are needed to satisfy a wide range of services required by DC Water. The contractor also manages the fleet in an optimal state-of-repair and maintains services that are consistent with the Original Equipment Manufacturer (OEM).

Spending Previous Year:

Cumulative Contract Value:	11-01-2012 to 11-15-2016: \$6,759,005.29
Cumulative Contract Spending:	11-01-2012 to 09-06-2016: \$5,441,134.47

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.

PROCUREMENT INFORMATION

Contract Type:	Fixed Price	Award Based On:	Highest Ranked Offeror
Commodity:	Services	Contract Number:	WAS-12-033-AA-RE
Contractor Market:	Open Market with Preference Points for LBE and LSBE Participation		

BUDGET INFORMATION


Funding:	Operating	Department:	Fleet Management
Project Area:	125 O Street, NE WDC	Department Head:	Timothy Fitzgerald

ESTIMATED USER SHARE INFORMATION

User - Operating	Share %	Dollar Amount
District of Columbia	82.36%	\$1,496,398.84
Washington Suburban Sanitary Commission	12.98%	\$235,833.62
Fairfax County	3.21%	\$58,322.49
Loudoun Water	1.25%	\$22,711.25
Other (PI)	0.20%	\$3,633.80
TOTAL ESTIMATED DOLLAR AMOUNT	100.00%	\$1,816,900.00


 Mark Kim
 Chief Financial Officer

10/13/16
 Date


 Dan Bae
 Director of Procurement

10/11/16
 Date


 Rosalind R. Inge
 Assistant General Manager
 Support Services

10/11/16
 Date

 George S. Hawkins
 General Manager

 Date

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

ACTION REQUESTED

GOODS AND SERVICES CONTRACT OPTION YEAR

PARTS SUPPLY FOR FLEET MANAGEMENT

(Joint Use)

Approval to exercise option year four (4) for parts supply for Fleet Management contract in the amount of \$850,000.00.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME:	SUBS:	PARTICIPATION:
Centerra Integrated Services, LLC. 4800 Overton Plaza Suite 380 Ft. Worth, TX 76109	Apex Petroleum 3190 Fairview Drive Falls Church, VA 22042	4%
	MBI, LLC 725 Gleneagles Drive Ft. Washington, MD 20744	6%
	R.REA Core 331 H Street, NE Washington, DC 20002	7%
	Washington Supply Network 1235 Kenilworth Avenue, NE Washington, DC 20019	9%

DESCRIPTION AND PURPOSE

Original Contract Value:	\$660,000.00
Original Contract Dates:	11-01-2012 — 10-31-2013
No. of Option Years in Contract:	4
Option Year 1 Value:	\$775,000.00
Option Year 1 Dates:	11-01-2013 — 10-31-2014
Option Year 2 Value:	\$752,500.00
Option Year 2 Dates:	11-16-2014 — 11-15-2015
Option Year 3 Value:	\$850,000.00
Option Year 3 Dates:	11-16-2015 — 11-15-2016
Modification Value:	\$1,322,154.00
Modification Dates:	06-01-2014 — 11-15-2015
Option Year 4 Value:	\$850,000.00
Option Year 4 Dates:	11-16-2016 — 11-15-2017

Purpose of the Contract:

This contract is to manage the automotive parts supply functions as required by the Department of Fleet Management.

Contract Scope:

The automotive parts provided by Centerra, prevent excessive downtimes, and prevent the utilization of unsafe vehicles and equipment by vehicle users. The contractor is responsible for satisfying the basic requirement of ensuring that stock and non-stock parts and supplies meet and/or exceed the Original Equipment Manufacturer (OEM) specifications.

Spending Previous Year:

Cumulative Contract Value:	11-01-2012 to 11-15-2016: \$4,359,654.00
Cumulative Contract Spending:	11-01-2012 to 09-06-2016: \$3,261,791.56

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.

PROCUREMENT INFORMATION

Contract Type:	Fixed Price	Award Based On:	Highest Ranked Offeror
Commodity:	Goods and Services	Contract Number:	WAS-12-035-AA-RE
Contractor Market:	Open Market with Preference Points for LBE and LSBE Participation		

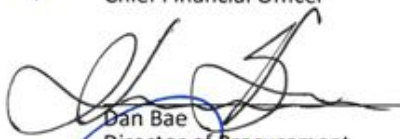
BUDGET INFORMATION

Funding:	Operating	Department:	Fleet Management
Project Area:	125 O Street, NE WDC	Department Head:	Timothy Fitzgerald

ESTIMATED USER SHARE INFORMATION

User - Operating	Share %	Dollar Amount
District of Columbia	82.36%	\$700,060.00
Washington Suburban Sanitary Commission	12.98%	\$110,330.00
Fairfax County	3.21%	\$27,285.00
Loudoun Water	1.25%	\$10,625.00
Other (PI)	0.20%	\$1,700.00
TOTAL ESTIMATED DOLLAR AMOUNT	100.00%	\$850,000.00

For:  _____, 10/12/16
 Mark Kim
 Chief Financial Officer
 Date

 _____, 10/11/16
 Dan Bae
 Director of Procurement
 Date

 _____, 10/11/16
 Rosalind R. Inge
 Assistant General Manager
 Support Services
 Date

_____, _____
 George S. Hawkins
 General Manager
 Date

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

ACTION REQUESTED

ENGINEERING SERVICES:

**Project Delivery Services for Sewer Service Areas
(Joint Use)**

Approval to execute an architectural and engineering services contract not to exceed \$20,000,000 for Phase I (FY17-FY22) of the contract. Pending establishment of the need for continuing services, Phases 2 and 3 of this contract, consisting of one year each, will be awarded at DC Water's sole discretion pending acceptable performance and evaluation of program implementation for prior phase/s. Board of Directors approval of the contract modification(s) for the subsequent phase/s will be sought at that time.

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME:	SUBS:	PARTICIPATION*:
Greeley and Hansen/ O'Brien & Gere Joint Venture 5301 Shawnee Road, Suite 400 Alexandria, VA 22312	CCJM Washington, DC	MBE 15.0%
	Delon Hampton & Associates Silver Spring, MD	MBE 3.0%
	EBA Engineering Inc. Washington, DC	MBE 3.0%
	TLB Glen Burnie, MD	MBE 2.0%
	Lourenco Consultants, Inc. Washington, DC	MBE 2.0%
	Coastal Resources, Inc. Annapolis, MD	WBE 1.0%
	DP Consultants, Inc Washington, DC	WBE 1.0%
	Phoenix Engineering Inc. Hunt Valley, MD	WBE 1.0%
	EHT Traceries, Inc. Washington, DC	WBE 4.0%
	Stantec Consulting Services, Inc Laurel, MD	1.0%
	Lachel & Associates Rockville, MD	0.25%
	Johnson, Mirmiran, & Thompson Sparks, MD	0.75%

DESCRIPTION AND PURPOSE

Contract Value, Phase 1, Not-to-Exceed: \$20,000,000.00
Contract Time, Phase 1: 1,825 Days (5 Years, 0 Months)
Anticipated Contract Start Date, Phase 1: 11-20-2016
Anticipated Contract Completion Date, Phase 1: 11-19-2021

Other firms submitting proposals/qualification statements:

AECOM Technical Services Inc. / Rummer, Klepper & Kahl, LLP JV*
Brown and Caldwell / Whitman, Requardt & Associates, LLC JV*
Hazen & Sawyer LLC*

*Asterisk indicates short listed firms.

Purpose of the Contract:

To retain the services of qualified consultants that will provide project delivery services for the implementation of a significant Capital Improvement Program (CIP) in the sanitary sewer, combined and stormwater service areas.

Contract Scope:

- Assist DC Water with the implementation and completion of various capital improvement projects. Such services include engineering design, engineering services during construction, environmental studies, program management, and other specialized services at the discretion of DC Water
- Provide operations support to the Customer Care and Operations Division.

PROCUREMENT INFORMATION

Contract Type:	Lump Sum & Cost Plus Fixed Fee	Award Based On:	Highest Ranking Score
Commodity:	Engineering Design Services	Contract Number:	DCFA #481
Contractor Market:	Open Market		

BUDGET INFORMATION

Funding:	Capital	Department:	Engineering and Technical Services
Service Area:	Sanitary, Combined, Storm	Department Head:	Liliana Maldonado
Project:	AU,AT,AV,DM,FQ,FZ,HS,IK,IL,IM,IN,J0,J1,JS,JU,JX,LZ,PJ,PM,N7		

ESTIMATED USER SHARE INFORMATION

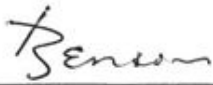
User	**Share %	Dollar Amount
District of Columbia	100.00%	\$ 20,000,000
Federal Funds	***0.00%	\$ 0.00
Washington Suburban Sanitary Commission	0.00%	\$ 0.00
Fairfax County	0.00%	\$ 0.00
Loudoun County & Potomac Interceptor	0.00%	\$ 0.00
Total Estimated Dollar Amount	100.00%	\$ 20,000,000

** Work under this contract will be assigned as needed under specific task orders. Current plan is to assign work as shown above. However, it is anticipated that Joint Use work may be assigned over the five year contract period. It is anticipated that, 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 at 50% of the District of Columbia share. 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.

For:  _____ 1/6/13/16
 Mark Kim Date
 Chief Financial Officer

 _____ 1/6/13/16
 Dan Bae Date
 Director of Procurement

 _____ 1/10-13-16
 Leonard R. Benson Date
 Chief Engineer

_____ / _____
 George S. Hawkins Date
 General Manager

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

ACTION REQUESTED

CONSTRUCTION CONTRACT:

**Watts Branch Sewer Rehabilitation Phase III and Spring Valley Sewer
Rehabilitation
(Joint Use)**

Approval to execute a construction contract for \$2,998,624.00

CONTRACTOR/SUB/VENDOR INFORMATION

PRIME:	SUBS:	PARTICIPATION:
SAK Construction, LLC 1405 Benson Court, Ste.C Arbutus, MD 21227	Luther Supply Company St Louis, MO MBE	9.3%
	DACO Construction Hanover, MD MBE	7.2%
	Advantage Manhole & Concrete Services, INC. Huston, TX WBE	3.3%
	TFE Resource Ltd. Pennsauken, NJ WBE	2.9%

DESCRIPTION AND PURPOSE

Contract Value, Not-To-Exceed:	\$ 2,998,624.00
Contract Time:	365 Days (1 Year, 0 Months)
Anticipated Contract Start Date (NTP):	12-08-2016
Anticipated Contract Completion Date:	12-07-2017
Bid Opening Date:	08-24-2016
Bids Received:	3
Other Bids Received	
IPR Northeast, LLC*	\$ 2,379,628.75
Pleasants Construction, LLC	\$ 3,681,800.00

* Lowest bidder was deemed non responsive as they did not submit the required documentation demonstrating their compliance with the EPA MBE/WBE affirmative action steps

Purpose of the Contract:

To rehabilitate defective sanitary sewer pipes and manholes along the Watts Branch Creek.

Contract Scope:

- Rehabilitate approximately 9,100 LF of 8-inch to 27-inch diameter sewer pipes using Cured-in-Place (CIPP).
- Perform heavy cleaning of approximately 2,800 LF of 10-inch to 24-inch diameter sewer pipes
- Complete chemical root treatment on approximately 1,700 LF 10-inch to 24-inch diameter sewer pipes.
- Abandon in place approximately 500 LF of sewer and 3 manholes using flowable fill.
- Complete rehabilitation of approximately 50 manholes using Fiber Reinforced Cementitious Coating.
- Maintain Traffic Control and perform surface restoration

- Perform bypass pumping and obtain all required permits

PROCUREMENT INFORMATION

Contract Type:	Fixed Price	Award Based On:	Lowest responsive, responsible bidder
Commodity:	Construction	Contract Number:	150200
Contractor Market:	Open Market		

BUDGET INFORMATION

Funding:	Capital	Department:	Engineering and Technical Services
Service Area:	Sanitary	Department Head:	Liliana Maldonado
Project:	A4, IL		

ESTIMATED USER SHARE INFORMATION

A4- Watts Branch Sewer Rehabilitation

User	Share %	Dollar Amount
DC Water	23.44%	\$ 682,545.16
DC Deputy Mayor Office (DMPED)	8.43%	\$ 245,322.88
Washington Suburban Sanitary Commission	68.13%	\$ 1,983,547.21
Fairfax County	0.00%	\$ 0.00
Loudoun County & Potomac Interceptor	0.00%	\$ 0.00
Total Estimated Dollar Amount	100.00%	\$ 2,911,415.25


IL- Spring Valley Sewer Rehabilitation

User	Share %	Dollar Amount
DC Water	100.00%	\$ 87,208.75
DC Deputy Mayor Office (DMPED)	0.00%	\$ 0.00
Washington Suburban Sanitary Commission	0.00%	\$ 0.00
Fairfax County	0.00%	\$ 0.00
Loudoun County & Potomac Interceptor	0.00%	\$ 0.00
Total Estimated Dollar Amount	100.00%	\$ 87,208.75

Combined Allocation

User	Share %	Dollar Amount
DC Water	25.67%	\$ 769,753.91
DC Deputy Mayor Office (DMPED)	8.18%	\$ 245,322.88
Washington Suburban Sanitary Commission	66.15%	\$ 1,983,547.21
Fairfax County	0.00%	\$ 0.00
Loudoun County & Potomac Interceptor	0.00%	\$ 0.00
Total Estimated Dollar Amount	100.00%	\$ 2,998,624.00

For:  1/10/13/16
 Mark Kim Date
 Chief Financial Officer

 Date
 George S. Hawkins
 General Manager

 1/12/13/16
 Dan Bae Date
 Director of Procurement

 10-13-16
 Leonard R. Benson Date
 Chief Engineer