City Manager's Weekly Report

Friday, October 28, 2016

Department:

Administration - City Manager

Notable Notes:

Mayor and Council,

The bulk of this week was dedicated to finalizing the 2017 Operating Budget which will be ready for turnover to the Mayor and Council and electronically available on our website on Monday, October 31st.

I call your attention to the PW&WR report which includes stormwater survey information as conducted and shared by Black and Veatch.

Please see a photo of the Fall Display that our Parks and Recreation Department placed at City Hall.

Bruce Herron, Tom Coleman and I have been engaged again with DelDOT Secretary Cohan in relationship to prevailing wage issues involving funding from Municipal Street Aid and Community Transportation funding that we and other municipalities receive. Our state representatives have also been involved on our behalf and the general expectation is that additional changes will be made in January by the legislature to align with the intent of their legislation. I have been advised that 12 communities are impacted by interpretation changes by the AG's Office over the course of this year on this topic that relate to street improvement contracts. More information will be shared as it becomes available.

I was out of the office some of the day on Thursday to participate in the Christina School District's Principal for the Day Program at West Park. It was great to be back in my children's elementary school for the first time in 10 years. Principal Hernandez has developed a fine team of educators. Please find a photo from the first grade class I was happy to engage with!

Thursday evening I attended the League of Local Governments monthly dinner with Councilpersons Haddend and Ruckle.

Activity or Project:

Cyber Security Council Update

Description:

As you may recall, Josh Brechbuehl is serving on the council representing the League of Local Governments. He attended the October session and has shared the following with the League. A few notes: • This is National Cyber-Security Month! • Discussion around Denial of Services (DOS) attack last week that affected East Coast internet. • Discussion around push for IT centralization at State of DE IT level. Many agencies following own standards. • Concerns about voting systems as election draws near. CIO Collins believes DE is in great shape to thwart any attacks as the voting systems are not "on the grid". Today there was a heavy focus on reports from the Subcommittees covering a wide array of topics. Here are the bullet points that I thought were pertinent. • Cyber Security Awareness and Training o Target Audience: DE Residents and Small Businesses o Will be delivered in small, bite-sized chunks of information for easy digestion. TV, radio, website DTI may provide the website o University of Delaware's Small Business Development Center will likely

Banking Web Browsing Social Media Security Virus Prevention **Email Security** Social Engineering o CIO Collins recommended an OpEd piece to be distributed prior to the holiday shopping season to make shoppers aware of banking and identity theft protection • Cyber Security Exercises o Scope for exercises was set and includes local and state agencies o No schedule set • Best Practices (I am a member of this committee) o Will provide best practices list to small businesses. Easy to consume, easy to understand, and actionable o Will also work with University of Delaware's Small Business Development Center o Will pull info from NIST as well as other resources for best practices for small businesses o Is it worth it to buy Cyber-Security Insurance? Topic for a later agenda. Credit Monitoring costs should be included in a decision o Reputational impact from data breach causes 60% of those impacted to close business. members of this Council, including private sector, are concerned about this. The next meeting is set for January, however, a Best Practices Subcommittee meeting is set for November. Status: In-Progress Expected Completion: 12/31/2016 **Execution Status:** On Track **Activity or Project:** Cleveland Avenue Refuse Collection Schedule Update Description: Today Cleveland Avenue collections were started at 7:05 a.m. and completed by 7:11 a.m. with three trucks. I have checked with Andrea and Lisa and checked on CivicPlus and we have not received any complaints on the collection method for approximately one month since we have modified our approach. It appears this timing and approach is the best solution to the concerns for holding up traffic. Status: Completed Expected Completion: 10/25/2016 **Execution Status:** Completed **Activity or Project:** Description: Status: **Expected Completion: Execution Status:**

be involved o Topics Brainstormed in previous meetings (centered around security)

Identity Protection

Cell Phones/Tablets

Passwords

Online

Laptop and Desktop Computer Security

Department: Administration - Deputy City Manager **Notable Notes:** the sessions and a few retirees have showed up in addition to active employees.

- This week HR Manager Devan Stewart facilitated three (3) informational sessions on benefits for FY2017 Open Enrollment. A representative from DVHT was present for one of
- On Wednesday, October 26, 2017 I has the pleasure to participate in the DE State Chamber "Principal For A Day" program. I was placed at McVey Elementary school and worked with Mr. David Wilkie. It was an insightful opportunity, as a father of elementary children, and professionally interesting as an administrator. The similar yet demonstratively different challenges facing a school like McVey spurred quality dialogue between Mr. Wilkie and me, and I am interested to review with Mayor Sierer and City Manager Houck their respective experiences that occurred later in the week. I added two (2) photos of my experience with Mr. Wilkie and a few new friends from lunch duty.

	was completed throughout the team on the FY2017 Draft Bu	he week among the department leadership dget preparations.
Activity or Project:		
Recruitment: Police Of	ficers	
Description:		
and the required recru contractual basis to as have three (3) recruit of	itment. Retired Lieutenant Susit with background investig candidates cleared and ready the NCC Academy. If we do r	n the three (3) vacancies in the department ue Poley has been working on an adhoc ations to maximize our current officers. If we by November, the City has an opportunity to not clear the recruits, or meet the deadline, the
Status:	Near Completion	
Expected Completion:	12/12/2016	
Execution Status:	On Track	
Activity or Project:		
Description:		
Status:		
Expected Completion:		
Execution Status:		
Activity or Project:		

Description:		
Status:		
Expected Completion:		
Execution Status:		
Department:		

City Secretary and City Solicitor's Office

Notable Notes:

Bruce was in the office October 24 for Council and October 26. Paul was not in the office this week as there was no Court session on October 27.

Bruce and Tara staffed the Board of Adjustment meeting on October 20 where the Board approved a variance for 250 Dallam Road to construct a garage in the front yard.

Renee met with Councilman Morehead on October 21.

Bruce, Renee and Alice staffed the Council meeting on October 24. Follow up was completed by staff on October 25.

Renee staffed the Boards and Commissions Review Committee meeting on October 25. The Committee approved the minutes from their August and September meetings, approved a recommendation to Council to sunset the Board of Business License Review in July 2017, approved a recommendation to Council to sunset the Personnel Review Committee with conditions and rejected a request by John Morgan for support of his request to Council regarding waiving privilege on a 1996 City Solicitor opinion. The November and December meetings for the Committee have been cancelled, so the next scheduled meeting is January 24.

Renee spent time researching items for various departments and Council members.

FOIA requests took some time this week. The following actions were taken:

- Provided an administrative cost estimate based on discussions with the requestor for a September 29 FOIA request from Tybout, Redfearn & Pell regarding permits for the Newark Shopping Center
- Closed by request of the requestor an October 6 FOIA request from Environmental Alliance regarding properties on Creek View Road
- Received relevant documents, completed and closed the request for additional information regarding an October 7 FOIA request from the Northeast Regional Council of Carpenters regarding commercial building permits issued in August and September.
- Denied an October 13 FOIA request from Frank Stanzione regarding 322 Delaware Avenue.
- Denied an October 20 FOIA request from BuildZoom regarding recurring reports every six weeks for building permit information.
- Received and closed an October 21 FOIA request from React Environmental Professional Services Group regarding a property in Newark, NJ.

- Received, circulated to staff, received relevant documents, completed and closed an October 21 FOIA request from Norma Ringel regarding police calls she has made since November 2010.
- Circulated to staff and provided an administrative cost estimate for an October 25 FOIA
 request from the News Journal regarding emergency communications for September 27,
 2014 regarding a specific address.

The October 27 Community Development/Revenue Sharing Advisory Committee cancellation, November 1 Downtown Newark Partnership Design Committee, and November 1 Planning Commission agendas were forwarded to Council.

Regarding minutes, staff time was spent on the October 11 Conservation Advisory Commission (Tara drafted - complete), October 12 Council special meeting (Alice drafted) and October 20 Board of Adjustment (Tara drafted - complete) minutes. The October 24 Council executive session, October 24 Council and October 25 Boards and Commissions Review Committee minutes are currently in the queue.

The office received and Teressa fulfilled 3 discovery requests for upcoming Alderman's Court cases. The court calendars for November 4 and 10 was received and the 36 associated case files were compiled for the Deputy City Solicitor by Teressa. Alice and Renee also processed two pleas by mail.

The office received 4 new lien certificate requests this week, which were sent to Finance for processing. 7 lien certificate requests were completed and sent to the requestor this week. So far 433 lien certificate requests have been processed for 2016.

Activity or Project:

Electronic Document Management - Legislative

Description:

Renee met with staff from Records Management regarding document templates and security settings for the data conversion from Laserfiche to TCM on October 26. Renee also spent time reviewing data for files in Laserfiche to determine indexing categories for the TCM conversion.

Status:	In-Progress
Expected Completion:	12/30/2016
Execution Status:	On Track

Activity or Project:

Agenda Management Software

Description:

Renee spent time this week speaking to references regarding the final three software vendors for the agenda management software. While the references (mostly other Delaware municipalities) were positive, unfortunately they are not using the software in the same way that we would like to in Newark. Therefore, additional references have been requested who are using the software capabilities for workflow and packet item building which Newark would like to do.

Status:	In-Progress		
Expected Completion:	1/31/2017		

Execution Status:	Behind Schedule	
Activity or Project:		
Description:		
Status:		
Expected Completion:		
Execution Status:		
Execution Status.		
Department:		
Electric Department		
Notable Notes:		
this year. Next week the	e repair company is sending a truck t will meet with the crane company t	t Main Substation transformer that failed early to remove the 35,000 lbs. transformer. to figure out which circuits have to be off and
	hed 2/3rds of the Nottingham Greer he rain with the last scheduled outag	n voltage upgrade and are finishing the project ges to be done by noon.
		City's warehouse complex for a voltage aerial lines coming from the new unit at West
	n a new circuit for a police UPS, chec orked on SCADA communication issu	ked the generators, worked on the sewer ues with engineering.
Campus in the future. En Transportation Center, m	ngineering also met with all the parti net with Delmarva Gas about putting	t on the ways to supply power to the STAR cipants involved in the Regional g repeaters in areas where their automatic installing poles in public right-of-way in order
Activity or Project:		
Conductor Upgrades		
Description:		
A conductor upgrade v Nottingham Green.	vas completed on Nottingham Ro	oad and voltage upgrades are under way in
Status:	In-Progress	
Expected Completion:	10/31/2016	

Execution Status:	On Track	
Activity or Project:		
Description:		
Status:		
Expected Completion:		
Execution Status:		
Activity or Project:		
Description:		
Status:		
Expected Completion:		
Execution Status:		
Department:		
Finance - Accounting I	Department	
Notable Notes:		
Accounting staff continues by the end of 10/28/16.		and will have the budget posted to Budget Central
	r test environment to ensure tha	star for its new server this week. User acceptance t there will be no significant migration issues once
include two months of o		ound of sewer bills to their customers will only ber), plus an adjustment from the switch from an e end of next week.
Activity or Project:		
Payments and Utility E	Billing (PUBS)	
Description:		
	-	he average call length of each call being 3:24. nswer) increased from 2:58 to 4:13 when

•	ed automatically with our elect box or preauthorized paymen	ronic processes and 2,232 of which were t (PAP) over the last week.
Status:	In-Progress	
Expected Completion:	12/31/2016	
Execution Status:	On Track	
Activity or Project:		
License Audit Review		
Description:		
businesses that are no	•	t MetroRev will be submitting to prospective but conducting business here. We are these businesses shortly.
Status:	In-Progress	
Expected Completion:	5/31/2017	
Execution Status:	On Track	
Activity or Project:		
Description:		
	ments for the 2017 budget car .us/DocumentCenter/View/66	n be found on Budget Central via this link: 48.
Status:		
Expected Completion:		
Execution Status:		
Department:		
Parks and Recreation [Department	
Notable Notes:		
Budget and attended the to update on upcoming p	CIP meeting with the Planning C	ential park improvements; reviewed the Capital commission; met with the parks maintenance staff the Parks Superintendent about the
include bed maintenance	e; conducted weekly information	g contract with Director and Parks Supervisor to meeting with recreation staff; picked up supplies lating marketing information and sending out

compared to last week. Service orders initiated by PUB in response to calls and visitors was 201 for the same period. The group processed 3,560 utility payments and CityView transactions, 672

new E-blasts for upcoming events.

<u>Recreation Supervisor of Athletics</u>: Continued updating after care staff files; started November work schedule for after care sites; held youth basketball skills sessions for all three age groups; conducted adult winter volleyball coaches meeting; attended fire safety training; and working on winter spring programs.

Coordinator of GWC and Volunteers: Upstairs restroom repair is underway and should be completed by Tuesday, October 25; batteries were replaced in the fire alarm system; prepared for and followed up on outreach for the Annual Fall Flea Market which was held on Saturday, October 22 with over 100 people attending; finalized volunteer recruitment, volunteer assignment and event preparation for the Mayor's Masquerade Run; secured staff for CATCH Kids Club beginning on Monday, October 31 at Downes Elementary School; continues to recruit and secure volunteers for the Halloween Party at the George Wilson Center and the Halloween Parade; worked on sponsorship outreach for the Thanksgiving Day Breakfast and created the November schedule for George Wilson Center attendants. Volunteer Hours: 26 Volunteers devoted a total of 78 Volunteer Hours at the Mayor's Masquerade Run. Total Volunteer Hours for the week of 10/17-10/23: 78 Hours.

Recreation Supervisor of Community Events: Working on items for upcoming events, including the Halloween Parade, NewBark PawLooza, Turkey Trot and Winterfest. Halloween Parade lineup positions have been sent to participants and new registrations continue to come in. Currently 55 groups are registered. Donations continue to be received.

<u>Parks Superintendent</u>: Inspected four park areas and developed work orders as needed; all full-time and seasonal staff attended Fire Safety training at City Yard; along with our landscape specialist started on report to Director on work activities at each horticulture area; met with resident in Delaplane Manor to discuss tree issue from water main break; and met on site with contractor installing shelter/pad/walk at Folk Park.

<u>Parks Supervisor</u>: Scheduled field staff daily and assisted as needed, and worked on fall display outside City Hall.

Parks and Horticulture Staff: Continued mowing operations; continued on bed maintenance activities throughout park system; dragged/scarified all ball fields; raked off/leveled all horseshoe pits; continued on play/swing unit installation at Rittenhouse Park; watered newly planted plant material along the Hall Trail at old Bamboo area; pruned trees/shrubs at intersection of Kirkwood Highway and Stafford Avenue; added soil and seeded strip along Kells Park where stumps were removed; loading/set up for Mayor's Run event; mulching at Olan Thomas Park; and trash removal throughout park system as needed.

Contractor started work at Folk Park installing ADA accessible walkway to new shelter with concrete pad.

Students from Teamworks continue working on rebuilding picnic tables for use throughout park system.

Activity or Project:

Newark's 69th Annual Halloween Parade

Description:

The 69th Annual Halloween Parade steps onto Main Street at 3:00 Sunday, October 30. Immediately following the Parade Trick-or-Treat Main Street will begin.

Status: In-Progress

Expected Completion: 10/30/2016

Execution Status:	On Track	
Activity or Project:		
Description:		
Status:		
Expected Completion:		
Execution Status:		
Activity or Project:		
Description:		
Status:		
Expected Completion:		
Execution Status:		
Department:		
Police Department		
Notable Notes:		
day. Over 1,000 pounds at the police departmen	ewark Police Department participated in the national prescription drug take bac s of unused or expired prescription drugs were dropped off by residents to office it. Residents can continue to drop off old prescription medicine throughout the tment on weekdays between 8:00 a.m. and 5:00 p.m.	ers

On October 25th, Chief Tiernan and Deputy Chief Farrall met with the CALEA representative who was conducting the onsite recertification review of the University of Delaware Police Department. The representative stated he was impressed by the high level of cooperation between the Newark Police Department and the university police, which he observed at a large scale event the previous evening. The joint party patrols, crime suppression efforts, training, and special events were all mentioned. The representative mentioned the very unique dynamic of having an open campus in the middle of a downtown area. We congratulate the University Police Department on their continued success in the CALEA certification process.

On October 25th, Corporal Pagnotti observed a man in distress in a wheelchair on South Main Street. The resident explained that his electric wheelchair ran out of power and he could not get home. Corporal Pagnotti called for assistance, and he and Corporal Bystricky were able to push the wheelchair and get the resident to his apartment a few blocks away.

Last week members of the Street Crime Unit were searching for a known fugitive. Officers observed the suspect exit a vehicle wearing a handgun on his hip. The fugitive was also wearing clothes and patches that identified him as a FBI agent, and he was found to be in possession of a small gold badge stamped with Federal Bureau of Investigation on it. It was determined that the fugitive was not affiliated with any law enforcement agency. The fugitive was charged with criminal impersonation of a police officer and possession of a deadly weapon by a prohibited person.

Activity or Project:		
N/A		
Description:		
N/A		
Status:	Completed	
Expected Completion:	10/27/2016	
Execution Status:	Completed	
Activity or Project:		
Description:		
Status:		
Expected Completion:		
Execution Status:		
Activity or Project:		
Description:		
Status:		
Expected Completion:		
Execution Status:		
Department: Public Works and Wate	er Resources Department	
Notable Notes:		

We held a progress meeting with our consultant who is preparing our sanitary sewer pump station emergency action plan documents and they are nearing completion. Once we have the finalized plans we will be making appropriate modifications to our out-year CIP for sanitary sewer to address items that are determined to be cost effective at reducing our risk. We will also be preparing standard operating procedures for the stations and emergency documentation for each station that will be kept on site for easy access during an emergency. Our consultant performed a condition assessment on our largest forcemain and determined it to be in better shape than anticipated which is great news.

We attended four separate project meetings with DelDOT this week for the Train Station and Elkton Road project proposed between Casho Mill Road and the Maryland Line. Coordination with DelDOT on projects is taking up more staff time due to their increased capital budget.

Activity or Project:		
Stormwater Utility		
Description:		
information on utilities we have for the structure which explains why it is stormwater fee and no	s around the country and provi ure of our proposed utility. Of s important to recover all cost	water utility survey which has a wealth of ides insight into why we have chosen what particular interest is section 4 on "Nexus" s associated with stormwater through a ormwater fee and taxes or other charges. I e.
Status:	In-Progress	
Expected Completion:	1/1/2018	
Execution Status:	On Track	
Activity or Project:		
2016 Water Main Repl	acement	
Description:		
All major work on this	project is now complete.	
Status:	Completed	
Expected Completion:	10/26/2016	
Execution Status:	Completed	
Activity or Project:		
2016 Street Contract		
Description:		
Work has continued or	n this contract and I have attac	hed an updated status sheet.
Status:	In-Progress	
Evnected Completion	9/1/2017	

10/22/2016	to	10/20/2016	
	10/23/2016	10/23/2016 to	10/23/2016 to 10/29/2016









NEWARK POLICE DEPARTMENT

WEEK 10/16/16-10/22/16	IN	VESTIGATIONS		CR	IMINAL CHARC	SES
	2015	2016	THIS	2015	2016	THIS
	TO	TO	WEEK	TO	TO	WEEK
	DATE	<u>DATE</u>	<u>2016</u>	<u>DATE</u>	DATE	<u>2016</u>
PART I OFFENSES						
a)Murder/Manslaughter	0	0	0	0	0	0
b)Attempt	0	0	0	0	0	0
Kidnap	5	7	1	1	4	0
Rape	4	4	1	1	3	0
Unlaw. Sexual Contact	8	6	0	2	2	0
Robbery	25	40	3	28	14	1
- Commercial Robberies	11	12	1	10	0	0
- Robberies with Known Suspects	2	2	0	1	0	0
- Attempted Robberies	2	5	0	7	2	0
- Other Robberies	10	21	2	10	12	1
Assault/Aggravated	5	22	0	25	24	0
Burglary	48	66	1	19	35	2
- Commercial Burglaries	6	15	1	3	4	0
- Residential Burglaries	39	43	0	15	24	2
- Other Burglaries	3	8	0	1	7	0
Theft	435	545	14	167	150	6
Theft/Auto	29	43	1	7	12	0
Arson	2	2	0	1	0	0
All Other	62	107	4	44	83	0
TOTAL PART I	623	842	25	295	327	9
PART II OFFENSES						
Other Assaults	246	270	12	139	99	8
Rec. Stolen Property	3	0	0	17	24	0
Criminal Mischief	166	164	5	102	51	0
Weapons	8	9	1	56	34	1
Other Sex Offenses	1	0	0	2	0	0
Alcohol	231	209	9	390	973	7
Drugs	85	108	2	194	169	9
Noise/Disorderly Premise	387	507	17	167	231	16
Disorderly Conduct	148	129	2	78	79	0
Trespass	132	164	3	60	55	0
All Other	377	380	10	250	264	8
TOTAL PART II	1784	1940	61	1455	1979	49
MISCELLANEOUS:						
Alarm	752	559	12	0	0	0
Animal Control	438	463	7	3	4	0
Recovered Property	213	245	11	0	0	0
Service	25677	26883	506	0	0	0
Suspicious Per/Veh	428	457	14	0	0	0
TOTAL MISC.	27508	28607	550	3	4	0
			_			

	THIS WEEK	2015 TO	THIS WEEK	2016 TO
	2015	<u>DATE</u>	2016	<u>DATE</u>
TOTAL CALLS	933	35,594	791	36,630



Newark Police Department Weekly Traffic Report 10/16/16-10/22/16



TRAFFIC SUMMONSES	2015 YTD	2016 YTD	THIS WEEK 2015	THIS WEEK 2016
Moving/Non-Moving	7,347	8,573	160	72
DUI	170	149	6	4
TOTAL	7,517	8,722	166	76

TRAFFIC ACCIDENTS				
Fatal	2	0	0	0
Personal Injury	177	189	7	3
Property Damage (Reportable)	471	618	10	6
Property Damage (Non-Reportable)	259	167	8	11
Hit and Run	222	228	3	3
TOTAL	1,131	1,202	28	23

2016 Stormwater Utility Survey

A Black & Veatch Report

Prepared by Black & Veatch Management Consulting, LLC





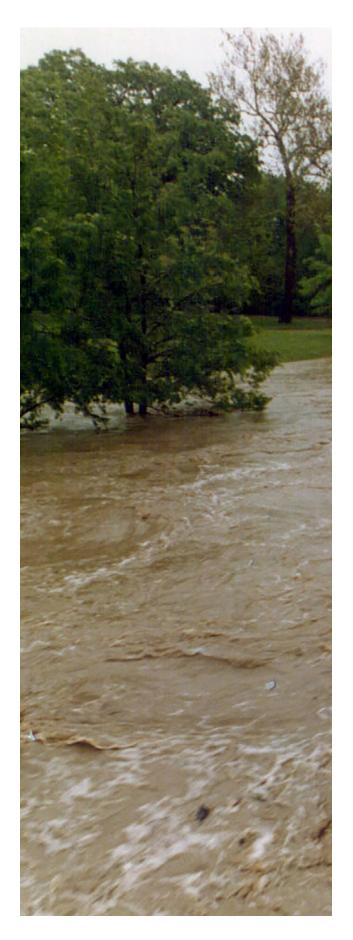


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10 Public Information/Education

Welcome

WELCOME TO OUR 2016 STORMWATER UTILITY SURVEY

In 1991, we launched our first biennial survey of stormwater utilities to assess and share insights on stormwater management and financing, when the concept of "stormwater utility" was still a nascent phenomenon. Over the last 25 years, the phenomenon has continued to evolve with paradigm shifts in stormwater program planning, best practices, governance, and regulatory requirements. To reflect these changing dynamics, we have continued the tradition of capturing and sharing insights through our biennial stormwater utility surveys.

This report, our eleventh stormwater utility survey, presents information on the key industry priorities and investment drivers, stormwater management and user fee practices, and comparative data on typical residential stormwater user fees.

The responses to issues of increasing regulatory requirements, adequacy of funding, and cost recovery continues to indicate an "alignment gap" among program needs, costs of service, level of fees, and customer buy-in.

Hence, going beyond presenting the survey findings, this report also includes a special feature discussion on "Program-Cost-Fee-Benefit Nexus." The special feature highlights the compelling need for nexus among four key factors: the level of service (Program), the costs to deliver the level of service (Cost), the approach to recovering the cost of providing service (Fee), and the customer's understanding of value (Benefit).

If you have any questions regarding the contents of this report and/or Black & Veatch services, please do not hesitate to contact us at: ManagementConsulting@bv.com.

Sincerely,

Ralph Eberts | Executive Vice President

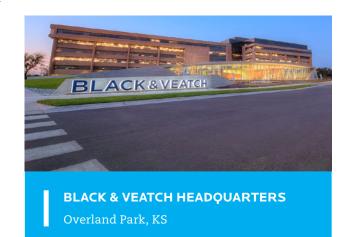
Black & Veatch Management Consulting, LLC

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About this Report

COMPANY OVERVIEW -

Black & Veatch Management Consulting, LLC is a wholly owned subsidiary of Black & Veatch Holding Company and provides integrated strategy, business operations, and technology solutions for water, wastewater, stormwater, power, oil and gas, and renewables utility sectors. Our seasoned executives and consultants combine subject expertise, advanced analytics and practical business sense with extensive technology and engineering capabilities to deliver solutions that work best for your program needs, organization, assets and customers.



SURVEY DESIGN

This 2016 stormwater utility survey was conducted online, within the United States, during March and April 2016. The results are presented under the following key sections:

Section 1: Organization and Operations

Provides a general profile of the respondents including population, size and characteristics of service area, and utility governance.

Section 2: Planning

Provides insights in to what utility managers perceive to be the most important industry issues and stormwater infrastructure investment drivers. This section also highlights the types of permit requirements that utilities have to comply with and the planning utilities have engaged in to address stormwater management.

Section 3: Finance and Accounting

Reviews stormwater utility revenues, expenditures, sources of funding, and the adequacy of stormwater funding to meet utility obligations.

Section 4: Stormwater Rate Structure and Billing

Presents the types of costs recovered through user fees, the fee methodology used in setting rates, the rate structures, and the average monthly residential rate of each utility that participated in the survey. Information on the billing frequency and types of exemptions and discounts that utilities offer, and insights on legal challenges are also provided. Calculated bills reflect rates in effect as of March 1, 2016.

Section 5: Stormwater Credits and Incentives

Offers insights in to the types of credits, criteria used in offering credits, credits for "green initiatives", and any innovative credit programs.

Section 6: Public Information/Education

Assesses the level of importance respondents attribute to public information/education and the methods of education and multi-media sources used in educating and in disseminating information.

PRABHA KUMAR

Director

Ms. Kumar leads the stormwater utility consulting practice. She specializes in stormwater utility



feasibility studies and utility development, implementation, and utility metering and billing operations optimization. Ms. Kumar's comprehensive utility consulting expertise also includes resource analysis, financial planning, cost of

service, and rate design studies, wholesale pricing studies and in providing expert witness services in utility litigation matters. Ms. Kumar has also managed technology projects that involve the entire software development life cycle of needs assessment, system requirements specification, system design, development, implementation and training.

ANNA WHITE

Principal Consultant

Ms. White has served as a Project Manager on projects involving cost of service and rate



determination, revenue bond determination and financial reviews of operations for water, wastewater and stormwater utilities in the public sector. Her economics background and experience with computer modeling and software applications have

been utilized in developing financial analyses of municipal water and wastewater utilities.

RUPA JHA

Manager

Ms. Jha is experienced in utility rate study, business process optimization and change management

for water, wastewater and stormwater utilities. She has participated in a wide range of utility management services including fund review studies, infrastructure asset management, change management, AWWA water audits and financial modeling.



BRIAN MERRITT

Manager

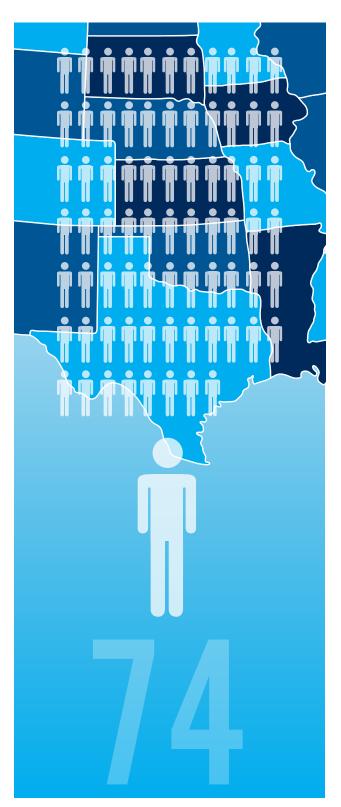
Mr. Merritt has experience in the engineering and consulting industry specializing in stormwater utility development and implementation. He has extensive experience in engineering design,

permitting, compliance, public outreach, program evaluations and planning, and funding strategies. His stormwater related work has included watershed planning, stormwater infrastructure design and construction including green infrastructure,



floodplain and water quality management planning, flood protection/resiliency system assessments and evaluations. In addition, Mr. Merritt is skilled in operations management, business development, client management, contract negotiations, employee recruitment, multi-disciplinary staff management and proposal writing.

Report Highlights



PROFILE OF RESPONDENTS

A total of 74 participants from 24 states completed the online questionnaire.

- All of these participants fund stormwater management in whole or in part through stormwater user fees.
- This year's participants include 16 first time participants and 58 repeat participants.
- Eighty eight percent of the respondents serve a city, rather than a county or a region.
- The population served by the respondents ranges from 86 (Indian Creek Village, FL) to 1.4 million people (San Diego, CA); the areas served varies from 3 to 1,080 square miles.
- Among the utilities that participated in the survey, the median number of stormwater customers is 31,000.
- For those utilities that base charges on gross property area, an Equivalent Residential Unit (ERU) ranged from 2,266 square feet to 20,000 square feet of total parcel area, with a median of 8,000 square feet.
- For those utilities that base charges on impervious area, an ERU ranged from 35 square feet to 5,000 square feet of impervious area, with a median of 2,550 square feet.

Nexus

PROGRAM-COST-FEE-CUSTOMER NEXUS

The new norm in the utility industry is to proactively plan for and build "resilience." Resilience is no longer a buzz word but rather a critical necessity for utilities to be agile and effectively manage known and unforeseen challenges and changing environments. Financial and operational resilience can only be achieved when there is a clear nexus between Program, Cost of Service, User Fees, and Customer Benefit.



The nexus addresses the following critical questions:

- What infrastructure, regulatory, operational, and community needs are we trying to address (Program or Level of Service)?
- · What does it cost to deliver the desired level of service (Cost of Service)?
- · How do we equitably recover the full cost of service (Fee)?
- · What benefits do our customers gain and perceive (Customer Benefit)?

Survey Results on User Fee-Cost of Service Nexus

In our stomwater survey, we find a significant range in the magnitude of typical monthly residential stormwater charge, among the participating utilities. This is a continuing trend over the last several surveys. In analyzing the results, we find that the wide range in the charges is largely due to user fees not reflecting the full "cost of service," and not necessarily due to significant cost of service differences among comparable utilities.

This phenomenon of user fees not reflecting the full cost of service is more pronounced in the stormwater sector than in the water/sewer sector. From a benchmarking perspective, when all the participating utilities do not set their fees to recover the full cost of service, it impacts the ability to truly compare the stormwater charges across utilities, even when the utilities may be comparable in terms of system characteristics and programs.

So, why should utilities strive to recover their full cost of service through user fees rather than recover costs through a combination of "user fees," and other "non-user fees" such as taxes. Here are a few key reasons:

- Equity of Cost Recovery. Stormwater user fees are based typically on the level of imperviousness (commonly referred to as impervious area), which more reasonably correlates to the demand a property places on the stormwater system. However, taxes are based on aspects such as a property's value or the level of sales, which have no direct correlation to the stormwater contributed to the system. In addition, in the case of tax based cost recovery, many properties that have tax exemptions would not pay anything towards stormwater costs. Hence, recovering the full cost of service through user fees provides for a more equitable recovery of costs among the customers.
- Customer Perception. When the fee is designed to reflect the full cost of service, customers can better understand the true costs a utility incurs in providing service. User fees being set to only recover a portion of the stormwater costs can potentially lead to a misperception on the true magnitude of a utility's costs.
- Onsite Stormwater Management. If the user fees are set to fully correlate with cost of service, utilities will have the ability to offer appropriate stormwater fee credits for private stormwater management practices that reduce the stormwater contribution to the system. However, recovering a portion of the stormwater costs through tax revenues would impact a utility's ability to provide stormwater credits on taxes, as taxes have no correlation to a property's stormwater contribution.

To explain the difference between utilities that set user fees to recover the full cost of service and those that recover the cost of service through a mix of "user fees" and "non-user fees," we present the following examples.

Example: Cost of Service Recovered Fully Through User Fees

Seattle Public Utilities (SPU), Washington which has both combined sewer system and separate storm sewer systems, has defined a cost allocation approach that consistently and fairly allocates all operational and capital costs between the sanitary sewer and drainage business lines. Beginning 2008, through a phased approach, SPU has been allocating a portion of the combined sewer system costs to the stormwater utility, recognizing that a portion of the combined sewer system and combined sewer overflow ("CSO") structures support the drainage system. SPU has not only done the due diligence of defining the full cost of service but also recovers 97% of the stormwater costs of service through stormwater user fees, and the remaining through grants and other sources. Such an approach enhances the equity of cost recovery as (i) costs are aligned with the service demands (wastewater versus drainage), and (ii) the



stormwater fees are aligned to recover 97% of the drainage costs. While such an approach strengthens the nexus between system needs, cost, and fees, it also results in SPU's charges appearing to be the highest among the survey participants.

Philadelphia Water Department (PWD),

Pennsylvania, which also has a mix of combined sewer and separate storm sewer systems, has adopted a very similar due diligence of clearly delineating direct stormwater management costs and allocating a portion of the combined sewer operating and capital costs to the stormwater utility, so as to derive the stormwater utility's annual full cost of service. To meet its Long Term Control Plan (LTCP) consent order agreement ("COA") requirements, PWD is leading with green solutions. To effectively support its COA, PWD offers robust stormwater credits and incentives programs, the costs of which are proportionally funded through both wastewater rates and stormwater rates.

The City of Bellevue, Washington, which only has a separate storm sewer system, also appears to have established a nexus between its stormwater full cost of service and the stormwater user fees, with 93% of its cost of service being recovered by stormwater user fees, and 6% from miscellaneous stormwater fees.

When utilities such as SPU, PWD, and Bellevue delineate full stormwater cost of service and then set user fees to appropriately recover those costs, their fees tend to be higher, but also reflect a more equitable approach to cost recovery.

Example: Cost of Service Recovered Through a Combination of User Fees and Taxes

Partial Cost of Service: The survey also indicates that many utilities do not set rates to adequately recover the full cost of service. Kansas City, Missouri has a mix of combined sewer and separate storm sewer systems, and currently has a consent order for CSOs. Kansas City's stormwater user fee only recovers a portion of the cost of service. Based on a 1998 voter referendum on user fees, the stormwater user fee is designed to recover only the stormwater "operating"

costs." The stormwater related capital costs are recovered not through user fees but through taxes. Sean Hennessy, the CFO for Kansas City also points out that the "Missouri Supreme court ruled that an impervious surface 'fee' applied to property owners is a tax and not a fee"; therefore all tax exempt entities are exempt from the stormwater user fee.

Similarly, **City of San Diego, California,** recovers approximately 50% of its stormwater revenues from user fees and the remaining stormwater revenues are generated primarily from general taxes (e.g., sales tax, property tax) and parking citation revenue. Further, San Diego has never increased its stormwater user fees since 1996.

Consequently, in the case of these two utilities, the stormwater user fees for a typical residential property are significantly lower when compared with other stormwater utilities such as Seattle, WA or Philadelphia, PA. Establishing user fees to recover only a portion of the stormwater costs can have equity of cost recovery implications, as the magnitude of costs recovered from a user from taxes may not be fully aligned with the level of demand the user places on the system.

In summary, with respect to establishing an effective nexus between program, cost, fees, and customer engagement, stormwater utilities are continuing to evolve very slowly and are yet to reach even the level of maturity that we see in the municipal water and wastewater sectors. While municipalities that have established a user fee funding mechanism are ahead of the curve relative to those that have not, to plan for and build resilience, it is time that municipal leaders and communities transitioned to more collaborative, needs driven, and holistic approaches to policy making, delineating cost of service, and stormwater funding.

We extend our appreciation to the City of Philadelphia, PA; Seattle, WA; Bellevue WA; Kansas City, MO; and City of San Diego, CA for consenting to highlight their stormwater user fee programs as examples.

O

Organizational Information

Stormwater issues such as surface water quality; habitat degradation; downstream flooding, protection of stormwater as a valuable water resource, and public awareness and support are all universal and do not strictly follow jurisdictional boundaries. Yet municipalities continue to manage stormwater issues only within their geographical jurisdictional authority, without being able to transition to a broader watershed level collaboration, management, and funding.

The survey indicates that individual municipally governed stormwater utilities are more prevalent than regional stormwater authorities. Eighty nine percent of the participants reported serving a city jurisdictional area, with just two participants representing a regional authority. These trends have remained fairly consistent since 2007.

Municipalities that have a mix of combined sewer and separate storm sewer systems have a greater challenge in complying with water quality regulatory requirements. Out of the 9 municipalities that have a combined sewer system and own a wastewater treatment facility, 8 of them indicated having a consent order for Combined Sewer Overflows (CSOs). In contrast, only 2 out of the 74 participants had a consent order for MS4 requirements.

FIGURE 1

FOR MS4 PERMITTING PURPOSES, ARE YOU CLASSIFIED AS: (Select One)

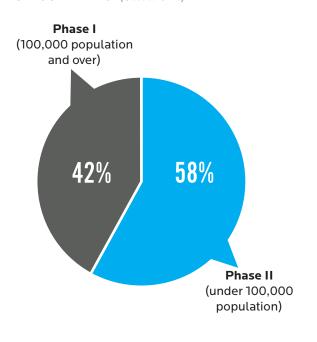


FIGURE 2

WHAT JURISDICTIONAL AREA IS YOUR STORMWATER UTILITY RESPONSIBLE FOR?

(Select One)

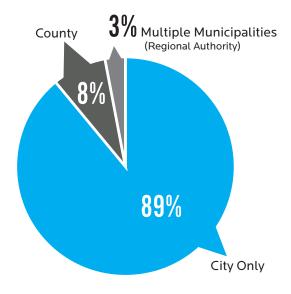


FIGURE 3

WHAT IS THE CHARACTERISTIC OF YOUR SERVICE AREA? (Select One)

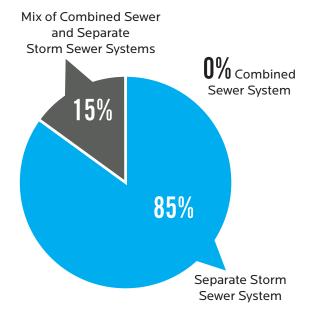
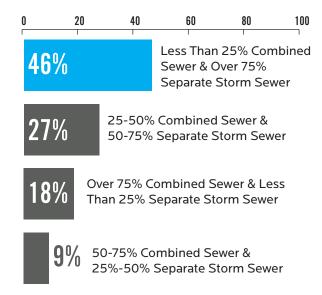


FIGURE 4

IF YOU SELECTED "MIX OF COMBINED SEWER AND SEPARATE STORM SEWER SYSTEMS" IN THE PREVIOUS QUESTION, INDICATE THE PERCENTAGE* OF COMBINED SEWER VERSUS SEPARATE STORM SEWER SERVICE.



*Based on number of utilities that selected "Mix of Combined Sewer and Separate Storm Sewer Systems" in the previous question.

FIGURE 5

IF YOU SELECTED "MIX OF COMBINED SEWER AND SEPARATE STORM SEWER SYSTEM" OR "COMBINED SEWER SYSTEM" IN QUESTION 3, DOES YOUR UTILITY OWN ITS OWN WASTEWATER TREATMENT FACILITY OR DOES IT CONTRACT OUT FOR THESE SERVICES TO ANOTHER JURISDICTION/ENTITY?

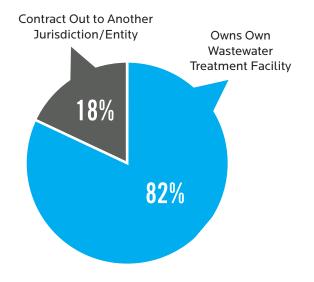


FIGURE 6

IS YOUR UTILITY UNDER CONSENT ORDER FOR COMBINED SEWER OVERFLOW (CSO) ISSUES?

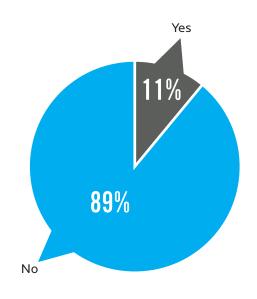


FIGURE 7

IS YOUR UTILITY UNDER CONSENT ORDER FOR MS4 ISSUES?

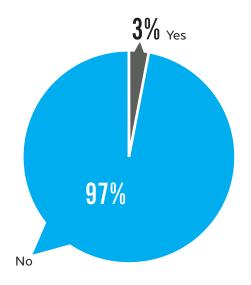
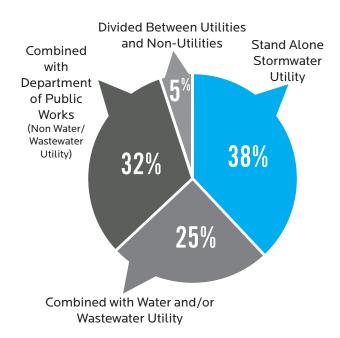


FIGURE 8

PLEASE INDICATE HOW YOUR CURRENT STORMWATER OPERATIONS ARE GOVERNED.

(Select One)



6

Planning

IT SHOULD COME AS NO SURPRISE THAT IN THE WATER AND WASTEWATER UTILITY SECTOR, THE TOP CHALLENGES FOR UTILITY LEADERS CONTINUE TO BE ISSUES RELATING TO:

ASSET MANAGEMENT
STABLE FUNDING FOR CAPITAL AND
OPERATIONAL PROGRAMS
ADEQUACY OF RATES TO RECOVER COST
OF SERVICE
GAINING PUBLIC SUPPORT FOR
FUNDING

Stormwater Priorities

While the stormwater sector faces these same challenges, it also faces the significant pressure of expanding water quality regulations. This survey validates this challenge. Utility leaders continue to indicate the following three issues as their top three challenges: (i) availability of adequate funding, (ii) enhancing public awareness and support for stormwater management, and (iii) management of the expanding regulatory requirements.

Water Quality Poses a Greater Challenge

In the 2016 Strategic Directions: Water Industry Report that we recently published, water utility leaders cited aging infrastructure as their most important challenge; in stark contrast, in this year's stormwater survey, utility leaders have ranked nutrient/TMDL regulatory requirements as a higher priority issue than even infrastructure management. The water

quality regulatory requirement poses a more acute challenge for those municipalities with combined sewer systems, as evidenced by the fact that of the 11 municipalities that indicated having a combined sewer system, 82% currently are under a consent decree.

Infrastructure Investment Drivers

Consistent with water quality and regulatory requirements being high priority issues, utility leaders also indicate that their infrastructure investments are driven primarily by Regulatory Compliance, followed by Flood Control.

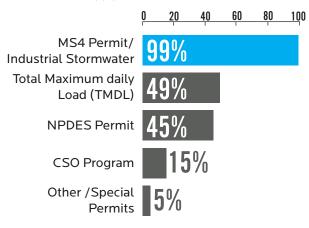
Planning for Resilience

To enhance economic, environmental and social resilience, regardless of their size, municipalities, have to increasingly focus on becoming a smart city with "smart utilities." Smart utilities will require integrated frameworks that involve comprehensive assessment of needs and initiatives, multi-benefit outcomes, consistent technical standards and policies, coordinated governance and execution, public-private partnerships, innovative funding, and enhanced stakeholder engagement.

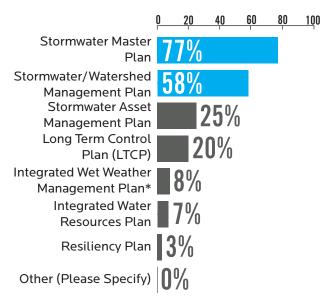
However, this survey finds that even when utilities have both wastewater and stormwater responsibilities and permit requirements, nearly two-thirds of them continue to adopt a more traditional planning approach of developing individual master plans rather than integrated management plans.

WHAT REGULATORY PERMIT REQUIREMENTS DO YOU CURRENTLY HAVE TO COMPLY WITH?

(Select All That Apply)



WHAT TYPES OF PLANS HAS YOUR UTILITY DEVELOPED? (Select All That Apply)



^{*}To Support Wastewater and Stormwater Requirements

.....

PLEASE RANK THE IMPORTANCE OF EACH OF THE ISSUES LISTED BELOW TO THE STORMWATER INDUSTRY. (1 = Least Important; 5 = Most Important)

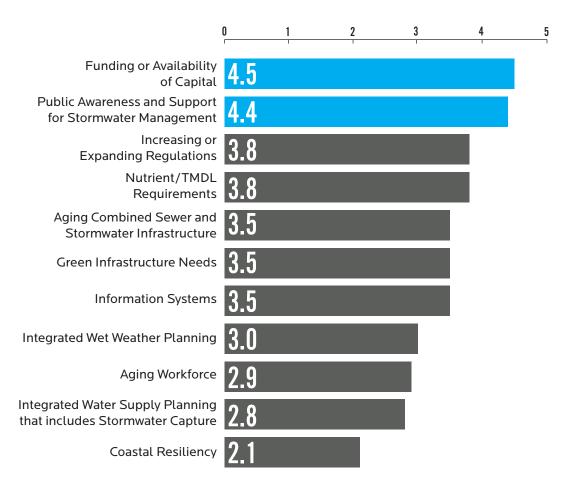
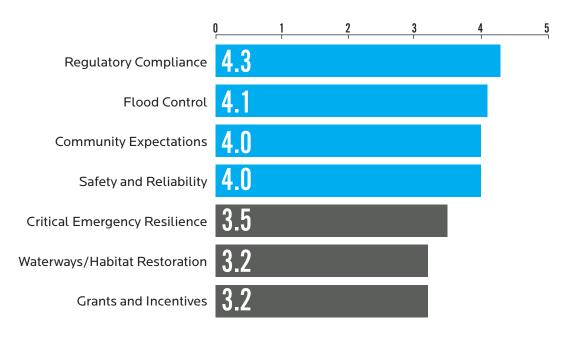


FIGURE 12

PLEASE RANK ON A SCALE OF 1 TO 5, HOW THE FOLLOWING ISSUES DRIVE INFRASTRUCTURE INVESTMENT PLANNING AND DECISIONS WITHIN YOUR STORMWATER UTILITY.

(1 = Very Weak; 5 = Very Strong)



Finance & Accounting

A user fee funded stormwater program has a greater potential to build fiscal and operational resilience through revenue stability, dedicated funding stream, and a stronger nexus between stormwater management costs and user fees. However, for user fee funding to be effective and equitable, timely level of service assessments, financial planning and rate adjustments are necessary.

Funding Adequacy

Consistent with the last survey, only 32% of the participants indicate funding is adequate for meeting most needs. However, the survey also indicates that user fee funding framework is providing some level of funding as the percentage of participants that still do not have funds to meet even their most urgent needs, has decreased from 17% (in the 2014 survey) to 8%.

Capital Program Financing

For capital financing, utilities continue to rely heavily on cash financing than debt financing. Based on our last three stormwater surveys, we find that reliance on debt financing seems to be declining. The decrease in debt financing could be due to multiple reasons including municipalities being over leveraged, lack of long range capital planning and capital financing policies, and stormwater utilities operating with a lower level of fiscal planning maturity relative to water/sewer utilities.



PLEASE PROVIDE THE APPROXIMATE PERCENTAGE OF REVENUE THAT YOUR UTILITY RECEIVED FROM EACH SOURCE LISTED.

	OVER 75%	50%-75%	25%-50%	LESS THAN 25%
Stormwater User Fees	88%	9%	3%	0%
Impact Fees	0%	0%	0%	100%
Miscellaneous Stormwater Fees	0%	0%	0%	100%
Taxes	14%	14%	29%	43%
Grants	0%	0%	18%	82%
Other	0%	7%	7%	86%

FIGURE 14

PLEASE INDICATE THE PERCENTAGE OF YOUR STORMWATER BUDGET THAT IS ATTRIBUTABLE TO COMBINED SEWER OVERFLOW (CSO) MITIGATION ISSUES. (Select One)

	0%	1% - 10%	11% - 20%	21% - 30%	31% - 50%	OVER 50%
Percentage of budget that is attributable to Combined Sewer Overflow (CSO) mitigation issues	27%	27%	9%	9%	9%	19%

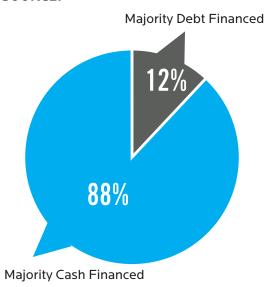
FIGURE 15

WHAT IS THE ESTIMATED 2016 ANNUAL STORMWATER CAPITAL IMPROVEMENT PROGRAM BUDGET?

Minimum	\$60,000
Maximum	\$59,700,000
Average	\$4,461,801

FIGURE 16

PLEASE PROVIDE AN APPROXIMATE PERCENTAGE OF FUNDING FROM EACH SOURCE.



PLEASE PROVIDE AN APPROXIMATE PERCENTAGE OF FUNDING FROM ONE OR MORE OF THE FOLLOWING SOURCES THAT ARE USED TO FINANCE YOUR UTILITY'S STORMWATER CAPITAL IMPROVEMENT PROGRAM (CIP).

12%
8%
12%
0%
4%
0%
5%

CASH FINANCED	88%
Stormwater User Fees	89%
Ad Valorem Taxes	5%
Permitting and Other Taxes	5%
Sales Taxes	3%
Special Tax Districts	4%
New Development Impact Fees	8%
Grants	24%
Other Cash	5%

FIGURE 18

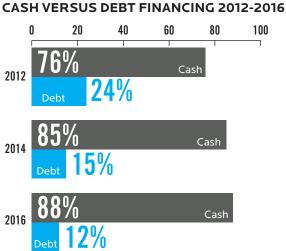


FIGURE 19

PLEASE INDICATE THE LEVEL OF ADEQUACY OF AVAILABLE STORMWATER FUNDING. (Select One)

	2016	2014	2012	2010
Adequate to Meet All Needs	12%	6%	18%	7%
Adequate to Meet Most Needs	32%	32%	31%	36%
Adequate to Meet Most Urgent Needs	48%	45%	40%	47%
Not Adequate to Meet Urgent Needs	8%	17%	11%	10%

DOES YOUR STATE HAVE ENABLING LEGISLATION THAT AUTHORIZES MUNICIPALITIES TO CHARGE A STORMWATER USER FEE?

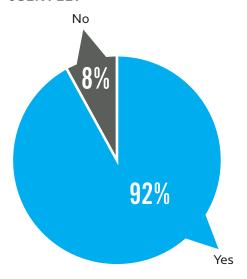


FIGURE 21

DOES YOUR STATE HAVE ENABLING LEGISLATION THAT AUTHORIZES INDEPENDENT PUBLIC UTILITIES SUCH AS AUTHORITIES, BOARDS, AND COMMISSIONS, TO CHARGE A STORMWATER USER FEE?

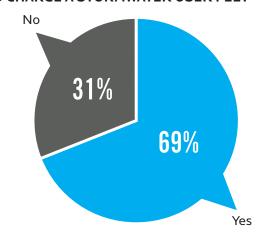
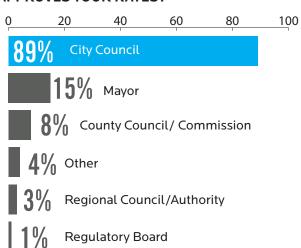


FIGURE 22

WHAT IS THE GOVERNING AUTHORITY THAT APPROVES YOUR RATES?





8

Stormwater User Fees and Billing

User Fee Basis

A user fee needs to reflect a reasonable nexus between the costs incurred in providing services and the magnitude of charges that are defined for the rate payer. As it is not practical to measure stormwater runoff, an estimate of a property's level of imperviousness (that restricts infiltration) continues to provide a defensible basis for determining the runoff contribution. This survey validates this approach as 89 of the participants indicate that they use actual and/or effective impervious area as the basis of charges.

Parcel Data Management

Parcel attributes such as impervious area can be fairly dynamic as changes can occur due to development and redevelopment, consolidation and subdivision of parcels, and other such factors. Yet, 59% of the participants indicate that they do not update their parcel data on any defined frequency. To affirm billing accuracy and effective generation of revenues, it would be prudent for utilities to establish the best practice of at least an annual review and update of parcel impervious area data.

Fiscal Planning

This survey continues to indicate that lack of timely rate adjustments could be one of the contributing factors to a funding gap. While costs and utility needs for service levels and regulatory requirements continue to increase, 26% of the participants indicate that they have not adjusted the stormwater rates in over 10 years. Establishing a best practice of consistent and timely rate adjustments along with the implementation of customer assistance programs to help with affordability will provide an effective path to financial resiliency.

FIGURE 23

PLEASE INDICATE THE YEAR WHEN YOUR UTILITY'S CURRENT STORMWATER USER RATE SCHEDULE BECAME EFFECTIVE.

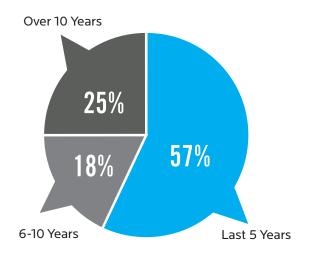
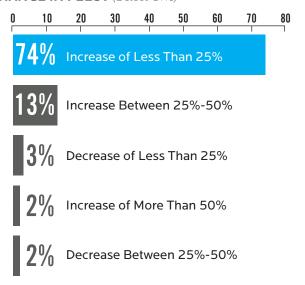


FIGURE 24

WHAT WAS THE MAGNITUDE OF THE LAST CHANGE IN FEES? (Select One)



DOES YOUR UTILITY TYPICALLY ADOPT NEW STORMWATER FEES ANNUALLY OR FOR MULTIPLE YEARS? IF FOR MULTIPLE YEARS, HOW LONG IS YOUR TYPICAL RATE PERIOD?

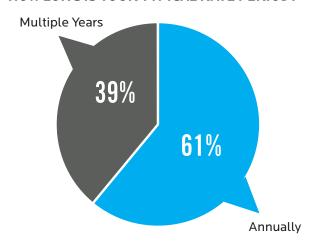


FIGURE 26

IS YOUR STORMWATER USER FEE BASED ON SOME FORM OF PARCEL AREA SUCH AS GROSS AND/OR IMPERVIOUS AREA?

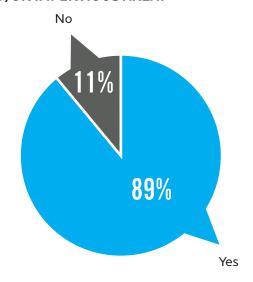
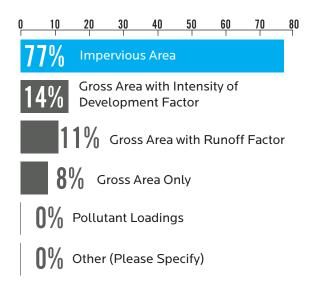
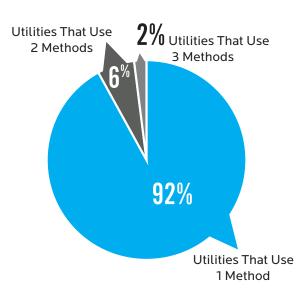


FIGURE 27

WHAT IS THE BASIS FOR CALCULATING YOUR PARCEL AREA BASED STORMWATER USER FEES? IF A COMBINATION OF METHODS IS USED, PLEASE CHECK ALL APPLICABLE METHODS.

(Select All That Apply)





WHAT IS YOUR UTILITY'S AVERAGE SINGLE FAMILY RESIDENTIAL PARCEL SQUARE FOOTAGE?

(Include attached residential up to four dwelling units)

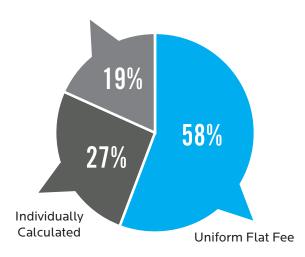
AVERAGE GROSS AREA	SQUARE FEET	AVERAGE IMPERVIOUS AREA	SQUARE FEET
Minimum	2,266	Minimum	35
Maximum	20,000	Maximum	5,000
Median	8,000	Median	2,550

FIGURE 29

WHAT TYPE OF RATE STRUCTURE DOES YOUR UTILITY HAVE FOR THE SINGLE FAMILY RESIDENTIAL PARCELS? PLEASE ALSO PROVIDE THE AVERAGE MONTHLY RATE FOR EACH RATE STRUCTURE YOU SELECT.

(Complete All That Apply)





AVERAGE MONTHLY SINGLE-FAMILY RATE

CITY/COUNTY	STATE	2016 AVERAGE MONTHLY RESIDENTIAL CHARGE
Seattle	WA	32.50
Bellevue	WA	22.00
Everett	WA	17.44
Lubbock	TX	16.23
Fort Collins	CO	14.26
Philadelphia*	PA	14.12
Palo Alto	CA	12.63
Bremerton	WA	11.54
Loveland	CO	10.93
Gresham	OR	10.00
Orlando	FL	9.99
Charlotte	NC	9.95
Pierce County	WA	9.67
Gainesville	FL	9.00
Satellite Beach	FL	8.67
Cocoa Beach	FL	8.00
Thurston County	WA	7.58
Meadville	PA	7.50
Oakland Park	FL	7.50
Southeast Metro SW Authority	CO	7.38
Wilmington	DE	7.00
Brighton	CO	6.91
Duluth	MN	6.75
Tulsa	OK	6.45
Bloomington	MN	6.37
Woodbury	MN	6.10
Roseburg	OR	6.05
Killeen	TX	6.00
Lakeland	FL	6.00
Charleston	SC	6.00
Olathe	KS	5.66
Fort Worth	TX	5.40
Northern Kentucky Sanitation District No. 1	KY	5.04
Cedar Rapids	IA	5.02
Mount Pleasant	SC	5.00
Wilton Manors	FL	4.82
Griffin	GA	4.79

CITY/COUNTY	STATE	2016 AVERAGE MONTHLY RESIDENTIAL CHARGE
Jupiter	FL	4.55
Haines City	FL	4.52
Mesquite	TX	4.50
Arvada	CO	4.50
Great Falls	MT	4.27
Topeka	KS	4.25
Doral	FL	4.00
Miami Gardens	FL	4.00
Lawrence	KS	4.00
Indian Creek Village	FL	4.00
Irving	TX	4.00
Lynchburg	VA	4.00
Raleigh	NC	4.00
Ellicott City	MD	4.00
Stuart	FL	3.95
Fayetteville	NC	3.75
Richmond	VA	3.75
Billings	MT	3.62
Charlottesville	VA	3.60
Wichita Falls	TX	3.55
Cincinnati	ОН	3.54
Frisco	TX	3.45
Murfreesboro	TN	3.25
Kansas City	МО	3.00
McKinney	TX	3.00
Melbourne Beach	FL	3.00
Contra Costa County	CA	2.92
Modesto	CA	2.73
Littleton	CO	2.58
West Miami	FL	2.50
Wichita	KS	2.00
Moline	IL	1.94
Santa Clarita	CA	1.92
Spokane Valley	WA	1.75
Shelby County	TN	1.50
Columbia	МО	1.44
San Diego	CA	0.95
Omaha	NE	0.71

 $[*]Philadelphia\ did\ not\ participate\ in\ this\ year's\ stormwater\ survey\ but\ has\ provided\ its\ residential\ stormwater\ charge\ for\ inclusion\ in\ this\ report.$

IF YOU HAVE A TIERED RESIDENTIAL RATE STRUCTURE, PLEASE INDICATE THE TOTAL NUMBER OF TIERS.

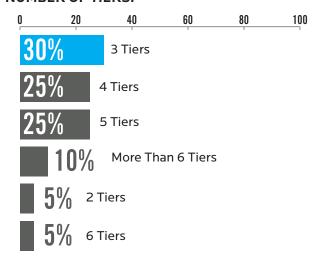


FIGURE 32

IF YOU HAVE A TIERED RESIDENTIAL RATE STRUCTURE, WHAT IS THE BASIS OF THE TIERS? (Select One)

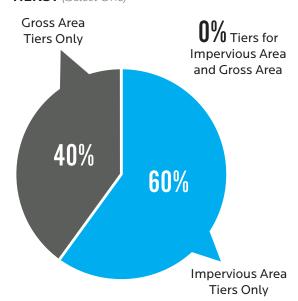


FIGURE 33

DOES YOUR STORMWATER RATE STRUCTURE INCLUDE A SEPARATE BILLING/COLLECTION OR SERVICE CHARGE?

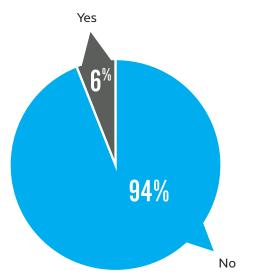
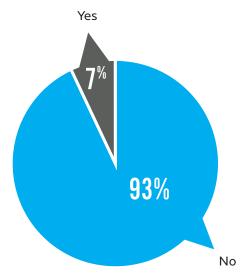


FIGURE 34

IN YOUR STORMWATER RATE STRUCTURE, DO YOU HAVE RATES THAT DIFFER BY SERVICE AREAS/ZONE OR WATERSHEDS?



ARE ONE-TIME IMPACT/CAPITAL RECOVERY FEES APPLIED TO NEW STORMWATER UTILITY CUSTOMERS OR NEW DEVELOPMENT?

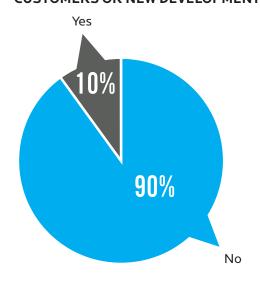


FIGURE 36

HOW FREQUENTLY DOES YOUR UTILITY UPDATE CUSTOMER PARCEL INFORMATION, SUCH AS CUSTOMER CLASSES AND GROSS AND IMPERVIOUS AREAS SPECIFIC TO STORMWATER BILLING? (Select One)

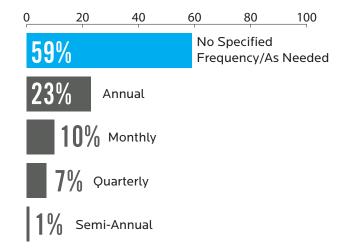
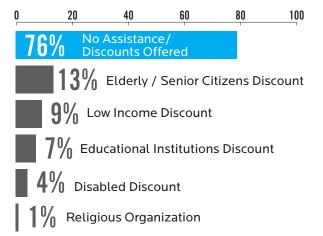


FIGURE 37

HOW ARE THE STORMWATER USER FEES BILLED? (Select One) 1 20 40 60 80 100 71% Included with Other Utility Bill (Water/ Sewer/Electric/Gas) 25% Included with Tax Bills

FIGURE 38

DOES YOUR UTILITY OFFER ANY OF THE FOLLOWING STORMWATER DISCOUNTS? STORMWATER DISCOUNTS ARE NOT THE SAME AS STORMWATER CREDITS, INCENTIVES, OR EXEMPTIONS. (Select All That Apply)



HOW DO YOU FUND CUSTOMER ASSISTANCE PROGRAMS (DISCOUNTS OR OTHER ASSISTANCE)?

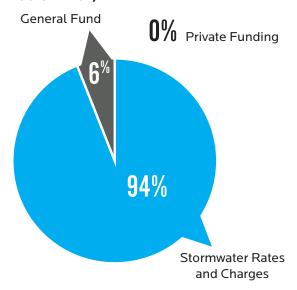


FIGURE 41

WHO IS RESPONSIBLE FOR PAYMENT OF THE STORMWATER USER FEES? (Select One)

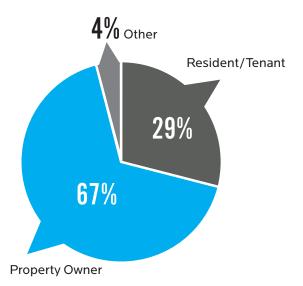
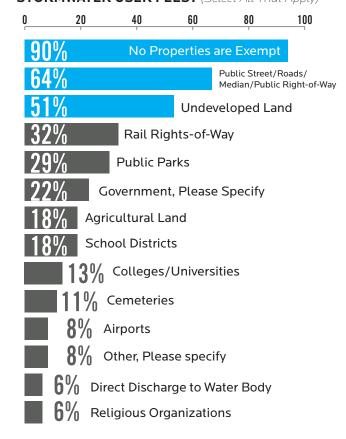


FIGURE 40

WHAT OF THE FOLLOWING CLASSES OF PROPERTIES ARE CURRENTLY EXEMPT FROM STORMWATER USER FEES? (Select All That Apply)



HOW IS PAYMENT ENFORCED? (Select All That Apply) 1 20 40 60 80 100 63% Lien on Property Water/Electric Service Shutoff 21% Collection Agency 7% Sheriff's Sale 3% Other

FIGURE 44

PLEASE INDICATE THE CUSTOMER/CLASS THAT CHALLENGED YOUR STORMWATER USER FEE.

(Select All That Apply)



FIGURE 43

HAS YOUR UTILITY'S STORMWATER USER FEES EVER FACED A LEGAL CHALLENGE?

(Select All That Apply)

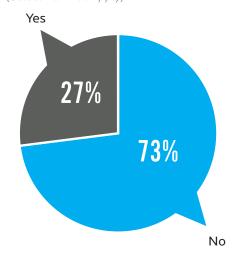
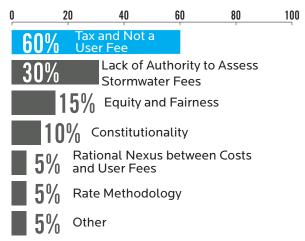


FIGURE 45

WHAT WAS THE BASIS OF THE CHALLENGE?

(Select All That Apply)



Stormwater Credits & Incentives

Stormwater incentives are one-time monetary or other non-monetary assistance that municipalities offer to property owners and/or other entities such as developers primarily to foster private onsite stormwater management. Incentives can provide an effective mechanism to leverage public-private partnerships in stormwater management and thereby enhance green solutions beyond the traditional public Right-of-Way.

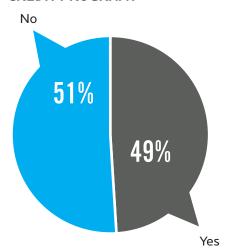
Stormwater credits are ongoing reductions in stormwater charges that properties can achieve for reducing demand on the stormwater system and/or reducing the utility's cost of service through onsite stormwater Best Management Practices (BMPs). Stormwater credits also offer the added benefit of enhancing the validity of "user fees" by providing customers the opportunity for voluntary control of their fees.

Adoption of Stormwater Credits and Incentives

The trend with respect to offering stormwater credits on user fees is increasing, but at a slower pace. Incentives are less common than stormwater credits as only 25% of the survey participants indicated offering some type of incentives to encourage private stormwater management. The challenge of recovering the potential revenue loss due to credits and the funding adequacy issue that utilities face are factors that likely contribute to the lower adoption of stormwater credits and incentives programs, among municipalities that have a stormwater user fee.

FIGURE 46

DOES YOUR UTILITY HAVE A STORMWATER CREDIT PROGRAM?



PLEASE INDICATE THE CLASSES OF PARCELS THAT ARE OFFERED STORMWATER CREDITS?

(Select One)

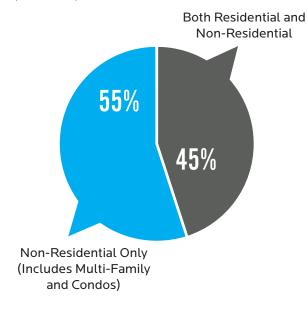


FIGURE 48

DO YOU OFFER CREDITS FOR ANY OF THE FOLLOWING STORMWATER MANAGEMENT ACTIONS?

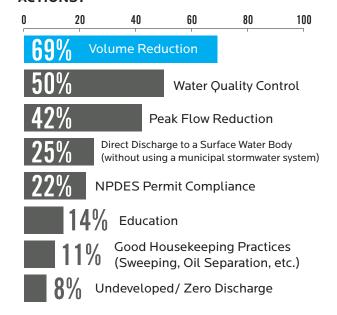


FIGURE 49

PLEASE INDICATE THE MAXIMUM ALLOWABLE CREDIT FOR EACH ACTION SELECTED.

(Select All That Apply)

MAXIMUM ALLOWANCE CREDIT	OVER 75%	50% - 75%	25% - 50%	LESS THAN 25%
Volume Reduction	24%	28%	32%	16%
Peak Flow Reduction	33%	7%	33%	27%
Water Quality Control	6%	28%	33%	33%
NPDES Permit Compliance	0%	0%	38%	62%
Education	0%	40%	20%	40%
Direct Discharge to a Surface Water Body (without using a municipal stormwater system)	67%	0%	11%	22%
Good Housekeeping Practices (Sweeping, Oil Separation, etc)	0%	0%	50%	50%
Undeveloped/Zero Discharge	0%	0%	67%	33%

IS THERE A CAP FOR THE TOTAL AMOUNT OF CREDITS THAT ARE OFFERED?

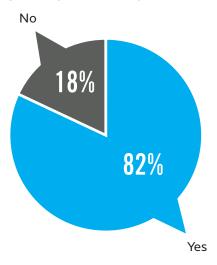


FIGURE 51

IF YES, WHAT IS THE MAXIMUM STORMWATER FEE REDUCTION?

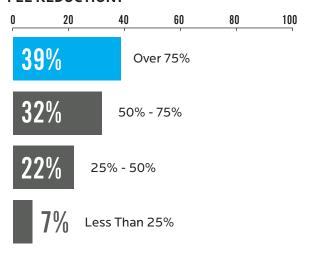


FIGURE 52

DO YOU OFFER CREDITS FOR ANY OF THE FOLLOWING TO ENCOURAGE "GREEN" OR LOW IMPACT DEVELOPMENT (LID) STORMWATER MANAGEMENT PRACTICES? (Select All That Apply)

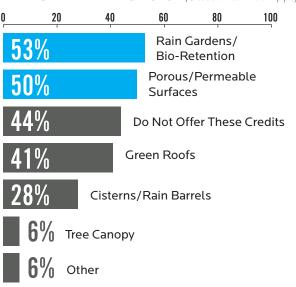
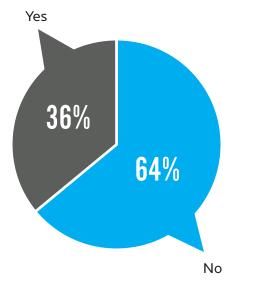


FIGURE 53

DO YOU OFFER CREDITS FOR RUNOFF MANAGEMENT FROM PERVIOUS AREA?



DO YOU CURRENTLY OFFER ANY TYPE OF STORMWATER CREDITS 'TRADING / BANKING' PROGRAM? (Select One)

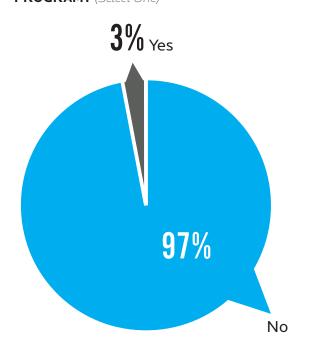
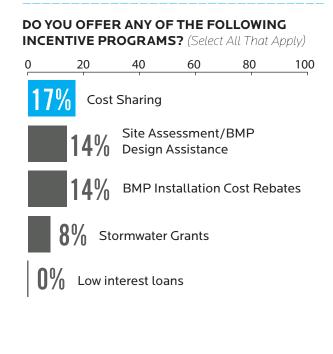


FIGURE 55



10

Public Information/ Education

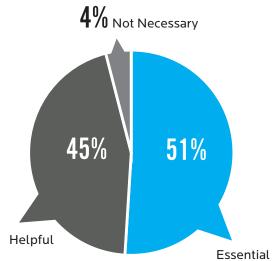
The water/sewer sector has finally realized that national dialogue and focused campaigns are necessary to educate the public and the decision/policy makers on the value of water. This realization has helped launch initiatives such as the "Value of Water Coalition." Similarly, in the stormwater sector, public education and outreach cannot be an afterthought but rather an integral best practice in stormwater management.

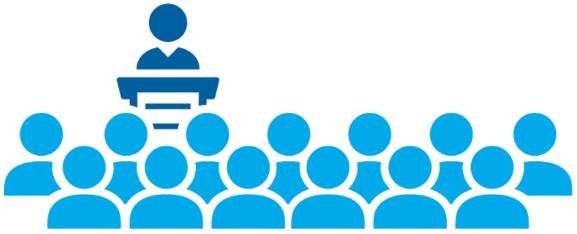
While public education and outreach is one of the MS4 permit requirements that utilities have to comply with, it is intriguing that only 51% of the survey participants deem organized public education as "essential." Even municipalities that have successfully established user fees, need to engage in continuous public education to build financial and operational resilience in stormwater management.

In terms of the effectiveness of public education forums, consistent with the previous survey, direct interface with customers through community events/presentations continues to rank the highest. However, this year, utility managers have also rated utility websites and workshops for elected officials/boards as highly important in ensuring effective public education.

FIGURE 56

HOW IMPORTANT IS AN ORGANIZED ONGOING PUBLIC INFORMATION/EDUCATION EFFORT TO THE CONTINUING SUCCESS OF A USER FEE FUNDED STORMWATER UTILITY? (Select One)





PLEASE RANK THE EFFECTIVENESS OF THE SPECIFIC ACTIVITIES YOU HAVE UNDERTAKEN TO SECURE STAKEHOLDER APPROVAL AND SUPPORT FOR STORMWATER USER FEES. PLEASE RATE ONLY THE ACTIVITIES YOU HAVE LINDERTAKEN (1 = 1 cast Effective) 5 = Most Effective)

UNDE	RTAKE	N. (1 = Leas	st Effective	;; 5 = Most	Effective
0	1	2	3	4	5
3.7		nmunity/E sentations			
3.5	4 W	rmwater U osite	tility		
3.5	2 Puk	olic Meetin	gs		
3.4	Perio offici	dic workshops als/boards/cor			
3.3	32 Sch	iools			
3.3	311	nt/TV Med eases	ia		
3.2	, .	wsletters/ ers/Brochu	res		
3.2	23 Soc	ial Media			
3.1	74	zens Advis nmittee	ory		

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2016 STREET IMPROVEMENT PROGRAM WEEKLY PROGRESS UPDATE

<u>#</u>	<u>LOCATION</u>	<u>CURB</u>	MILLING	BASE PATCH	BASE HOT MIX	UTIL. ADJ.	TOP PATCH	TOP HOT MIX	
1	West Ridge Court - Country Hills Dr. to cul-de-sac	100%	100%	100%	100%	COMPLETE	N/A	*	
2	Quail Lane - Pheasant Run to cul-de-sac	100%	*	*	*	50%	N/A	*	
3	Colgate Lane - Radcliffe Dr. to Vassar Dr.	100%	*	*	*	*	N/A	*	
4	Boundary Road - E. Mill Station Dr. to cul-de-sac	100%	100%	N/A	N/A	*	N/A	100%	
5	E. Mill Station Drive - Boundary Rd to #21	100%	100%	N/A	100%	COMPLETE	N/A	100%	
7	Prospect Avenue - Wilbur St. to N. College Ave	100%	*	*	*	*	N/A	*	
8	N. College Avenue at Prospect Ave.	100%	*	N/A	N/A	*	*	*	
9	Nightingale Circle - Shenendoah Dr to cul-de-sac	100%	100%	N/A	*	*	N/A	100%	
10	Stafford Avenue - Woodlawn to Orchard Ave	100%	100%	N/A	100%	*	N/A	100%	
11	Chrysler Avenue-Devon Drive-Cornwall Dr.	100%	*	*	*	N/A	N/A	*	
12	Option 1 - Townsend Road - Manns Ave to Ritter Ln	100%	*	*	*	*	N/A	*	
13	Option 2 - Pointe Avenue - E. Mill Station Dr to cul-de-sac	100%	100%	N/A	N/A	*	N/A	100%	
14	Lark Drive - Arbour Dr. to Oriole Dr.	*	*	*	*	*	N/A	*	
15	Hidden Valley Drive- cul-de-sac to Farmhouse Road	100%	100%	*	100%	*	N/A	100%	
15	Total Locations on Contract								
0	Locations Completed								
0	Locations Curb R & R is complete awaiting milling								
0	Locations Curb R & R is ongoing								
0	Locations no work has been initiated								
Key									
*	Not Started								
%	Percent Completed (work continues)								
Х	Work Completed								

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2016 STREET IMPROVEMENT PROGRAM WEEKLY PROGRESS UPDATE

June	13-17	2016

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