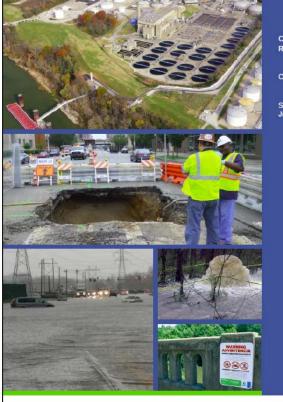
Partnering to Protect Public Health and Safety - Metro Council **Budget Committee** Hearing

July 20, 2017



Critical Repair and Reinvestment Plan Background





CRITICAL REPAIR & REINVESTMENT PLAN

Community Conversation

Status Update June 1, 2017





MSD's Critical Repair & Reinvestment Plan Addresses Public Health and Safety Risks







Upgrade Ohio River Flood Protection Reduce Neighborhood Flooding **Minimize Viaduct Flooding**







Upgrade Wastewater Treatment Facilities Prevent Collapsing Sewers

Comply with Consent Decree



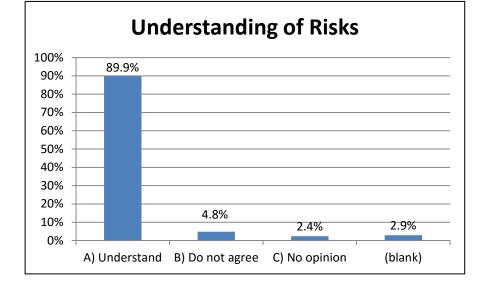
MSD infrastructure solutions

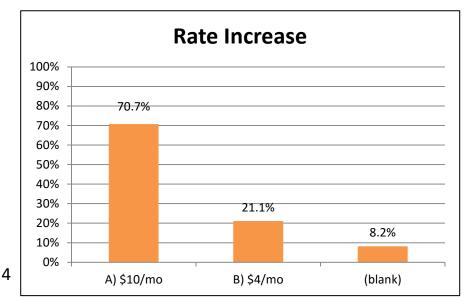


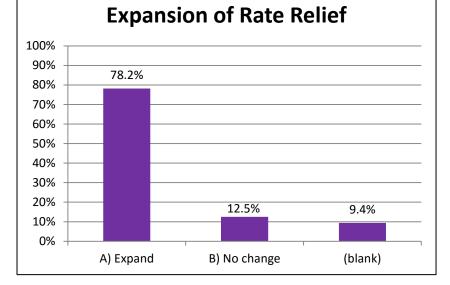
More than two years of analysis and careful planning



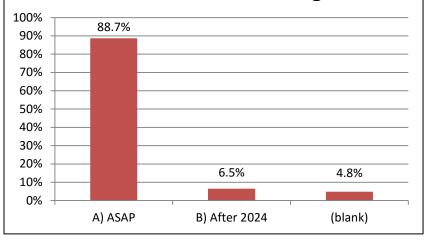
Community Input Form Results



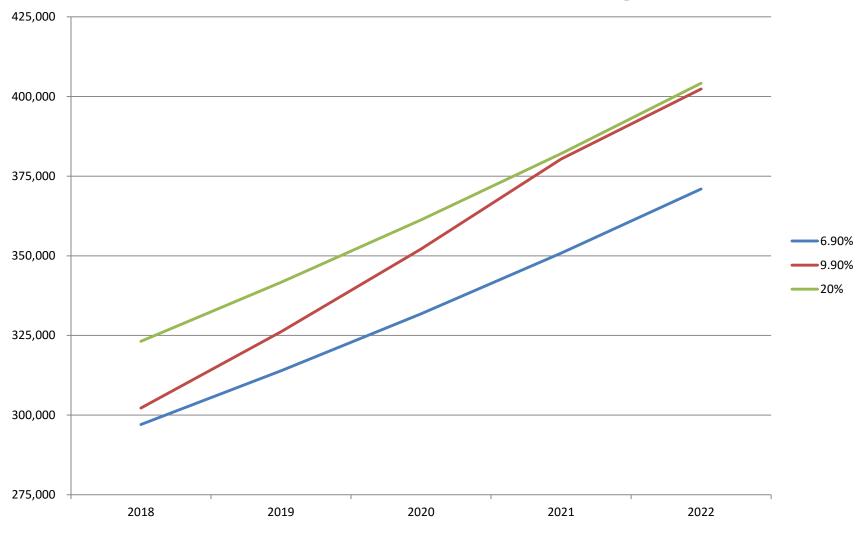




Schedule for Addressing Risks



Revenue per Rate Change





Average Monthly Residential Bill

Rate Increase Total Bill

Rate Increase Total Bill

Rate Increase Total Bill

Actual	Projected						
<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>		
6.9%	6.9%	6.9%	6.9%	6.9%	6.9%		
\$52.50	\$56.11	\$59.98	\$64.12	\$68.55	\$73.28		
6.9%	9.9%	9.9%	9.9%	9.9%	6.9%		
\$52.50	\$57.69	\$63.40	\$69.68	\$76.57	\$81.86		
6.9%	20.0%	6.9%	6.9%	6.9%	6.9%		
\$52.50	\$62.99	\$67.34	\$71.98	\$76.95	\$82.26		



5 Year Capital Program

Rate	Capital Generated
6.9% @ 5 Years	\$830 Million
9.9% (@ 4 Years +6.9% 1 Year)	+ \$280 Million (Helps Start CRRP)
20% (1 Year) + 6.9% (4 Years)	+ \$360 Million (\$80 Million more than 9.9%)



Drainage Response Initiative (DRI) Project Examples



Red Oak Lane -Newburg



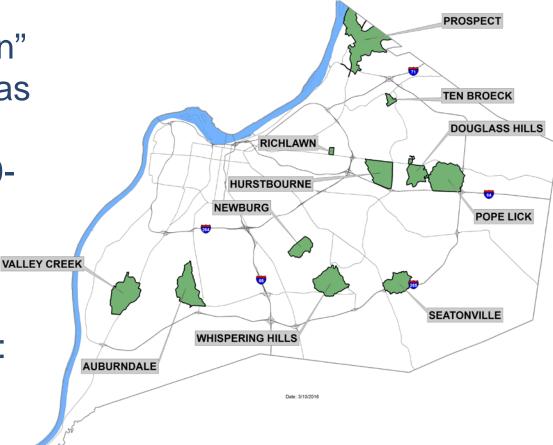


Chesapeake Bay Court DRI



Stormwater Master Plan – Implementing CRRP Recommendations

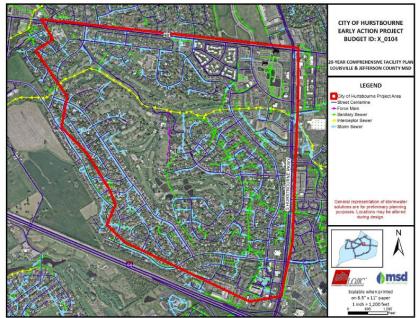
- Develop "early action" solutions for ten areas to meet the climate change projected 10year storm
- Extrapolate those costs to the entire county, adjusting for:
 - Impervious area
 - Age





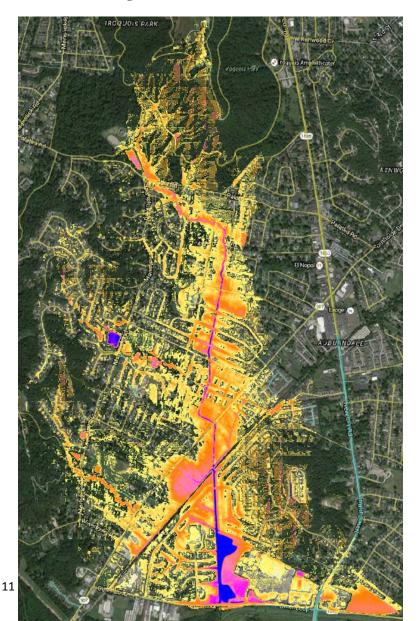
Early Action Plan Projects - Hurstbourne

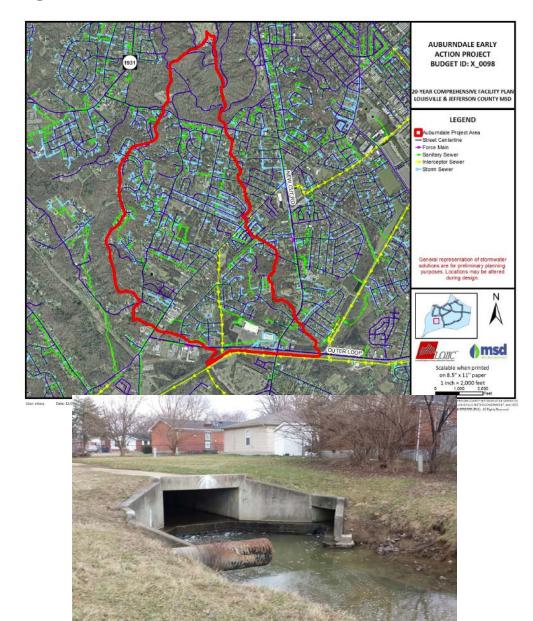




User: miscy Dels: 12/21/2016 Time: 12:28:42 PM

Early Action Plan Projects - Auburndale





Paddy's Run Flood Pumping Station



- Constructed in 1953
- Protects

 35,000 of our
 Friends and
 Neighbors

Part of the larger system that protects **\$23.8 billion** in property



Wastewater – Morris Forman WQTC

MFWQTC Digesters, Secondary Clarifiers, and RAS/WAS Pumps



(WRAP) Wastewater Rate Assistance Program

Staff

Need help with your MSD bill?

MSD offers a 30 percent rate reduction for wastewater charges to qualified low-income customers.

To qualify for MSD's Wastewater Rate Assistance Program (WRAP) you must be a Louisville MSD customer with a household income that falls within 130 percent of the Federal Poverty Guidelines, see chart (right).

The program is administered through Louisville Metro Department of Community Services.

Make an appointment to apply

You must make an appointment to apply in person at one of these Louisville Metro Department of Community Services locations.

• Urban Government Center

810 Barret Avenue, Room 127 Louisville, KY 40204 502.574.1157 Monday through Thursday, 8 AM to 4 PM

Newburg Community Center

4810 Exeter Avenue Louisville, KY 40218

502.574.1270 Monday through Thursday, 8 AM to 4 PM

Southwest Government Center
 7219 Dixie Highway
 Louisville, KY 40272
 502.574.1272
 Monday through Thursday, 8 AM to 4 PM

Appointment by phone

Call 502.991.8391, or one of the centers listed above.

Appointment online

www.louisvilleky.caschedule.com

WRAP applicants must fall within 130 percent of Federal Poverty Guidelines— as shown below						
Number of Household Members	Gross Monthly Income					
1	\$1,287					
2	\$1,736					
3	\$2,184					
4	\$2,633					
5	\$3,081					
6	\$3,530					
7	\$3,980					
8	\$4,430					
Each Additional Person	Add \$451					

A credit for 30 percent will be applied to your wastewater bill upon verification of eligibility by the Department of Community Services for WRAP. Upon approval for WRAP, the discount will become affective on the next billing date from Louisville Water Company, and stay in affect for 24 months. Customers must reapply for another two year period before the initial 24 months expires.



Application Form

Louisville MSD Wastewater Rate Assistance Program

Head of	f Household Info	mation	
Name (Head of Household)			SSN
Street Address			Zip
Phone (area code)			
Email			
Date of Birth			
Additional H	ousehold Membe	r Information	
Name(s)	SSN(s)	Date(s) of Birth	18 Years or Older
		1	
			1
Lõuis	wille MSD Inform	ation	
Name as printed on your MSD bill			
MSD Account Number			
Income	/Household Info	rmation	
Name	Gross Monthly Income	Income Source	Verfied By
2	Signature	·	·
Head of Household			Date

I certify that the information on this application is correct and that I have been notified of my appeal rights. I understand that the receipt of assistance from this program through misrepresentation is punchable by fine or imprisonment. I give permission to allow the agency or its funding source to verify the provided information.

Date

QUESTIONS?



Average Monthly Residential Bill with WRAP

AVG. RESIDENTIAL RATE						
	2016	2017	2018	2019	2020	2021
Rate Increase	6.9%	9.9%	9.9%	9.9%	9.9%	6.9%
Wastewater	\$43.84	\$48.18	\$52.95	\$58.19	\$63.95	\$68.37
Drainage	8.66	9.52	10.46	11.50	12.63	13.50
Total Bill	\$52.50	\$57.70	\$63.41	\$69.69	\$76.59	\$81.87
WITH RATE		10%	20%	30%	30%	30%
ASSISTANCE		WRAP	WRAP	WRAP	WRAP	WRAP
Rate Increase	6.9%	9.9%	9.9%	9.9%	9.9%	6.9%
Wastewater	\$43.84	\$43.36	\$42.36	\$40.73	\$44.77	\$47.86
Drainage	8.66	9.52	10.46	11.50	12.63	13.50
Total Bill	\$52.50	\$52.88	\$52.82	\$52.23	\$57.40	\$61.36



FY18-FY20 Reduction in CRRP Wastewater Projects	ENG CIP Baseline	ENG CIP ~\$10/mo in FY18	Baseline vs. ~\$10/mo in FY18	ENG CIP ~\$5/mo in FY18	Baseline vs. ~\$5/mo in FY18
СМОМ					
CCWQTC FORCEMAIN EXTENSION	\$177,000	\$177,000	N/A	\$0	-\$177,000
CCWQTC SAND FILTER REPLACEMENT	\$4,500,000	\$4,500,000	N/A	\$2,000,000	-\$2,500,000
COLLECTION SYSTEM SPARE PUMP INVENTORY	\$3,000,000	\$3,000,000	N/A	\$2,500,000	-\$500,000
FY18-FY22 OPERATIONS RENEWAL & REPLACEMENT	\$18,300,000	\$18,300,000	N/A	\$15,300,000	-\$3,000,000
FY19 CMOM PM ASSIST	\$225,000	\$187,500	-\$37,500	\$187,500	-\$37,500
FY19 PMP	\$2,000,000	\$2,000,000	N/A	\$1,500,000	-\$500,000
HCWQTC SOLIDS EXPANSION	\$6,800,000	\$6,800,000	N/A	\$800,000	-\$6,000,000
HITE CREEK WQTC EXPANSION	\$19,553,703	\$17,553,703	-\$2,000,000	\$3,623,703	-\$15,930,000
LEA ANN WAY PUMP STATION ELIMINATION	\$8,000,000	\$6,000,000	-\$2,000,000	\$0	-\$8,000,000
MF COLLECTION SYSTEM BAFFLES	\$624,000	\$400,000	-\$224,000	\$400,000	-\$224,000
MFWQTC SERVICE AREA MH AND ARV FLOODPROOFING FOR 100 YR STORM	\$136,000	\$136,000	N/A	\$0	-\$136,000
MFWQTC SERVICE AREA PS FLOODPROOF FOR 100 YR STORM	\$328,000	\$248,000	-\$80,000	\$0	-\$328,000
NIGHTINGALE REHAB	\$4,200,000	\$4,200,000	N/A	\$3,500,000	-\$700,000
Development					
FLOYDS FORK ZONE B SEWERS	\$7,900,000	\$7,900,000	N/A	\$4,000,000	-\$3,900,000
FLOYDS FORK ZONE C SEWERS	\$4,000,000	\$4,000,000	N/A	\$1,000,000	-\$3,000,000
KTC GREENWOOD RD ASSESSMENT	\$525,000	\$0	-\$525,000	\$0	-\$525,000
NMC					
MFWQTC DIGESTER LIDS & MIXERS	\$4,500,000	\$4,500,000	N/A	\$500,000	-\$4,000,000
MFWQTC EQUIPMENT RENEWAL AND REPLACEMENT IN YEAR 5	\$25,500,000	\$15,000,000	-\$10,500,000	\$7,000,000	-\$18,500,000
MFWQTC SEC CLARIFIERS & RAS/WAS PUMPING	\$6,500,000	\$5,500,000	-\$1,000,000	\$5,000,000	-\$1,500,000
MFWQTC SEDIMENTATION BASIN REHAB INCLUDI	\$12,500,000	\$8,500,000	-\$4,000,000	\$2,500,000	-\$10,000,000





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FY18-FY20 Reduction in CRRP	ENG CIP Baseline	ENG CIP	Baseline vs.	ENG CIP	Baseline vs.
Stormwater Projects		~\$10/mo in FY18	~\$10/mo in FY18	~\$5/mo in FY18	~\$5/mo in FY18
Drainage	4	4	4	4	4
AUBURNDALE EARLY ACTION PROJECT	\$12,600,000	\$4,200,000	-\$8,400,000	\$1,800,000	-\$10,800,000
CITY OF HURSTBOURNE EARLY ACTION PROJECT	\$6,000,000	\$3,000,000	-\$3,000,000	\$0	-\$6,000,000
MASTER PLAN IMPLEMENTATION	\$6,000,000	\$5,000,000	-\$1,000,000	\$0	-\$6,000,000
NEWBURG EARLY ACTION PROJECT	\$10,250,000	\$3,000,000	-\$7,250,000	\$0	-\$10,250,000
POPE LICK EARLY ACTION PROJECT	\$6,100,000	\$1,220,000	-\$4,880,000	\$0	-\$6,100,000
PROSPECT EARLY ACTION PROJECT	\$6,000,000	\$1,500,000	-\$4,500,000	\$1,500,000	-\$4,500,000
SEATONVILLE EARLY ACTION PROJECT	\$3,400,000	\$3,400,000	N/A	\$0	-\$3,400,000
STORMWATER MASTER PLAN	\$4,000,000	\$4,000,000	N/A	\$2,000,000	-\$2,000,000
TEN BROECK EARLY ACTION PROJECT	\$1,000,000	\$0	-\$1,000,000	\$0	-\$1,000,000
VALLEY CREEK EARLY ACTION PROJECT	\$5,540,000	\$3,000,000	-\$2,540,000	\$0	-\$5,540,000
VIA11 E BRANDEIS AVE & BROOK VIADUCT FLOOD RELIEF	\$28,043,000	\$2,000,000	-\$26,043,000	\$2,000,000	-\$26,043,000
VIA16 3RD & EASTERN PKY VIADUCT FLOOD RELIEF	\$5,808,000	\$0	-\$5,808,000	\$0	-\$5,808,000
WHISPERING HILLS EARLY ACTION PROJECT	\$2,560,000	\$2,560,000	N/A	\$0	-\$2,560,000
Floodplain Management				·	
FLOOD RESPONSE-BUYOUTS MITIGATION&GRANTS	\$12,000,000	\$10,000,000	-\$2,000,000	\$4,000,000	-\$8,000,000
Ohio River Flood Protection					
10TH STREET FLOOD PUMPING STATION TO LOS 5 -	44.005.000	40	44.005.000	40	44,005,000
IMPROVEMENTS / GENERATOR	\$1,035,000	\$0	-\$1,035,000	\$0	-\$1,035,000
17TH STREET FLOOD PUMPING STATION TO LOS 5 -	¢2 525 000	62 525 000	N/ / A	ćo.	¢2,525,000
IMPROVEMENTS / GENERATOR	\$2,525,000	\$2,525,000	N/A	\$0	-\$2,525,000
34TH STREET FLOOD PUMPING STATION TO LOS 5 - IMPROVEMENTS / GENERATOR	\$2,000,000	\$0	-\$2,000,000	\$0	-\$2,000,000
5TH STREET FLOOD PUMPING STATION TO LOS 5 -					
IMPROVEMENTS / GENERATOR	\$820,000	\$0	-\$820,000	\$0	-\$820,000
ALLOCATION - ANNUAL FLOOD PUMPING STATIONS	\$3,000,000	\$3,000,000	N/A	\$2,500,000	-\$500,000
EQUIPMENT RENEWAL AND REPLACEMENT	6750.000	ć0.	6750.000	ć0.	6750.000
FLOODWAL & LEVEE RISK ASSESSMENT	\$750,000	\$0	-\$750,000	\$0	-\$750,000
LEVEE &FLOODWALL REPAIR & RENEWAL LIGHT	\$1,875,000	\$1,500,000	-\$375,000	\$1,500,000	-\$375,000
PADDYS RUN FPS FULL REHAB	\$31,575,000	\$8,000,000	-\$23,575,000	\$2,000,000	-\$29,575,000
ROBERT J. STARKEY FLOOD PUMPING STATION TO LOS 5 - IMPROVEMENTS / GENERATOR	\$4,360,000	\$2,180,000	-\$2,180,000	\$0	-\$4,360,000
WESTERN PARKWAY FLOOD PUMPING STATION TO	\$11,648,000	\$4,648,000	-\$7,000,000	\$4,648,000	-\$7,000,000
	-				-
WESTERN PARKWAY FPS - RELIABILITY IMPROVEMENTS (EVALUATION REPAIRS)	\$3,334,000	\$3,334,000	N/A	\$2,000,000	\$1,334,000
24 DRAF	Г			Safe, clean wa	terways

FY18-FY20 Reduction in CRRP Support Systems Projects	ENG CIP Baseline	ENG CIP ~\$10/mo in FY18	Baseline vs. ~\$10/mo in FY18	ENG CIP ~\$5/mo in FY18	Baseline vs. ~\$5/mo in FY18
Capital Equipment					
FY18 VEHICLES & EQUIPMENT	\$3,500,000	\$3,500,000	N/A	\$2,500,000	-\$1,000,000
FY19 VEHICLES & EQUIPMENT	\$3,500,000	\$3,500,000	N/A	\$1,500,000	-\$2,000,000
FY20 VEHICLES & EQUIPMENT	\$3,500,000	\$3,500,000	N/A	\$3,000,000	-\$500,000
SYSTEMS AUTOMATION	\$1,200,000	\$750,000	-\$450,000	\$750,000	-\$450,000
Facilities					
LOUISVILLE GREEN MAJOR MAINTENANCE	\$3,000,000	\$3,000,000	N/A	\$2,000,000	-\$1,000,000
OTHER FACILITIES REPAIRS	\$2,500,000	\$2,500,000	N/A	\$2,000,000	-\$500,000
ROOF REPLACEMENTS	\$3,230,458	\$3,204,950	-\$25,508	\$3,204,950	-\$25,508





Capital Spend per Rate Change

