STATE OF IOWA FLOOD MITIGATION PROGRAM PROGRESS REPORT					
DEDICAL COVERED BY THIS DEPOSIT	44/2040		4/20/2020		
PERIOD COVERED BY THIS REPORT LOCAL CONTACT NAME:	11/1/2019 Teri Goodmann	to	4/30/2020		
GOVERNMENTAL ENTITY:	City of Dubuque				
ADDRESS:	50 West 13th Street				
	Dubuque, IA 52001				
TELEPHONE NUMBER:	563-589-4110				
PROJECT TITLE:	Bee Branch Watershed Floor	Mitigation Project			
AGREEMENT NUMBER:	2013-0				
ACTIVITY COMPLETION TIMEFRAME:	12/4/2013	to	12/31/2033		
	FEDERAL	LOCAL	STATE	TOTAL	
TOTAL FUNDS APPROVED:	\$ 34,756,556	\$ 76,678,802	\$ 98,494,178	\$ 209,929,536	
TOTAL FUNDS EXPENDED TO DATE:	\$ 31,903,644				
PROJECT OVERRUN/ (UNDERRUN):	\$ 2,852,912	, , ,			
The percentage of actual work that has be			\$ 35,696,947	\$ 62,325,354	
of funds expended)	en completed at the end of tr	ne reporting period (not a %		66%	
The estimated cost of the project at comp	letion (which may even excee	d the awarded amount)	\$	248,242,053	
Type of Expense	Budget	Federal	Total Expended	Remaining	
& Funding Source	(from Application)	Local or State	to Date	Balance	
Engineering/Contractual Services:	\$ 17,817,601				
Carter Road Detention Basin - General Obli	<u> </u>	Local/State	\$ 560,230		
West 32nd Street Detention Basin - U.S. EP		Federal	\$ 360,230		
West 32nd Street Detention Basin - Stormy		Local/State	\$ 36,242		
West 32nd Street Detention Basin - Genera	•	Local/State	\$ 844,275		
Historic Millwork District - General Obligati	_	Local/State	\$ 225,430		
Historic Millwork District - Stormwater Util	ity	Local/State	\$ 502,809		
Lower Bee Branch Legal Services - U.S. EPA	State Revolving Funds	Federal	\$ 849,637		
Lower Bee Branch Engineering - U.S. EPA St	tate Revolving Funds	Federal	\$ 338,003		
Lower Bee Branch Engineering - Stormwate	er Utility	Local/State	\$ 1,592,959		
Upper Bee Branch Creek Engineering - State Sales Tax Increment Bond		Local/State	\$ 4,760,461		
Upper Bee Branch Creek Legal Services- Sta	ate Sales Tax Increment Bond	Local/State	\$ 167,288		
Upper Bee Branch Creek Engineering - Stormwater Utility Fees		Local/State	\$ 2,376,951		
Upper Bee Branch Creek Engineering - Stormwater Utility Fees Upper Bee Branch Creek Engineering - General Obligation Bond		Local/State	\$ 1,173,197		
		2000, 0000	7 2,213,231		
Upper Bee Branch Creek Engineering - U.S. EPA State Revolving Funds		Federal	\$ 6,342,564		
Flood Mitigation Maintenance Facility Design - State Sales Tax Increment Bond		Local/State	\$ 332,312		
Flood Mitigation Gate Replacement - State	Sales Tax Increment Bond	Local/State	\$ 1,245		
Flood Mitigation Gate Replacement - Storn	nwater (Itility Fees				
	<u> </u>	Local/State	\$ 396,409		
17th Street/West Locust Storm Sewer Engi	neering - Sales Tax Increment				
Bond 1X0002		Local/State	\$ -		
Impervious Surface Reduction - U.S. EPA St	ate Kevolving Funds	Federal	\$ 1,695,679		
22nd Street Storm Sewer Construction - Sa	les Tax Increment Bond 1X0003	Local/State	\$ -		
Bee Branch Creek Railroad Culverts - U.S. EPA State Revolving Fund (SRF) -					
Legal - 1X0010	Calac Tay Ingramant Day	Federal	\$ 15,125		
Bee Branch Creek Railroad Culverts - State Engineering 1X0010	Sales Tax Increment Bond -	Local/State	\$ -		
TOTAL		23.7.23.00	\$ 22,325,980	\$ (4,508,379)	
Property Acquisition & Easement:	\$ 19,301,143		. , -		
Carter Road Detention Basin - Purchase/De Utility Fees	•	Local/State	\$ 140,833		
West 32nd Street Detention Basin - Purchase/Deconstruction - General Obligation Bonds		Local/State	\$ 2,144,713		
	Lower Bee Branch Creek -Purchase/ Deconstruction/ Maintenance of		\$ 1,157,577		
Lower and Upper Bee Branch Creek -Purchase/ Deconstruction/ Maintenance of Housing - General Obligation Bonds		Local/State Local/State	\$ 13,676,887		
Upper Bee Branch Creek -Purchase/ Deconstruction/ Maintenance of Housing - State Sales Tax Increment Bond		Local/State	\$ 2,373,206		
17th Street/West Locust Storm Sewer Property Acquisition/Easements - Sales Tax Increment Bond		Local/State	\$ -		
Maintenance of Housing - State Sales Tax II	Flood Mitigation Maintenance Facility - Purchase/ Deconstruction/ Maintenance of Housing - State Sales Tax Increment Bond		\$ 690,120		
22nd Street Storm Sewer Property Acquisit Increment Bond	tion & Easement: - Sales Tax	Local/State	\$ -		
TOTAL		Localy state	\$ 20,183,336	\$ (882,193)	
Construction:	\$ 139,593,792			, (332)133)	

Carter Road Detention Basin - General Obli	igation Ronds	Local/State	\$ 749,062	
		Local/State	3 743,062	
West 32nd Street Detention Basin - U.S. EP	Federal	\$ 1,711,836		
Historic Millwork District - General Obligati	Local/State	\$ 1,649,072		
Historic Millwork District - TIGER Grant Lower Bee Branch - State Sales Tax increme	Local/State Local/State	\$ 5,600,000 \$ 31,435		
Lower Bee Branch - U.S. EPA State Revolvir	Federal	\$ 6,843,436		
Lower Bee Branch - I-Jobs II Grant	Local/State	\$ 3,695,500		
Lower Bee Branch - RECAT Grant	Local/State	\$ 189,142 \$ 1,020,966		
Lower Bee Branch - Storm Water Utility	Lower Bee Branch - Storm Water Utility			
Lower Bee Branch - Repair lightning damag Bond	ge - State Sales Tax Increment	1 1/0	4 550	
Construction Trailer - State Sales Tax Incres	ment Rond	Local/State Local/State	\$ 658 \$ 17,670	
Construction Trailer - State Sales Tax Interes	ment bond	Localy State	7 17,070	
Upper Bee Branch Creek Construction - Sta	ite Sales Tax Increment Bond	Local/State	\$ 18,158,936	
Upper Bee Branch Creek Construction - U.S	S. EPA State Revolving Funds			
	Upper Bee Branch Creek Construction - U.S. EPA State Revolving Funds		\$ 22,951,178	
Upper Bee Branch Creek Construction - DM Upper Bee Branch Creek Construction - RE		Local/State Local/State	\$ 940,000 \$ 2,060,858	
Upper Bee Branch Creek Construction - ED.		Federal	\$ 2,060,858 \$ 1,227,138	
Upper Bee Branch Creek Construction - NS		Local/State	\$ 1,000,000	
Upper Bee Branch Creek Construction - SR	Т	Local/State	\$ 100,000	
17th Street/West Locust Storm Sewer Cons	struction - Sales Tax Increment	Local/State	¢ 1.050.000	
Bond Impervious Surface Reduction - U.S. EPA St	rate Revolving Funds	Local/State Federal	\$ 1,956,388 \$ 7,704,321	
Impervious Surface Reduction - State Sales		Local/State	\$ 7,704,321	
22nd Street Storm Sewer Construction - Sa		Local/State	\$ 1,526,168	
Bee Branch Creek Railroad Culverts - U.S. E	PA State Revolving Fund (SRF) -			
1X0010 TOTAL		Federal	\$ 6,601,197 \$ 87,118,409	ć F2 47F 202
Contingency:	\$ 11,337,000		\$ 87,118,409	\$ 52,475,383
contingency.	7 11,557,000		\$ -	
TOTAL			\$ -	\$ 11,337,000
Financing Interest:	\$ 17,430,000			
Carter Road Detention Basin GO Bond			\$ 866,878	
W. 32nd Street Detention Basin SRF Loan Lower Bee Branch Creek SRF Loan			\$ 562,262	
Lower Bee Branch GO Debt			\$ 1,982,041 \$ 4,773,530	
Green Alley SRF Debt		\$ 1,138,690		
Historic Millwork District - General Obligati	ion Bonds		\$ 1,746,795	
Sales Tax Increment Bond Series 2014A			\$ 1,763,588	
Sales Tax Increment Bond Series 2015A			\$ 3,402,466	
Upper Bee Branch Creek SRF loan TOTAL			\$ 1,740,208 \$ 17,976,458	\$ (546,458)
Financing Reserve:	\$ 4,450,000		7 17,570,438	3 (340,438)
	1, 150,000		\$ -	
TOTAL			\$ -	\$ 4,450,000
Total Project Budget Summary	\$ 209,929,536		\$ 147,604,182	\$ 62,325,354
FUNDING SOURCE:	FEDERAL (from Application)	LOCAL (from Application)	STATE (from Application)	Total Expended to Date
U.S. EPA Clean Water SRF	\$ 49,021,052			\$ 55,168,140
U.S. EDA Disaster Relief Grant	\$ 1,227,138			\$ 1,227,138
U.S. DOT TIGER Grant		\$ 5,600,000		\$ 5,600,000
I-Jobs II Grant RECAT Grant		\$ 3,965,500 \$ 2,250,000		\$ 3,695,500 \$ 2,250,000
U.S. DOT National Scenic Byways Grant		\$ 2,230,000		\$ 2,230,000
State Recreational Trail Grant		\$ 100,000		\$ 100,000
DMATS		\$ 940,000		\$ 940,000
General Obligation Bonds		\$ 48,227,604 \$ 165,244		\$ 21,022,866 \$ 207,875
Private Donations Sale of Assets and Land		\$ 165,244 \$ 336,358		\$ 207,875 \$ 585,802
Stormwater Utility Fees		\$ 14,394,096		\$ 17,501,265
Sanitary Sewer Fees				\$ -
U.S. EPA Clean Water SRF (repayment) Sales Tax Increment	\$ (24,491,634)		\$ 24,491,634 \$ 74,002,544	\$ - \$ 38,305,597
Total Project Funding Source	\$ 25,756,556	\$ 76,978,802	\$ 98,494,178	\$ 147,604,182
Indebtedness Incurred (Bonds, etc.)	Rate of Interest	Length of Term (start & end)	Costs of Issuance	Net Proceeds
Sales Tax Increment Revenue Bond (Series 2014A)	3.23%	6/16/14-6/1/29	\$ 40,398	\$ 8,120,912
Sales Tax Increment Revenue Bond (Series	3.78%	6/15/15-6/1/31	¢ 440.050	\$ 20.627.044
2015A)			\$ 110,950	\$ 20,637,011

Gronen Restoration & Ter	NON-PUBLIC INVESTMENT - Entity			Tota	Total to Date	
		Caradco Building - Millwork District		\$	33,000,000	
Novelty Ironworks - 333 E	•			\$	20,760,000	
Residential Improvements/Additions - (Various see Attachment B) Rainbo Oil - 1260 E. 16th Street			\$	20,608,296 5,000,000		
Morrison Brothers - East 7th Street				\$	4,300,000	
Graybill Custom Builders - New Residential Development - Ashley Lane/Danlin Ct				\$	4,025,000	
Dubuque Stamp - 3190 Jackson Street			\$	3,000,000		
	Mark GudenKauf - New Residential Development - Peach Tree Lane			\$	2,126,000	
Engine House - 1805 Cent Bethany Home - 1005 Lind				\$	1,910,000 1,886,000	
Commercial Improvement		hment B)		\$	1,819,147	
Walgreens - 345 E 20th St				\$	1,004,390	
Gronen Restoration - Bett	·			\$	1,000,000	
M & M Schultz Properties LLC - 3422 Asbury Road				\$	575,600	
	Salvia House LTD - 196 Kaufmann Gronen Restoration - St. Mary's Campus - 15th & White Street			\$	523,000 400,000	
Weaver Castle - 324 - 326		x write street		\$	400,000	
Weaver Castle - 407-409 L				\$	400,000	
Emmaus Bible School - 25	70 Asbury Road			\$	290,000	
Davis Place Apartments - (\$	232,440	
Dubuque Furniture & Floo				\$	100,000	
Rusk Building - 1104 White Nottingham Properties - 4				\$	16,500 12,500	
Richards or High Building				\$	6,800	
Total Non-Public Invest				\$	103,395,673	
on Schedule X Delayed Canceled Completed	On Schedule X Delayed Canceled Please see the attached project update.					
Suspended						
	Applic	ation Work Schedule (Milestones)		Milestone	Status	
		•	Submitted Completion			
#		Description:	Date:	Actual Co	mpletion Date:	
1 Receive Grant Agreement from FMP 2/4/2014					12/4/2013	
2 Carter Road Detenti			12/4/2013			
	3 W. 32nd Street Detention Basin 12/4/2013				12/4/2013	
					12/4/2013	
5 Lower Ree Branch C			12/4/2013		12/4/2013 12/4/2013	
5 Lower Bee Branch C	Creek Restoration		12/4/2013 6/4/2015	N	12/4/2013	
	creek Restoration te Replacement		12/4/2013	N	12/4/2013 12/4/2013	
6 Flood Mitigation Ga7 Impervious Surface8 Upper Bee Branch C	creek Restoration te Replacement Reduction Creek Restoration		12/4/2013 6/4/2015 6/4/2015 12/4/2033 12/4/2016	N	12/4/2013 12/4/2013	
6 Flood Mitigation Ga7 Impervious Surface8 Upper Bee Branch C9 Upper Bee Branch C	Creek Restoration Ite Replacement Reduction Creek Restoration Creek Restoration (Le	ower Bee Branch to Garfield - Railroad Culverts)	12/4/2013 6/4/2015 6/4/2015 12/4/2033 12/4/2016 12/4/2016	N	12/4/2013 12/4/2013 ow Functional 8/28/2017	
 6 Flood Mitigation Ga 7 Impervious Surface 8 Upper Bee Branch C 9 Upper Bee Branch C 10 22nd St Storm Sewe 	Creek Restoration Lite Replacement Reduction Creek Restoration Creek Restoration (Leer Impr. (Elm to Whi	te)	12/4/2013 6/4/2015 6/4/2015 12/4/2033 12/4/2016 12/4/2016 6/4/2020	N	12/4/2013 12/4/2013 ow Functional	
6 Flood Mitigation Ga7 Impervious Surface8 Upper Bee Branch C9 Upper Bee Branch C	Creek Restoration Ite Replacement Reduction Creek Restoration Creek Restoration (Leer Impr. (Elm to White Impr. (White to Freek Impr. (White I	te)	12/4/2013 6/4/2015 6/4/2015 12/4/2033 12/4/2016 12/4/2016 6/4/2020	N	12/4/2013 12/4/2013 ow Functional 8/28/2017	
6 Flood Mitigation Ga 7 Impervious Surface 8 Upper Bee Branch C 9 Upper Bee Branch C 10 22nd St Storm Sewe 11 22nd St Storm Sewe	Creek Restoration Ite Replacement Reduction Creek Restoration Creek Restoration (Leer Impr. (Elm to White Impr. (White to Freer Impr. (Francis to N	te)	12/4/2013 6/4/2015 6/4/2015 12/4/2033 12/4/2016 12/4/2016 6/4/2020	N	12/4/2013 12/4/2013 ow Functional 8/28/2017	
6 Flood Mitigation Ga 7 Impervious Surface 8 Upper Bee Branch C 9 Upper Bee Branch C 10 22nd St Storm Sewe 11 22nd St Storm Sewe 12 22nd St Storm Sewe 13 Flood Mitigation Ma 14 North End Storm Se	Creek Restoration Inter Replacement Reduction Creek Restoration Creek Restoration (Leer Impr. (Elm to Whiter Impr. (White to Freer Impr. (Francis to Naint. Facility Evwer Impr.	te)	12/4/2013 6/4/2015 6/4/2015 12/4/2033 12/4/2016 12/4/2016 6/4/2020 6/4/2020 6/4/2020 6/4/2020 12/4/2017	N	12/4/2013 12/4/2013 ow Functional 8/28/2017	
6 Flood Mitigation Ga 7 Impervious Surface 8 Upper Bee Branch C 9 Upper Bee Branch C 10 22nd St Storm Sewe 11 22nd St Storm Sewe 12 22nd St Storm Sewe 13 Flood Mitigation Ma 14 North End Storm Se 15 Water Plant Flood C	Creek Restoration Inter Replacement Reduction Creek Restoration Creek Restoration (Leer Impr. (Elm to Whiter Impr. (White to Freer Impr. (Francis to Naint. Facility Control	te) rancis) N. Main)	12/4/2013 6/4/2015 6/4/2015 12/4/2033 12/4/2016 12/4/2016 6/4/2020 6/4/2020 6/4/2020 6/4/2020 12/4/2017 6/4/2020	N	12/4/2013 12/4/2013 ow Functional 8/28/2017 11/15/2018	
6 Flood Mitigation Ga 7 Impervious Surface 8 Upper Bee Branch C 9 Upper Bee Branch C 10 22nd St Storm Sewe 11 22nd St Storm Sewe 12 22nd St Storm Sewe 13 Flood Mitigation Ma 14 North End Storm Se 15 Water Plant Flood C 16 17th St Storm Sewe	Creek Restoration Inter Replacement Reduction Creek Restoration Creek Restoration (Leer Impr. (Elm to Whiter Impr. (White to Freer Impr. (Francis to Naint. Facility Inter Impr. (Control Control Creek Restoration (Leer Impr. (Francis to Naint. Facility Control Control Control Creek Restoration Creek	te) rancis) N. Main)	12/4/2013 6/4/2015 6/4/2015 12/4/2033 12/4/2016 12/4/2016 6/4/2020 6/4/2020 6/4/2020 12/4/2017 6/4/2020 12/4/2020	N	12/4/2013 12/4/2013 ow Functional 8/28/2017	
6 Flood Mitigation Ga 7 Impervious Surface 8 Upper Bee Branch C 9 Upper Bee Branch C 10 22nd St Storm Sewe 11 22nd St Storm Sewe 12 22nd St Storm Sewe 13 Flood Mitigation Ma 14 North End Storm Se 15 Water Plant Flood C 16 17th St Storm Sewe 17 17th St Storm Sewe	Creek Restoration Inter Replacement Reduction Creek Restoration Creek Restoration (Leer Impr. (Elm to Whiter Impr. (Francis to Naint. Facility Ever Impr. Control Ir Impr. (Pine to Elm Ir Impr. (Elm to Heek Ir Impr. (Elm	te) rancis) N. Main)	12/4/2013 6/4/2015 6/4/2015 12/4/2033 12/4/2016 12/4/2016 6/4/2020 6/4/2020 6/4/2020 6/4/2020 12/4/2017 6/4/2020 12/4/2020	N	12/4/2013 12/4/2013 ow Functional 8/28/2017 11/15/2018	
6 Flood Mitigation Ga 7 Impervious Surface 8 Upper Bee Branch C 9 Upper Bee Branch C 10 22nd St Storm Sewe 11 22nd St Storm Sewe 12 22nd St Storm Sewe 13 Flood Mitigation Ma 14 North End Storm Se 15 Water Plant Flood C 16 17th St Storm Sewe	Creek Restoration Inter Replacement Reduction Creek Restoration Creek Restoration (Leer Impr. (Elm to Whiter Impr. (Francis to Naint. Facility Ever Impr. Control Ir Impr. (Pine to Elm Ir Impr. (Elm to Heek Ir Impr. (Elm	te) rancis) N. Main)	12/4/2013 6/4/2015 6/4/2015 12/4/2033 12/4/2016 12/4/2016 6/4/2020 6/4/2020 6/4/2020 12/4/2017 6/4/2020 12/4/2020	N	12/4/2013 12/4/2013 ow Functional 8/28/2017 11/15/2018	
6 Flood Mitigation Ga 7 Impervious Surface 8 Upper Bee Branch C 9 Upper Bee Branch C 10 22nd St Storm Sewe 11 22nd St Storm Sewe 12 22nd St Storm Sewe 13 Flood Mitigation Ma 14 North End Storm Se 15 Water Plant Flood C 16 17th St Storm Sewe 17 17th St Storm Sewe	Creek Restoration Inter Replacement Reduction Creek Restoration Creek Restoration (Leer Impr. (Elm to Whiter Impr. (Francis to Naint. Facility Inver Impr. (Pine to Elm Impr. (Pine to Elm Impr. (Elm to Heek Itivities	te) rancis) N. Main)	12/4/2013 6/4/2015 6/4/2015 12/4/2033 12/4/2016 12/4/2016 6/4/2020 6/4/2020 6/4/2020 6/4/2020 12/4/2017 6/4/2020 12/4/2020 12/4/2020 12/4/2020	N	12/4/2013 12/4/2013 ow Functional 8/28/2017 11/15/2018	
6 Flood Mitigation Ga 7 Impervious Surface 8 Upper Bee Branch C 9 Upper Bee Branch C 10 22nd St Storm Sewe 11 22nd St Storm Sewe 12 22nd St Storm Sewe 13 Flood Mitigation Ma 14 North End Storm Se 15 Water Plant Flood C 16 17th St Storm Sewe 17 17th St Storm Sewe 18 Project Closeout Ac	Creek Restoration Inter Replacement Reduction Creek Restoration Creek Restoration (Leer Impr. (Elm to Whiter Impr. (Francis to Naint. Facility Inver Impr. (Pine to Elm Impr. (Pine to Elm Impr. (Elm to Heek Itivities	te) rancis) N. Main)	12/4/2013 6/4/2015 6/4/2015 12/4/2033 12/4/2016 12/4/2016 6/4/2020 6/4/2020 6/4/2020 6/4/2020 12/4/2017 6/4/2020 12/4/2020 12/4/2020 12/4/2020	N	12/4/2013 12/4/2013 ow Functional 8/28/2017 11/15/2018	
6 Flood Mitigation Ga 7 Impervious Surface 8 Upper Bee Branch C 9 Upper Bee Branch C 10 22nd St Storm Sewe 11 22nd St Storm Sewe 12 22nd St Storm Sewe 13 Flood Mitigation Ma 14 North End Storm Se 15 Water Plant Flood C 16 17th St Storm Sewe 17 17th St Storm Sewe 18 Project Closeout Acc	Creek Restoration Inter Replacement Reduction Creek Restoration Creek Restoration (Leer Impr. (Elm to Whiter Impr. (White to Freer Impr. (Francis to Naint. Facility Inver Impr. (Pine to Elm Ir Impr. (Elm to Heek tivities Report: Date:	te) rancis) N. Main) D) Jennifer Larson, Director of Budget & Fir	12/4/2013 6/4/2015 6/4/2015 12/4/2033 12/4/2016 12/4/2016 6/4/2020 6/4/2020 6/4/2020 6/4/2020 12/4/2017 6/4/2020 12/4/2020 12/4/2020 12/4/2033	N	12/4/2013 12/4/2013 ow Functional 8/28/2017 11/15/2018	
6 Flood Mitigation Ga 7 Impervious Surface 8 Upper Bee Branch C 9 Upper Bee Branch C 10 22nd St Storm Sewe 11 22nd St Storm Sewe 12 22nd St Storm Sewe 13 Flood Mitigation Ma 14 North End Storm Se 15 Water Plant Flood C 16 17th St Storm Sewe 17 17th St Storm Sewe 18 Project Closeout Acc	Creek Restoration Inter Replacement Reduction Creek Restoration Creek Restoration (Leer Impr. (Elm to Whiter Impr. (White to Freer Impr. (Francis to Naint. Facility Inver Impr. (Pine to Elm Ir Impr. (Elm to Heek tivities Report: Date:	te) rancis) N. Main) Jennifer Larson, Director of Budget & Fir 5/15/2020 bove information is accurate and true, and in accordance with t	12/4/2013 6/4/2015 6/4/2015 12/4/2033 12/4/2016 12/4/2016 6/4/2020 6/4/2020 6/4/2020 6/4/2020 12/4/2017 6/4/2020 12/4/2020 12/4/2020 12/4/2033	N	12/4/2013 12/4/2013 ow Functional 8/28/2017 11/15/2018	
6 Flood Mitigation Ga 7 Impervious Surface 8 Upper Bee Branch C 9 Upper Bee Branch C 10 22nd St Storm Sewe 11 22nd St Storm Sewe 12 22nd St Storm Sewe 13 Flood Mitigation Ma 14 North End Storm Se 15 Water Plant Flood C 16 17th St Storm Sewe 17 17th St Storm Sewe 18 Project Closeout Acc	Creek Restoration Inter Replacement Reduction Creek Restoration Creek Restoration (Leer Impr. (Elm to Whiter Impr. (White to Freer Impr. (Francis to Naint. Facility Ever Impr. (Pine to Elm Fr Impr. (Elm to Heek tivities Report: Date: Date:	Jennifer Larson, Director of Budget & Fir 5/15/2020 bove information is accurate and true, and in accordance with tregulations and policies governing this award. Signature on File	12/4/2013 6/4/2015 6/4/2015 12/4/2033 12/4/2016 12/4/2016 6/4/2020 6/4/2020 6/4/2020 6/4/2020 12/4/2017 6/4/2020 12/4/2020 12/4/2020 12/4/2020 12/4/2020 12/4/2020	N	12/4/2013 12/4/2013 ow Functional 8/28/2017 11/15/2018	
6 Flood Mitigation Ga 7 Impervious Surface 8 Upper Bee Branch C 9 Upper Bee Branch C 10 22nd St Storm Sewe 11 22nd St Storm Sewe 12 22nd St Storm Sewe 13 Flood Mitigation Ma 14 North End Storm Se 15 Water Plant Flood C 16 17th St Storm Sewe 17 17th St Storm Sewe 18 Project Closeout Acc	Creek Restoration Inter Replacement Reduction Creek Restoration Creek Restoration (Leer Impr. (Elm to Whiter Impr. (White to Freer Impr. (Francis to Naint. Facility Ever Impr. (Pine to Elm Fr Impr. (Elm to Heek tivities Report: Date: Date:	Jennifer Larson, Director of Budget & Fir 5/15/2020 bove information is accurate and true, and in accordance with tregulations and policies governing this award.	12/4/2013 6/4/2015 6/4/2015 12/4/2033 12/4/2016 12/4/2016 6/4/2020 6/4/2020 6/4/2020 6/4/2020 12/4/2017 6/4/2020 12/4/2020 12/4/2020 12/4/2020 12/4/2020 12/4/2020	N	12/4/2013 12/4/2013 ow Functional 8/28/2017 11/15/2018	
6 Flood Mitigation Ga 7 Impervious Surface 8 Upper Bee Branch C 9 Upper Bee Branch C 10 22nd St Storm Sewe 11 22nd St Storm Sewe 12 22nd St Storm Sewe 13 Flood Mitigation Ma 14 North End Storm Se 15 Water Plant Flood C 16 17th St Storm Sewe 17 17th St Storm Sewe 18 Project Closeout Acc	Creek Restoration Inter Replacement Reduction Creek Restoration Creek Restoration (Leer Impr. (Elm to Whiter Impr. (White to Freer Impr. (Francis to Naint. Facility Ever Impr. (Pine to Elm Fr Impr. (Elm to Heek tivities Report: Date: Date:	Jennifer Larson, Director of Budget & Fir 5/15/2020 bove information is accurate and true, and in accordance with tregulations and policies governing this award. Signature on File ignature of Authorized Representative or Governmental E	12/4/2013 6/4/2015 6/4/2015 12/4/2033 12/4/2016 12/4/2016 6/4/2020 6/4/2020 6/4/2020 6/4/2020 12/4/2017 6/4/2020 12/4/2020 12/4/2020 12/4/2020 12/4/2020 12/4/2020 12/4/2020 12/4/2020	N	12/4/2013 12/4/2013 ow Functional 8/28/2017 11/15/2018	





City of Dubuque Bee Branch Watershed Flood Mitigation Project Progress Report Narrative (4-30-20)

PROJECT STATUS

While steady progress is being made on multiple phases of the Bee Branch Watershed Flood Mitigation Project, completion of a few of the phases were delayed beyond the milestone dates outlined in the original project application. When the bid for a contract associated with Phase 7 came in \$9 million over budget, the shift in funding necessary to proceed affected the timeline of other phases.

Phase 1 – Carter Road Detention Basin [Complete]

Mowing and debris removal performed as planned.

Phase 2 – W.32nd Street Detention Basin [Complete]

Mowing and debris removal performed as planned. A controlled burn was performed in April of 2017. Sediment removal is planned for the summer of 2020.

Phase 3 – Historic Millwork District [Complete]

Pervious pavements are inspected and cleaned per adopted schedule.

Phase 4 – Lower Bee Branch Creek Restoration [Milestone Completion Date: June of 2015]

In 2017, two of the more significant elements of Phase 4 have been completed: the Lower Bee Branch Creek Basin Overlook and the Lower Bee Branch Floating Islands. The only remaining component is related to the security system network which is currently under contract and scheduled to be complete in the summer of 2020.

The Leisure Services Department continues mowing and trash/debris removal as needed.

Phase 5 – Flood Mitigation Gate Replacement [Milestone Completion Date: June of 2015]

In April of 2017, a series of possible enhancements were proposed by the design engineer that improved access to the facility; an updated, more reliable electrical service; and provided space for the use of additional, temporary pumps to augment the existing, permanent pumps. The estimated cost for the improvements exceeded \$3.3 million, considerably more than the budget. Due to the record rainfalls in 2010 and 2011 that have impacted the Bee Branch Watershed, it was prudent to consider if even the modest improvements were sufficient. Per





the Bee Branch Stormwater Pumping Station Preliminary Engineering Report, five alternative options were evaluated. The preferred alternative includes the:

- Replacement of the existing flood gates;
- Installation of an additional flood gate;
- Replacement of the existing flood pumps and installation of additional pumps;
- Replacement and updating of the electrical service to current standards;
- Installation on an additional back-up generator for the additional pumps to address the needed resiliency being demanded by the storms of recent years, including the July 2017 storm event.

This alternative was chosen because it best addresses the flooding that has been occurring since 1999. It also provides for additional resiliency options as rainstorms increase in both depth and intensity. For example, it provides for additional space for a third culvert from the basin to the Mississippi River. This represents an expanded scope over what was originally proposed in the City's State Flood Mitigation Program application which considered just the replacement of the gates at an estimated cost of \$4,512,464.00.

The City of Dubuque's consulting engineer, IIW PC, has been working to develop and refine the project design for the 16th St. Detention Basin Food Gates project. With the development of the 60% design plans, the cost estimate for the project has increased significantly. The current cost estimate is \$17.1 million. Thus, the project is now estimated at \$15 million over the original budget reflected in the City's application. Therefore, the City sought additional grant funding to offset the cost associated with the expanded scope.

The City was notified by the U. S. Economic Development Administration (EDA) that the City was awarded \$2,500,000.00 in grant funding for the 16th Street Detention Basin Flood Gates Project – the Flood Mitigation Gate & Pump Replacement. With the EDA grant funding, the City costs is \$14.6 million. The current schedule for the improvements is as follows:

Event/Milestone	Date of Completion	
Design improvements for USACE Review/Approval	December 2019	
Submission of Final Plans and Specifications, Construction and Floodplain Permits	April 2020	
Approval of Final Plans/Construction Permitting from USACE	September 2020	
Initiate Bidding	October 2020	
Award of Construction Contract	November 2020	
Construction Start	December 2020	
Construction Completed	February 2022	
Start-up and Commissioning	March 2022	





Phase 6 – Impervious Surface Reduction [Milestone Completion Date: December of 2033]

To date 80 of 240 impervious alleys have been converted into green alley, pervious pavement systems. The \$9.4 million in SRF sponsorship funding has been exhausted as anticipated. The construction of green alley pervious pavement systems will resume in 2020.

The Public Works Department continues to inspect the pervious pavement systems on a semiannual basis, vacuum sweeping them annually and more frequently on an as-needed basis.

Phase 7 – Upper Bee Branch Creek Restoration [Milestone Completion Date: December of 2016]

The improvements were to be bid and constructed under multiple contracts. One contract came in \$9 million over the City budget. Therefore, it looked as if the \$9 million shortfall would delay the bidding and construction of the final Phase 7 improvements involving the installation of culverts through railroad property in order to pass floodwaters from the Phase 7 improvements to the Phase 4, Lower Bee Branch Creek, improvements. But in early 2016, it was announced that the City would receive \$9 million through the HUD National Disaster Resiliency Competition (HUD NDRC) to cover the shortfall associated with Phase 7 of the Bee Branch Watershed Flood Mitigation Project. In order to remain eligible for the \$9 million in HUD funding for the improvements through the railroad property, the City had to wait until a grant agreement between HUD and the State and an agreement between the State and the City was in place. This was accomplished in October of 2016. In March of 2017, in accordance with HUD requirements, the City executed a new contract with the City's consulting engineers to provide engineering design services for the improvements through the railroad property. And in June of 2017, the City Council authorized the hiring of Ahlers & Cooney law firm to provide legal services pertaining to the negotiations with the owner of the railroad, Canadian Pacific (CP) and other property acquisitions necessary for the improvements. Since then, the engineering work required to produce the final design plans was initiated. In July of 2017, the City and CP executed the Amended and Substituted Service Agreement reflecting the current approach to install the tunneled culvert system and establishing a new expiration date of December 31, 2018.

In February of 2019, the City awarded the construction contract for the Upper Bee Branch Creek Railroad Culverts Project in the amount of \$25,900,000.00, which was 1.24% over the engineer's estimate. The Upper Bee Branch Creek Railroad Culverts Project (Project) represents the final contract associated with the Bee Branch Creek Restoration Project (Phase 4 & 7 of the Bee Branch Watershed Flood Mitigation Project). The improvements will allow for the efficient flow of floodwaters from the recently completed upper Bee Branch Creek improvements, through the railroad yard on Garfield Avenue, to the lower Bee Branch Creek. Project elements





include the installation of six, 8-foot diameter culverts under the railroad tracks using tunneling methods. This allows for the railroad operation to continue unimpeded during the construction project. In addition to the culverts under the railroad tracks, the Project includes the extension of the box culverts installed under Garfield Avenue as part of the upper Bee Branch Creek improvements to a new buried junction chamber, or transition structure where the flow from the upper Bee Branch Creek will join with flow from the Bee Branch storm sewer from Pine Street. The combined flow will then flow under the railroad tracks through the tunneled pipes mentioned previously into the lower Bee Branch Creek. An outfall structure will be constructed where the water will flow into the lower Bee Branch Creek. This will include a headwall for the culverts, a flood gate with pump station to control the depth of water in the upper Bee Branch Creek, topped by a concrete pad that will allow access to the culverts and gate from above while also providing a plaza area for citizens to overlook the lower Bee Branch Creek. The Project also incorporates the existing box culverts underneath the railroad tracks into the flood control system. With construction underway, it is scheduled to be complete by July 1, 2021.

Phase 8 – 22nd St/Kaufmann Ave Storm Sewer Impr. [Milestone Completion Date: December of 2016]

Engineering consultants are under contract designing the improvements for the entire stretch of the project limits. The construction contract for the first segment of the improvements, from Elm Street to White Street, was awarded in April of 2018 in the amount of \$2,548,366.71. It is now complete. The construction contract for the final segment, from White Street to Francis Street, was awarded in March of 2019 in the amount of \$2,349,054.47. Construction of the underground improvements is complete. Final paving and landscaping will be complete in the spring of 2020.

Phase 9 – Flood Mitigation Maintenance Facility [Milestone Completion Date: June 2020]

The City has purchased the two properties required for the facility. Site clearing activities are under way, first addressing the environmental issues with the property. The City has been working with the US EPA to develop the scope of the cleanup activities for the brownfield site. The site has also been enrolled in the Iowa Department of Natural Resources voluntary Land Recycling Program. Cleanup of the easterly property is now complete. Cleanup activity of the westerly property will begin in 2020 and is expected to be complete by October of 2021. Design of the maintenance facility will follow completion of the cleanup activity.

Phase 10 – North End Storm Sewer Improvements [Milestone Completion Date: December 2017]

This phase of the project has been delayed in conjunction with the delays associated with Phase 4 and Phase 7 as they must be completed first.





Phase 11 – Water Plant Flood Control [Milestone Completion Date: June 2020]

The USACE created a sophisticated computer model that can predict the depth of inundation, time to inundation, and inundation paths at critical infrastructure for hypothetical levee breach scenarios. The USACE levee breach analysis was not initiated because of any known imminent risk of failure to the levee protecting Dubuque, but instead as an effort to improve emergency planning and communication of the potential risks associated with the levee. The main goal of their work was to further advance the USACE's new computer software tool [HEC-RAS 5.0]. It also helped to further their mission to ensure that the public understands the risks of "living behind a levee." In 2015, the City hired engineering consultant HDR to advance the 2-D modeling work started by the USACE. HDR refined the model by adding break lines to better match the existing terrain, spatially varied flow path characteristics, and incorporated the existence of buildings within the model. The City will be able to utilize the model when designing the flood control/prevention system to protect the City's sole potable water treatment plant from flooding. The modeling and study is complete and will aid in the design of the water plant flood protection system.

Phase 12 – 17th St/W. Locust Storm Sewer Impr. [Milestone Completion Date: December 2020]

The first segment, between Pine Street and Elm Street, was completed in late 2017 for \$1,155,286.32. The second and final segment, between Elm Street and Heeb Street is also now complete at a construction contract cost of \$3,720,555.75.