



**STATE OF IOWA
FLOOD MITIGATION PROGRAM
PROGRESS REPORT**

PERIOD COVERED BY THIS REPORT	11/1/2017	to	4/30/2018
LOCAL CONTACT NAME:	Teri Goodmann		
GOVERNMENTAL ENTITY:	City of Dubuque		
ADDRESS:	50 West 13th Street		
	Dubuque, IA 52001		
TELEPHONE NUMBER:	563-589-4110		
PROJECT TITLE:	Bee Branch Watershed Flood 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:	\$ 25,498,640	\$ 51,144,409	\$ 29,139,589	\$ 105,782,638
PROJECT OVERRUN/ (UNDERRUN):	\$ 9,257,916	\$ 25,534,393	\$ 69,354,589	\$ 104,146,898

The percentage of actual work that has been completed at the end of the reporting period (not a % of funds expended) **58%**

The estimated cost of the project at completion (which may even exceed the awarded amount) **\$ 248,242,053**

Type of Expense & Funding Source	Budget (from Application)	Federal Local or State	Total Expended to Date	Remaining Balance
Engineering/Contractual Services:	\$ 17,817,601			
Carter Road Detention Basin - General Obligation Bonds		Local/State	\$ 560,230	
West 32nd Street Detention Basin - U.S. EPA State Revolving Funds		Federal	\$ 115,164	
West 32nd Street Detention Basin - Stormwater Utility Fees		Local/State	\$ 36,242	
West 32nd Street Detention Basin - General Obligation Bonds		Local/State	\$ 844,275	
Historic Millwork District - General Obligation Bonds		Local/State	\$ 225,430	
Historic Millwork District - Stormwater Utility		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 State Revolving Funds		Federal	\$ 338,003	
Lower Bee Branch Engineering - Stormwater Utility		Local/State	\$ 1,592,959	
Upper Bee Branch Creek Engineering - State Sales Tax Increment Bond		Local/State	\$ 4,467,072	
Upper Bee Branch Creek Legal Services- State Sales Tax Increment Bond		Local/State	\$ 167,013	
Upper Bee Branch Creek Engineering - Stormwater Utility Fees		Local/State	\$ 2,376,951	
Upper Bee Branch Creek Engineering - General Obligation Bond		Local/State	\$ 1,173,197	
Upper Bee Branch Creek Engineering - U.S. EPA State Revolving Funds		Federal	\$ 7,132,612	
Flood Mitigation Maintenance Facility Design - State Sales Tax Increment Bond		Local/State	\$ 127,772	
Flood Mitigation Gate Replacement - State Sales Tax Increment Bond		Local/State	\$ 76,038	
17th Street/West Locust Storm Sewer Engineering - Sales Tax Increment Bond		Local/State	\$ 10,399	
Impervious Surface Reduction - U.S. EPA State Revolving Funds		Federal	\$ 1,659,739	

Impervious Surface Reduction - City Funds non-stormwater		Local/State	\$	-	
	TOTAL		\$	22,255,542	\$ (4,437,941)
Property Acquisition & Easement:	\$ 19,301,143				
Carter Road Detention Basin - Purchase/Deconstruction - Stormwater 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 Housing - Storm Water Utility Fees		Local/State	\$	1,157,577	
Lower and Upper Bee Branch Creek -Purchase/ Deconstruction/ Maintenance of Housing - General Obligation Bonds		Local/State	\$	13,676,887	
Upper Bee Branch Creek -Purchase/ Deconstruction/ Maintenance of Housing - State Sales Tax Increment Bond		Local/State	\$	2,034,090	
17th Street/West Locust Storm Sewer Property Acquisition/Easements - Sales Tax Increment Bond		Local/State	\$	-	
Flood Mitigation Maintenance Facility - Purchase/ Deconstruction/ Maintenance of Housing - State Sales Tax Increment Bond		Local/State	\$	350,192	
	TOTAL		\$	19,504,292	\$ (203,149)
Construction:	\$ 139,593,792				
Carter Road Detention Basin - General Obligation Bonds		Local/State	\$	749,062	
West 32nd Street Detention Basin - U.S. EPA State Revolving Funds		Federal	\$	1,711,836	
Historic Millwork District - General Obligation Bonds		Local/State	\$	1,649,072	
Historic Millwork District - TIGER Grant		Local/State	\$	5,600,000	
Lower Bee Branch - State Sales Tax increment		Local/State	\$	31,435	
Lower Bee Branch - U.S. EPA State Revolving Funds		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	
Lower Bee Branch - Storm Water Utility		Local/State	\$	1,020,966	
Lower Bee Branch - Repair lightning damage - State Sales Tax Increment Bond		Local/State	\$	658	
Construction Trailer - State Sales Tax Increment Bond		Local/State	\$	17,670	
Upper Bee Branch Creek Construction - State Sales Tax Increment Bond		Local/State	\$	17,050,777	
Upper Bee Branch Creek Construction - U.S. EPA State Revolving Funds		Federal	\$	22,408,388	
Upper Bee Branch Creek Construction - DMATS		Local/State	\$	940,000	
Upper Bee Branch Creek Construction - RECAT		Local/State	\$	2,060,858	
Upper Bee Branch Creek Construction - EDA		Federal	\$	1,227,138	
Upper Bee Branch Creek Construction - NSB		Local/State	\$	1,000,000	
Upper Bee Branch Creek Construction - SRT		Local/State	\$	100,000	
17th Street/West Locust Storm Sewer Construction - Sales Tax Increment Bond		Local/State	\$	428,671	
Impervious Surface Reduction - U.S. EPA State Revolving Funds		Federal	\$	7,704,321	
Impervious Surface Reduction - State Sales Tax Increment		Local/State	\$	1,383,448	
Impervious Surface Reduction - City Funds non-stormwater		Local/State	\$	-	
	TOTAL		\$	75,812,378	\$ 63,781,414

Contingency:	\$	11,337,000			
				\$	-
				\$	-
				\$	11,337,000
Financing Interest:	\$	21,880,000			
Carter Road Detention Basin GO Bond				\$	839,909
W. 32nd Street Detention Basin SRF Loan				\$	493,312
Lower Bee Branch Creek SRF Loan				\$	1,540,142
Lower Bee Branch GO Debt				\$	4,243,094
Green Alley SRF Debt				\$	399,281
Historic Millwork District - General Obligation Bonds				\$	1,360,144
Sales Tax Increment Bond Series 2014A				\$	1,117,388
Sales Tax Increment Bond Series 2015A				\$	1,876,966
Upper Bee Branch Creek SRF loan				\$	899,146
				\$	
				\$	12,769,382
				\$	9,110,618
Total Project Budget Summary	\$	209,929,536		\$	130,341,594
				\$	79,587,942
FUNDING SOURCE:		FEDERAL (from Application)	LOCAL (from Application)	STATE (from Application)	Total Expended to Date
U.S. EPA Clean Water SRF	\$	49,021,052			\$ 48,763,136
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			\$ 3,965,500		\$ 3,695,500
RECAT Grant			\$ 2,250,000		\$ 3,081,824
U.S. DOT National Scenic Byways Grant			\$ 1,000,000		\$ 1,000,000
State Recreational Trail Grant			\$ 100,000		\$ 100,000
DMATS			\$ 940,000		\$ 940,000
General Obligation Bonds			\$ 48,227,604		\$ 21,022,866
Private Donations			\$ 165,244		\$ 207,875
Sale of Assets and Land			\$ 336,358		\$ 585,802
Stormwater Utility Fees			\$ 14,394,096		\$ 14,910,542
Sanitary Sewer Fees					\$ -
U.S. EPA Clean Water SRF (repayment)	\$	(24,491,634)		\$ 24,491,634	\$ -
Sales Tax Increment				\$ 74,002,544	\$ 29,139,589
Total Project Funding Source	\$	25,756,556	\$ 76,978,802	\$ 98,494,178	\$ 130,274,272
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 2015A)		3.78%	6/15/15-6/1/31	\$ 110,950	\$ 20,637,011
NON-PUBLIC INVESTMENT - Entity					Total to Date
Gronen Restoration & Tennant Modifications - Caradco Building - Millwork District					\$ 33,000,000
Novelty Ironworks - 333 E. 10th Street - Ryan Derks					\$ 20,760,000
Residential Improvements/Additions - (Various see Attachment B)					\$ 20,608,296
Rainbo Oil - 1260 E. 16th Street					\$ 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 Central					\$ 1,910,000
Bethany Home - 1005 Lincoln Ave - Addition					\$ 1,886,000
Commercial Improvements - (Various see Attachment B)					\$ 1,819,147
Walgreens - 345 E 20th St					\$ 1,004,390
Gronen Restoration - Betty Building - 151 E. 9th Street					\$ 1,000,000
M & M Schultz Properties LLC - 3422 Asbury Road					\$ 575,600
Salvia House LTD - 196 Kaufmann					\$ 523,000

Gronen Restoration - St. Mary's Campus - 15th & White Street	\$ 400,000
Weaver Castle - 324 - 326 W Locust Street	\$ 400,000
Weaver Castle - 407-409 Loras Blvd	\$ 400,000
Emmaus Bible School - 2570 Asbury Road	\$ 290,000
Davis Place Apartments - 601 Garfield	\$ 232,440
Dubuque Furniture & Flooring	\$ 100,000
Rusk Building - 1104 White Street	\$ 16,500
Nottingham Properties - 485 Locust Street	\$ 12,500
Richards or High Building - Central	\$ 6,800
Total Non-Public Investment	\$ 103,395,673

Project Status- entire project (Check One)	Description of significant activities this semi-annual term . Include comparison of actual accomplishments to the objectives identified in your application. Attach pictures and a narrative. Status changes or delays, please explain reason.
<input type="checkbox"/> On Schedule	Please see the attached project update.
<input checked="" type="checkbox"/> Delayed	
<input type="checkbox"/> Canceled	
<input type="checkbox"/> Completed	
<input type="checkbox"/> Suspended	

Application Work Schedule (Milestones)			Milestone Status
#	Description:	Submitted Completion Date:	Actual Completion Date:
1	Receive Grant Agreement from FMP	2/4/2014	12/4/2013
2	Carter Road Detention Basin	12/4/2013	12/4/2013
3	W. 32nd Street Detention Basin	12/4/2013	12/4/2013
4	Historic Millwork District	12/4/2013	12/4/2013
5	Lower Bee Branch Creek Restoration	6/4/2015	
6	Flood Mitigation Gate Replacement	6/4/2015	
7	Impervious Surface Reduction	12/4/2033	
8	Upper Bee Branch Creek Restoration	12/4/2016	
9	22nd St Storm Sewer Impr.	6/4/2020	
10	Flood Mitigation Maint. Facility	6/4/2020	
11	North End Storm Sewer Impr.	12/4/2017	
12	Water Plant Flood Control	6/4/2020	
13	17th St Storm Sewer Impr.	12/4/2020	
14	Project Closeout Activities	12/31/2033	

Person Completing this Report:	Jennifer Larson, Budget Director
Date:	5/15/2018
I, the undersigned, hereby certify that the above information is accurate and true, and in accordance with the approved project plan and state and federal regulations and policies governing this award.	
Jennifer Larson	
Signature of Authorized Representative or Governmental Entity	

City of Dubuque Bee Branch Watershed Flood Mitigation Project Progress Report Narrative (4-30-18)

FUNDING STATUS

The financial Progress Report for the period 11-1-17 to 4-30-18 reflects some corrections to expenses reflected in the prior reporting period report.

The State “total funds expended to date” reported for the period 5-1-17 to 10-31-17 was overstated at the very top summary based on a formula error in that cell. It was summing a cell in the State column from the “Funding Source” table at the end of the report, instead of only the “Total Expended to Date” column. This has been corrected in the current report.

Under the Construction Heading, the amount reported for the “Impervious Surface Reduction – U.S. EPA State Revolving Loan Funds” (AKA \$9.4 Green Alleys) was overstated by \$1,659,734 as it included the engineering expenses which were already accounted for under the Engineering Heading.

Under the Construction Heading, the amount reported for the “Upper Bee Branch U.S. EPA State Revolving Funds”, was overstated by \$612,727.00. The “Planning & Design Loan Payoff” from the loan proceeds was misunderstood and reported as a construction cost when it was an engineering cost already reported under the Engineering Heading.

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.

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 measures to be complete in 2018.

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

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

Two conceptual designs have been advanced: simple replacement of what currently exists and an enhanced design that would increase operator access to the gate's riverside infrastructure for maintenance and also provide for the setup of supplemental emergency pumping equipment. The enhanced alternative would also allow additional outflow of stormwater from the basin to the river under some circumstances without supplemental pumping. The City is interested in input from the U.S. Army Corps of Engineers (USACE). In April of 2017, the City sent a request to the USACE requesting "federal project of interest" eligibility for potential improvements associated with the gate and pump station. If successful, the USACE would take up the engineering analysis and possibly outline additional enhancement options. The letter (and request) is currently in the ranking process and is eligible as a "new start" at the national level. With the recent adoption of the federal spending bill in late March of 2018, feedback from the USACE is expected regarding their potential involvement with the project. Pending USACE involvement, the City hopes to complete the work by 2020.

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 following the bidding of the final contract for Phase 7 of the project.

The Public Works Department continues to inspect the pervious pavement systems on a semi-annual basis, vacuum sweeping them annually and 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. The goal is to be ready to bid the remaining Phase 7 contract in mid-2018. It is likely that it will take until the end of 2019 to install the culverts through the railroad property and complete the Upper Bee Branch Creek Restoration improvements.

Phase 8 – 22nd St/Kaufmann Ave Storm Sewer Improvement [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. Bidding of the second segment is anticipated later in 2018 for construction in 2019 and 2020. All of the improvements are to be complete by the spring of 2021.

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.

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 to be complete in the summer of 2018.

Phase 12 – 17th St/W Locust Storm Sewer Improvement [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 segment, between Elm Street and Heeb Street is currently out for bid. With an estimated cost of \$4,727,512.00, the work is expected to start in 2018 and be finished in 2019. Engineering and design continues on the preparation of the construction plans for the remaining improvements for the entire stretch of the project limits.

Dubuque PR 4-30-18 Project Update

Phase 8 – 22nd St./Kaufmann Ave. Storm Sewer Improvements



Construction underway on first segment from Elm Street to White Street

Phase 12 – 17th St/W Locust Street Storm Sewer Improvements



Construction of box culvert improvements in fall of 2017



Large capacity intakes installed west of Elm Street