



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

PERIOD COVERED BY THIS REPORT: 1/1/2014 to 10/31/2014  
 LOCAL CONTACT NAME: Ellen Habel, Asst. City Administrator  
 GOVERNMENTAL ENTITY: City of Coralville, IA  
 ADDRESS: 1512 7th Street  
 Coralville, IA 52241  
 TELEPHONE NUMBER: 319-248-1700  
 PROJECT TITLE: City of Coralville Flood Mitigation Program Project  
 AGREEMENT NUMBER: 2013-0  
 ACTIVITY COMPLETION TIMEFRAME: 12/4/2013 to 12/31/2017

|  | FEDERAL      | LOCAL        | STATE        | TOTAL         |
|--|--------------|--------------|--------------|---------------|
| TOTAL FUNDS APPROVED:  | \$ 8,546,161 | \$ 5,204,498 | \$ 9,769,000 | \$ 23,519,659 |
| TOTAL FUNDS EXPENDED TO DATE:  | \$ 8,546,161 | \$ 5,204,498 | \$ 68,424    | \$ 13,819,083 |
| PROJECT OVERRUN/ (UNDERRUN):   | \$ -         | \$ -         | \$ 9,700,576 | \$ 9,700,576  |
| The percentage of actual work that has been completed at the end of the reporting period (not a % of funds expended) |              |              |              | 55%           |
| The estimated cost of the project at completion (which may even exceed the awarded amount)                           |              |              |              | \$ 23,519,659 |

| Type of Expense & Funding Source   | Budget (from Application) | Federal/ Local/State | Total Expended to Date | Remaining Balance |
|--|---------------------------|----------------------|------------------------|-------------------|
| <b>Engineering/Contractual Services:</b>   | \$ 2,099,482              |                      |                        |                   |
| 5th Street Elevation Design--Sales Tax Increment   |                           | State                | \$ 68,424              |                   |
| Design & Construction Admin: Storm Water Pump Stations, Storm Sewers, Sanitary Sewer Lift Station Flood Protection--CDBG |                           | Local / Federal      | \$ 1,449,482           |                   |
| <b>TOTAL</b>   |                           |                      | \$ 1,517,906           | \$ 581,576        |
| <b>Property Acquisition &amp; Easements:</b>   | \$ 4,018,183              |                      |                        |                   |
| Acquisitions & Easements for Pump Stations, Storm Sewers, Lift Station--CDBG   |                           | Local / Federal      | \$ 488,700             |                   |
| Acquisitions & Easements for Berms--Local  |                           | Local                | \$ 1,332,483           |                   |
| <b>TOTAL</b>   |                           |                      | \$ 1,821,183           | \$ 2,197,000      |
| <b>Construction:</b>   | \$ 17,033,015             |                      |                        |                   |
| Pump Stations, Storm Sewers, Sanitary Sewer Lift Station Flood Protection--CDBG  |                           | Local / Federal      | \$ 6,573,925           |                   |
| Berms, Clear & Biscuit Creek--Local  |                           | Local                | \$ 200,000             |                   |
| Berms & Flood Walls, Clear & Biscuit Creek--IJOBSII  |                           | Local                | \$ 3,657,090           |                   |
| <b>TOTAL</b>   |                           |                      | \$ 10,431,015          | \$ 6,602,000      |
| <b>Utility Relocations</b>   | \$ 368,979                |                      |                        |                   |
| Pump Station, Sanitary Sewer Lift Station Flood Protection--CDBG   |                           | Local / Federal      | \$ 48,979              |                   |
| <b>TOTAL</b>   |                           |                      | \$ 48,979              | \$ 320,000        |
|  | \$ -                      |                      |                        |                   |
|  |                           |                      | \$ -                   |                   |

|   |  |   |                                     |                                   |
|---|--|---|-------------------------------------|-----------------------------------|
|   |  |   | \$ -                                |                                   |
| TOTAL   |  |   | \$ -                                | \$ -                              |
|   | \$ -   |   |                                     |                                   |
|   |  |   | \$ -                                |                                   |
| TOTAL   |  |   | \$ -                                | \$ -                              |
| <b>Total Project Budget Summary</b>                   | <b>\$ 23,519,659</b>   |   | <b>\$ 13,819,083</b>                | <b>\$ 9,700,576</b>               |
| <b>FUNDING SOURCE:</b>                                | <b>FEDERAL<br/>(from Application)</b>  | <b>LOCAL<br/>(from Application)</b>         | <b>STATE<br/>(from Application)</b> | <b>Total Expended to<br/>Date</b> |
| City of Coralville                                    |  | \$ 1,547,408                                |                                     | \$ 1,547,408.00                   |
| CDBG  | \$ 8,546,161   |   |                                     | \$ 8,546,161.00                   |
| I-Jobs II   |  | \$ 3,657,090                                |                                     | \$ 3,657,090.00                   |
| Sales Tax Increment                                   |  |   | \$ 9,769,000                        | \$ 68,424.00                      |
|   |  |   |                                     | \$ -                              |
|   |  |   |                                     | \$ -                              |
|   |  |   |                                     | \$ -                              |
|   |  |   |                                     | \$ -                              |
|   |  |   |                                     | \$ -                              |
|   |  |   |                                     | \$ -                              |
|   |  |   |                                     | \$ -                              |
|   |  |   |                                     | \$ -                              |
|   |  |   |                                     | \$ -                              |
|   |  |   |                                     | \$ -                              |
| <b>Total Project Funding Source</b>                   | <b>\$ 8,546,161</b>  | <b>\$ 5,204,498</b>                         | <b>\$ 9,769,000</b>                 | <b>\$ 13,819,083.00</b>           |
| <b>Indebtedness Incurred<br/>(Bonds, etc.)</b>        | <b>Rate of<br/>Interest</b>  | <b>Length of Term<br/>(start &amp; end)</b> | <b>Costs of<br/>Issuance</b>        | <b>Net Proceeds</b>               |
| None  | 0.00%  |   | \$ -                                | \$ -                              |
|   | 0.00%  |   | \$ -                                | \$ -                              |
|   | 0.00%  |   | \$ -                                | \$ -                              |
| <b>NON-PUBLIC INVESTMENT - Entity</b>                 |  |   |                                     | <b>Total to Date</b>              |
|   |  |   |                                     | \$ -                              |
|   |  |   |                                     | \$ -                              |
|   |  |   |                                     | \$ -                              |
| <b>Total Non-Public Investment</b>                    |  |   |                                     | <b>\$ -</b>                       |
| <b>Project Status- entire<br/>project (Check One)</b> | <b>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.</b>   |   |                                     |                                   |
| <input type="checkbox"/> On Schedule                  | <p>The City has contracted with HR Green Co. for engineering and design services. Design survey and preliminary design are complete, and final design continues for the 5th Street elevation. Coordination with utility companies and property owners is underway. Although the project is delayed from the proposed schedule, the design will be finalized by 12/31/14, with bid letting in 2/15, and construction in the summer of 2015, allowing the project to be completed on schedule.</p> |   |                                     |                                   |
| <input checked="" type="checkbox"/> Delayed           |  |   |                                     |                                   |
| <input type="checkbox"/> Canceled                     |  |   |                                     |                                   |
| <input type="checkbox"/> Completed                    |  |   |                                     |                                   |
| <input type="checkbox"/> Suspended                    |  |   |                                     |                                   |
| <b>Application Work Schedule (Milestones)</b>         |  |   | <b>Milestone Status</b>             |                                   |

| # | Description:                   | Submitted Completion Date: | Anticipated / Actual Completion Date: |
|---|--------------------------------|----------------------------|---------------------------------------|
|   | Phase II, 5th Street Elevation |                            |                                       |
| 1 | Design                         | 5/1/2014                   |                                       |
| 2 | Acquisitions & Permitting      | 7/1/2014                   |                                       |
| 3 | Bid Process                    | 9/1/2014                   |                                       |
| 4 | Award of Contract              | 10/1/2014                  |                                       |
| 5 | Construction                   | 3/1/2015                   |                                       |
|   | Phase II, Flood Walls          |                            |                                       |
| 1 | Design                         | 7/1/2015                   |                                       |
| 2 | Acquisitions & Permitting      | 10/1/2015                  |                                       |
| 3 | Bid Process                    | 12/1/2015                  |                                       |
| 4 | Award of Contract              | 1/1/2016                   |                                       |
| 5 | Construction                   | 12/31/2017                 |                                       |
|   |                                |                            |                                       |
|   |                                |                            |                                       |

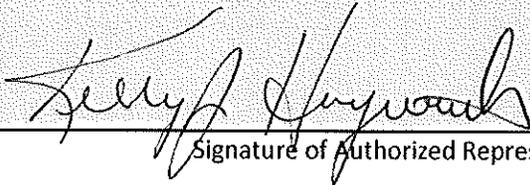
Person Completing this Report:

Ellen Habel

Date:

11/13/2014

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.



Signature of Authorized Representative or Governmental Entity

**Instructions to complete this form**

Areas shaded  are to be completed by State HSEMD Personnel.

Areas shaded  are to be completed by the governmental entity or authorized administrator.

**City of Coralville, Iowa**  
**Report 1**  
**Fall 2014**

The City of Coralville was awarded funds through the Flood Mitigation Program for a two-phase project.

**PHASE I:**

**New storm water pump station located at 209 2<sup>nd</sup> Street**

A new storm water pump station at the former site of Movies to Go/Movie Gallery is located on the existing 42-inch storm sewer outlet pipe at the north end of the parking lot behind the store at 211 2nd Street/Highway 6. All existing and future storm sewers between Highway 6 and Clear Creek, as well as most south of Highway 6, are directed to the new pump station. The internal weir of the pump station is built to an elevation of 662.8. A sluice gate and duckbill on the 42-inch outlet pipe protects the upstream storm sewer system. The estimated 70 cubic feet per second peak flow pump capacity reflects the 10-year design flow for the drainage area.

**New storm water pump station located at 300 3<sup>rd</sup> Avenue**

A second new storm water pump station is located on City property just northeast of the confluence of Biscuit Creek and Clear Creek. A gate structure on the west bank of Biscuit Creek protects the storm sewer system west of Biscuit Creek and north of Clear Creek from flood water backup. In the event of gate closure, a 48-inch pipe below Biscuit Creek directs storm sewer flows to the storm water pump station. All existing and future storm sewers east of Biscuit Creek are directed to the pump station. The internal weir of the pump station is built to an elevation of 662.4. A sluice gate and duckbill on the 72-inch inlet/outlet pipes protect the upstream storm sewer system. The 200 cubic feet per second peak flow pump capacity reflects the estimated 10-year design flow for the drainage areas both east and west of Biscuit Creek, assuming typical commercial redevelopment.

**4<sup>th</sup> Avenue Storm Sewer Work**

The interior storm sewer system on the west side of Biscuit Creek has been reconfigured to direct flow away from the flood protection area and to the collection system on 4th Avenue, where it is accessible to the City for maintenance. The storm water is piped south and east to the Biscuit Creek west gate structure. Within the structure, two sluice gates perform as follows: the first closes the 60-inch reinforced concrete pipe gravity outlet to Biscuit Creek and protects the upstream storm water system from high water elevations on Clear Creek or Biscuit Creek; the second gate opens simultaneously when the first is closed and allows storm water to flow in a pipe below Biscuit Creek to the Biscuit Creek storm water pump station on the east bank at 300 3<sup>rd</sup> Avenue. This design allows the entire Biscuit Creek area to be served by a single pump station. The storm sewer system west of Biscuit Creek is protected with the proposed Biscuit Creek west gate structure and Biscuit Creek storm water pump station.

**Flood Walls and Berms**

Along the north bank of Clear Creek from Highway 6 to the west bank of Biscuit Creek, approximately 490 feet of 3-foot high removable flood wall and the associated storm sewer work has been constructed. Along the west bank of Biscuit Creek from Clear Creek to 5th Street, a portion of the flood walls were incorporated with the construction of private residential condominiums with an additional 66 feet of 4.7-foot high permanent flood wall to connect from the condominiums into an earthen berm. The remainder of the flood protection to 5<sup>th</sup> Street is approximately 400 feet of 4.7-foot high earthen berm.

For the east bank of Biscuit Creek from 5th Street to Clear Creek, in coordination with a private redevelopment, flood protection includes approximately 800 feet of 7 to 8-5-foot high earthen berm. The Biscuit Creek Retention Ponds slow the flow of water from Biscuit Creek into Clear Creek to reduce flooding and improve water quality in Biscuit Creek, Clear Creek, and the Iowa River.

On the north bank of Clear Creek from Biscuit Creek to 1st Avenue, private redevelopment has also included approximately 710 feet of 7 to 13-foot high berm from the storm water pump station on 3<sup>rd</sup> Avenue to 1st Avenue. The 3<sup>rd</sup> Avenue sanitary sewer lift station has been raised to provide flood protection.

## **PHASE II:**

### **Permanent and Removable Flood Walls**

On the south bank of Clear Creek from Highway 6 to 1<sup>st</sup> Avenue, the bank ranges in elevation from 650 to 656, requiring from 4.7 to 8.7 feet of protection. A series of permanent and removable flood walls of nearly 1,500 feet in length, with the permanent concrete walls protecting to at least the 100-year flood elevation, will be constructed. The removable flood walls are designed to be installed on top of the permanent flood walls to provide protection to the 2008 flood elevation plus 1 foot.

The removable walls consist of 11 inch high by 2.5 inch wide by 20 foot long aluminum panels with rubber gasket seals on the bottom of the panels. Support beams are bolted to embeds in the permanent concrete walls at 10 foot intervals. The aluminum panels weigh 110 pounds each so can be easily be installed by 2 workers. The panels are stacked one on top of another to obtain the desired flood protection elevation. The system is modular so that additional panels can be added at any time if additional protection height becomes necessary. The City has installed over 2,500 lineal feet of this combination of permanent and removable flood walls. Through coordination with other local governments and the U.S. Army Corps of Engineers regarding outflows on the Coralville Reservoir during times of elevated water levels, staff will have time to install the removable walls in affected areas.

### **5<sup>th</sup> Street Elevation for Flood Protection**

Biscuit Creek passes under 5<sup>th</sup> Street, a major east-west collector street, just north of Clear Creek. The street is also a significant element of several Coralville Transit routes so it is essential for public transportation. Elevating 5th Street at Biscuit Creek will prevent flooding in the area and allow 5th Street to remain open during flood events. The elevation of 5th Street will consist of the removal and replacement of approximately 730 lineal feet of Portland cement concrete (PCC) paving of 5th Street, a new PCC box culvert, new storm sewer system, impervious embankment fill, and pedestrian walks. This project will raise 5th Street in elevation up to 7.6 feet.

### **Progress Update:**

**Phase I:** In the months since the City of Coralville was awarded funds through the Flood Mitigation Program, all remaining work on Phase 1 flood improvements has been completed.

**Phase II:** The City is completing the 5<sup>th</sup> Street Elevation portion of the project as the first portion of Phase II. The City has contracted with HR Green Company for engineering and design services. Design survey and preliminary design are complete, with final design to be complete by December 31, 2014. The City is also in the midst of coordination with utility companies, including

Windstream, MidAmerican Energy, South Slope, and MediaCom, for necessary relocations, and property owners for necessary easements and acquisitions.

The project is somewhat delayed; however, with final design to be complete by December 31, bid letting will occur in February, and construction will begin in March, eliminating the built-in delay in the proposed schedule that occurred because of the winter months. By April 2015, the project is expected to be back on schedule.

There have not been any material changes to the project. As work thus far has been in design, photos are not available but will be submitted when construction work begins.

Because Coralville is proceeding on a "pay-as-you-go" schedule, using sales tax increment proceeds as they are generated rather than bonding for the entire project, the flood wall portion of Phase II is not scheduled to begin until later in 2015.