

Grantee: Shelby County, TN

Grant: B-13-US-47-0002

October 1, 2017 thru December 31, 2017 Performance



Grant Number:

B-13-US-47-0002

Obligation Date:**Award Date:****Grantee Name:**

Shelby County, TN

Contract End Date:**Review by HUD:**

Submitted - Await for Review

Grant Award Amount:

\$60,445,163.00

Grant Status:

Active

QPR Contact:

Alfred Garrett

LOCCS Authorized Amount:

\$60,445,163.00

Estimated PI/RL Funds:

\$0.00

Total Budget:

\$60,445,163.00

Disasters:

Declaration Number

No Disasters Found

Narratives

Executive Summary:

Utilizing URN identified in Phase 1 of the NDR Competition and additional refined data compiled during Phase 2 of the NDR Competition, Shelby County will expend a total of \$60,445,163.00 in CDBG-NDR funds in Phase 3 of the NDR application to implement and develop long-term resilience strategies to fortify the county against future floods by "MAKING ROOM FOR THE RIVER" within Shelby County and the Region. Copies of the NDR application documents can be found at www.resilientshelby.com Also, as described in the NDR Phase 2 application, both Memphis and Shelby County are committed to carrying out Fair Housing activities. Shelby County's Department of Housing, a partner team member in the NDR application, is the County agency operating HUD Community Planning and Development (CPD) entitlement grants and oversees housing programs which directly impact LMI residents which include infrastructure development, housing rehabilitation/construction, down payment assistance, lead-based paint hazard reduction, CDBG Disaster Recovery activities, and fair housing counseling. Likewise, the City of Memphis, a partner in the NDR application operates similar activities through its Division of Housing and Community Development. Both agencies are currently working to promote Fair Housing and Fair Housing Initiatives under their Fair Housing Assessments. Additionally, as part of the GREENPRINT, the Memphis Shelby County Office of Sustainability completed a Fair Housing Equity Assessment (FHEA) in partnership SCDH, HCD, community and business leaders and other housing partners and addressed fair housing impediments under the Greenprint and recommended various solutions to improve fair housing education and compliance. Under the NDR grant, Shelby County will continue to promote and further Fair Housing utilizing the Shelby County Department of Housing, Memphis HCD, and the Greenprint's FHEA to further assess Fair Housing impediments and incorporate Fair Housing initiatives into the NDR Resiliency Plan and the NDR projects in North (Big Creek), Central (Wolf River Greenway), and South (Cypress Creek) Shelby County. Currently, efforts are underway by Memphis and Shelby County to develop a new AFH Plan under new Fair Housing guidelines by 2018 to more effectively carryout Fair Housing initiatives on a joint/countywide basis in order to more efficiently address fair housing issue. The NDR administrative staff will work directly with SCDH, HCD, the Office of Sustainability to insure that Fair Housing is a key component of the NDR Resiliency Plan, long term resiliency efforts, and the long range Greenprint 2040 (which was the base platform for the NDR application in Phase 1 and Phase 2). The NDR team understands that long term resiliency, social, economic, and environmental issues are a part of any long term Fair Housing Initiatives. Through the activities of the NDR grant; and both Memphis and Shelby County's HUD funded grants (CDBG, HOME, Lead Hazard Control, etc.) Shelby County will insure that fair housing is a central part of long term resilience efforts resulting from NDR efforts and projects. NDR activities will focus on three geographical areas (one in each of the local watersheds) and the development of a Regional Resilience Plan to create a framework for resilience to provide detailed guidance for future rallow Shelby County to focuscreating a

Executive Summary:

resilient community both locally and regionally. All four of the NDR funded actions utilize 4 guiding values to guide each activity. Specifically, these values are: (1) People (Health & Well Being) - protect lives, improve quality of life and promote social cohesion, accomplished through creation of wetlands and other flood storage to protect communities and create green assets; (2) Organization (Economy & Society) - reduce community burden of vacancy and vulnerable housing by removing resid

MID-URN Areas:

After a complete evaluation of Unmet Recovery Needs (URNs) in Phase 1, Shelby County developed a set of four (4) activities designed to protect Shelby County's communities from natural hazards while increasing environmental, economic and social opportunity for all residents of the region, especially vulnerable communities. In Phase 2, the County identified three target areas that were hardest hit by the 2011 disasters: along Big Creek (Northern Shelby County), the Wolf River (Central Shelby County),



and South Cypress Creek (Southern Shelby County). Activities within these areas will create additional greenway trails and enhanced recreation areas as well as areas for local food production. A fourth activity will create a Regional Resilience Plan (which includes a hydraulic study of the three main tributaries in the county) over a three-year period to provide a means to tie these and other similar efforts to the GREENPRINT, which was developed with the support of a HUD Sustainable Communities Regional Planning Grant. Each of these activities will lead to replicable interventions that will be transferrable to other areas throughout the region. Furthermore, the goal of each activity was to ensure that the designs are not only cost effective; but provide the highest resilience value (i.e. social, economic, environmental, etc.) and ensure that the proposed resilience solutions within the activities are both scalable and replicable throughout the region. Activity 1: Big Creek Wetland and Recreation Area. Located in North Shelby County within the City of Millington, this area is home to a high percentage of LMI households as well as the Naval Support Activity Mid-South, a key military asset and employer for the area. This activity spans an area within the City of Millington running along Big Creek between the Naval Support Activity (NSA) on the East, along Paul Barret Parkway and Big Creek, and culminating at Hwy 51 North on the West. The overall service area is composed of the following Census Tracts: 0201.02 Block Group 1 0201.02 Block Group 20202.10 Block Group 1 0202.10 Block Group 2 0202.10 Block Group 30202.10 Block Group 4 0202.21 Block Group 1 0202.21 Block Group 20202.22 Block Group 1 0203.00 Block Group 1 0203.00 Block Group 20203.00 Block Group 3 0204.00 Block Group 1 The 2011 storms caused at least \$5 million in damages and displaced community members within the City of Millington. Using a flood control practice common to the Corps of Engineers, the primary activity will create a new floodplain by lowering an area along the creek to allow flood waters to flow into the floodplain while lowering water surface elevations. Lower water surface elevations will prevent future flooding in adjacent communities. If the floodplain had been constructed prior to the 2011 storms, the majority of flooding in the Millington area would not have occurred preventing more than \$4.5 million in losses. If this activity had been complete prior to the May 2010 floods, \$79 million of property damages would have been prevented. This activity will also create sustainable natural wildlife areas, with native vegetation, wetlands, and other natural features. Other amenities will include development of walking trails, small-scale agriculture, ball fields, lakes, and camping areas to provide increased recreational and entrepreneurial opportunities. While creating the new floodplain will require the removal of trees to improve water conveyance

MID-URN Areas:

ce, a tree canopy plan will be implemented to offset tree removal by four-to-one. Shelby County, the City of Millington, and other jurisdictions will work together to set aside approximately 500 acres for tree mitigation. Some of these areas will be utilized to provide an educational experience for school children from LMI areas. Tree mitigation areas will also provide a cooling effect by expanding the tree canopy to counter the increasing heat-island effect. Construction of this activity will increase

Key Agencies, Partners, Positions, Personnel:

nt within the South Cypress Creek community to create a stronger and healthier neighborhood.

10. A resource to Shelby County since Phase 1, and a partner in the development of Phase 2, the University of Memphis Center for Applied Earth Science and Engineering Research (CAESER) will continue its role in assisting Shelby County in its resilience efforts through the Hydraulic study portion of the Resilience Plan. CAESER will continue to provide assistance to Shelby County through its applied research, education, and leadership in sustaining community ground water resources, analysis and creation of GIS databases, and tools designed to anticipate and provide solutions to reduce the effect of risk when a flooding occurs.

11. Chickasaw Basin Authority (CBA), also a partner in Phase 3, was created as a State of Tennessee Agency as the Regional Development Authority for the Chickasaw Basin in Tennessee. The CBA develops flood control projects in the Loosahatchie and Wolf Rivers and Nonconnah Creek watersheds. The CBA is authorized by the State of Tennessee by TCA 64-1-201. Its role under Phase 3 will be to assist Shelby County and other partners in securing support and approval for wetland restoration activities under the Big Creek Wetland and Restoration Activity; an area within Shelby County where the CBA has been very active in developing flood control methodology and projects.

12. The University of Tennessee Agricultural Extension, a partner in Phase 3; provides a gateway to the University of Tennessee as the outreach unit of the Institute of Agriculture. UT Extension delivers educational programs and research-based information to citizens throughout the state. Additionally, in cooperation with Tennessee State University, UT Extension works with farmers, families, youth and communities to improve lives by addressing problems and issues at the local, state and national levels. As a partner to Shelby County in implementing the NDR award, UT Extension's role will be to serve as a resource in the development of community programs (especially in Big Creek and South Cypress Creek) which will educate the community about food and gardening and the creation of community gardens as alternative food sources within the community.

13. Memphis Center for Food and Faith (MCFF) and Grow Memphis (which recently merged to become Memphis Tilth) are local nonprofit organizations identified in Phase 2 who will work with Shelby County during Phase 3 implementation to engage in urban agriculture and community gardening activities designed to bring fresh and healthy food alternatives to citizens residing in the Big Creek and South Cypress Creek communities. As partners, they will work to establish community gardens and healthy food options for these areas to enhance greater access to fresh food.

14. The Hyde Family Foundations (a local philanthropy) and the Greater Memphis Chamber gifted \$157,000 and \$57,000 respectively to support a coordinator position to transition the GREENPRINT from plan to implementation. Their roles in the NDR through support of this position provide additional support for the Regional Resilience Plan funded under the NDR award.

Key Agencies, Partners, Positions, Personnel:

The following outlines the partners who will work directly with or provide support to Shelby County in its efforts to carry out NDR projects and activities as well as their roles in the implementation of "Making Room for the River" concepts.

1. Shelby County's role, through the Divisions of Planning and Development and Public Works (and their associated Departments), is as that of the lead on the NDR award. Shelby County will actively administer the NDR grant, oversee activity design and development, and implement the 4 activities funded under the NDR award (Big Creek, Wolf River, South Cypress, and the Regional Resilience Plan). The County will work closely with each identified partner to insure that activities move forward, are fiscally feasible, and that NDR funds are properly utilized and accounted for throughout the grant award which ends September 2022.

Additionally, Shelby County in its role as the lead on Phase 1, Phase 2, and subsequently the NDR award implementation lead is responsible for insuring that the following supporting leverage commitments are met:

a) Projects integral to the development of the GREENPRINT network involving the development of proposed trail corridors of the



GREENPRINT network including the Shelby Farms Greenline and park trails (\$5,822,181);

b) Fletcher Creek Greenway, Overton Park Cooper Street Trail and Perimeter Trail, Germantown Greenway, Chelsea Avenue Greenline, South Memphis Greenline, Shelby Farms Greenline Bridge, and Arlington Bike/Pedestrian Trail funded through DPD's Memphis Urban Area Metropolitan Planning Organization (\$4,338,696); and

c) The Shelby County's drainage study for resilient approaches to address impacts from the 2011 qualified disasters and future flooding along Big Creek (\$72,000).

2. City of Memphis, a partner since Phase 1 of the NDR process, is the largest municipality in Shelby County with a population of nearly 650,000. Two of the NDR activities (Wolf River and South Cypress Creek) are directly located within the Memphis city limits. Under Phase 3, Memphis will play a key role in assisting in the overall design and implementation of the both of these projects. As a partner in the NDR grant, Memphis is providing a total of \$4,100,000 in direct leverage through its Public Works Division and Division of Housing and Community Development (HCD). This leverage can be broken out as follows: \$2,500,000 for the Wolf River Wetland and Restoration and \$1,600,000 for the South Cypress Creek Activity (\$1,500,000 from Public Works and \$100,000 from HCD). The City is also a partner in the Shelby County Resilience Council (SCRC) a multi-disciplinary team appointed by Shelby County Mayor Mark H. Luttrell, Jr. to formalize development and implementation of the Greenprint for Resilience Project. Also, the City of Memphis is filling a developmental role in support of the NDR application and activities by providing \$34,423,302 for construction and completion of the Main-to-Main Multimodal Connector Project managed by the City of Memphis, connecting Memphis to the City of West Memphis, Arkansas, including the Harahan Bridge connection across the Mississippi River; which furthers regional interconnectedness of the Greenprint.

3. GCR Inc. has also been involved in the NDR grant since the Phase 1 application and prior to the Phase 3 award. GCR will continue to provide project management and technical assistance

Key Agencies, Partners, Positions, Personnel:

Contract period with HUD which terminates in September of 2022. GCR staff members have worked with several state clients to develop, implement, and monitor CDBGDR programs. GCR possesses extensive expertise in developing systems that track stages of recovery from immediate response, program development and management, public visibility of expenditures, and progress of recovery resources. Their role will be to provide direct grants management technical assistance to Shelby County to insure compliance, public access to information, and effective administration of resources.

4. Another partner, the Community Development Council of Greater Memphis (CD Council) is a coalition of community and housing development organizations, non-profits, and individuals who support the development and redevelopment of vibrant and economically sustainable neighborhoods. Livable Memphis, a program within CD Council, promotes the same priorities with a special focus on growth and development issues – including land use and transportation – and on increasing public participation in planning and development decisions. As a partner under Phase 3, the CD Council (and Livable Memphis) will provide direct community outreach and awareness efforts to assist Shelby County in its efforts to fully engage the community. Its close ties with CDCs, Neighborhoods, and other non-profits will provide Shelby County and the other NDR partners with direct links in the community to enhance input into the Resilience Plan as well as the other three NDR activities approved under Phase 3.

5. Pique PR is a full-service PR agency based in Memphis, Tennessee who has been involved with Shelby County's NDR application from the beginning of Phase 1. Pique will continue its partnership through Phase 3 of the grant and will continue to provide Shelby County with support for public events associated with public outreach, community engagement, and marketing efforts under the NDR award.

6. Kimley-Horn; Barge Waggoner Sumner and Cannon; and Sasaki and Associates are the team of consultants who have been involved in the NDR grant since the Phase 1 application and prior to the Phase 3 award. These partners have combined expertise in architecture, urban design, landscape architecture, civil engineering, environmental reviews, permitting, water resources, and other services to support the proposed resilience project. Furthermore, these partners have specialized experience in stormwater modeling, GIS-based applications, creation and permitting of wetlands at both the state and federal levels, and design and implementation of green infrastructure in Memphis and Shelby County as well as nationwide.

a) Kimley-Horn will continue their partnership with Shelby County to carry out environmental reviews and architectural/engineering designs associated with the Wolf River Wetland Restoration and Greenway activity, which includes the components of Kennedy Park, Rodney Baber Park, and Orchi Road Improvements. All of these activities comprise the activity along the Wolf River Conservancy's Wolf River restoration area in Central Shelby County and the greenway trail system tying these activities together.

b) Barge Waggoner Sumner and Cannon will continue their partnership role in carrying out environmental reviews and architectural/engineering designs associated with the Big Cree Wetland Restoration and Greenway activity.

Key Agencies, Partners, Positions, Personnel:

Development of proposed amenities, and the interconnectedness of public access throughout the development.

c) Sasaki and Associates will continue their partnership role in carrying out environmental reviews and architectural/engineering designs associated with the South Cypress Creek Watershed and Neighborhood Redevelopment. The designs will focus on both wetland restoration designs which strengthen community and social cohesion, repurposing vacant lots to accomplish community and economic development, and increase access to fresh, healthy foods.

7. The Wolf River Conservancy (WRC) has been a key participant and partner during the development of both Phase 1 and Phase 2 of the NDR competition. A non-profit that protects habitats within the Wolf River watershed, spearheads the Wolf River Greenway project along the urban Wolf River, connects people of all ages to the Wolf River through education, and provides outstanding recreational opportunities for the community; WRC has helped to protect 18,000 acres in the Wolf River corridor in order to enhance the entire Wolf River floodplain and protect critical aquifer recharge areas for public drinking water. As a key partner providing \$34 million in leverage under Phase 3 of the NDR award, WRC will continue the same efforts outlined above along (and within) the Wolf River Wetland Restoration and Greenway Activity. WRC's direct role will be developing the portion to the Greenway which will link Kennedy Park, Orchi Street, and Rodney Baber Parks and enhances overall access to parks and amenities within the activity area (and larger parts of Shelby County as the Greenway continues to grow). A key role of WRC in Phase 3 of the NDR award is the provision of \$31,500,000 in direct leverage for the Wolf River Greenway and Restoration Activity.

8. United Housing Incorporated (UHI), as identified in Phase 2, is a local nonprofit organization engaged in homebuyer education, community development, down payment assistance, and housing rehabilitation and construction who will serve as a partner in



the South Cypress Creek activity. United Housing, a part of the Neighbor Works America Network, will provide support in developing and retaining housing in South Cypress Creek in order to stabilize and improve the housing stock of the area and assist in relocating residents from flood prone housing into new and/or rehabilitated housing in the neighborhood. This newly created housing will, to the greatest extent possible, incorporate energy efficiency, renewable energy, and low impact development into the designs. In this role, UHI will work closely with Shelby County and Habitat for Humanity of Greater Memphis to carry out activities to stabilize and enhance the living environment within the South Cypress Creek community to create stronger and healthier neighborhood.

9. Similar to UHI, Habitat for Humanity of Greater Memphis (HFHGM) is a nonprofit housing ministry dedicated to eliminating substandard housing from the city of Memphis and surrounding areas, while making decent housing for all people a matter of conscience and action. Identified as a partner in Phase 2 of the NDR competition, HFHGM will play a role in the implementation of Phase 3 by providing one or more of the following: homebuyer education, counseling, housing repairs, and/or new construction. In this role, HFHGM will work closely with Shelby County and UHI to carry out activities to stabilize and enhance the living environment.

Overall	This Report Period	To Date
Total Projected Budget from All Sources	N/A	\$140,165,341.00
Total Budget	\$0.00	\$60,445,162.00
Total Obligated	\$0.00	\$60,445,162.00
Total Funds Drawdown	\$1,442,885.00	\$2,113,758.52
Program Funds Drawdown	\$1,442,885.00	\$2,113,758.52
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$1,442,885.00	\$2,113,758.52
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Progress Toward Required Numeric Targets

Requirement	Target	Actual
Overall Benefit Percentage (Projected)		74.85%
Overall Benefit Percentage (Actual)		21.85%
Minimum Non-Federal Match	\$0.00	\$0.00
Limit on Public Services	\$9,066,774.45	\$0.00
Limit on Admin/Planning	\$12,089,032.60	\$1,085,085.09
Limit on State Admin	\$0.00	\$195,852.80
Most Impacted and Distressed Threshold (Projected)	\$0.00	\$0.00

Overall Progress Narrative:

During the reporting period, Shelby County moved the NDR program forward through the continued process of carrying out activities under: (1) the Master Resilience Plan, (2) Hydraulic Modeling, and (3) the environmental review, and project design for the major NDR activities (South Cypress Creek, Wolf River Wetland and Restoration Greenway, and Big Creek Wetland and Recreation Area), and the bidding out of Phase 8 of the Wolf River Greenway.

NDR Projects 1-NDR-01 (Hydraulic Modeling), 1-NDR-02 (Master Resilience Plan), 2-NDR-06 (South Cypress Creek Engineering and Testing), 3-NDR-05 (Wolf River Engineering and Testing), 3-NDR-07 (Wolf River Greenway - Infrastructure & Construction), Big Creek 4 - NDR - 05 (Tree Planting), 4-NDR-06 (Big Creek Engineering for Floodway design and landscape architecture) and 5-NDR-01 (Administration) are all underway and/or moving forward.

As of December 31, 2017, Shelby County had drawn down \$1,442,885.00 in grant funds from DRGR for the reporting period of October 1 – December 31, 2017. When combined with the \$670,873.52 drawn during the previous reporting periods, Shelby County had drawn a total of \$2,113,758.52 in DRGR. As of



the end of the quarter all funds drawn from DRGR had been expended by the County.

Other key overall accomplishments during the quarter included:

1. Hydraulic Modeling and Master Resilience Plan. All three consulting teams have completed all field work for each of the three major waterways – Wolf River, Loosahatchie River, including obtaining all necessary riverine cross sections and completing bridge surveys. In addition to completing field work, consultants obtained various documentations and records for use in performing the hydraulic and hydrologic modeling of the streams, including bridge plans, river gage recordings, existing riverine models, rainfall data recordings. At the end of December, both the Loosahatchie River and Nonconnah Creek HECHMS models had been calibrated and provided to the consultant teams for their use.

2. Public Meetings/Hearing were held on the South Cypress Creek and Wolf River Greenway engineering and design activities on December 5, 2017 and December 19, 2017 respectively,

3. A meeting of all regulatory agency coordination meeting was held on October 5, 2017 that included Tennessee Department of Environment and Conservation (TDEC), Tennessee Department of Transportation (TDOT), and US Army Corps of Engineers (USACE) to discuss the Big Creek engineering and design.

4. All necessary core components for the development of the Regional Resilience Plan were in place and the scheduling for the first public hearings on the development of the plan were being arranged for early 2018.

Specific details on actions and accomplishments under each of these activities is provided under each activity narrative within this QPR.

Project Summary

Project #, Project Title	This Report Period	To Date	
	Program Funds Drawdown	Project Funds Budgeted	Program Funds Drawdown
1 - NDR, Regional Resilience Plan - NDR	\$603,733.37	\$2,100,000.00	\$889,232.29
2 - NDR, South Cypress Creek Watershed & Neighborhood	\$166,378.98	\$8,988,097.00	\$224,714.08
3 - NDR, Wolf River Wetland & Restoration Greenway - NDR	\$272,050.00	\$18,260,842.00	\$349,050.00
4 - NDR, Big Creek Wetland & Recreation Area - NDR	\$283,408.10	\$29,447,227.00	\$454,909.35
5 - NDR, Administration - NDR	\$117,314.55	\$1,648,997.00	\$195,852.80
6 - LTC, Long Term Commitments - LTC	\$0.00	\$0.00	\$0.00
7 - SL, Supporting Leverage - SL	\$0.00	\$0.00	\$0.00
8 - OV, Outcome Values - OV	\$0.00	\$0.00	\$0.00



Activities

Project # / Title: 1 - NDR / Regional Resilience Plan - NDR

Grantee Activity Number: 1 - NDR - 01

Activity Title: Hydraulic Modeling

Activity Category:

Planning

Project Number:

1 - NDR

Projected Start Date:

03/30/2017

Benefit Type:

Area ()

National Objective:

Urgent Need

Activity Status:

Planned

Project Title:

Regional Resilience Plan - NDR

Projected End Date:

11/30/2017

Completed Activity Actual End Date:

Responsible Organization:

Shelby County Government2

Overall

Total Projected Budget from All Sources

Oct 1 thru Dec 31, 2017

N/A

To Date

\$1,300,000.00

Total Budget

\$0.00

\$1,300,000.00

Total Obligated

\$0.00

\$1,300,000.00

Total Funds Drawdown

\$510,233.37

\$795,732.29

Program Funds Drawdown

\$510,233.37

\$795,732.29

Program Income Drawdown

\$0.00

\$0.00

Program Income Received

\$0.00

\$0.00

Total Funds Expended

\$510,233.37

\$795,732.29

 Shelby County Government2

\$510,233.37

\$795,732.29

Most Impacted and Distressed Expended

\$0.00

\$0.00

Match Contributed

\$0.00

\$0.00

Activity Description:

Hydraulic Modeling of the three major drainage Basins in Shelby County as a part of the Master Resilience Plan for Shelby County.

Location Description:

3 watersheds of Shelby County.

Activity Progress Narrative:

By the end the reporting quarter, teams had completed all field work for each of the three major waterways including obtaining all necessary riverine cross sections and completing bridge surveys. In addition to completing field work, consultants obtained various documents and records for use in performing the hydraulic and hydrologic modeling of the streams, including bridge plans, river gauge recordings, existing riverine models,



and rainfall data recordings.

As for the Hydraulic Modeling of the LOOSAHATCHIE RIVER, a review of the existing USACOE HEC models as a quality control check for the current field data collected was completed, a review of hydrologic models from West Consultants for sub-basin delineation and interface points to the Loosahatchie was completed, river cross sections were surveyed and County LIDAR was merged into a functional surface for modeling, all cross-section placements and orientations were verified and adjusted, bridge geometries were created from surveyed bridge openings, and 100% of the physical river model was completed and imported into HEC RAS. Additionally, hydrologic parameters along cross sections (reach lengths, manning's "n", contraction/expansion coefficient, etc.) were set and flow inputs based on HEC-HMS models were initiated.

Activities within the NONCONNAH BASIN included: completing all new bridge survey work on cross-sections and bridges with associated CAD files, and determining 61 new channel cross-section locations and entering data into HEC-RAS; and preparing a comparison of flowline change between the old HEC model channel bottom data and new survey data. Other activity involved performing "quality control" review of surveyed cross-section data transfer into HEC-RAS on two sets of data submitted; preparing a comparison of flowline change between the old HEC model channel bottom data and the new survey data; and reviewing a report and information regarding synthetic storm development and calibration events in the HMS model. At the end of December 2017, preparation for calibration efforts related to the modeling had begun.

Activities within the WOLF RIVER Basin included: delineation of subbasins, rainfall distributions, and optimization of hydrologic parameters. Iterations were performed to calibrate the models with the results of the rain gages. Fisher Arnold and West Consultants were continuing to finalize the calibration of the Wolf River HECHMS model, between Rossville, Tennessee and Germantown Parkway and calibrate the hydrologic results and work continued to proceed in creating and/or modifying the HEC RAS models for each of the streams. The Wolf River HECRAS model was 100% completed and has been calibrated. The model is currently only calibrated in terms of the current FEMA synthetic storm peak flows, and will be updated when the Wolf River HECHMS model is finally calibrated. Once the HECHMS model is calibrated between Rossville and Germantown Parkway, the resultant flows will be applied to the HECRAS model and initial results obtained.

Once the initial HECRAS models are complete, then final calibration between the HECHMS and HECRAS models will be completed, and final mapping of the results begun.

Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of Plans or Planning Products	0	0/1

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources	Amount
No Other Funding Sources Found	
Total Other Funding Sources	



Activity Supporting Documents

Document 1 - NDR - 01 \$282,130.08.pdf

Document 1 - NDR - 01 \$228,103.29.pdf



Grantee Activity Number: 1 - NDR - 02

Activity Title: Master Planning

Activity Category:

Planning

Activity Status:

Planned

Project Number:

1 - NDR

Project Title:

Regional Resilience Plan - NDR

Projected Start Date:

03/30/2017

Projected End Date:

06/30/2019

Benefit Type:

Area ()

Completed Activity Actual End Date:

National Objective:

Urgent Need

Responsible Organization:

Shelby County Government2

Overall	Oct 1 thru Dec 31, 2017	To Date
Total Projected Budget from All Sources	N/A	\$800,000.00
Total Budget	\$0.00	\$800,000.00
Total Obligated	\$0.00	\$800,000.00
Total Funds Drawdown	\$93,500.00	\$93,500.00
Program Funds Drawdown	\$93,500.00	\$93,500.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$93,500.00	\$93,500.00
Shelby County Government2	\$93,500.00	\$93,500.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

Resilience planning, data development, public input and Resilience Plan finalization to establish long term resilience for Shelby County.

Location Description:

Shelby County, Tennessee

Activity Progress Narrative:

The QPR for October – December summarizes the activity during this particular reporting period as well as provides a summary of all accomplishments during 2017. As of December 31, 2017, the following accomplishments had been made on the Regional Master Plan by Shelby County and all of its partners under the NDR grant:

1. A week-long project kick-off of activities involving initial stakeholder interviews, site visits, and establishing management protocols with Shelby County staff was carried out to begin the planning process;
2. The assemblage of regional project database, primarily focused on base planning and resilience-related GIS layers for the full regional extent;
3. Survey and write-up of historical natural disasters affecting the region were completed; and
4. Lists of primary resilience shocks and stressors and research on their levels of frequency, severity, and current response protocols were identified.

More specifically, between October and December 2017 the following took place which continued to move the



Regional Resilience Plan forward:

5. A library of resilience-related reports and studies relevant to the Mid-South was assembled;
6. Water management infrastructure was photographed and catalogued;
7. A list of key regional stakeholders and media partners for community outreach and communicating plan progress was completed;
8. A draft list of project goals, along with impact categories to assess threat vulnerabilities, were created;
9. Studies and definitions of water edge typologies found throughout the region that will provide the basis for design recommendations in future phases of work began; and
10. Concepts for the end-of-January public workshop series' as well as planned associated workshop logistics were developed and put into place.

As of the end of the December 2017 reporting period, all necessary core components for the development of the Regional Resilience Plan were in place. The Resilience Plan consists of three phases; and as a percentage of completion, Phase 1 which consists of data collection and review, prior plans review, historical research on major historical natural disasters and threat definition documentation and analysis was 40% complete, with overall completion plan completion at approximately 14%. Starting in January 2018, the planning process will be underway with the first public hearings scheduled to take place.

Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of Plans or Planning Products	0	0/1
# of community engagement	0	0/9

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources	Amount
No Other Funding Sources Found	
Total Other Funding Sources	

Activity Supporting Documents



Project # / Title: 2 - NDR / South Cypress Creek Watershed & Neighborhood
Grantee Activity Number: 2 - NDR - 01
Activity Title: Infrastructure
Activity Category:

Acquisition, construction, reconstruction of public facilities

Activity Status:

Planned

Project Number:

2 - NDR

Project Title:

South Cypress Creek Watershed & Neighborhood

Projected Start Date:

09/01/2019

Projected End Date:

06/15/2022

Benefit Type:

Area ()

Completed Activity Actual End Date:**National Objective:**

Low/Mod

Responsible Organization:

Shelby County Government2

Overall**Total Projected Budget from All Sources****Oct 1 thru Dec 31, 2017**

N/A

To Date

\$1,320,500.00

Total Budget

\$0.00

\$1,320,500.00

Total Obligated

\$0.00

\$1,320,500.00

Total Funds Drawdown

\$0.00

\$0.00

Program Funds Drawdown

\$0.00

\$0.00

Program Income Drawdown

\$0.00

\$0.00

Program Income Received

\$0.00

\$0.00

Total Funds Expended

\$0.00

\$0.00

Shelby County Government2

\$0.00

\$0.00

Most Impacted and Distressed Expended

\$0.00

\$0.00

Match Contributed

\$0.00

\$0.00

Activity Description:

Actual Construction of the South Cypress Neighborhood Development Infrastructure Projects including reuse of repurposed vacant lots, community gardens, bidding, contract approval, and construction within the community.

Location Description:

South Cypress Creek Watershed in Southwest Memphis, Tennessee
35.059753, -90.091317

Activity Progress Narrative:

Work on this activity will begin once all Environmental Reviews and engineering design for the overall project has been completed and the FONSI/RROF has been published and forwarded to the HUD Field Office.

Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of Linear feet of green public	0	0/16000

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources	Amount
No Other Funding Sources Found	
Total Other Funding Sources	



Grantee Activity Number:	2 - NDR - 02
Activity Title:	Flood Mitigation/Stormwater

Activity Category:

Dike/dam/stream-river bank repairs

Project Number:

2 - NDR

Projected Start Date:

09/01/2019

Benefit Type:

Area ()

National Objective:

Low/Mod

Activity Status:

Planned

Project Title:

South Cypress Creek Watershed & Neighborhood

Projected End Date:

06/15/2022

Completed Activity Actual End Date:

Responsible Organization:

Shelby County Government2

Overall	Oct 1 thru Dec 31, 2017	To Date
Total Projected Budget from All Sources	N/A	\$2,038,736.00
Total Budget	\$0.00	\$2,038,736.00
Total Obligated	\$0.00	\$2,038,736.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Shelby County Government2	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

Actual Construction of the South Cypress Watershed and Neighborhood Development Project including bidding, contract approval, and construction within the community.

Location Description:

South Cypress Creek Watershed in Southwest Memphis, Tennessee
35.059753, -90.091317

Activity Progress Narrative:

Work on this activity will begin once all Environmental Reviews and engineering design for the overall project has been completed and the FONSI/RROF has been published and forwarded to the HUD Field Office.

Accomplishments Performance Measures

**This Report Period
Total**

**Cumulative Actual Total / Expected
Total**



Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources	Amount
City of Memphis Public Works	\$1,500,000.00
Total Other Funding Sources	\$0.00



Grantee Activity Number: 2 - NDR - 03

Activity Title: Program Capital Costs

Activity Category:

Acquisition, construction, reconstruction of public facilities

Activity Status:

Planned

Project Number:

2 - NDR

Project Title:

South Cypress Creek Watershed & Neighborhood

Projected Start Date:

09/01/2019

Projected End Date:

06/15/2022

Benefit Type:

Area ()

Completed Activity Actual End Date:

National Objective:

Low/Mod

Responsible Organization:

Shelby County Government2

Overall	Oct 1 thru Dec 31, 2017	To Date
Total Projected Budget from All Sources	N/A	\$450,000.00
Total Budget	\$0.00	\$450,000.00
Total Obligated	\$0.00	\$450,000.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Shelby County Government2	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

Actual Construction of the South Cypress Watershed and Neighborhood Development Project including bidding, contract approval, and construction within the community.

Location Description:

South Cypress Creek Watershed in Southwest Memphis, Tennessee
35.059753, -90.091317

Activity Progress Narrative:

Work on this activity will begin once all Environmental Reviews and engineering design for the overall project has been completed and the FONSI/RROF has been published and forwarded to the HUD Field Office.

Accomplishments Performance Measures

**This Report Period
Total**

**Cumulative Actual Total / Expected
Total**



Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources

Amount

No Other Funding Sources Found

Total Other Funding Sources



Grantee Activity Number:	2 - NDR - 04
Activity Title:	Property Acquisitions

Activity Category:

Acquisition - general

Project Number:

2 - NDR

Projected Start Date:

01/15/2018

Benefit Type:

Area ()

National Objective:

Urgent Need

Activity Status:

Planned

Project Title:

South Cypress Creek Watershed & Neighborhood

Projected End Date:

02/15/2019

Completed Activity Actual End Date:

Responsible Organization:

Shelby County Government2

Overall	Oct 1 thru Dec 31, 2017	To Date
Total Projected Budget from All Sources	N/A	\$1,901,678.00
Total Budget	\$0.00	\$1,901,678.00
Total Obligated	\$0.00	\$1,901,678.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Shelby County Government2	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

Voluntary acquisition of property which will be permanently returned to floodway/wetland as part of the overall resilience project.

Location Description:

South Cypress Creek Watershed in Southwest Memphis, Tennessee
35.059753, -90.091317

Activity Progress Narrative:

Work on this activity will begin once all Environmental Reviews and engineering design for the overall project has been completed and the FONSI/RROF has been published and forwarded to the HUD Field Office.

Accomplishments Performance Measures

This Report Period Total	Cumulative Actual Total / Expected Total
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# of Parcels acquired voluntarily	0	0/14
Total acquisition compensation to	0	0/1901678

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources	Amount
No Other Funding Sources Found	
Total Other Funding Sources	



Grantee Activity Number: 2 - NDR - 05

Activity Title: New Housing Development

Activity Category:

Rehabilitation/reconstruction of residential structures

Project Number:

2 - NDR

Projected Start Date:

07/01/2018

Benefit Type:

Direct (HouseHold)

National Objective:

Low/Mod

Activity Status:

Planned

Project Title:

South Cypress Creek Watershed & Neighborhood

Projected End Date:

07/30/2019

Completed Activity Actual End Date:

Responsible Organization:

Shelby County Government2

Overall	Oct 1 thru Dec 31, 2017	To Date
Total Projected Budget from All Sources	N/A	\$1,512,500.00
Total Budget	\$0.00	\$1,512,500.00
Total Obligated	\$0.00	\$1,512,500.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Shelby County Government2	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

Reconstruction of infill housing and housing rehabilitation for residents who participated voluntarily in property acquisition to include homebuyer assistance and assistance waivers to eligible homebuyers, as necessary. New activities will be added in the future to reflect non-LMI households assisted and other housing activity if necessary. Actual household income will be documented as individual clients are served under this activity.

Location Description:

South Cypress Creek Watershed in Southwest Memphis, Tennessee
35.059753, -90.091317

Activity Progress Narrative:

Work on this activity will begin once all Environmental Reviews and engineering design for the overall project has been completed and the FONSI/RROF has been published and forwarded to the HUD Field Office.



Accomplishments Performance Measures

No Accomplishments Performance Measures

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources	Amount
City of Memphis Housing	\$100,000.00
Total Other Funding Sources	\$0.00

Grantee Activity Number: 2 - NDR - 06

Activity Title: Engineering and Testing

Activity Category:

Acquisition, construction, reconstruction of public facilities

Project Number:

2 - NDR

Projected Start Date:

03/30/2017

Benefit Type:

Area ()

National Objective:

Low/Mod

Activity Status:

Planned

Project Title:

South Cypress Creek Watershed & Neighborhood

Projected End Date:

08/01/2019

Completed Activity Actual End Date:

Responsible Organization:

Shelby County Government2

Overall	Oct 1 thru Dec 31, 2017	To Date
Total Projected Budget from All Sources	N/A	\$1,764,683.00
Total Budget	\$0.00	\$1,764,683.00
Total Obligated	\$0.00	\$1,764,683.00
Total Funds Drawdown	\$166,378.98	\$224,714.08
Program Funds Drawdown	\$166,378.98	\$224,714.08
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$166,378.98	\$224,714.08
Shelby County Government2	\$166,378.98	\$224,714.08
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

Development of environmental review, architectural and engineering designs and costs associated with overall design and implementation.

Location Description:

Funds will be used to design the Cypress Creek Project within the City of Memphis in Southwest Memphis, Tennessee. 35.059753, -90.091317

Activity Progress Narrative:

The QPR for October – December 2017 summarizes the activity during the reporting period as well as provides a summary of all accomplishments during 2017.

Partners had conducted initial site tours and created a photo library for the West Junction neighborhood and South Cypress Creek project areas to gather data and investigate existing conditions; had compiled a project GIS database, including curated and ground-truthed data summarizing land use, building presence, and building condition; had completed 100% of Wetlands and Hydrologic Determinations; had performed cultural resources literature and records search; had overseen the development of survey work and refined project limits; had completed initial analysis of land use, vacancy, structural condition, flood vulnerability, community assets, food access, open space, and transportation.



Furthermore, utility information was also collected from various sources in digital format (as well as field information); building footprints were provided in GIS format, with some field verification on a few parcels; and THY performed a topographic survey of Alonzo Weaver Park, as well as cross sections along South Cypress Creek. Finally, wetlands were identified as a part of this project. All of which lead to the first neighborhood meeting with residents in September 2017.

The initial neighborhood meeting was followed-up by a larger public meeting on December 5, 2017 which was advertised using Neighborhood flyers and postcards to Cypress Creek residents in the primary activity target area and advertisements ran in the Daily News on November 17, 2017 and in La Prensa Latina on November 19, 2017. Over 100 members of the public attended the Public Hearing on December 5, 2017. A presentation of 3 comprehensive design alternatives was made which focused on neighborhood and park improvement strategies, vacant lot reuse, infill housing, community agriculture, and flood mitigation.

Additionally, by the end of the quarter and 2017 year-end, the following had occurred on the activity,

1. 100% of the initial analysis of land use, vacancy, structural condition, flood vulnerability, community assets, food access, open space, and transportation had been completed;
2. 100% of the initial review of modeling to test the initial concept design and engineering approaches was complete;
3. data including geomorphic assessment information, hydrologic and hydraulic modeling data pertinent to design was collected;
4. in-depth geomorphic studies on site were performed, geomorphic data was collected along typical impacted reaches and included cross-sections, profiles, pebble counts, and bar samples;
5. the Rapid Bioassessment Protocol (RBP) was used to collect habitat data for each reach slated for improvement and will be used to help monitor the project's success;
6. collected information was compiled into a base drawing in AutoCAD format, the survey data processed, and used to create a topographic surface that was combined with a surface created from LIDAR data (this resulted in a surface that will be used for the design of the proposed improvements of the project. and
7. early preliminary alternative plans using both Priority 2 and Priority 3 stream restoration strategies were drafted.

Finally, the environmental review moved forward with the created outline for Part 58 NEPA document for each activity; assessments for compliance factors for the activities were underway; communication took place with HUD/FEMA on environmental activity requirements; and members met with TDEC and USACE to provide an overview of the project and to discuss project requirements and expectations from both entities. As of December 31, 2017, Part 1 of the activity was 58% complete and Part 2 of the activity was 14% complete. In total, the activity as a whole was 19.5% complete at the close of 2017.

Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of Acres wetlands	0	0/15

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources	Amount
No Other Funding Sources Found	
Total Other Funding Sources	

Activity Supporting Documents

Document 2 - NDR - 06 \$81,654.00.pdf

Document 2 - NDR - 06 \$84,724.98.pdf

Project # / Title: 3 - NDR / Wolf River Wetland & Restoration Greenway - NDR

Grantee Activity Number: 3 - NDR -01

Activity Title: Orchi Road Complete Street - Infrastructure & Cons

Activity Category:

Construction/reconstruction of streets

Project Number:

3 - NDR

Projected Start Date:

04/01/2019

Benefit Type:

Area ()

National Objective:

Low/Mod

Activity Status:

Planned

Project Title:

Wolf River Wetland & Restoration Greenway - NDR

Projected End Date:

05/01/2021

Completed Activity Actual End Date:

Responsible Organization:

Shelby County Government2

Overall	Oct 1 thru Dec 31, 2017	To Date
Total Projected Budget from All Sources	N/A	\$1,151,549.00
Total Budget	\$0.00	\$1,151,549.00
Total Obligated	\$0.00	\$1,151,549.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Shelby County Government2	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

Reconstruction of Orchi Road to prevent future flooding of the are and to link low income residents with the greenway and parks being developed under this project

Location Description:

Wolf River Watershed between Kennedy Park on the East and Rodney Baber Park on the West
35.177991, -89.937286



Activity Progress Narrative:

Work on this activity will begin once all Environmental Reviews and engineering design for the overall project has been completed and the FONSI/RROF has been published and forwarded to the HUD Field Office.

Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of Linear feet of Public	0	0/1000
# of Linear miles of Public	0	0/2

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources	Amount
No Other Funding Sources Found	
Total Other Funding Sources	



Grantee Activity Number: 3 - NDR -02
Activity Title: Rodney Baber Park - Infrastructure & Construction

Activity Category:

Acquisition, construction, reconstruction of public facilities

Project Number:

3 - NDR

Projected Start Date:

04/01/2019

Benefit Type:

Area ()

National Objective:

Low/Mod

Activity Status:

Planned

Project Title:

Wolf River Wetland & Restoration Greenway - NDR

Projected End Date:

05/01/2021

Completed Activity Actual End Date:

Responsible Organization:

Shelby County Government2

Overall	Oct 1 thru Dec 31, 2017	To Date
Total Projected Budget from All Sources	N/A	\$1,688,645.00
Total Budget	\$0.00	\$1,688,645.00
Total Obligated	\$0.00	\$1,688,645.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Shelby County Government2	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

Reconstruction of Rodney Baber Park to create a more resilient park that links the Wolf River greenway, Kennedy Park and the Orchi Road activities.

Location Description:

Wolf River Watershed between Kennedy Park on the East and Rodney Baber Park on the West
 35.196180, -89.987756

Activity Progress Narrative:

Work on this activity will begin once all Environmental Reviews and engineering design for the overall project has been completed and the FONSI/RROF has been published and forwarded to the HUD Field Office.



Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of buildings (non-residential)	0	0/2
# of public facilities	0	0/1
# of Linear feet of green public	0	0/2500

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources	Amount
City of Memphis Public Works	\$1,500,000.00
Total Other Funding Sources	\$0.00

Grantee Activity Number:	3 - NDR -04
Activity Title:	Park Earthwork/Utilities/Demolition

Activity Category:
Acquisition, construction, reconstruction of public facilities

Activity Status:
Planned

Project Number:
3 - NDR

Project Title:
Wolf River Wetland & Restoration Greenway - NDR

Projected Start Date:
04/01/2019

Projected End Date:
05/01/2021

Benefit Type:
Area ()

Completed Activity Actual End Date:

National Objective:
Low/Mod

Responsible Organization:
Shelby County Government2

Overall	Oct 1 thru Dec 31, 2017	To Date
Total Projected Budget from All Sources	N/A	\$3,929,985.00
Total Budget	\$0.00	\$3,929,985.00
Total Obligated	\$0.00	\$3,929,985.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Shelby County Government2	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

Reconstruction of the restoration area associated with the Wolf River Wetland and Restoration Greenway project.

Location Description:

Wolf River Watershed between Kennedy Park on the East and Rodney Baber Park on the West
35.196180, -89.987756 to 35.198212, -89.910189

Activity Progress Narrative:

Work on this activity will begin once all Environmental Reviews and engineering design for the overall project has been completed and the FONSI/RROF has been published and forwarded to the HUD Field Office.

Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of Acres wetlands	0	0/5



Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources

Amount

No Other Funding Sources Found

Total Other Funding Sources



Grantee Activity Number: 3 - NDR -05

Activity Title: Engineering and Testing

Activity Category:

Acquisition, construction, reconstruction of public facilities

Activity Status:

Planned

Project Number:

3 - NDR

Project Title:

Wolf River Wetland & Restoration Greenway - NDR

Projected Start Date:

04/01/2017

Projected End Date:

12/15/2018

Benefit Type:

Area ()

Completed Activity Actual End Date:

National Objective:

Urgent Need

Responsible Organization:

Shelby County Government2

Overall	Oct 1 thru Dec 31, 2017	To Date
Total Projected Budget from All Sources	N/A	\$1,941,677.00
Total Budget	\$0.00	\$1,941,677.00
Total Obligated	\$0.00	\$1,941,677.00
Total Funds Drawdown	\$272,050.00	\$349,050.00
Program Funds Drawdown	\$272,050.00	\$349,050.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$272,050.00	\$349,050.00
Shelby County Government2	\$272,050.00	\$349,050.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

Development of environmental review, architectural and engineering design and costs associated with overall design and implementation of the Wolf River Wetland and Restoration Greenway project.

Location Description:

Wolf River Watershed between Kennedy Park on the East and Rodney Baber Park on the West
35.196180, -89.987756, 35.198212, -89.910189, from 35.196180, -89.987756 to 35.198212, -89.910189 and 35.177991, -89.937286

Activity Progress Narrative:

The QPR for October – December 2017 summarizes the activity during the reporting period as well as provides a summary of all accomplishments during 2017. As previously reported, team meetings continued to occur monthly between Shelby County and NDR partners to ensure that the activity moved forward and to address any identified potential issues that might have presented themselves.

As of December 31, 2017, the following accomplishments had been made on the Wolf River Greenway Design and Environmental Review activity by Shelby County and all of its partners under the NDR grant: design plans of both parks (Rodney Baber and Kennedy Parks) and Orchi Road including site plans, grading and drainage plans, and landscape and hardscape plans were prepared and submitted for review at 30% completion; and the advancement of the project drawings continued after addressing stakeholder comments (with design as of December 23, 2017)



being approximately 50% complete).

Furthermore, the project team attended meetings with stakeholders of the project (including Shelby County, the City of Memphis and Parks and Engineering Departments), Bethesda Word of Life Ministries, and the Wolf River Conservancy in insure coordination and input on plans and designs as well as to address anticipated issues surrounding completion of the activity. Additionally, the lead consultant (Kimley- Horn) and its partners, prepared the initial NEPA documentation and submitted it to the appropriate agencies; completed wetlands and stream investigations and prepared the Jurisdictional Determinations for the activity; prepared the environmental permits (Stormwater Pollution Prevention Plan, Aquatic Resources Alteration Permit, and US Army Corps of Engineers permitting) for submittal to the TDEC and the Corps of Engineers. All the work in 2017 culminated in a public hearing on the preliminary designs for the Wolf River Greenway Project that was held on December 19th at the Ed Rice Community Center. Notices about this meeting were run in the Daily News on December 1, 2017 and in La Prensa Latina on December 3, 2017. At this public hearing, the status and designs for the project were presented to those in attendance to secure feedback from the community. The meeting was attended by a total of 30 individuals (which included NDR partners and community representatives/leaders). Information, public comments, and feedback from the meeting was collected and incorporated into the site plans for both parks. At the close of the December 2017 quarter, the activity was 36% complete.

Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of Linear feet of green public	0	0/1000

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources	Amount
City of Memphis Public Works	\$250,000.00
Total Other Funding Sources	\$0.00

Activity Supporting Documents

Document 3 - NDR - 05 \$58,100.00.pdf

Document 3 - NDR -05 \$213,950.00.pdf



Grantee Activity Number: 3 - NDR -06

Activity Title: Property Acquisition

Activity Category:

Acquisition - general

Project Number:

3 - NDR

Projected Start Date:

03/08/2018

Benefit Type:

Area ()

National Objective:

Urgent Need

Activity Status:

Planned

Project Title:

Wolf River Wetland & Restoration Greenway - NDR

Projected End Date:

07/06/2018

Completed Activity Actual End Date:

Responsible Organization:

Shelby County Government2

Overall	Oct 1 thru Dec 31, 2017	To Date
Total Projected Budget from All Sources	N/A	\$112,400.00
Total Budget	\$0.00	\$112,400.00
Total Obligated	\$0.00	\$112,400.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Shelby County Government2	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

Voluntary purchase of property easements along the Wolf River Greenway all for the development of trailways along the Wolf River Greenway and Restoration Project which links Kennedy Park, Rodney Baber Park, and Orchi Road.

Location Description:

Wolf River Watershed between Kennedy Park on the East and Rodney Baber Park on the West
35.198212, -89.910189

Activity Progress Narrative:

Work on this activity will begin once all Environmental Reviews and engineering design for the overall project has been completed and the FONSI/RROF has been published and forwarded to the HUD Field Office.

Accomplishments Performance Measures

**This Report Period
Total**

**Cumulative Actual Total / Expected
Total**



# of Parcels acquired voluntarily	0	0/1
Total acquisition compensation to	0	0/112400

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources	Amount
No Other Funding Sources Found	
Total Other Funding Sources	



Grantee Activity Number: 3 - NDR -07

Activity Title: Wolf River Greenway - Infrastructure & Constructio

Activity Category:

Acquisition, construction, reconstruction of public facilities

Project Number:

3 - NDR

Projected Start Date:

09/01/2017

Benefit Type:

Area ()

National Objective:

Low/Mod

Activity Status:

Planned

Project Title:

Wolf River Wetland & Restoration Greenway - NDR

Projected End Date:

09/01/2019

Completed Activity Actual End Date:

Responsible Organization:

Shelby County Government2

Overall	Oct 1 thru Dec 31, 2017	To Date
Total Projected Budget from All Sources	N/A	\$9,000,000.00
Total Budget	\$0.00	\$9,000,000.00
Total Obligated	\$0.00	\$9,000,000.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Shelby County Government2	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

Construction of the Wolf River Greenway Trail system in conjunction with this project and as outlined in the Regional Greenprint.

Location Description:

Wolf River Watershed between Kennedy Park on the East and Rodney Baber Park on the West
35.196180, -89.987756 to 35.198212, -89.910189

Activity Progress Narrative:

Having completed the environmental review, issued the FONSI and Request for Release of Funds, and receiving the Authority to Use Grant funds for this activity (which was received on October 2, 2017), Shelby County moved forward with issuing a Sealed bid for Phase 8 of the Greenway. An internal kick-off meeting was held on October 26, 2017. The Bid was placed on the Shelby County Purchasing Website on November 2, 2017 with bid notices running in the Daily News on November 2nd and 7th, and in La Prensa Latina on November 12, 2017. Additionally, the Purchasing Department notified 60 vendors whose commodity codes matched the type of construction associated with the Phase 8 specifications. Finally, the Mid-South Minority Business Council and the Black Business Association of Memphis were both notified of the Sealed Bid Opportunity. The bid acceptance date was December 5, 2017 at 2:00 PM CST.



Three sealed bids were received on December 5th and were reviewed. Bids were received from Barnes and Brower (\$909,044) Wagoner General (\$1,017,000) and Shelby Electric (\$1,065,000). Bids were reviewed by Shelby County Public Works to ensure that bids were realistic and in-line with the cost estimates associated with Phase 8. Based on a review of the bid submissions, Barnes and Brower was recommended as the successful bidder at \$909,440. The successful contractor also included a Section 3 contractor as a subcontractor in their bid submission to address Section 3 participation. As of the end of the quarter, the bid was being routed through Shelby County for approval. Also, during the reporting period, Phase 10A was in the process of being finalized for bid release and it is anticipated the Phase 10A will be bid during the Spring of 2018.

Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of Linear feet of green public	0	0/18000

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources	Amount
Wolf River Conservancy	\$31,500,000.00
Total Other Funding Sources	\$0.00

Project # / Title: 4 - NDR / Big Creek Wetland & Recreation Area - NDR

Grantee Activity Number: 4 - NDR - 01

Activity Title: Land Aquisition

Activitiy Category:

Acquisition - general

Project Number:

4 - NDR

Projected Start Date:

09/01/2019

Benefit Type:

Area ()

Activity Status:

Planned

Project Title:

Big Creek Wetland & Recreation Area - NDR

Projected End Date:

06/15/2022

Completed Activity Actual End Date:



National Objective:

Urgent Need

Responsible Organization:

Shelby County Government2

Overall	Oct 1 thru Dec 31, 2017	To Date
Total Projected Budget from All Sources	N/A	\$640,000.00
Total Budget	\$0.00	\$640,000.00
Total Obligated	\$0.00	\$640,000.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Shelby County Government2	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

Voluntary acquisition of property which will be permanently returned to floodway/wetland as part of the overall resilience project.

Location Description:

Big Creek Watershed in Millington, TN from the Naval Support Activity Base on the East along Paul Barrett Parkway to Navy Road on the West
 Located around 35.198212, -89.910189

Activity Progress Narrative:

Work on this activity will begin once all Environmental Reviews and engineering design for the overall project has been completed and the FONSI/RROF has been published and forwarded to the HUD Field Office.

Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of Parcels acquired voluntarily	0	0/15
Total acquisition compensation to	0	0/640000

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.



Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources

Amount

No Other Funding Sources Found

Total Other Funding Sources



Grantee Activity Number:	4 - NDR - 02
Activity Title:	Overbank Excavation

Activity Category:

Acquisition, construction, reconstruction of public facilities

Project Number:

4 - NDR

Projected Start Date:

09/01/2019

Benefit Type:

Area ()

National Objective:

Low/Mod

Activity Status:

Planned

Project Title:

Big Creek Wetland & Recreation Area - NDR

Projected End Date:

06/15/2022

Completed Activity Actual End Date:

Responsible Organization:

Shelby County Government2

Overall	Oct 1 thru Dec 31, 2017	To Date
Total Projected Budget from All Sources	N/A	\$17,191,198.00
Total Budget	\$0.00	\$17,191,198.00
Total Obligated	\$0.00	\$17,191,198.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Shelby County Government2	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

Construction of the Big Creek Wetland & Recreation Area Designing and constructing flood mitigation and water quality projects such as ponds, retention basins, terraces, community gardens and park amenities. This is excavation to provide floodway for protection of the area North of Big Creek.

Location Description:

Northern portion of Big Creek Watershed in Millington, TN from the Naval Support Activity Base on the East along Paul Barrett Parkway to Navy Road on the West
35.198212, -89.910189

Activity Progress Narrative:

Work on this activity will begin once all Environmental Reviews and engineering design for the overall project has been completed and the FONSI/RROF has been published and forwarded to the HUD Field Office.



Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of Acres wetlands	0	0/500

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources	Amount
No Other Funding Sources Found	
Total Other Funding Sources	

Grantee Activity Number:	4 - NDR - 03
Activity Title:	Recreational Facilities

Activity Category:
Acquisition, construction, reconstruction of public facilities

Project Number:
4 - NDR

Projected Start Date:
09/01/2019

Benefit Type:
Area ()

National Objective:
Urgent Need

Activity Status:
Planned

Project Title:
Big Creek Wetland & Recreation Area - NDR

Projected End Date:
06/15/2022

Completed Activity Actual End Date:

Responsible Organization:
Shelby County Government2

Overall	Oct 1 thru Dec 31, 2017	To Date
Total Projected Budget from All Sources	N/A	\$5,236,797.00
Total Budget	\$0.00	\$5,236,797.00
Total Obligated	\$0.00	\$5,236,797.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Shelby County Government2	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

Construction recreational facilities associated within the Big Creek project along the Big Creek Floodway.

Location Description:

Big Creek Watershed in Millington, TN from the Naval Support Activity Base on the East along Paul Barrett Parkway to Navy Road on the West
35.198212, -89.910189

Activity Progress Narrative:

Work on this activity will begin once all Environmental Reviews and engineering design for the overall project has been completed and the FONSI/RROF has been published and forwarded to the HUD Field Office.

Accomplishments Performance Measures

This Report Period Total	Cumulative Actual Total / Expected Total
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# of buildings (non-residential)	0	0/1
# of Linear feet of Public	0	0/3
# of Linear miles of Public	0	0/4

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources	Amount
No Other Funding Sources Found	
Total Other Funding Sources	



Grantee Activity Number: 4 - NDR - 04

Activity Title: Bridge Modifications

Activity Category:

Acquisition, construction, reconstruction of public facilities

Project Number:

4 - NDR

Projected Start Date:

09/01/2019

Benefit Type:

Area ()

National Objective:

Low/Mod

Activity Status:

Planned

Project Title:

Big Creek Wetland & Recreation Area - NDR

Projected End Date:

06/15/2022

Completed Activity Actual End Date:

Responsible Organization:

Shelby County Government2

Overall	Oct 1 thru Dec 31, 2017	To Date
Total Projected Budget from All Sources	N/A	\$1,953,027.00
Total Budget	\$0.00	\$1,953,027.00
Total Obligated	\$0.00	\$1,953,027.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Shelby County Government2	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

These bridge modifications remove restrictions to flood waters and will directly benefit LMI areas in Millington which are North of Big Creek Floodway by connecting them to the Big Creek facilities. 4 bridges will directly link these communities to the Big Creek development.

Location Description:

Big Creek Watershed in Millington, TN from the Naval Support Activity Base on the East along Paul Barrett Parkway to Navy Road on the West
35.198212, -89.910189

Activity Progress Narrative:

Work on this activity will begin once all Environmental Reviews and engineering design for the overall project has been completed and the FONSI/RROF has been published and forwarded to the HUD Field Office.

Accomplishments Performance Measures

This Report Period
Total

Cumulative Actual Total / Expected
Total



Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources

Amount

No Other Funding Sources Found

Total Other Funding Sources

Grantee Activity Number: 4 - NDR - 05

Activity Title: Tree Planting

Activity Category:

Acquisition, construction, reconstruction of public facilities

Project Number:

4 - NDR

Projected Start Date:

01/01/2017

Benefit Type:

Area ()

National Objective:

Urgent Need

Activity Status:

Planned

Project Title:

Big Creek Wetland & Recreation Area - NDR

Projected End Date:

08/01/2020

Completed Activity Actual End Date:

Responsible Organization:

Shelby County Government2

Overall	Oct 1 thru Dec 31, 2017	To Date
Total Projected Budget from All Sources	N/A	\$125,000.00
Total Budget	\$0.00	\$125,000.00
Total Obligated	\$0.00	\$125,000.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Shelby County Government2	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

This activity is for the replanting of new tree canopy to insure that no net loss occurs to the tree canopy in the activity area due to work in the floodplain. The performance measurement represents an average of 40 trees per acre.

Location Description:

Big Creek Watershed in Millington, TN from the Naval Support Activity Base on the East along Paul Barrett Parkway to Navy Road on the West.

Various locations near 35.198212, -89.910189

Activity Progress Narrative:

Work on this activity will begin once all Environmental Reviews and engineering design for the overall project has been completed and the FONSI/RROF has been published and forwarded to the HUD Field Office.

Accomplishments Performance Measures

**This Report Period
Total**

**Cumulative Actual Total / Expected
Total**



Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources

Amount

No Other Funding Sources Found

Total Other Funding Sources

Grantee Activity Number:	4 - NDR - 06
Activity Title:	Engineering for Floodway design and landscape arch

Activity Category:

Acquisition, construction, reconstruction of public facilities

Project Number:

4 - NDR

Projected Start Date:

01/01/2017

Benefit Type:

Area ()

National Objective:

Urgent Need

Activity Status:

Planned

Project Title:

Big Creek Wetland & Recreation Area - NDR

Projected End Date:

08/01/2019

Completed Activity Actual End Date:

Responsible Organization:

Shelby County Government2

Overall	Oct 1 thru Dec 31, 2017	To Date
Total Projected Budget from All Sources	N/A	\$4,301,204.00
Total Budget	\$0.00	\$4,301,204.00
Total Obligated	\$0.00	\$4,301,204.00
Total Funds Drawdown	\$283,408.10	\$454,909.35
Program Funds Drawdown	\$283,408.10	\$454,909.35
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$283,408.10	\$454,909.35
Shelby County Government2	\$283,408.10	\$454,909.35
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

Architect/Engineering and testing for design of the overbank excavation, flood mitigation and recreational facilities.

Location Description:

Northern portion of Big Creek Watershed in Millington, TN from the Naval Support Activity Base on the East along Paul Barrett Parkway to Navy Road on the West.

35.198212, -89.910189

Activity Progress Narrative:

As of the end of the reporting period on December 31, 2017, the following had taken place under the Big Creek design and environmental review activity. The lead on the activity, Barge Waggoner Sumner and Cannon (BWSC) scheduled planning meetings with Locally Owned Small Businesses, Women Owned Enterprises, and registered Section 3 Businesses to form the Big Creek project team. The NEPA process associated with the Big Creek activity began by preparing agency coordination letters, gathering information for the technical studies, conducting an Archaeological and Culturally Historical literature search, performing a threatened and endangered species desktop review, and completing HUD Noise Abatement and Air Quality partner worksheets for the project area. Additionally, coordination with Naval Support Activity Mid-South took place to gain access to the Navy Base for field surveys and



other field studies.

The field studies performed included wetland delineations, stream determinations, and habitat field assessments. The wetland and stream delineation field data was compiled in support of the Jurisdictional Determination. Topographic and boundary surveys of the Big Creek activity began by establishing horizontal and vertical controls, developing legal descriptions of wetland tracts, gathering additional bathymetric cross-sections of Big Creek, and surveying the existing levees and bridges that are to be modified. The recently collected survey data was incorporated into the existing hydraulic model and validated against historic events. Flood frequency analysis of lower recurrence intervals along Big Creek was performed using recently obtained gage data. The frequency analysis will support future stream and wetland mitigation activities.

The team coordinated meetings with potential stakeholders including the City of Millington, Memphis Chapter of Tennessee Ornithological Society, Mid-South Trail Association, and Strawberry Plains Audubon Center to discuss programming, and potential uses for the project. The input from stakeholders was used to prepare conceptual layouts, and begin development of a master design for the project area.

More specifically, during the October – December 2017 reporting period, a regulatory agency coordination meeting was held on October 5, 2017 that included TDEC, TDOT, and USACE. The meeting identified personnel within the agencies who would be key contacts for the project, and set the limits of the project by identifying sensitive areas that are not to be disturbed. A subsequent meeting with the key contacts identified potential design solutions that are agreeable to the regulators, and meet the key metrics for the Big Creek Activity.

Also, wetland investigations were completed and incorporated into the overall design, 100% of the grading and drainage review was completed for submittal and coordination with Millington Parks and the Conservancy on Trails, and landscape design coordination with TDEC and Corp of Engineers regarding wetlands and streams, topo and utility surveys were completed and provided for incorporation into the Design and Environmental Activity. Furthermore, numerous alternatives of the identified design solutions were simulated in the hydraulic model to minimize impacts to potential stream and wetlands, and maximize flood reduction. The alternative selected is being refined through additional modeling and preliminary design analysis.

Additional preliminary design efforts included sizing the proposed pump station for the new levee, and evaluating vehicular and pedestrian circulation for the project area so that proposed bridge locations and ingress/egress can be finalized.

Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of buildings (non-residential)	0	0/1
# of public facilities	0	0/3
# of Linear miles of Public	0	0/4
# of Acres wetlands	0	0/500

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources	Amount
No Other Funding Sources Found	
Total Other Funding Sources	

Activity Supporting Documents

Document 4 - NDR - 06 \$187,918.60.pdf

Document 4 - NDR - 06 \$95,489.50.pdf

Project # / Title: 5 - NDR / Administration - NDR

Grantee Activity Number: 5 - NDR - 01

Activity Title: Program Administration

Activity Category:

Administration

Activity Status:

Under Way

Project Number:

5 - NDR

Project Title:

Administration - NDR

Projected Start Date:

03/01/2017

Projected End Date:

09/30/2022

Benefit Type:

()

Completed Activity Actual End Date:

National Objective:

NA

Responsible Organization:

Shelby County Government2

Overall

Total Projected Budget from All Sources

Oct 1 thru Dec 31, 2017

N/A

To Date

\$1,648,997.00

Total Budget

\$0.00

\$1,648,997.00

Total Obligated

\$0.00

\$1,648,997.00

Total Funds Drawdown

\$117,314.55

\$195,852.80

Program Funds Drawdown

\$117,314.55

\$195,852.80

Program Income Drawdown

\$0.00

\$0.00

Program Income Received

\$0.00

\$0.00

Total Funds Expended

\$117,314.55

\$195,852.80

Shelby County Government2

\$117,314.55

\$195,852.80

Most Impacted and Distressed Expended

\$0.00

\$0.00

Match Contributed

\$0.00

\$0.00

Activity Description:

Grant Administration by Shelby County, Tennessee staff and consultants.

Location Description:

Shelby County Division of Planning and Development



Activity Progress Narrative:

Between October and December 31, 2017, Shelby County continued to oversee activities under the NDR grant. Team meetings with all partners involved in the environmental review and engineering/design of Big Creek, Wolf River, and South Cypress Creek continued on the first Tuesday of each month in order to identify the progress of each activity and identify any potential problems and/or outstanding issues. Partners and staff involved in the Hydraulic study of the three major basins also meet on the first Tuesday of each month for the same reasons. Additionally, Shelby County and City of Memphis staff continued Friday morning SCRC meetings to address project issues and status. Finally, Regional Resilience Planning conference calls were held each Friday afternoon in order to move the Resilience Plan forward.

On November 6 – 8, 2017 Shelby County and GCR, Inc. met to review key administrative activities carried out to date under the NDR grant, reviewed activity related to the NDR website located at www.resilientshelby.com, and discuss other administrative aspects of the grant.

Additionally, bids were issued for Phase 8 of the Wolf River Greenway on November 2, 2017, locally advertised, and opened on December 5, 2017. Three bids were received with the successfully bidder being Barnes and Brower at a submitted price of \$909,044. The bid was awaiting award at the end of the reporting period.

As of December 31, 2017, Shelby County had drawn down \$1,442,885.00 in grant funds from DRGR for the reporting period of October 1 – December 31, 2017. When combined with the \$670,873.52 drawn during the previous reporting periods, Shelby County had drawn a total of \$2,113,758.52 in DRGR. As of the end of the quarter all funds drawn from DRGR had been expended by the County. Also, MBE and Section 3 reports are also attached to this period's QPR.

Accomplishments Performance Measures

No Accomplishments Performance Measures

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources

Amount

No Other Funding Sources Found

Total Other Funding Sources

Activity Supporting Documents

- Document** 5 - NDR - 01 \$63,045.27 (1 of 3).pdf
- Document** 5 - NDR - 01 \$63,045.27 (2 of 3).pdf
- Document** 5 - NDR - 01 \$63,045.27 (3 of 3).pdf
- Document** 5 - NDR - 01 \$54,269.28.pdf
- Document** Corrections.pdf
- Document** B13-US-47-0002 October 01 2017 - November 30 2017 \$770,037.05.pdf
- Document** Shelby Council Resilience Council Meetings October 1-December 31 2017.pdf
- Document** October-December 2017 Meeting Notes.pdf
- Document** 2017 WBE-MBE Report #1_Submitted 1-30-2018.xls
- Document** Section 3 Report January - December 2017.pdf
- Document** Form 425_December 31, 2017.pdf
- Document** Form 425_June 2017.pdf
- Document** Form 425_September 2017.pdf

Project # / Title: 6 - LTC / Long Term Commitments - LTC

Grantee Activity Number: 6 - LTC - 01
Activity Title: Greenprint

Activity Category:
 NDR - Resilience Value
Project Number:
 6 - LTC
Projected Start Date:
 07/01/2012
Benefit Type:
 ()
National Objective:
 NA

Activity Status:
 Under Way
Project Title:
 Long Term Commitments - LTC
Projected End Date:
 01/31/2017
Completed Activity Actual End Date:

Responsible Organization:
 Shelby County Government2

Overall	Oct 1 thru Dec 31, 2017	To Date
Total Projected Budget from All Sources	N/A	\$0.00
Total Budget	\$0.00	\$0.00
Total Obligated	\$0.00	\$0.00
Total Funds Drawdown	\$0.00	\$0.00



Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Shelby County Government2	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

The Greenprint is a 25 year plan designed to enhance regional sustainability by establishing a unified vision for a region-wide network of green space areas which serves to address long-term housing and land use, resource conservation, environmental protection, accessibility, community health and wellness transportation alternatives, economic development, neighborhood engagement, and social equity in the Greater Memphis area.

The long term commitment to the Greenprint and the Region will be insured through the adoption of greenprint by 22 local jurisdictions who were part of the planning effort and the ultimate finalization of the Greenprint 2015/2040 plan.

Location Description:

The greenprint is a long range plan for the Shelby County Region. The Greenprint study included the Memphis and West Memphis Metropolitan Planning organizations (MPOs) covering four counties and 18 municipalities located in the States of Tennessee, Arkansas and Mississippi. The study areas boundaries include Shelby County, TN and the cities of Arlington, Bartlett, Collierville, Germantown, Lakeland, Memphis, and Millington; northern DeSoto County, MS, including the cities of Hernando, Horn Lake, Olive Branch, Southaven, and Walls; eastern Crittenden County, AR, including the cities of West Memphis, Marion, and Sunset; and western Fayette County, TN including the cities of Piperton, Gallaway, and Braden

Activity Progress Narrative:

Supporting Documents Added.

Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of jurisdictions adopting	0	22/22

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources

Amount

No Other Funding Sources Found

Total Other Funding Sources

Activity Supporting Documents

Document	Greenprint Adoption - Arlington, Town of.pdf
Document	Greenprint Adoption - Bartlett, City of.pdf
Document	Greenprint Adoption - Braden, City of.pdf
Document	Greenprint Adoption - Collierville, Town of.pdf
Document	Greenprint Adoption - Crittenden County.pdf
Document	Greenprint Adoption - DeSoto County.pdf
Document	Greenprint Adoption - Fayette County.pdf
Document	Greenprint Adoption - Gallaway, City of.pdf
Document	Greenprint Adoption - Germantown, City of.pdf
Document	Greenprint Adoption - Hernando, City of.pdf
Document	Greenprint Adoption - Horn Lake, City of.pdf
Document	Greenprint Adoption - Lakeland, City of.pdf
Document	Greenprint Adoption - Marion, City of.pdf
Document	Greenprint Adoption - Memphis, City of.pdf
Document	Greenprint Adoption - Millington, City of.pdf
Document	Greenprint Adoption - Olive Branch, City of.pdf
Document	Greenprint Adoption - Piperton, City of.pdf
Document	Greenprint Adoption - Shelby County.pdf
Document	Greenprint Adoption - Southaven, City of.pdf



- Document** Greenprint Adoption - Sunset, Town of.pdf
 - Document** Greenprint Adoption - Walls, Town of (1).pdf
 - Document** Greenprint Adoption - West Memphis, City of.pdf
-



Grantee Activity Number: 6 - LTC - 02
Activity Title: Long Term Commitment - Wolf River Conservancy

Activity Category:
 NDR - Resilience Value
Project Number:
 6 - LTC
Projected Start Date:
 01/01/2015
Benefit Type:
 ()
National Objective:
 NA

Activity Status:
 Under Way
Project Title:
 Long Term Commitments - LTC
Projected End Date:
 01/31/2017
Completed Activity Actual End Date:

Responsible Organization:
 Shelby County Government2

Overall	Oct 1 thru Dec 31, 2017	To Date
Total Projected Budget from All Sources	N/A	\$0.00
Total Budget	\$0.00	\$0.00
Total Obligated	\$0.00	\$0.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Shelby County Government2	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

Under this long term commitment the Wolf River Conserancy will protect/restore an additional 900 acres of of wetland within the Wolf River watershed in Shelby County.

Location Description:

The Wof River watershed starts in north Mississippi and flows northwest through Fayette and Shelby Counties to join the Mississippi River at Memphis. The watershed carves a green passage though 90 miles of forests, fields and communities. The upper Wolf's upper reaches are lush wetlands of unmatched beauty that help recharge the drinking water aquifer.

Activity Progress Narrative:

Supporting Documents Added.

Accomplishments Performance Measures

This Report Period Total	Cumulative Actual Total / Expected Total
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Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources

Amount

No Other Funding Sources Found

Total Other Funding Sources

Activity Supporting Documents

- Document** Beau_WarrantyDeed_Oct18-2016.pdf
- Document** Bethea_WarrantyDeed_2-18-2015.pdf
- Document** Bowling_TWRA_July2015.pdf
- Document** Brent_ConservationFund_Aug2016.pdf
- Document** Cannon_WarrantyDeed_4-13-2015.pdf
- Document** Cox_Properties_TWRA_July2016.pdf
- Document** Elder_WarrantyDeed_06-02-2016.pdf
- Document** EppingWay_QuitclaimDeed_2-24-2015.pdf
- Document** Gerber_WarrantyDeed_12-15-2014.pdf



- Document** Highland_QuitClaim_Deeds_3-3-2015.pdf
 - Document** JamesRd_QuitClaimDeed_7-17-2015.pdf
 - Document** LandConservation_Tracking.pdf
 - Document** Orgel_QuitClaimDeed_3-29-2016.pdf
 - Document** Scott_WarrantyDeed_10-2-2015.pdf
 - Document** Simington_ConsFund-TWRA_July2016.pdf
 - Document** TripleZ_WarrantyDeed_01-14-2016.pdf
 - Document** WalkerHall_QuitClaimDeed_12-30-2015.pdf
 - Document** Wolf_Watershed_Protected_Lands_2012-2016.pdf
-



Grantee Activity Number:	6 - LTC - 03
Activity Title:	Long Term Commitment - Ready Shelby

Activity Category:

NDR - Resilience Value

Project Number:

6 - LTC

Projected Start Date:

01/01/2015

Benefit Type:

()

National Objective:

NA

Activity Status:

Under Way

Project Title:

Long Term Commitments - LTC

Projected End Date:

01/31/2017

Completed Activity Actual End Date:

Responsible Organization:

Shelby County Government2

Overall	Oct 1 thru Dec 31, 2017	To Date
Total Projected Budget from All Sources	N/A	\$0.00
Total Budget	\$0.00	\$0.00
Total Obligated	\$0.00	\$0.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Shelby County Government2	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

The initiative is designed to educate Shelby County residents on how to prepare for an emergency, with specific attention given to the first 72 hours after an emergency and to partner with public private, faith-based and non-profit sectors to share the guidelines and the overall importance of emergency preparedness for Shelby County. The project under this commitment is to reach an additional 200,000 households.

Location Description:

Ready Shelby is located in Shelby County and is a collaborative initiative supported by Shelby County Government, all municipalities within the County (Arlington, Bartlett, Collierville, Germantown, Lakeland, Memphis, and Millington) and the Assisi Foundation.

Activity Progress Narrative:

Supporting Documents Added.



Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of households reached	0	421000/20000

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources	Amount
No Other Funding Sources Found	
Total Other Funding Sources	

Activity Supporting Documents

Document Re_Ready Shelby Households Reached (NDRC).pdf

Document Ready Shelby Outreach_2016_07_CustomerConnection.pdf



Grantee Activity Number:	6 - LTC - 04
Activity Title:	LTC - Memphis Project Delivery Manual

Activity Category:

NDR - Resilience Value

Project Number:

6 - LTC

Projected Start Date:

01/01/2015

Benefit Type:

()

National Objective:

NA

Activity Status:

Under Way

Project Title:

Long Term Commitments - LTC

Projected End Date:

01/01/2017

Completed Activity Actual End Date:

Responsible Organization:

Shelby County Government2

Overall	Oct 1 thru Dec 31, 2017	To Date
Total Projected Budget from All Sources	N/A	\$0.00
Total Budget	\$0.00	\$0.00
Total Obligated	\$0.00	\$0.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Shelby County Government2	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

The City of Memphis Project Delivery Manual included design guidelines for streets that include safe accommodations for vehicles, bicycles, pedestrians, and transit users of all ages and abilities. Once adopted, all street improvements will be required to consult the manual for design and engineering treatments. The manual will allow streets and street segments to be adopted as complete streets in context of the design.

Location Description:

The City of Memphis, Tennessee.

Activity Progress Narrative:

Supporting documentation was attached for this LTC.

Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of plans adopted	0	1/1



Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources

Amount

No Other Funding Sources Found

Total Other Funding Sources

Activity Supporting Documents

Document Complete Streets Message.pdf

Document Complete Streets Standards - UDC page 255.pdf

Project # / Title: 7 - SL / Supporting Leverage - SL

Grantee Activity Number: 7 - SL - 01

Activity Title: Greenprint Implementation and Staff Support

Activity Category:

NDR - Supporting Leverage

Project Number:

7 - SL

Projected Start Date:

12/21/2016

Benefit Type:

()

National Objective:

NA

Activity Status:

Under Way

Project Title:

Supporting Leverage - SL

Projected End Date:

06/15/2022

Completed Activity Actual End Date:

Responsible Organization:

Shelby County Government2

Overall

Oct 1 thru Dec 31, 2017

To Date



Total Projected Budget from All Sources	N/A	\$0.00
Total Budget	\$0.00	\$0.00
Total Obligated	\$0.00	\$0.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Shelby County Government2	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

GREENPRINT Implementation Support - The Hyde Family Foundations, a local philanthropy, gifted \$157,000.00 and the Greater Memphis Chamber of Commerce committed an additional \$57,000.00 to fund a coordinator position to transition the GREENPRINT (the platform for the NDRC competition) from plan to implementation. This leverage also supports the Regional Resilience Plan activity developed in this application.

Location Description:

The Memphis and West Memphis Metropolitan Planning organizations (MPOs) covering four counties and and 18 municipalities located in the States of Tennessee, Arkansas, and Mississippi. The study areas boundaries include Shelby County, TN, and the cities of Arlington, Bartlett, Collierville, Germantown, Lakeland, Memphis, and Millington; northern DeSoto County, MS, including the the cities of Hernando, Horn Lake, Olive Branch, Southaven, and Walls; eastern Crittenden County, AR, including the cities of West Memphis, marion, and Sunset; and western Fayette County, TN, including the cities of Piperton, Galloway, and Braden.

Activity Progress Narrative:

Documentation on Supporting Leverage is being compiled for future reporting. The Greenprint efforts are an on-going effort.

Accomplishments Performance Measures

No Accomplishments Performance Measures

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources	Amount
Total Other Funding Sources	\$0.00



Greater Memphis Chamber of Commerce	\$57,000.00
Hyde Family Foundation	\$157,000.00
Total Other Funding Sources	\$0.00



Grantee Activity Number:	7 - SL - 02
Activity Title:	Shelby Farms Greenline and Park Trails

Activity Category:
Rehabilitation/reconstruction of a public improvement

Project Number:
7 - SL

Projected Start Date:
09/01/2014

Benefit Type:
()

National Objective:
NA

Activity Status:
Under Way

Project Title:
Supporting Leverage - SL

Projected End Date:
09/30/2022

Completed Activity Actual End Date:

Responsible Organization:
Shelby County Government2

Overall	Oct 1 thru Dec 31, 2017	To Date
Total Projected Budget from All Sources	N/A	\$0.00
Total Budget	\$0.00	\$0.00
Total Obligated	\$0.00	\$0.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Shelby County Government2	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

Shelby County's supporting leverage of \$5,822,181.00 is aligned with the Shelby Farms Greenline and Park Trails. These trail corridors were identified within the GREENPRINT will be and will further connect recreational access points within Shelby Farms and creating a network for Shelby County citizens to access the park amenities without the need for a motorized vehicle.

Location Description:

Shelby County (specifically, the Shelby Farms Park Greenline and Park trails, the Greenline connection to the Wolf River Restoration Greenway, a trail system from central Shelby County to the Frayser community.

Activity Progress Narrative:

Documentation on Supporting Leverage is being compiled for future reporting.

Accomplishments Performance Measures

No Accomplishments Performance Measures



Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources	Amount
Shelby County Government	\$5,822,181.00
Total Other Funding Sources	\$0.00

Grantee Activity Number:	7 - SL - 03
Activity Title:	Main-to-Main Multimodel Connector

Activity Category:
NDR - Supporting Leverage

Project Number:
7 - SL

Projected Start Date:
01/01/2015

Benefit Type:
()

National Objective:
NA

Activity Status:
Under Way

Project Title:
Supporting Leverage - SL

Projected End Date:
06/15/2022

Completed Activity Actual End Date:

Responsible Organization:
Shelby County Government2

Overall	Oct 1 thru Dec 31, 2017	To Date
Total Projected Budget from All Sources	N/A	\$0.00
Total Budget	\$0.00	\$0.00
Total Obligated	\$0.00	\$0.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Shelby County Government2	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

The \$34,423,302.00 in supporting leverage under the Main to main connector provides direct bicycle and pedestrian access from downtown Memphis, TN to the City of West Memphis, AR via the Harahan Bridge. The project creates a pedestrian corridor across an active railway/highway bridge connector over the Mississippi River and allows individuals to directly bike, run, or walk from Tennessee to Arkansas across the river.

Location Description:

Downtown Memphis, TN to the City of West Memphis, Arkansas via the Harahan Bridge across the Mississippi River.

Activity Progress Narrative:

Documentation on Supporting Leverage is being compiled for future reporting.

Accomplishments Performance Measures

No Accomplishments Performance Measures



Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources	Amount
City of Memphis Public Works	\$34,423,302.00
Total Other Funding Sources	\$0.00

Grantee Activity Number:	7 - SL - 04
Activity Title:	Greenline and Trail Connectors

Activity Category:
NDR - Supporting Leverage

Project Number:
7 - SL

Projected Start Date:
09/01/2014

Benefit Type:
()

National Objective:
NA

Activity Status:
Under Way

Project Title:
Supporting Leverage - SL

Projected End Date:
06/15/2022

Completed Activity Actual End Date:

Responsible Organization:
Shelby County Government2

Overall	Oct 1 thru Dec 31, 2017	To Date
Total Projected Budget from All Sources	N/A	\$0.00
Total Budget	\$0.00	\$0.00
Total Obligated	\$0.00	\$0.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Shelby County Government2	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

The \$4,338,696.00 in supporting leverage for the Greenline and Trail Connectors will further develop the overall Greenprint platform on which the NDR application was overlaid. The greenline and trail connectors are funded through the Memphis Urban Area Metropolitan Planning Organization, a Department of DPD. The connectors provide further access to areas of Shelby County using a more passive system of trails and greenways which allow individuals a form of alternate travel throughout the community via walking, running, or bicycling.

Location Description:

The Greenline and trail are located along the Fletcher Creek Greenway, Overton Park Cooper Street Trail and Perimeter Trail, Germantown Greenway, Chelsea Avenue Greenline, South Memphis Greenline, Shelby Farms Greenline Bridge, and Arlington Bike/Pedestrian Trail

Activity Progress Narrative:

Documentation on Supporting Leverage is being compiled for future reporting.



Accomplishments Performance Measures

No Accomplishments Performance Measures

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources

Memphis Urban Area Metropolitan Planning Organization

Amount

\$4,338,696.00

Total Other Funding Sources

\$0.00



Grantee Activity Number:	7 - SL - 05
Activity Title:	Big Creek Drainage Study

Activity Category:
NDR - Supporting Leverage

Project Number:
7 - SL

Projected Start Date:
12/21/2014

Benefit Type:
()

National Objective:
NA

Activity Status:
Under Way

Project Title:
Supporting Leverage - SL

Projected End Date:
06/15/2022

Completed Activity Actual End Date:

Responsible Organization:
Shelby County Government2

Overall	Oct 1 thru Dec 31, 2017	To Date
Total Projected Budget from All Sources	N/A	\$0.00
Total Budget	\$0.00	\$0.00
Total Obligated	\$0.00	\$0.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Shelby County Government2	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

The \$72,000.00 in supporting leverage was used to conduct a Big Creek Drainage Study. The study was the result of the 2011 disasters, In response, Shelby County conducted a drainage study for innovative and resilient approaches to address potential future impacts from flooding along Big Creek. This study provides for baseline guidance in the design and development of the Big Creek Wetland and Restoration Greenway activity proposed in Phase 2 of the NDR application.

Location Description:

Big Creek and the Big Creek drainage basin in Northern Shelby County.

Activity Progress Narrative:

Documentation on Supporting Leverage is being compiled for future reporting.

Accomplishments Performance Measures

No Accomplishments Performance Measures



Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources	Amount
Shelby County Government	\$72,000.00
Total Other Funding Sources	\$0.00

Project # / Title: 8 - OV / Outcome Values - OV

Grantee Activity Number: 8-OV-01-1
Activity Title: Shelby County OV - Resilience Plan

Activity Category:

NDR - Resilience Value

Project Number:

8 - OV

Projected Start Date:

12/21/2016

Benefit Type:

()

National Objective:

Low/Mod

Activity Status:

Under Way

Project Title:

Outcome Values - OV

Projected End Date:

07/01/2019

Completed Activity Actual End Date:

Responsible Organization:

Shelby County Government2

Overall	Oct 1 thru Dec 31, 2017	To Date
Total Projected Budget from All Sources	N/A	\$0.00
Total Budget	\$0.00	\$0.00
Total Obligated	\$0.00	\$0.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Shelby County Government2	\$0.00	\$0.00



Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

The plan will consist of two parts: a Hydraulic study of 3 major Drainage Basins in Shelby County and an overall plan that will engage the public and identify potential new resilience activities and projects that can be implemented as additional funds become available in the future. The Baseline for this outcome is 0 and will produce 1 plan which will include hydraulic models.

Location Description:

This is a Regional Plan that covers Shelby County and the Memphis MPO service area.

Activity Progress Narrative:

The plan will consist of two parts: a Hydraulic study of 3 major Drainage Basins in Shelby County and an overall plan that will engage the public and identify potential new resilience activities and projects that can be implemented as additional funds become available in the future. The Baseline for this outcome is 0 and will produce 1 plan which will include hydraulic models. Both the Hydraulic Study and the overall Master Resilience Plan are underway and the Outcome Value will be reported when completed.

It is anticipated, based on current activity that the Hydraulic modeling of the three drainage basins (Nonconnah, Loosahatchie, and Wolf River) will be completed in the Spring of 2018. The Master Resilience Plan development officially kicks-off in January and February of 2018. The next measure will occur in December of 2018, with interim reports each quarter under the activities themselves.

Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of resilience plans created	0	0/1

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources	Amount
No Other Funding Sources Found	
Total Other Funding Sources	



Grantee Activity Number:	8-OV-02-1
Activity Title:	South Cypress OV - Repurposed Lots

Activity Category:

NDR - Social Value

Project Number:

8 - OV

Projected Start Date:

12/21/2016

Benefit Type:

()

National Objective:

NA

Activity Status:

Planned

Project Title:

Outcome Values - OV

Projected End Date:

06/15/2022

Completed Activity Actual End Date:

Responsible Organization:

Shelby County Government2

Overall	Oct 1 thru Dec 31, 2017	To Date
Total Projected Budget from All Sources	N/A	\$0.00
Total Budget	\$0.00	\$0.00
Total Obligated	\$0.00	\$0.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Shelby County Government2	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

This activity will repurpose flood lots for other uses within the South Cypress Creek project area. Uses at designated in the Phase 2 were classified as gardens, permanent flood plane lots, and wild lots). Lots use and accomplishments will be determined per Sasaki design of the target ares. Proposed accomplishments to be determined upon design completion. The Baseline for this outcome is 0 and will outcomes will be based on the Sasaki designs. The repurposed lots will be reported annually. 10 lots have been shown as a projection at this time based on preliminary designs.

Location Description:

South Cypress Creek Watershed Development and Neighborhood Development Project in South Memphis, Tennessee: specifically Census Tract 222.20 Block Groups 2, 3, and 4.

Activity Progress Narrative:

This activity will repurpose flood lots for other uses within the South Cypress Creek project area. Uses as designated in the Phase 2 were classified as gardens, permanent flood plain lots, and wild lots). Lots use and accomplishments will be determined per Sasaki design of the target area. Proposed accomplishments to be determined upon design completion. The Baseline for this outcome is 0 and outcomes will be based on the Sasaki designs. The re-purposed lots will be reported annually. 10 lots have been shown as a projection based on preliminary designs.

The South Cypress Creek Project is still in the environmental and design phase and no action has taken place which



enables a measurement under this outcome value. The next measure will occur in December of 2018.

Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of vacant lots repurposed	0	0/10

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources	Amount
No Other Funding Sources Found	
Total Other Funding Sources	



Grantee Activity Number:	8-OV-02-2
Activity Title:	South Cypress OV - Property Value Increase

Activity Category:

NDR - Economic Value

Project Number:

8 - OV

Projected Start Date:

12/21/2016

Benefit Type:

()

National Objective:

NA

Activity Status:

Planned

Project Title:

Outcome Values - OV

Projected End Date:

06/15/2022

Completed Activity Actual End Date:

Responsible Organization:

Shelby County Government2

Overall	Oct 1 thru Dec 31, 2017	To Date
Total Projected Budget from All Sources	N/A	\$0.00
Total Budget	\$0.00	\$0.00
Total Obligated	\$0.00	\$0.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Shelby County Government2	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

The measure for this Outcome Value is a 3% cumulative increase in the assessed property values within the project neighborhood over the next five year period. The baseline for this outcome value is the 2011 property value level which was assessed at \$1,160,490.00 (appraised value of \$7,222,200) per the Shelby County Assessor. First measure of value will be in December 2017.

Location Description:

South Cypress Creek Watershed Development and Neighborhood Development Project in South Memphis, Tennessee: specifically Census Tract 222.20 Block Groups 2, 3, and 4.

Activity Progress Narrative:

The measure for this Outcome Value is a 3% cumulative increase in the assessed property values within the project neighborhood over the next five-year period. The baseline for this outcome value is the 2011 property value level which was assessed at \$1,160,490.00 (appraised value of \$7,222,200) per the Shelby County Assessor. First measure of value will be in December 2017.

In 2017, during the Shelby County re-appraisal process, the current assessment value of the units previously identified in the project area was \$1,001,915 (with an appraised value of \$4,479,100). While down from the 2011 assessment/appraised values, this will provide an excellent baseline for the area in the pre-development/construction phase. Using this baseline, future measurements for this outcome value should present



a clear picture as to whether increases in these values can possibly be attributed to the South Cypress Creek Restoration Project. The next measurement will take place in December 2018.

Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
% increase in median property	0	0/3

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources	Amount
No Other Funding Sources Found	
Total Other Funding Sources	

Activity Supporting Documents

Document	
2011 VS 2017 Property Appraisal Values - Updated.xls	



Grantee Activity Number: 8-OV-02-3
Activity Title: South Cypress OV - Restoration of Cypress Creek

Activity Category:
 NDR - Environmental Value

Project Number:
 8 - OV

Projected Start Date:
 12/21/2016

Benefit Type:
 ()

National Objective:
 NA

Activity Status:
 Planned

Project Title:
 Outcome Values - OV

Projected End Date:
 06/15/2022

Completed Activity Actual End Date:

Responsible Organization:
 Shelby County Government2

Overall	Oct 1 thru Dec 31, 2017	To Date
Total Projected Budget from All Sources	N/A	\$0.00
Total Budget	\$0.00	\$0.00
Total Obligated	\$0.00	\$0.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Shelby County Government2	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

This Outcome Value Activity will lead to 3000 feet of stream restoration in the Cypress Creek Watershed and Neighborhood. The current baseline is 0 since no stream restoration has occurred at this time. The total feet of stream restored will be reported upon completion of the project with interim feet record when possible each quarter.

Location Description:

South Cypress Creek Watershed Development and Neighborhood Development Project in South Memphis, Tennessee: specifically Census Tract 222.20 Block Groups 2, 3, and 4.

Activity Progress Narrative:

This Outcome Value Activity will lead to 3000 feet of stream restoration in the Cypress Creek Watershed and Neighborhood. The current baseline is 0 since no stream restoration has occurred. The total feet of stream restored will be reported upon completion of the project with interim feet record when possible each quarter. The South Cypress Creek Project is still in the environmental and design phase and no action has taken place which enables a measurement under this outcome value. The next measure will occur in December of 2018.



Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# linear feet of streams restored	0	0/3000

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources	Amount
No Other Funding Sources Found	
Total Other Funding Sources	



Grantee Activity Number:	8-OV-02-4
Activity Title:	South Cypress OV - Reduced Floodplain Occupancy

Activity Category:

NDR - Resilience Value

Project Number:

8 - OV

Projected Start Date:

12/21/2016

Benefit Type:

()

National Objective:

NA

Activity Status:

Planned

Project Title:

Outcome Values - OV

Projected End Date:

06/15/2022

Completed Activity Actual End Date:

Responsible Organization:

Shelby County Government2

Overall	Oct 1 thru Dec 31, 2017	To Date
Total Projected Budget from All Sources	N/A	\$0.00
Total Budget	\$0.00	\$0.00
Total Obligated	\$0.00	\$0.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Shelby County Government2	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

Through a visual survey, a baseline number of units in the 100 year floodway will be identified. The number will be monitored as the South Cypress Creek Project progresses with a ultimate target outcome of having 0 lots in the neighborhood located in the 100 year flood plain. The baseline for this activity is 20 units currently in the floodway as identified by the use of flood maps and a visual survey.

Location Description:

South Cypress Creek Watershed Development and Neighborhood Development Project in South Memphis, Tennessee: specifically Census Tract 222.20 Block Groups 2, 3, and 4.

Activity Progress Narrative:

The baseline for this activity is 20 units currently in the floodway as identified using flood maps and a visual survey. The South Cypress Creek Project is still in the environmental and design phase and no action has taken place which enables a measurement under this outcome value. The next measure will occur in December of 2018.



Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# occupied structures in floodplain	0	20/0

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources	Amount
No Other Funding Sources Found	
Total Other Funding Sources	

Grantee Activity Number:	8-OV-03-1
Activity Title:	Wolf River OV - Increased Greenway Use

Activity Category:

NDR - Social Value

Project Number:

8 - OV

Projected Start Date:

12/21/2016

Benefit Type:

()

National Objective:

NA

Activity Status:

Planned

Project Title:

Outcome Values - OV

Projected End Date:

06/15/2022

Completed Activity Actual End Date:

Responsible Organization:

Shelby County Government2

Overall	Oct 1 thru Dec 31, 2017	To Date
Total Projected Budget from All Sources	N/A	\$0.00
Total Budget	\$0.00	\$0.00
Total Obligated	\$0.00	\$0.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Shelby County Government2	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

This outcome value anticipated increase from no current use to an average daily use of the Wolf River Wetland and Restoration Greenway of 200 individuals. This will include individuals who walk, run, bike, etc. along the system. The current baseline of this value is 0 since the trail is not complete. Reporting on this activity will occur annually.

Location Description:

Wolf River Watershed between Kennedy Park on the East and Rodney Baber Park on the West.

Activity Progress Narrative:

This outcome value anticipates an increase from no current use to an average daily use of the Wolf River Wetland and Restoration Greenway by 200 individuals. This will include individuals who walk, run, bike, etc. along the system. The current baseline of this value is 0 since the trail is not complete. Reporting on this activity will occur annually. The Wolf River Greenway Project and the activities associated with it are still in the environmental review and design stage. Therefore, no measurements on this outcome value are available for reporting for trail usage. The next measure will occur in December of 2018.



Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of users of trail system	0	0/200

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources	Amount
No Other Funding Sources Found	
Total Other Funding Sources	

Grantee Activity Number:	8-OV-03-2
Activity Title:	Wolf River OV - Attracting New Business

Activity Category:

NDR - Economic Value

Project Number:

8 - OV

Projected Start Date:

12/21/2016

Benefit Type:

()

National Objective:

Low/Mod

Activity Status:

Planned

Project Title:

Outcome Values - OV

Projected End Date:

06/15/2022

Completed Activity Actual End Date:

Responsible Organization:

Shelby County Government2

Overall	Oct 1 thru Dec 31, 2017	To Date
Total Projected Budget from All Sources	N/A	\$0.00
Total Budget	\$0.00	\$0.00
Total Obligated	\$0.00	\$0.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Shelby County Government2	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

This outcome values project to attract new businesses to the area as the project moves forward to completion at an estimate of 2 per year. The current base line is 0 and the measure of new businesses opening in the area will be measured annually. The value is to be reviewed annually. The first measure will occur in December 2017.

Location Description:

Wolf River Watershed between Kennedy Park on the East and Rodney Baber Park on the West and new businesses generated within 1/2 mile of this area.

Activity Progress Narrative:

This outcome values projects to attract new businesses to the area as the project moves forward to completion at an estimate of 2 per year. The current base line is 0 and the measure of new businesses opening in the area will be measured annually. The value is to be reviewed annually. The first measure will occur in December 2017. During 2017, no construction began which could be directly attributed to the Wolf River Greenway. However, at the end of 2017, 1,519 businesses were identified with a 1/2 mile radius of the Wolf River Greenway Project Area. This measurement will provide a strong baseline for the outcome value in the future as the Greenway project moves forward toward completion. New business can be tracked against this 2017 list of businesses. A map and list of businesses has been uploaded as attachment to this value. The next measurement will take place in December



2018.

Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of new businesses locating	0	0/2

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources

Amount

No Other Funding Sources Found

Total Other Funding Sources

Activity Supporting Documents

Document Businesses_Within_One_Half_Mile_Wolf_River_ 12-31-2017.xlsx

Document Map_one-half mile buffer of wolf river segment for businesses - 2017 Year end.pdf



Grantee Activity Number:	8-OV-03-3
Activity Title:	Wolf River OV - Increased Wetlands

Activity Category:
NDR - Environmental Value

Activity Status:
Planned

Project Number:
8 - OV

Project Title:
Outcome Values - OV

Projected Start Date:
12/21/2016

Projected End Date:
06/15/2022

Benefit Type:
()

Completed Activity Actual End Date:

National Objective:
NA

Responsible Organization:
Shelby County Government2

Overall	Oct 1 thru Dec 31, 2017	To Date
Total Projected Budget from All Sources	N/A	\$0.00
Total Budget	\$0.00	\$0.00
Total Obligated	\$0.00	\$0.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Shelby County Government2	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

This outcome value projects and increase of 12 acres of wetlands in the project area by project completion. The baseline for this outcome value is 859 acres based on wetland maps of the area between Kennedy and Rodney Baber Park. This expansion will be measured on an annual basis with the first measure occurring in December 2017.

Location Description:

Wolf River Watershed between Kennedy Park on the East and Rodney Baber Park on the West.

Activity Progress Narrative:

This outcome value projects and increase of 12 acres of wetlands in the project area by project completion. The baseline for this outcome value is 859 acres based on wetland maps of the area between Kennedy and Rodney Baber Park. This expansion will be measured on an annual basis with the first measure occurring in December 2017. The Wolf River Greenway Project and the activities associated with it are still in the environmental review and design stage. Therefore, no measurements on this outcome value are available for reporting for increase in wetlands in the area. While in 2017, the Wolf River Conservancy did purchase mitigation credits related to the Wolf River Greenway for Epping Way/Kennedy Park Bike and Pedestrian Trails at the Wolf River. This does not result in the creation on new wetlands. The next measure will occur in December of 2018.



Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# acres of wetlands created	0	859/12

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources	Amount
No Other Funding Sources Found	
Total Other Funding Sources	

Grantee Activity Number:	8-OV-03-4
Activity Title:	Wolf River OV - Flood Cost Reduction

Activity Category:
NDR - Resilience Value

Activity Status:
Planned

Project Number:
8 - OV

Project Title:
Outcome Values - OV

Projected Start Date:
12/21/2016

Projected End Date:
06/15/2022

Benefit Type:
()

Completed Activity Actual End Date:

National Objective:
NA

Responsible Organization:
Shelby County Government2

Overall	Oct 1 thru Dec 31, 2017	To Date
Total Projected Budget from All Sources	N/A	\$0.00
Total Budget	\$0.00	\$0.00
Total Obligated	\$0.00	\$0.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Shelby County Government2	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

Upon completion of the project, this outcome value projects a minimum of \$5,000 in flood damage to the infrastructure of the Rodney Baber due to floodwaters. The measure will be made annually based on flooding in the project area. The baseline for this outcome is the the 2011 damage to Rodney Barer Park in 2011 which was \$66,000. The first annual report is in December 2017.

Location Description:

Wolf River Watershed between Kennedy Park on the East and Rodney Baber Park on the West.

Activity Progress Narrative:

Upon completion of the project, this outcome value projects a minimum of \$5,000 in flood damage to the infrastructure of the Rodney Baber Park due to floodwaters. The measure will be made annually based on flooding in the project area. The baseline for this outcome is the 2011 damage to Rodney Baber Park in 2011 which was \$66,000. The first annual report is in December 2017.

The Wolf River Greenway Project and the activities associated with it are still in the environmental review and design stage. Therefore, no measurements on this outcome value are available for reporting for Rodney Baber Park damage. No changes to the park have taken place. The next measure will occur in December of 2018.



Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
\$ estimated flood loss avoidance	0	66000/5000

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources	Amount
No Other Funding Sources Found	
Total Other Funding Sources	



Grantee Activity Number:	8-OV-04-1
Activity Title:	Big Creek OV - Increased Greenway Use

Activity Category:

NDR - Social Value

Project Number:

8 - OV

Projected Start Date:

12/21/2016

Benefit Type:

()

National Objective:

NA

Activity Status:

Planned

Project Title:

Outcome Values - OV

Projected End Date:

06/15/2022

Completed Activity Actual End Date:

Responsible Organization:

Shelby County Government2

Overall	Oct 1 thru Dec 31, 2017	To Date
Total Projected Budget from All Sources	N/A	\$0.00
Total Budget	\$0.00	\$0.00
Total Obligated	\$0.00	\$0.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Shelby County Government2	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

This outcome value anticipates a use of the new trail system increase in the utilization of of greenways and biking trails resulting from the activity. The current base line is 0 ero with no system in place and will be measured annually as the project moves to completion. The projected us of the system upon completion is an average of 50 users a day. The first measurement will occur in December 2017. The responsible entity is measurement will be the City of Millington/Millington Parks Department.

Location Description:

Big Creek Watershed in Millington, TN from the Naval Support Activity Base on the East along Paul Barrett Parkway to Navy Road on the West.

Activity Progress Narrative:

This outcome value anticipates a use of the new trail system increase in the utilization of greenways and biking trails resulting from the activity. The current base line is 0 with no system in place and will be measured annually as the project moves to completion. The projected use of the system upon completion is an average of 50 users a day. The first measurement will occur in December 2017. The responsible entity is measurement will be the City of Millington/Millington Parks Department. In 2017, the trail system and designs for the Big Creek Project were still under environmental review and design. Therefore, the baseline in 2017 remained at 0. The next report on this outcome value will occur in December 2018.



Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of users of trail system	0	0/50

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources	Amount
No Other Funding Sources Found	
Total Other Funding Sources	

Grantee Activity Number:	8-OV-04-2
Activity Title:	Big Creek OV - Increased Housing Value

Activity Category:

NDR - Economic Value

Project Number:

8 - OV

Projected Start Date:

12/21/2016

Benefit Type:

()

National Objective:

NA

Activity Status:

Planned

Project Title:

Outcome Values - OV

Projected End Date:

06/15/2022

Completed Activity Actual End Date:

Responsible Organization:

Shelby County Government2

Overall	Oct 1 thru Dec 31, 2017	To Date
Total Projected Budget from All Sources	N/A	\$0.00
Total Budget	\$0.00	\$0.00
Total Obligated	\$0.00	\$0.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Shelby County Government2	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

The outcome value projects an increase in the value of building permits pulled in the Millington community of \$1,500,000 for rehabilitation and/or new construction of housing stock by the end of the project. The baseline for this value was the value and number of permits issued in Millington for 2015 which was \$606,638.10 in permit value and 62 permits issues. The Increase in value of housing stock will be measured annually. with the first measurement occurring in December 2016. The Division of Planning and Development is responsible for this measurement. The first report on this value will take place in December 2017.

Location Description:

Big Creek Watershed in Millington, TN from the Naval Support Activity Base on the East along Paul Barrett Parkway to Navy Road on the West. The Millington community is identified as the metric to be used for the measurement.

Activity Progress Narrative:

The outcome value projects an increase in the value of building permits pulled in the Millington community of \$1,500,000 for rehabilitation and/or new construction of housing stock by the end of the project. The baseline for this value was the value and number of permits issued in Millington for 2015 which was \$606,638.10 in permit value and 62 permits issues. The increase in value of housing permits will be measured annually with the first measurement occurring in December 2017. The Division of Planning and Development is responsible for this measurement.

Per Shelby County Code Enforcement, there were 23 Housing building permits issued for rehabilitation and new



construction in 2016 within the Millington Community. These permits totaled \$1,050,748.71. The number of permits issued in 2017 was 25. While the number of permits were down from the baseline in 2015, the value of the permits issued more than doubled in 2017 (from \$606,618.10 in 2016 to \$1,453,062.23). The next measurement will be documented in December 2018.

Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
\$ value of redevelopment	0	606638/15000

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources	Amount
No Other Funding Sources Found	
Total Other Funding Sources	

Activity Supporting Documents

Document Millington Residential Permit 2015 -2016.xlsx

Grantee Activity Number:	8-OV-04-3
Activity Title:	Big Creek OV -Tree Mitigation

Activity Category:
NDR - Environmental Value

Activity Status:
Planned

Project Number:
8 - OV

Project Title:
Outcome Values - OV

Projected Start Date:
12/21/2016

Projected End Date:
06/15/2022

Benefit Type:
()

Completed Activity Actual End Date:

National Objective:
NA

Responsible Organization:
Shelby County Government2

Overall	Oct 1 thru Dec 31, 2017	To Date
Total Projected Budget from All Sources	N/A	\$0.00
Total Budget	\$0.00	\$0.00
Total Obligated	\$0.00	\$0.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Shelby County Government2	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

Tree mitigation will take place over 400 acres of land to insure that there is no loss of the tree canopy due to the overall development of the Big Creek Project. The baseline for this value is 0 in that no trees have been removed from the project area. The planting acreage will be measured annually with the first measurement occurring in December 2017. Shelby County Public Works is responsible for this measurement.

Location Description:

The Big Creek Watershed in Millington, TN from the Naval Support Activity Base on the East along Paul Barrett Parkway to Navy Road on the West. Tree mitigation will occur throughout the Millington community to insure that there is no loss to the overall tree canopy.

Activity Progress Narrative:

Tree mitigation will take place over 400 acres of land to insure there is no loss of the tree canopy due to the overall development of the Big Creek Project. The baseline for this value is 0 in that no trees have been removed from the project area. The planting acreage will be measured annually with the first measurement occurring in December 2017. Shelby County Public Works is responsible for this measurement. During 2017, no tree planting occurred. At this time, no trees have been lost due NDR projects and the actual tree planting activity is being rolled into the environmental review and design which is under way for the Big Creek Project. The next measure will occur in December of 2018.



Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# acres successfully reforested	0	0/400

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources	Amount
No Other Funding Sources Found	
Total Other Funding Sources	

Grantee Activity Number:	8-OV-04-4
Activity Title:	Big Creek OV - Decreased Flood Damage

Activity Category:

NDR - Resilience Value

Project Number:

8 - OV

Projected Start Date:

12/21/2016

Benefit Type:

()

National Objective:

NA

Activity Status:

Planned

Project Title:

Outcome Values - OV

Projected End Date:

06/15/2022

Completed Activity Actual End Date:

Responsible Organization:

Shelby County Government2

Overall	Oct 1 thru Dec 31, 2017	To Date
Total Projected Budget from All Sources	N/A	\$0.00
Total Budget	\$0.00	\$0.00
Total Obligated	\$0.00	\$0.00
Total Funds Drawdown	\$0.00	\$0.00
Program Funds Drawdown	\$0.00	\$0.00
Program Income Drawdown	\$0.00	\$0.00
Program Income Received	\$0.00	\$0.00
Total Funds Expended	\$0.00	\$0.00
Shelby County Government2	\$0.00	\$0.00
Most Impacted and Distressed Expended	\$0.00	\$0.00
Match Contributed	\$0.00	\$0.00

Activity Description:

This outcome value estimates that upon completion of the project Millington can avoid an anticipated \$60,000,000 in flood damage costs and reduce its flood pump operation hours by 20% over the 2010 and 2011 damage. The baseline is a total of \$233 million in damages and 20 hours of flood pump operation. While this cannot truly be assessed until the project is complete and a comparable flood occurs, these metrics will be monitored annually with the first occurring in December 2017.

Location Description:

The Big Creek Watershed in Millington, TN from the Naval Support Activity Base on the East along Paul Barrett Parkway to Navy Road on the West. Tree evaluation will occur throughout the Millington community.

Activity Progress Narrative:

This outcome value estimates that upon completion of the project Millington can avoid an anticipated \$60,000,000 in flood damage costs and reduce its flood pump operation hours by 20% over the 2010 and 2011 damage. The baseline is a total of \$233 million in damages and 20 hours of flood pump operation. While this cannot truly be assessed until the project is complete and a comparable flood occurs. These metrics will be monitored annually with the first occurring in December 2017. During 2017 Millington experienced no flooding due to disasters. This resulted in no measurement for loss due to flood damage or the operation of the flood pumps to address flooding issues in the community. The next measure will occur in December of 2018.



Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
\$ estimated value of flood loss	0	233000000/60

Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

Activity Locations

No Activity Locations found.

Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Other Funding Sources	Amount
No Other Funding Sources Found	
Total Other Funding Sources	

