

Action Plan

Grantee: Shelby County, TN

Grant: B-13-US-47-0002

LOCCS Authorized Amount:	\$ 60,445,163.00
Grant Award Amount:	\$ 60,445,163.00
Status:	Reviewed and Approved
Estimated PI/RL Funds:	\$ 0.00
Total Budget:	\$ 60,445,163.00

Funding Sources

Funding Source	Funding Type
City of Memphis Parks	City Funds
City of Memphis Housing	City Funds
Greater Memphis Chamber of Commerce	Other Private Funds
Shelby County Government	County Funds
Memphis Urban Area Metropolitan Planning	County Funds
Hyde Family Foundation	Other Private Funds
City of Memphis Public Works	City Funds
Wolf River Conservancy	Other Private Funds

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 focusncreating aresilient 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 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, 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 incre

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 NDRC 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 assist period with HUD which terminates in September of 2022. GCR staff members have worked with several state clients to develop, implement, and monitor CDBG-DR 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, 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 carryout 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 carryout activities to stabilize and enhance the living environment 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 it



resilience efforts through the Hydraulic study portion of the Resilience Plan. CAESAR 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.

Project Summary

Project #	Project Title	Grantee Activity #	Activity Title	Grantee Program
1 - NDR	Regional Resilience Plan - NDR	1 - NDR - 01	Hydraulic Modeling	
		1 - NDR - 02	Master Planning	
2 - NDR	South Cypress Creek Watershed &	2 - NDR - 01	Infrastructure	
		2 - NDR - 02	Flood Mitigation/Stormwater	
		2 - NDR - 03	Program Capital Costs	
		2 - NDR - 04	Property Acquisitions	
		2 - NDR - 05	New Housing Development	
		2 - NDR - 06	Engineering and Testing	
3 - NDR	Wolf River Wetland & Restoration	3 - NDR -01	Orchi Road Complete Street - Infrastructure & Cons	
		3 - NDR -02	Rodney Baber Park - Infrastructure & Construction	
		3 - NDR -03	Kennedy Park - Infrastructure & Construction	
		3 - NDR -04	Park Earthwork/Utilities/Demolition	
		3 - NDR -05	Engineering and Testing	
		3 - NDR -06	Property Acquisition	
		3 - NDR -07	Wolf River Greenway - Infrastructure & Constructio	
4 - NDR	Big Creek Wetland & Recreation	4 - NDR - 01	Land Aquisition	
		4 - NDR - 02	Overbank Excavation	
		4 - NDR - 03	Recreational Facilities	
		4 - NDR - 04	Bridge Modifications	
		4 - NDR - 05	Tree Planting	



		4 - NDR - 06	Engineering for Floodway design and landscape arch
5 - NDR	Administration - NDR	5 - NDR - 01	Program Administration
6 - LTC	Long Term Commitments - LTC	6 - LTC - 01	Greenprint
		6 - LTC - 02	Long Term Commitment - Wolf River Conservancy
		6 - LTC - 03	Long Term Commitment - Ready Shelby
		6 - LTC - 04	LTC - Memphis Project Delivery Manual
7 - SL	Supporting Leverage - SL	7 - SL - 01	Greenprint Implementation and Staff Support
		7 - SL - 02	Shelby Farms Greenline and Park Trails
		7 - SL - 03	Main-to-Main Multimodel Connector
		7 - SL - 04	Greenline and Trail Connectors
		7 - SL - 05	Big Creek Drainage Study
8 - OV	Outcome Values - OV	8-OV-01-1	Shelby County OV - Resilience Plan
		8-OV-02-1	South Cypress OV - Repurposed Lots
		8-OV-02-2	South Cypress OV - Property Value Increase
		8-OV-02-3	South Cypress OV - Restoration of Cypress Creek
		8-OV-02-4	South Cypress OV - Reduced Floodplain Occupancy
		8-OV-03-1	Wolf River OV - Increased Greenway Use
		8-OV-03-2	Wolf River OV - Attracting New Business
		8-OV-03-3	Wolf River OV - Increased Wetlands
		8-OV-03-4	Wolf River OV - Flood Cost Reduction
		8-OV-04-1	Big Creek OV - Increased Greenway Use
		8-OV-04-2	Big Creek OV - Increased Housing Value
		8-OV-04-3	Big Creek OV -Tree Mitigation
		8-OV-04-4	Big Creek OV - Decreased Flood Damage
9999	Restricted Balance		<i>No activities in this project</i>

Activities

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

Grantee Activity Number: 1 - NDR - 01

Activity Title: Hydraulic Modeling

Activity Type:

Planning

Project Number:

1 - NDR

Projected Start Date:

03/29/2017

Project Draw Block by HUD:

Not Blocked

Activity Draw Block by HUD:

Not Blocked

Block Drawdown By Grantee:

Not Blocked

National Objective:

Urgent Need: A community development need having a particular urgency because existing conditions pose a serious and immediate threat to the health and welfare of the community

Activity Status:

Completed

Project Title:

Regional Resilience Plan - NDR

Projected End Date:

12/30/2019

Project Draw Block Date by HUD:

Activity Draw Block Date by HUD:

Total Budget: \$ 1,296,569.15

Most Impacted and Distressed Budget: \$ 1,296,569.15

Other Funds: \$ 0.00

Total Funds: \$ 1,296,569.15

Benefit Report Type:

Area Benefit (Census)

Ancillary Activities

None

Projected Accomplishments

of Plans or Planning Products

Total

1

LMI%:

42.42

Proposed budgets for organizations carrying out Activity:

Responsible Organization

Shelby County Government2

Organization Type

Local Government

Proposed Budget

\$ 1,296,569.15



Location Description:

3 watersheds of Shelby County.

Activity Description:

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

Environmental Assessment: EXEMPT

Environmental Reviews: None

Activity Attributes: None

Activity Supporting Documents: None



Grantee Activity Number: 1 - NDR - 02

Activity Title: Master Planning

Activity Type:

Planning

Project Number:

1 - NDR

Projected Start Date:

03/29/2017

Project Draw Block by HUD:

Not Blocked

Activity Draw Block by HUD:

Not Blocked

Block Drawdown By Grantee:

Not Blocked

National Objective:

Urgent Need: A community development need having a particular urgency because existing conditions pose a serious and immediate threat to the health and welfare of the community

Activity Status:

Completed

Project Title:

Regional Resilience Plan - NDR

Projected End Date:

06/29/2019

Project Draw Block Date by HUD:**Activity Draw Block Date by HUD:**

Total Budget: \$ 630,450.65

Most Impacted and Distressed Budget: \$ 630,450.65

Other Funds: \$ 0.00

Total Funds: \$ 630,450.65

Benefit Report Type:

Area Benefit (Census)

Ancillary Activities

None

Projected Accomplishments

of community engagement meetings/events

Total

9

of Plans or Planning Products

1

LMI%:

42.42

Proposed budgets for organizations carrying out Activity:**Responsible Organization**

Shelby County Government2

Organization Type

Local Government

Proposed Budget

\$ 630,450.65

Location Description:

Shelby County, Tennessee

Activity Description:

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

Environmental Assessment: EXEMPT

Environmental Reviews: None

Activity Attributes: None

Activity Supporting Documents: None

Project # / 2 - NDR / South Cypress Creek Watershed & Neighborhood



Grantee Activity Number: 2 - NDR - 01

Activity Title: Infrastructure

Activity Type:

Acquisition, construction, reconstruction of public facilities

Project Number:

2 - NDR

Projected Start Date:

09/01/2019

Project Draw Block by HUD:

Not Blocked

Activity Draw Block by HUD:

Not Blocked

Block Drawdown By Grantee:

Not Blocked

National Objective:

Low/Mod: Benefit to low- and moderate-income persons/families

Benefit Report Type:

Area Benefit (Census)

Ancillary Activities

None

Projected Accomplishments

of Targeted Section 3 Labor Hours

of Section 3 Labor Hours

of Total Labor Hours

of Linear feet of green public improvement

of Acres wetlands

Activity funds eligible for DREF (Ike Only)

of cable feet of public utility

of Linear miles of Public Improvement

of Linear feet of Public Improvement

of Non-business Organizations benefitting

of public facilities

of buildings (non-residential)

of Properties

Total

16000

LMI%:

75.23



Proposed budgets for organizations carrying out Activity:

Responsible Organization	Organization Type	Proposed Budget
Shelby County Government2	Local Government	\$ 4,112,192.08

Location Description:

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

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.

Environmental Assessment: UNDERWAY

Environmental Reviews: None

Activity Attributes

Subject to Section 3 Requirements: Yes

Activity Supporting Documents: None



Grantee Activity Number: 2 - NDR - 02

Activity Title: Flood Mitigation/Stormwater

Activity Type:

Dike/dam/stream-river bank repairs

Project Number:

2 - NDR

Projected Start Date:

09/01/2019

Project Draw Block by HUD:

Not Blocked

Activity Draw Block by HUD:

Not Blocked

Block Drawdown By Grantee:

Not Blocked

National Objective:

Low/Mod: Benefit to low- and moderate-income persons/families

Activity Status:

Under Way

Project Title:

South Cypress Creek Watershed &

Projected End Date:

02/28/2026

Project Draw Block Date by HUD:**Activity Draw Block Date by HUD:**

Total Budget: \$ 2,038,736.00

Most Impacted and Distressed Budget: \$ 2,038,736.00

Other Funds: \$ 5,000,000.00

Total Funds: \$ 7,038,736.00

Benefit Report Type:

Area Benefit (Census)

Ancillary Activities

None

Projected Accomplishments

of Targeted Section 3 Labor Hours

of Section 3 Labor Hours

of Total Labor Hours

Activity funds eligible for DREF (Ike Only)

of Linear miles of Public Improvement

of Linear feet of Public Improvement

of public facilities

Total

1

LMI%:

75.23

Proposed budgets for organizations carrying out Activity:**Responsible Organization**

Shelby County Government2

Organization Type

Local Government

Proposed Budget

\$ 2,038,736.00

Funding Source Name**Matching Funds****Funding Amount**

City of Memphis Public Works

No

\$ 5,000,000.00

Location Description:

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

Activity Description:

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

Environmental Assessment: COMPLETED

Environmental Reviews: None

Activity Attributes

Subject to Section 3 Requirements: Yes

Activity Supporting Documents: None



Grantee Activity Number: 2 - NDR - 03

Activity Title: Program Capital Costs

Activity Type:

Acquisition, construction, reconstruction of public facilities

Project Number:

2 - NDR

Projected Start Date:

09/01/2019

Project Draw Block by HUD:

Not Blocked

Activity Draw Block by HUD:

Not Blocked

Block Drawdown By Grantee:

Not Blocked

National Objective:

Low/Mod: Benefit to low- and moderate-income persons/families

Benefit Report Type:

Area Benefit (Census)

Ancillary Activities

None

Projected Accomplishments

of Targeted Section 3 Labor Hours

of Section 3 Labor Hours

of Total Labor Hours

of Linear feet of green public improvement

of Acres wetlands

Activity funds eligible for DREF (Ike Only)

of cable feet of public utility

of Linear miles of Public Improvement

of Linear feet of Public Improvement

of Non-business Organizations benefitting

of public facilities

of buildings (non-residential)

of Properties

Activity Status:

Under Way

Project Title:

South Cypress Creek Watershed &

Projected End Date:

02/28/2026

Project Draw Block Date by HUD:**Activity Draw Block Date by HUD:**

Total Budget: \$ 450,000.00

Most Impacted and Distressed Budget: \$ 450,000.00

Other Funds: \$ 0.00

Total Funds: \$ 450,000.00

Total

85

LMI%:

75.23



Proposed budgets for organizations carrying out Activity:

Responsible Organization

Shelby County Government2

Organization Type

Local Government

Proposed Budget

\$ 450,000.00

Location Description:

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

Activity Description:

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

Environmental Assessment: COMPLETED

Environmental Reviews: None

Activity Attributes

Subject to Section 3 Requirements: Yes

Activity Supporting Documents: None



Grantee Activity Number: 2 - NDR - 04

Activity Title: Property Acquisitions

Activity Type:

Acquisition - general

Project Number:

2 - NDR

Projected Start Date:

11/15/2019

Project Draw Block by HUD:

Not Blocked

Activity Draw Block by HUD:

Not Blocked

Block Drawdown By Grantee:

Not Blocked

National Objective:

Urgent Need: A community development need having a particular urgency because existing conditions pose a serious and immediate threat to the health and welfare of the community

Activity Status:

Completed

Project Title:

South Cypress Creek Watershed &

Projected End Date:

09/30/2025

Project Draw Block Date by HUD:**Activity Draw Block Date by HUD:**

Total Budget: \$ 622,485.92

Most Impacted and Distressed Budget: \$ 622,485.92

Other Funds: \$ 0.00

Total Funds: \$ 622,485.92

Benefit Report Type:

Area Benefit (Census)

Ancillary Activities

None

Projected Accomplishments

Total acquisition compensation to owners

of Parcels acquired voluntarily

Total

1901678

14

LMI%:

75.23

Proposed budgets for organizations carrying out Activity:**Responsible Organization**

Shelby County Government2

Organization Type

Local Government

Proposed Budget

\$ 622,485.92

Location Description:

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



Activity Description:

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

Environmental Assessment: COMPLETED

Environmental Reviews: None

Activity Attributes: None

Activity Supporting Documents: None



Grantee Activity Number: 2 - NDR - 05

Activity Title: New Housing Development

Activity Type:

Rehabilitation/reconstruction of residential structures

Project Number:

2 - NDR

Projected Start Date:

11/15/2019

Project Draw Block by HUD:

Not Blocked

Activity Draw Block by HUD:

Not Blocked

Block Drawdown By Grantee:

Not Blocked

National Objective:

Low/Mod: Benefit to low- and moderate-income persons/families

Benefit Report Type:

Direct (Households)

Activity Status:

Cancelled

Project Title:

South Cypress Creek Watershed &

Projected End Date:

09/30/2023

Project Draw Block Date by HUD:**Activity Draw Block Date by HUD:**

Total Budget: \$ 0.00

Most Impacted and Distressed Budget: \$ 0.00

Other Funds: \$ 0.00

Total Funds: \$ 0.00

Ancillary Activities

None

Projected Beneficiaries

of Households

Total

Low

Mod

Low/Mod%

0.0

Projected Accomplishments

of Singlefamily Units

of Housing Units

Total

Proposed budgets for organizations carrying out Activity:**Responsible Organization**

Shelby County Government2

Organization Type

Local Government

Proposed Budget

\$ 0.00

Funding Source Name

City of Memphis Housing

Matching Funds

No

Funding Amount

\$ 0.00

Location Description:

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



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.

Environmental Assessment: COMPLETED

Environmental Reviews: None

Activity Attributes: None

Activity Supporting Documents: None



Grantee Activity Number: 2 - NDR - 06

Activity Title: Engineering and Testing

Activity Type:

Acquisition, construction, reconstruction of public facilities

Project Number:

2 - NDR

Projected Start Date:

03/30/2017

Project Draw Block by HUD:

Not Blocked

Activity Draw Block by HUD:

Not Blocked

Block Drawdown By Grantee:

Not Blocked

National Objective:

Low/Mod: Benefit to low- and moderate-income persons/families

Benefit Report Type:

Area Benefit (Census)

Ancillary Activities

None

Projected Accomplishments

of Targeted Section 3 Labor Hours
of Section 3 Labor Hours
of Total Labor Hours
of Linear feet of green public improvement
of Acres wetlands
Activity funds eligible for DREF (Ike Only)
of cable feet of public utility
of Linear miles of Public Improvement
of Linear feet of Public Improvement
of Non-business Organizations benefitting
of public facilities
of buildings (non-residential)
of Properties

Total

15

LMI%:

75.23



Proposed budgets for organizations carrying out Activity:

Responsible Organization

Shelby County Government2

Organization Type

Local Government

Proposed Budget

\$ 3,272,851.23

Location Description:

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

Activity Description:

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

This activity is related to professional service contracts. Section 3 does not apply.

Environmental Assessment: EXEMPT

Environmental Reviews: None

Activity Attributes

Subject to Section 3 Requirements: Yes

Activity Supporting Documents: None

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



Grantee Activity Number: 3 - NDR -01

Activity Title: Orchi Road Complete Street - Infrastructure & Cons

Activity Type:

Construction/reconstruction of streets

Project Number:

3 - NDR

Projected Start Date:

04/01/2019

Project Draw Block by HUD:

Not Blocked

Activity Draw Block by HUD:

Not Blocked

Block Drawdown By Grantee:

Not Blocked

National Objective:

Low/Mod: Benefit to low- and moderate-income persons/families

Benefit Report Type:

Area Benefit (Census)

Ancillary Activities

None

Projected Accomplishments

of Linear miles of Public Improvement

of Linear feet of Public Improvement

Total

LMI%:	60.9
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Proposed budgets for organizations carrying out Activity:**Responsible Organization**

Shelby County Government2

Organization Type

Local Government

Proposed Budget

\$ 0.00

Location Description:

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

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

Environmental Assessment: COMPLETED

Environmental Reviews: None

Activity Attributes

Subject to Section 3 Requirements: Yes

Activity Supporting Documents: None



Grantee Activity Number: 3 - NDR -02

Activity Title: Rodney Baber Park - Infrastructure & Construction

Activity Type:

Acquisition, construction, reconstruction of public facilities

Project Number:

3 - NDR

Projected Start Date:

03/31/2019

Project Draw Block by HUD:

Not Blocked

Activity Draw Block by HUD:

Not Blocked

Block Drawdown By Grantee:

Not Blocked

National Objective:

Low/Mod: Benefit to low- and moderate-income persons/families

Benefit Report Type:

Area Benefit (Census)

Ancillary Activities

None

Projected Accomplishments

of Targeted Section 3 Labor Hours
of Section 3 Labor Hours
of Total Labor Hours
of Linear feet of green public improvement
of Acres wetlands
Activity funds eligible for DREF (Ike Only)
of cable feet of public utility
of Linear miles of Public Improvement
of Linear feet of Public Improvement
of Non-business Organizations benefitting
of public facilities
of buildings (non-residential)
of Properties

Total

2500

1

2

Activity Status:

Under Way

Project Title:

Wolf River Wetland & Restoration

Projected End Date:

06/30/2025

Project Draw Block Date by HUD:**Activity Draw Block Date by HUD:**

Total Budget: \$ 2,897,967.14

Most Impacted and Distressed Budget: \$ 2,897,967.14

Other Funds: \$ 2,064,904.31

Total Funds: \$ 4,962,871.45



Proposed budgets for organizations carrying out Activity:

Responsible Organization	Organization Type	Proposed Budget
Shelby County Government2	Local Government	\$ 2,897,967.14

Funding Source Name	Matching Funds	Funding Amount
City of Memphis Public Works	No	\$ 2,064,904.31

Location Description:

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

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.

Environmental Assessment: COMPLETED

Environmental Reviews: None

Activity Attributes

Subject to Section 3 Requirements: Yes

Activity Supporting Documents: None

Grantee Activity Number: 3 - NDR -03

Activity Title: Kennedy Park - Infrastructure & Construction

Activity Type:

Acquisition, construction, reconstruction of public facilities

Project Number:

3 - NDR

Projected Start Date:

04/01/2019

Project Draw Block by HUD:

Not Blocked

Activity Draw Block by HUD:

Not Blocked

Block Drawdown By Grantee:

Not Blocked

National Objective:

Low/Mod: Benefit to low- and moderate-income persons/families

Benefit Report Type:

Area Benefit (Census)

Ancillary Activities

None

Projected Accomplishments

- # of Targeted Section 3 Labor Hours
- # of Section 3 Labor Hours
- # of Total Labor Hours
- # of Linear feet of green public improvement
- # of Acres wetlands
- Activity funds eligible for DREF (Ike Only)
- # of cable feet of public utility
- # of Linear miles of Public Improvement
- # of Linear feet of Public Improvement
- # of Non-business Organizations benefitting
- # of public facilities
- # of buildings (non-residential)
- # of Properties

Total

1000

1

LMI%:	62
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Proposed budgets for organizations carrying out Activity:

Responsible Organization	Organization Type	Proposed Budget
Shelby County Government2	Local Government	\$ 656,462.88
Funding Source Name	Matching Funds	Funding Amount
City of Memphis Public Works	No	\$ 1,287,549.35

Location Description:

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

Activity Description:

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

Environmental Assessment: COMPLETED

Environmental Reviews: None

Activity Attributes: None

Activity Supporting Documents: None



Grantee Activity Number: 3 - NDR -04

Activity Title: Park Earthwork/Utilities/Demolition

Activity Type:

Acquisition, construction, reconstruction of public facilities

Project Number:

3 - NDR

Projected Start Date:

04/01/2019

Project Draw Block by HUD:

Not Blocked

Activity Draw Block by HUD:

Not Blocked

Block Drawdown By Grantee:

Not Blocked

National Objective:

Low/Mod: Benefit to low- and moderate-income persons/families

Benefit Report Type:

Area Benefit (Census)

Ancillary Activities

None

Projected Accomplishments

of Targeted Section 3 Labor Hours
of Section 3 Labor Hours
of Total Labor Hours
of Linear feet of green public improvement
of Acres wetlands
Activity funds eligible for DREF (Ike Only)
of cable feet of public utility
of Linear miles of Public Improvement
of Linear feet of Public Improvement
of Non-business Organizations benefitting
of public facilities
of buildings (non-residential)
of Properties

Total

5

LMI%:

62



Proposed budgets for organizations carrying out Activity:

Responsible Organization	Organization Type	Proposed Budget
Shelby County Government2	Local Government	\$ 3,929,985.00

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 Description:

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

Environmental Assessment: COMPLETED

Environmental Reviews: None

Activity Attributes

Subject to Section 3 Requirements: Yes

Activity Supporting Documents: None



Grantee Activity Number: 3 - NDR -05

Activity Title: Engineering and Testing

Activity Type:

Acquisition, construction, reconstruction of public facilities

Project Number:

3 - NDR

Projected Start Date:

04/01/2017

Project Draw Block by HUD:

Not Blocked

Activity Draw Block by HUD:

Not Blocked

Block Drawdown By Grantee:

Not Blocked

National Objective:

Urgent Need: A community development need having a particular urgency because existing conditions pose a serious and immediate threat to the health and welfare of the community

Activity Status:

Under Way

Project Title:

Wolf River Wetland & Restoration

Projected End Date:

09/30/2025

Project Draw Block Date by HUD:**Activity Draw Block Date by HUD:**

Total Budget: \$ 1,862,527.44

Most Impacted and Distressed Budget: \$ 1,862,527.44

Other Funds: \$ 11,546.34

Total Funds: \$ 1,874,073.78

Benefit Report Type:

Area Benefit (Census)

Ancillary Activities

None

Projected Accomplishments**Total**

of Targeted Section 3 Labor Hours

of Section 3 Labor Hours

of Total Labor Hours

of Linear feet of green public improvement

1000

of Acres wetlands

Activity funds eligible for DREF (Ike Only)

of cable feet of public utility

of Linear miles of Public Improvement

of Linear feet of Public Improvement

of Non-business Organizations benefitting

of public facilities

of buildings (non-residential)

of Properties



Proposed budgets for organizations carrying out Activity:

Responsible Organization	Organization Type	Proposed Budget
Shelby County Government2	Local Government	\$ 1,862,527.44

Funding Source Name	Matching Funds	Funding Amount
City of Memphis Public Works	No	\$ 11,546.34

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 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.
This activity is related to professional service contracts. Section 3 does not apply.

Environmental Assessment: EXEMPT

Environmental Reviews: None

Activity Attributes

Subject to Section 3 Requirements: Yes

Activity Supporting Documents: None

Grantee Activity Number: 3 - NDR -06

Activity Title: Property Acquisition

Activity Type:

Acquisition - general

Project Number:

3 - NDR

Projected Start Date:

03/07/2019

Project Draw Block by HUD:

Not Blocked

Activity Draw Block by HUD:

Not Blocked

Block Drawdown By Grantee:

Not Blocked

National Objective:

Urgent Need: A community development need having a particular urgency because existing conditions pose a serious and immediate threat to the health and welfare of the community

Activity Status:

Cancelled

Project Title:

Wolf River Wetland & Restoration

Projected End Date:

09/10/2020

Project Draw Block Date by HUD:**Activity Draw Block Date by HUD:**

Total Budget: \$ 0.00

Most Impacted and Distressed Budget: \$ 0.00

Other Funds: \$ 0.00

Total Funds: \$ 0.00

Benefit Report Type:

Area Benefit (Census)

Ancillary Activities

None

Projected Accomplishments**Total**

Total acquisition compensation to owners

of Parcels acquired voluntarily

LMI%:	62
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Proposed budgets for organizations carrying out Activity:**Responsible Organization**

Shelby County Government2

Organization Type

Local Government

Proposed Budget

\$ 0.00

Location Description:

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

Activity Description:

Original 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.

Reason for Cancellation of Activity: This activity was planned to acquire property easements along the Wolf River Greenway. We are not requiring any purchases of property for Rodney Baber. Therefore, this activity was cancelled on September 11, 2020.

Environmental Assessment: UNDERWAY

Environmental Reviews: None

Activity Attributes: None

Activity Supporting Documents: None



Grantee Activity Number: 3 - NDR -07

Activity Title: Wolf River Greenway - Infrastructure & Constructio

Activity Type:

Acquisition, construction, reconstruction of public facilities

Project Number:

3 - NDR

Projected Start Date:

09/01/2017

Project Draw Block by HUD:

Not Blocked

Activity Draw Block by HUD:

Not Blocked

Block Drawdown By Grantee:

Not Blocked

National Objective:

Low/Mod: Benefit to low- and moderate-income persons/families

Benefit Report Type:

Area Benefit (Census)

Activity Status:

Under Way

Project Title:

Wolf River Wetland & Restoration

Projected End Date:

09/30/2025

Project Draw Block Date by HUD:**Activity Draw Block Date by HUD:**

Total Budget: \$ 7,405,731.31

Most Impacted and Distressed Budget: \$ 7,405,731.31

Other Funds: \$ 31,500,000.00

Total Funds: \$ 38,905,731.31

Ancillary Activities

None

Projected Accomplishments**Total**

of Targeted Section 3 Labor Hours

of Section 3 Labor Hours

of Total Labor Hours

of Linear feet of green public improvement

18000

of Acres wetlands

Activity funds eligible for DREF (Ike Only)

of cable feet of public utility

of Linear miles of Public Improvement

of Linear feet of Public Improvement

of Non-business Organizations benefitting

of public facilities

of buildings (non-residential)

of Properties



Proposed budgets for organizations carrying out Activity:

Responsible Organization	Organization Type	Proposed Budget
Shelby County Government2	Local Government	\$ 7,405,731.31
Funding Source Name	Matching Funds	Funding Amount
Wolf River Conservancy	No	\$ 31,500,000.00

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 Description:

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

Environmental Assessment: COMPLETED

Environmental Reviews: None

Activity Attributes: None

Activity Supporting Documents: None

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

Grantee Activity Number: 4 - NDR - 01

Activity Title: Land Aquisition

Activity Type:

Acquisition - general

Project Number:

4 - NDR

Projected Start Date:

09/01/2019

Project Draw Block by HUD:

Not Blocked

Activity Draw Block by HUD:

Not Blocked

Block Drawdown By Grantee:

Not Blocked

National Objective:

Urgent Need: A community development need having a particular urgency because existing conditions pose a serious and immediate threat to the health and welfare of the community

Activity Status:

Under Way

Project Title:

Big Creek Wetland & Recreation Area -

Projected End Date:

09/30/2025

Project Draw Block Date by HUD:**Activity Draw Block Date by HUD:**

Total Budget: \$ 347,848.50

Most Impacted and Distressed Budget: \$ 347,848.50

Other Funds: \$ 1,000,000.00

Total Funds: \$ 1,347,848.50

Benefit Report Type:

Area Benefit (Census)

Ancillary Activities

None

Projected Accomplishments

Total acquisition compensation to owners

of Parcels acquired voluntarily

Total

640000

15

LMI%:

34.39

Proposed budgets for organizations carrying out Activity:**Responsible Organization**

Shelby County Government2

Organization Type

Local Government

Proposed Budget

\$ 347,848.50

Funding Source Name

Shelby County Government

Matching Funds

No

Funding Amount

\$ 1,000,000.00

Location Description:

Big Creek Watershed in Millington, TN from the Naval Support Activity Base on the East along Paul Barrett Parkway to Highway 51 on the West



Located around 35.198212, -89.910189

Activity Description:

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

Environmental Assessment: UNDERWAY

Environmental Reviews: None

Activity Attributes: None

Activity Supporting Documents: None



Grantee Activity Number: 4 - NDR - 02

Activity Title: Overbank Excavation

Activity Type:

Acquisition, construction, reconstruction of public facilities

Project Number:

4 - NDR

Projected Start Date:

09/01/2019

Project Draw Block by HUD:

Not Blocked

Activity Draw Block by HUD:

Not Blocked

Block Drawdown By Grantee:

Not Blocked

National Objective:

Low/Mod: Benefit to low- and moderate-income persons/families

Benefit Report Type:

Area Benefit (Census)

Ancillary Activities

None

Projected Accomplishments

of Targeted Section 3 Labor Hours

of Section 3 Labor Hours

of Total Labor Hours

of Linear feet of green public improvement

of Acres wetlands

Activity funds eligible for DREF (Ike Only)

of cable feet of public utility

of Linear miles of Public Improvement

of Linear feet of Public Improvement

of Non-business Organizations benefitting

of public facilities

of buildings (non-residential)

of Properties

Total

500

LMI%:

52.61



Proposed budgets for organizations carrying out Activity:

Responsible Organization	Organization Type	Proposed Budget
Shelby County Government2	Local Government	\$ 17,191,198.00
Funding Source Name	Matching Funds	Funding Amount
Shelby County Government	No	\$ 2,000,000.00

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 Highway 51 on the West
35.198212, -89.910189

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.

Environmental Assessment: COMPLETED

Environmental Reviews: None

Activity Attributes

Subject to Section 3 Requirements: Yes
Disaster Type: Flood

Activity Supporting Documents: None



Grantee Activity Number: 4 - NDR - 03

Activity Title: Recreational Facilities

Activity Type:

Acquisition, construction, reconstruction of public facilities

Project Number:

4 - NDR

Projected Start Date:

09/01/2019

Project Draw Block by HUD:

Not Blocked

Activity Draw Block by HUD:

Not Blocked

Block Drawdown By Grantee:

Not Blocked

National Objective:

Urgent Need: A community development need having a particular urgency because existing conditions pose a serious and immediate threat to the health and welfare of the community

Activity Status:

Under Way

Project Title:

Big Creek Wetland & Recreation Area -

Projected End Date:

09/30/2025

Project Draw Block Date by HUD:**Activity Draw Block Date by HUD:**

Total Budget: \$ 5,236,797.00

Most Impacted and Distressed Budget: \$ 5,236,797.00

Other Funds: \$ 1,086,232.53

Total Funds: \$ 6,323,029.53

Benefit Report Type:

Area Benefit (Census)

Ancillary Activities

None

Projected Accomplishments**Total**

of Targeted Section 3 Labor Hours

of Section 3 Labor Hours

of Total Labor Hours

of Linear feet of green public improvement

of Acres wetlands

Activity funds eligible for DREF (Ike Only)

of cable feet of public utility

of Linear miles of Public Improvement

4

of Linear feet of Public Improvement

3

of Non-business Organizations benefitting

of public facilities

of buildings (non-residential)

1

of Properties



Proposed budgets for organizations carrying out Activity:

Responsible Organization	Organization Type	Proposed Budget
Shelby County Government2	Local Government	\$ 5,236,797.00
Funding Source Name	Matching Funds	Funding Amount
Shelby County Government	No	\$ 1,086,232.53

Location Description:

Big Creek Watershed in Millington, TN from the Naval Support Activity Base on the East along Paul Barrett Parkway to Highway 51 on the West.
35.198212, -89.910189

Activity Description:

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

Environmental Assessment: COMPLETED

Environmental Reviews: None

Activity Attributes

Subject to Section 3 Requirements: Yes

Activity Supporting Documents: None



Grantee Activity Number: 4 - NDR - 04

Activity Title: Bridge Modifications

Activity Type:

Acquisition, construction, reconstruction of public facilities

Project Number:

4 - NDR

Projected Start Date:

09/01/2019

Project Draw Block by HUD:

Not Blocked

Activity Draw Block by HUD:

Not Blocked

Block Drawdown By Grantee:

Not Blocked

National Objective:

Low/Mod: Benefit to low- and moderate-income persons/families

Benefit Report Type:

Area Benefit (Census)

Ancillary Activities

None

Projected Accomplishments

of Targeted Section 3 Labor Hours
of Section 3 Labor Hours
of Total Labor Hours
of Linear feet of green public improvement
of Acres wetlands
Activity funds eligible for DREF (Ike Only)
of cable feet of public utility
of Linear miles of Public Improvement
of Linear feet of Public Improvement
of Non-business Organizations benefitting
of public facilities
of buildings (non-residential)
of Properties

Total

4

LMI%:	52.61
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Proposed budgets for organizations carrying out Activity:

Responsible Organization	Organization Type	Proposed Budget
Shelby County Government2	Local Government	\$ 1,953,027.00

Location Description:

Big Creek Watershed in Millington, TN from the Naval Support Activity Base on the East along Paul Barrett Parkway to Highway 51 on the West.
35.198212, -89.910189

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.

Environmental Assessment: COMPLETED

Environmental Reviews: None

Activity Attributes

Subject to Section 3 Requirements: Yes

Activity Supporting Documents: None



Grantee Activity Number: 4 - NDR - 05

Activity Title: Tree Planting

Activity Type:

Acquisition, construction, reconstruction of public facilities

Project Number:

4 - NDR

Projected Start Date:

09/01/2019

Project Draw Block by HUD:

Not Blocked

Activity Draw Block by HUD:

Not Blocked

Block Drawdown By Grantee:

Not Blocked

National Objective:

Urgent Need: A community development need having a particular urgency because existing conditions pose a serious and immediate threat to the health and welfare of the community

Activity Status:

Under Way

Project Title:

Big Creek Wetland & Recreation Area -

Projected End Date:

09/30/2025

Project Draw Block Date by HUD:**Activity Draw Block Date by HUD:**

Total Budget: \$ 125,000.00

Most Impacted and Distressed Budget: \$ 125,000.00

Other Funds: \$ 0.00

Total Funds: \$ 125,000.00

Benefit Report Type:

Area Benefit (Census)

Ancillary Activities

None

Projected Accomplishments**Total**

of Targeted Section 3 Labor Hours

of Section 3 Labor Hours

of Total Labor Hours

of Linear feet of green public improvement

80000

of Acres wetlands

Activity funds eligible for DREF (Ike Only)

of cable feet of public utility

of Linear miles of Public Improvement

of Linear feet of Public Improvement

of Non-business Organizations benefitting

of public facilities

of buildings (non-residential)

of Properties



Proposed budgets for organizations carrying out Activity:

Responsible Organization	Organization Type	Proposed Budget
Shelby County Government2	Local Government	\$ 125,000.00

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 Description:

This activity is for the replanting of new tree canopy to ensure 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 forty trees per acre.

Environmental Assessment: COMPLETED

Environmental Reviews: None

Activity Attributes

Subject to Section 3 Requirements: Yes

Activity Supporting Documents: None



Grantee Activity Number: 4 - NDR - 06

Activity Title: Engineering for Floodway design and landscape arch

Activity Type:

Acquisition, construction, reconstruction of public facilities

Project Number:

4 - NDR

Projected Start Date:

12/31/2016

Project Draw Block by HUD:

Not Blocked

Activity Draw Block by HUD:

Not Blocked

Block Drawdown By Grantee:

Not Blocked

National Objective:

Urgent Need: A community development need having a particular urgency because existing conditions pose a serious and immediate threat to the health and welfare of the community

Activity Status:

Under Way

Project Title:

Big Creek Wetland & Recreation Area -

Projected End Date:

09/30/2025

Project Draw Block Date by HUD:**Activity Draw Block Date by HUD:**

Total Budget: \$ 4,051,204.00

Most Impacted and Distressed Budget: \$ 4,051,204.00

Other Funds: \$ 940,353.04

Total Funds: \$ 4,991,557.04

Benefit Report Type:

Area Benefit (Census)

Ancillary Activities

None

Projected Accomplishments**Total**

of Targeted Section 3 Labor Hours

of Section 3 Labor Hours

of Total Labor Hours

of Linear feet of green public improvement

of Acres wetlands

500

Activity funds eligible for DREF (Ike Only)

of cable feet of public utility

of Linear miles of Public Improvement

4

of Linear feet of Public Improvement

of Non-business Organizations benefitting

of public facilities

3

of buildings (non-residential)

1



of Properties

LMI%:	34.39
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Proposed budgets for organizations carrying out Activity:

Responsible Organization	Organization Type	Proposed Budget
Shelby County Government2	Local Government	\$ 4,051,204.00
Funding Source Name	Matching Funds	Funding Amount
Shelby County Government	No	\$ 940,353.04

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 Highway 51 on the West.

35.198212, -89.910189

Activity Description:

Architect/Engineering and testing for design of the overbank excavation, flood mitigation and recreational facilities. This activity is related to professional service contracts. Section 3 does not apply.

Environmental Assessment: EXEMPT

Environmental Reviews: None

Activity Attributes

Subject to Section 3 Requirements: No

Activity Supporting Documents: None

Project # / 5 - NDR / Administration - NDR



Grantee Activity Number: 5 - NDR - 01

Activity Title: Program Administration

Activity Type:

Administration

Project Number:

5 - NDR

Projected Start Date:

02/28/2017

Project Draw Block by HUD:

Not Blocked

Activity Draw Block by HUD:

Not Blocked

Block Drawdown By Grantee:

Not Blocked

National Objective:

Not Applicable (for Planning/Administration or Unprogrammed Funds only)

Benefit Report Type:

NA

Ancillary Activities

None

Proposed budgets for organizations carrying out Activity:**Responsible Organization**

Shelby County Government2

Organization Type

Local Government

Proposed Budget

\$ 2,364,129.70

Location Description:

Shelby County Division of Planning and Development

Activity Description:

Grant Administration by Shelby County, Tennessee staff and consultants.

Activity Status:

Under Way

Project Title:

Administration - NDR

Projected End Date:

09/30/2025

Project Draw Block Date by HUD:**Activity Draw Block Date by HUD:**

Total Budget: \$ 2,364,129.70

Most Impacted and Distressed Budget: \$ 2,364,129.70

Other Funds: \$ 0.00

Total Funds: \$ 2,364,129.70



Environmental Assessment: EXEMPT

Environmental Reviews: None

Activity Attributes: None

Activity Supporting Documents:

Document Shelby County TN NDR - Projected Expenditures and Outcomes.xlsx

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



Grantee Activity Number: 6 - LTC - 01

Activity Title: Greenprint

Activity Type:

NDR - Resilience Value

Project Number:

6 - LTC

Projected Start Date:

07/01/2012

Project Draw Block by HUD:

Not Blocked

Activity Draw Block by HUD:

Not Blocked

Block Drawdown By Grantee:

Not Blocked

National Objective:

Not Applicable (for Planning/Administration or Unprogrammed Funds only)

Benefit Report Type:

NA

Activity Status:

Completed

Project Title:

Long Term Commitments - LTC

Projected End Date:

01/31/2017

Project Draw Block Date by HUD:**Activity Draw Block Date by HUD:****Total Budget:** \$ 0.00**Most Impacted and Distressed Budget:** \$ 0.00**Other Funds:** \$ 0.00**Total Funds:** \$ 0.00**Ancillary Activities**

None

Projected Accomplishments

of jurisdictions adopting Greenprint Plan

Total

22

Proposed budgets for organizations carrying out Activity:**Responsible Organization**

Shelby County Government2

Organization Type

Local Government

Proposed Budget

\$ 0.00

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 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 Reigion 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.

Environmental Assessment: EXEMPT

Environmental Reviews: None

Activity Attributes: None

Activity Supporting Documents: None



Grantee Activity Number: 6 - LTC - 02

Activity Title: Long Term Commitment - Wolf River Conservancy

Activity Type:

NDR - Resilience Value

Project Number:

6 - LTC

Projected Start Date:

01/01/2015

Project Draw Block by HUD:

Not Blocked

Activity Draw Block by HUD:

Not Blocked

Block Drawdown By Grantee:

Not Blocked

National Objective:

Not Applicable (for Planning/Administration or Unprogrammed Funds only)

Benefit Report Type:

NA

Activity Status:

Completed

Project Title:

Long Term Commitments - LTC

Projected End Date:

01/31/2017

Project Draw Block Date by HUD:**Activity Draw Block Date by HUD:**

Total Budget: \$ 0.00

Most Impacted and Distressed Budget: \$ 0.00

Other Funds: \$ 0.00

Total Funds: \$ 0.00

Ancillary Activities

None

Projected Accomplishments

of acres of wetland created/restored

Total

900

Proposed budgets for organizations carrying out Activity:**Responsible Organization**

Shelby County Government2

Organization Type

Local Government

Proposed Budget

\$ 0.00

Location Description:

The Wolf 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 through 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 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.

Environmental Assessment: EXEMPT

Environmental Reviews: None

Activity Attributes: None

Activity Supporting Documents: None



Grantee Activity Number: 6 - LTC - 03

Activity Title: Long Term Commitment - Ready Shelby

Activity Type:

NDR - Resilience Value

Project Number:

6 - LTC

Projected Start Date:

01/01/2015

Project Draw Block by HUD:

Not Blocked

Activity Draw Block by HUD:

Not Blocked

Block Drawdown By Grantee:

Not Blocked

National Objective:

Not Applicable (for Planning/Administration or Unprogrammed Funds only)

Benefit Report Type:

NA

Activity Status:

Completed

Project Title:

Long Term Commitments - LTC

Projected End Date:

01/31/2017

Project Draw Block Date by HUD:**Activity Draw Block Date by HUD:**

Total Budget: \$ 0.00

Most Impacted and Distressed Budget: \$ 0.00

Other Funds: \$ 0.00

Total Funds: \$ 0.00

Ancillary Activities

None

Projected Accomplishments

of households reached

Total

200000

Proposed budgets for organizations carrying out Activity:**Responsible Organization**

Shelby County Government2

Organization Type

Local Government

Proposed Budget

\$ 0.00

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 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.

Environmental Assessment: EXEMPT

Environmental Reviews: None

Activity Attributes: None

Activity Supporting Documents: None



Grantee Activity Number: 6 - LTC - 04

Activity Title: LTC - Memphis Project Delivery Manual

Activity Type:

NDR - Resilience Value

Project Number:

6 - LTC

Projected Start Date:

01/01/2015

Project Draw Block by HUD:

Not Blocked

Activity Draw Block by HUD:

Not Blocked

Block Drawdown By Grantee:

Not Blocked

National Objective:

Not Applicable (for Planning/Administration or Unprogrammed Funds only)

Benefit Report Type:

NA

Activity Status:

Completed

Project Title:

Long Term Commitments - LTC

Projected End Date:

01/01/2017

Project Draw Block Date by HUD:**Activity Draw Block Date by HUD:**

Total Budget: \$ 0.00

Most Impacted and Distressed Budget: \$ 0.00

Other Funds: \$ 0.00

Total Funds: \$ 0.00

Ancillary Activities

None

Projected Accomplishments

of plans adopted

Total

1

Proposed budgets for organizations carrying out Activity:**Responsible Organization**

Shelby County Government2

Organization Type

Local Government

Proposed Budget

\$ 0.00

Location Description:

The City of Memphis, Tennessee.

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.



Environmental Assessment: EXEMPT

Environmental Reviews: None

Activity Attributes: None

Activity Supporting Documents: None

Project # / 7 - SL / Supporting Leverage - SL



Grantee Activity Number: 7 - SL - 01

Activity Title: Greenprint Implementation and Staff Support

Activity Type:

NDR - Supporting Leverage

Project Number:

7 - SL

Projected Start Date:

12/21/2016

Project Draw Block by HUD:

Not Blocked

Activity Draw Block by HUD:

Not Blocked

Block Drawdown By Grantee:

Not Blocked

National Objective:

Not Applicable (for Planning/Administration or Unprogrammed Funds only)

Benefit Report Type:

NA

Activity Status:

Completed

Project Title:

Supporting Leverage - SL

Projected End Date:

06/15/2022

Project Draw Block Date by HUD:**Activity Draw Block Date by HUD:****Total Budget:** \$ 0.00**Most Impacted and Distressed Budget:** \$ 0.00**Other Funds:** \$ 214,000.00**Total Funds:** \$ 214,000.00**Ancillary Activities**

None

Proposed budgets for organizations carrying out Activity:**Responsible Organization**

Shelby County Government2

Organization Type

Local Government

Proposed Budget

\$ 0.00

Funding Source Name

Greater Memphis Chamber of Commerce

Matching Funds

No

Funding Amount

\$ 57,000.00

Hyde Family Foundation

No

\$ 157,000.00

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 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.

Environmental Assessment:

Environmental Reviews: None

Activity Attributes: None

Activity Supporting Documents: None



Grantee Activity Number: 7 - SL - 02

Activity Title: Shelby Farms Greenline and Park Trails

Activity Type:

Rehabilitation/reconstruction of a public improvement

Project Number:

7 - SL

Projected Start Date:

09/01/2014

Project Draw Block by HUD:

Not Blocked

Activity Draw Block by HUD:

Not Blocked

Block Drawdown By Grantee:

Not Blocked

National Objective:

Not Applicable (for Planning/Administration or Unprogrammed Funds only)

Benefit Report Type:

NA

Activity Status:

Under Way

Project Title:

Supporting Leverage - SL

Projected End Date:

09/30/2025

Project Draw Block Date by HUD:**Activity Draw Block Date by HUD:**

Total Budget: \$ 0.00

Most Impacted and Distressed Budget: \$ 0.00

Other Funds: \$ 5,822,181.00

Total Funds: \$ 5,822,181.00

Ancillary Activities

None

Projected Accomplishments

of Targeted Section 3 Labor Hours

of Section 3 Labor Hours

of Total Labor Hours

cubic feet of stormwater storage added

of Elevated Structures

Activity funds eligible for DREF (Ike Only)

of cable feet of public utility

of Linear miles of Public Improvement

of Linear feet of Public Improvement

Total**Proposed budgets for organizations carrying out Activity:****Responsible Organization****Organization Type****Proposed Budget**

Shelby County Government2

Local Government

\$ 0.00

Funding Source Name

Matching Funds

Funding Amount

Shelby County Government

No

\$ 5,822,181.00

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 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.

Environmental Assessment: EXEMPT

Environmental Reviews: None

Activity Attributes: None

Activity Supporting Documents: None



Grantee Activity Number: 7 - SL - 03

Activity Title: Main-to-Main Multimodel Connector

Activity Type:

NDR - Supporting Leverage

Project Number:

7 - SL

Projected Start Date:

01/01/2015

Project Draw Block by HUD:

Not Blocked

Activity Draw Block by HUD:

Not Blocked

Block Drawdown By Grantee:

Not Blocked

National Objective:

Not Applicable (for Planning/Administration or Unprogrammed Funds only)

Benefit Report Type:

NA

Activity Status:

Completed

Project Title:

Supporting Leverage - SL

Projected End Date:

06/15/2022

Project Draw Block Date by HUD:**Activity Draw Block Date by HUD:**

Total Budget: \$ 0.00

Most Impacted and Distressed Budget: \$ 0.00

Other Funds: \$ 34,423,302.00

Total Funds: \$ 34,423,302.00

Ancillary Activities

None

Proposed budgets for organizations carrying out Activity:**Responsible Organization**

Shelby County Government2

Organization Type

Local Government

Proposed Budget

\$ 0.00

Funding Source Name

City of Memphis Public Works

Matching Funds

No

Funding Amount

\$ 34,423,302.00

Location Description:

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

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.



Environmental Assessment: EXEMPT

Environmental Reviews: None

Activity Attributes: None

Activity Supporting Documents: None



Grantee Activity Number: 7 - SL - 04

Activity Title: Greenline and Trail Connectors

Activity Type:

NDR - Supporting Leverage

Project Number:

7 - SL

Projected Start Date:

09/01/2014

Project Draw Block by HUD:

Not Blocked

Activity Draw Block by HUD:

Not Blocked

Block Drawdown By Grantee:

Not Blocked

National Objective:

Not Applicable (for Planning/Administration or Unprogrammed Funds only)

Benefit Report Type:

NA

Activity Status:

Under Way

Project Title:

Supporting Leverage - SL

Projected End Date:

09/30/2025

Project Draw Block Date by HUD:**Activity Draw Block Date by HUD:**

Total Budget: \$ 0.00

Most Impacted and Distressed Budget: \$ 0.00

Other Funds: \$ 4,338,696.00

Total Funds: \$ 4,338,696.00

Ancillary Activities

None

Proposed budgets for organizations carrying out Activity:**Responsible Organization**

Shelby County Government2

Organization Type

Local Government

Proposed Budget

\$ 0.00

Funding Source Name

Memphis Urban Area Metropolitan Planning Organization

Matching Funds

No

Funding Amount

\$ 4,338,696.00

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 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.

Environmental Assessment: EXEMPT

Environmental Reviews: None

Activity Attributes: None

Activity Supporting Documents: None



Grantee Activity Number: 7 - SL - 05

Activity Title: Big Creek Drainage Study

Activity Type:

NDR - Supporting Leverage

Project Number:

7 - SL

Projected Start Date:

12/21/2014

Project Draw Block by HUD:

Not Blocked

Activity Draw Block by HUD:

Not Blocked

Block Drawdown By Grantee:

Not Blocked

National Objective:

Not Applicable (for Planning/Administration or Unprogrammed Funds only)

Benefit Report Type:

NA

Activity Status:

Completed

Project Title:

Supporting Leverage - SL

Projected End Date:

06/15/2022

Project Draw Block Date by HUD:**Activity Draw Block Date by HUD:**

Total Budget: \$ 0.00

Most Impacted and Distressed Budget: \$ 0.00

Other Funds: \$ 72,000.00

Total Funds: \$ 72,000.00

Ancillary Activities

None

Proposed budgets for organizations carrying out Activity:**Responsible Organization**

Shelby County Government2

Organization Type

Local Government

Proposed Budget

\$ 0.00

Funding Source Name

Shelby County Government

Matching Funds

No

Funding Amount

\$ 72,000.00

Location Description:

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

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.

Environmental Assessment: EXEMPT

Environmental Reviews: None

Activity Attributes: None

Activity Supporting Documents: None

Project # / 8 - OV / Outcome Values - OV



Grantee Activity Number: 8-OV-01-1

Activity Title: Shelby County OV - Resilience Plan

Activity Type:

NDR - Resilience Value

Project Number:

8 - OV

Projected Start Date:

12/21/2016

Project Draw Block by HUD:

Not Blocked

Activity Draw Block by HUD:

Not Blocked

Block Drawdown By Grantee:

Not Blocked

National Objective:

Low/Mod: Benefit to low- and moderate-income persons/families

Benefit Report Type:

NA

Activity Status:

Completed

Project Title:

Outcome Values - OV

Projected End Date:

02/01/2020

Project Draw Block Date by HUD:**Activity Draw Block Date by HUD:**

Total Budget: \$ 0.00

Most Impacted and Distressed Budget: \$ 0.00

Other Funds: \$ 0.00

Total Funds: \$ 0.00

Ancillary Activities

None

Projected Accomplishments

of resilience plans created

Total

1

Proposed budgets for organizations carrying out Activity:**Responsible Organization**

Shelby County Government2

Organization Type

Local Government

Proposed Budget

\$ 0.00

Location Description:

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

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.



Environmental Assessment: EXEMPT

Environmental Reviews: None

Activity Attributes: None

Activity Supporting Documents: None



Grantee Activity Number: 8-OV-02-1

Activity Title: South Cypress OV - Repurposed Lots

Activity Type:

NDR - Social Value

Project Number:

8 - OV

Projected Start Date:

12/21/2016

Project Draw Block by HUD:

Not Blocked

Activity Draw Block by HUD:

Not Blocked

Block Drawdown By Grantee:

Not Blocked

National Objective:

Not Applicable (for Planning/Administration or Unprogrammed Funds only)

Benefit Report Type:

NA

Activity Status:

Completed

Project Title:

Outcome Values - OV

Projected End Date:

06/15/2022

Project Draw Block Date by HUD:

Activity Draw Block Date by HUD:

Total Budget: \$ 0.00

Most Impacted and Distressed Budget: \$ 0.00

Other Funds: \$ 0.00

Total Funds: \$ 0.00

Ancillary Activities

None

Projected Accomplishments

of vacant lots repurposed

Total

10

Proposed budgets for organizations carrying out Activity:

Responsible Organization

Shelby County Government2

Organization Type

Local Government

Proposed Budget

\$ 0.00

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 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.

Environmental Assessment: EXEMPT

Environmental Reviews: None

Activity Attributes: None

Activity Supporting Documents: None

Grantee Activity Number: 8-OV-02-2

Activity Title: South Cypress OV - Property Value Increase

Activity Type:

NDR - Economic Value

Project Number:

8 - OV

Projected Start Date:

12/21/2016

Project Draw Block by HUD:

Not Blocked

Activity Draw Block by HUD:

Not Blocked

Block Drawdown By Grantee:

Not Blocked

National Objective:

Not Applicable (for Planning/Administration or Unprogrammed Funds only)

Benefit Report Type:

NA

Activity Status:

Planned

Project Title:

Outcome Values - OV

Projected End Date:

09/30/2025

Project Draw Block Date by HUD:

Activity Draw Block Date by HUD:

Total Budget: \$ 0.00

Most Impacted and Distressed Budget: \$ 0.00

Other Funds: \$ 0.00

Total Funds: \$ 0.00

Ancillary Activities

None

Projected Accomplishments

% increase in median property value of homes in project area

Total

3

Proposed budgets for organizations carrying out Activity:

Responsible Organization

Shelby County Government2

Organization Type

Local Government

Proposed Budget

\$ 0.00

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 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.

Environmental Assessment: EXEMPT

Environmental Reviews: None

Activity Attributes: None

Activity Supporting Documents: None



Grantee Activity Number: 8-OV-02-3

Activity Title: South Cypress OV - Restoration of Cypress Creek

Activity Type:

NDR - Environmental Value

Project Number:

8 - OV

Projected Start Date:

12/21/2016

Project Draw Block by HUD:

Not Blocked

Activity Draw Block by HUD:

Not Blocked

Block Drawdown By Grantee:

Not Blocked

National Objective:

Not Applicable (for Planning/Administration or Unprogrammed Funds only)

Benefit Report Type:

NA

Activity Status:

Planned

Project Title:

Outcome Values - OV

Projected End Date:

09/30/2025

Project Draw Block Date by HUD:

Activity Draw Block Date by HUD:

Total Budget: \$ 0.00

Most Impacted and Distressed Budget: \$ 0.00

Other Funds: \$ 0.00

Total Funds: \$ 0.00

Ancillary Activities

None

Projected Accomplishments

linear feet of streams restored

Total

3000

Proposed budgets for organizations carrying out Activity:

Responsible Organization

Shelby County Government2

Organization Type

Local Government

Proposed Budget

\$ 0.00

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 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.

Environmental Assessment: EXEMPT

Environmental Reviews: None

Activity Attributes: None

Activity Supporting Documents: None



Grantee Activity Number: 8-OV-02-4

Activity Title: South Cypress OV - Reduced Floodplain Occupancy

Activity Type:

NDR - Resilience Value

Project Number:

8 - OV

Projected Start Date:

12/21/2016

Project Draw Block by HUD:

Not Blocked

Activity Draw Block by HUD:

Not Blocked

Block Drawdown By Grantee:

Not Blocked

National Objective:

Not Applicable (for Planning/Administration or Unprogrammed Funds only)

Benefit Report Type:

NA

Activity Status:

Under Way

Project Title:

Outcome Values - OV

Projected End Date:

09/30/2025

Project Draw Block Date by HUD:

Activity Draw Block Date by HUD:

Total Budget: \$ 0.00

Most Impacted and Distressed Budget: \$ 0.00

Other Funds: \$ 0.00

Total Funds: \$ 0.00

Ancillary Activities

None

Projected Accomplishments

occupied structures in floodplain

Total

Proposed budgets for organizations carrying out Activity:

Responsible Organization

Shelby County Government2

Organization Type

Local Government

Proposed Budget

\$ 0.00

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 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.

Environmental Assessment: EXEMPT

Environmental Reviews: None

Activity Attributes: None

Activity Supporting Documents: None



Grantee Activity Number: 8-OV-03-1

Activity Title: Wolf River OV - Increased Greenway Use

Activity Type:

NDR - Social Value

Project Number:

8 - OV

Projected Start Date:

12/21/2016

Project Draw Block by HUD:

Not Blocked

Activity Draw Block by HUD:

Not Blocked

Block Drawdown By Grantee:

Not Blocked

National Objective:

Not Applicable (for Planning/Administration or Unprogrammed Funds only)

Benefit Report Type:

NA

Activity Status:

Planned

Project Title:

Outcome Values - OV

Projected End Date:

09/15/2025

Project Draw Block Date by HUD:**Activity Draw Block Date by HUD:**

Total Budget: \$ 0.00

Most Impacted and Distressed Budget: \$ 0.00

Other Funds: \$ 0.00

Total Funds: \$ 0.00

Ancillary Activities

None

Projected Accomplishments

of users of trail system

Total

200

Proposed budgets for organizations carrying out Activity:**Responsible Organization**

Shelby County Government2

Organization Type

Local Government

Proposed Budget

\$ 0.00

Location Description:

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

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.

Environmental Assessment: EXEMPT

Environmental Reviews: None

Activity Attributes: None

Activity Supporting Documents: None



Grantee Activity Number: 8-OV-03-2

Activity Title: Wolf River OV - Attracting New Business

Activity Type:

NDR - Economic Value

Project Number:

8 - OV

Projected Start Date:

12/21/2016

Project Draw Block by HUD:

Not Blocked

Activity Draw Block by HUD:

Not Blocked

Block Drawdown By Grantee:

Not Blocked

National Objective:

Low/Mod: Benefit to low- and moderate-income persons/families

Benefit Report Type:

NA

Ancillary Activities

None

Projected Accomplishments

of new businesses locating within 1/2 radius of project area

Total

2

Proposed budgets for organizations carrying out Activity:**Responsible Organization**

Shelby County Government2

Organization Type

Local Government

Proposed Budget

\$ 0.00

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 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.

Environmental Assessment: EXEMPT

Environmental Reviews: None

Activity Attributes: None

Activity Supporting Documents: None

Grantee Activity Number: 8-OV-03-3

Activity Title: Wolf River OV - Increased Wetlands

Activity Type:

NDR - Environmental Value

Project Number:

8 - OV

Projected Start Date:

12/21/2016

Project Draw Block by HUD:

Not Blocked

Activity Draw Block by HUD:

Not Blocked

Block Drawdown By Grantee:

Not Blocked

National Objective:

Not Applicable (for Planning/Administration or Unprogrammed Funds only)

Benefit Report Type:

NA

Activity Status:

Planned

Project Title:

Outcome Values - OV

Projected End Date:

09/30/2025

Project Draw Block Date by HUD:**Activity Draw Block Date by HUD:**

Total Budget: \$ 0.00

Most Impacted and Distressed Budget: \$ 0.00

Other Funds: \$ 0.00

Total Funds: \$ 0.00

Ancillary Activities

None

Projected Accomplishments

acres of wetlands created

Total

12

Proposed budgets for organizations carrying out Activity:**Responsible Organization**

Shelby County Government2

Organization Type

Local Government

Proposed Budget

\$ 0.00

Location Description:

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

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.

Environmental Assessment: EXEMPT

Environmental Reviews: None

Activity Attributes: None

Activity Supporting Documents: None



Grantee Activity Number: 8-OV-03-4

Activity Title: Wolf River OV - Flood Cost Reduction

Activity Type:

NDR - Resilience Value

Project Number:

8 - OV

Projected Start Date:

12/21/2016

Project Draw Block by HUD:

Not Blocked

Activity Draw Block by HUD:

Not Blocked

Block Drawdown By Grantee:

Not Blocked

National Objective:

Not Applicable (for Planning/Administration or Unprogrammed Funds only)

Benefit Report Type:

NA

Activity Status:

Completed

Project Title:

Outcome Values - OV

Projected End Date:

06/15/2022

Project Draw Block Date by HUD:**Activity Draw Block Date by HUD:**

Total Budget: \$ 0.00

Most Impacted and Distressed Budget: \$ 0.00

Other Funds: \$ 0.00

Total Funds: \$ 0.00

Ancillary Activities

None

Projected Accomplishments

\$ estimated flood loss avoidance

Total

5000

Proposed budgets for organizations carrying out Activity:**Responsible Organization**

Shelby County Government2

Organization Type

Local Government

Proposed Budget

\$ 0.00

Location Description:

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

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.



Environmental Assessment: EXEMPT

Environmental Reviews: None

Activity Attributes: None

Activity Supporting Documents: None



Grantee Activity Number: 8-OV-04-1

Activity Title: Big Creek OV - Increased Greenway Use

Activity Type:

NDR - Social Value

Project Number:

8 - OV

Projected Start Date:

12/21/2016

Project Draw Block by HUD:

Not Blocked

Activity Draw Block by HUD:

Not Blocked

Block Drawdown By Grantee:

Not Blocked

National Objective:

Not Applicable (for Planning/Administration or Unprogrammed Funds only)

Benefit Report Type:

NA

Activity Status:

Planned

Project Title:

Outcome Values - OV

Projected End Date:

09/30/2025

Project Draw Block Date by HUD:

Activity Draw Block Date by HUD:

Total Budget: \$ 0.00

Most Impacted and Distressed Budget: \$ 0.00

Other Funds: \$ 0.00

Total Funds: \$ 0.00

Ancillary Activities

None

Projected Accomplishments

of users of trail system

Total

50

Proposed budgets for organizations carrying out Activity:

Responsible Organization

Shelby County Government2

Organization Type

Local Government

Proposed Budget

\$ 0.00

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 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.

Environmental Assessment: EXEMPT

Environmental Reviews: None

Activity Attributes: None

Activity Supporting Documents: None



Grantee Activity Number: 8-OV-04-2

Activity Title: Big Creek OV - Increased Housing Value

Activity Type:

NDR - Economic Value

Project Number:

8 - OV

Projected Start Date:

12/21/2016

Project Draw Block by HUD:

Not Blocked

Activity Draw Block by HUD:

Not Blocked

Block Drawdown By Grantee:

Not Blocked

National Objective:

Not Applicable (for Planning/Administration or Unprogrammed Funds only)

Benefit Report Type:

NA

Activity Status:

Under Way

Project Title:

Outcome Values - OV

Projected End Date:

09/30/2025

Project Draw Block Date by HUD:

Activity Draw Block Date by HUD:

Total Budget: \$ 0.00

Most Impacted and Distressed Budget: \$ 0.00

Other Funds: \$ 0.00

Total Funds: \$ 0.00

Ancillary Activities

None

Projected Accomplishments

\$ value of redevelopment

Total

1500000

Proposed budgets for organizations carrying out Activity:

Responsible Organization

Shelby County Government2

Organization Type

Local Government

Proposed Budget

\$ 0.00

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 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 measurment. The first report on this value will take place in December 2017.

Environmental Assessment: EXEMPT

Environmental Reviews: None

Activity Attributes: None

Activity Supporting Documents: None



Grantee Activity Number: 8-OV-04-3

Activity Title: Big Creek OV -Tree Mitigation

Activity Type:

NDR - Environmental Value

Project Number:

8 - OV

Projected Start Date:

12/21/2016

Project Draw Block by HUD:

Not Blocked

Activity Draw Block by HUD:

Not Blocked

Block Drawdown By Grantee:

Not Blocked

National Objective:

Not Applicable (for Planning/Administration or Unprogrammed Funds only)

Benefit Report Type:

NA

Activity Status:

Planned

Project Title:

Outcome Values - OV

Projected End Date:

09/25/2025

Project Draw Block Date by HUD:**Activity Draw Block Date by HUD:**

Total Budget: \$ 0.00

Most Impacted and Distressed Budget: \$ 0.00

Other Funds: \$ 0.00

Total Funds: \$ 0.00

Ancillary Activities

None

Projected Accomplishments

acres successfully reforested

Total

400

Proposed budgets for organizations carrying out Activity:**Responsible Organization**

Shelby County Government2

Organization Type

Local Government

Proposed Budget

\$ 0.00

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 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.

Environmental Assessment: EXEMPT

Environmental Reviews: None

Activity Attributes: None

Activity Supporting Documents: None



Grantee Activity Number: 8-OV-04-4

Activity Title: Big Creek OV - Decreased Flood Damage

Activity Type:

NDR - Resilience Value

Project Number:

8 - OV

Projected Start Date:

12/21/2016

Project Draw Block by HUD:

Not Blocked

Activity Draw Block by HUD:

Not Blocked

Block Drawdown By Grantee:

Not Blocked

National Objective:

Not Applicable (for Planning/Administration or Unprogrammed Funds only)

Benefit Report Type:

NA

Activity Status:

Under Way

Project Title:

Outcome Values - OV

Projected End Date:

09/30/2025

Project Draw Block Date by HUD:

Activity Draw Block Date by HUD:

Total Budget: \$ 0.00

Most Impacted and Distressed Budget: \$ 0.00

Other Funds: \$ 0.00

Total Funds: \$ 0.00

Ancillary Activities

None

Projected Accomplishments

\$ estimated value of flood loss avoided

Total

60000000

Proposed budgets for organizations carrying out Activity:

Responsible Organization

Shelby County Government2

Organization Type

Local Government

Proposed Budget

\$ 0.00

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 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.

Environmental Assessment: EXEMPT

Environmental Reviews: None

Activity Attributes: None

Activity Supporting Documents: None

Action Plan History

Version	Date
B-13-US-47-0002 AP#10	01/27/2025
B-13-US-47-0002 AP#9	06/21/2024
B-13-US-47-0002 AP#8	04/08/2024
B-13-US-47-0002 AP#7	10/31/2023
B-13-US-47-0002 AP#6	09/29/2021
B-13-US-47-0002 AP#5	06/14/2021
B-13-US-47-0002 AP#4	10/08/2020
B-13-US-47-0002 AP#3	10/05/2018
B-13-US-47-0002 AP#2	08/02/2017
B-13-US-47-0002 AP#1	05/01/2017

