

Attachment C – Activity Work Plan

Subrecipient: City of Lakeland Activity: Lake Bonnet Drainage Flood Hazard and Debris Mitigation Project Project Budget: \$42,986,390.00
 Contract Number: MT047 Date Prepared: October 2022 Modification Number: _____

Start Date (month/year)	End Date (month/year)	Describe Proposed Action to be Completed by the “End Date.” <i>Examples of Actions: Procure Administrator or Engineer, Complete Environmental Review and Obtain Release of Funds, Request Wage Decision, Complete and Submit Design and Specifications, Advertise for and Open Bids, Issue Notice to Proceed, Construction Completion (33, 66, and 100 percent or 25, 50, 75, and 100 percent), Complete Construction Procurement Process, Advertise Availability of Housing Rehabilitation Funds, Complete Rankings of Homes per HAP, Number of Houses Rehabilitated and Submit Closeout Package to DEO.</i>	Estimated Units to be Completed by the “End Date”	Estimated Funds to be Requested by the “End Date”
11/22	12/28	Monthly financial records maintenance, preparation & submittal of monthly reports	72	\$1,592,000
12/22	12/28	Conduct stakeholder meetings and prepare meeting minutes, provide community engagement and outreach activities, information sharing via social media throughout the implementation to completion of project	12	\$350,000
12/22	1/23	Prepare and submit bid documents and specifications for environmental consulting services, including NEPA review, program oversight, project design and engineering for review and approval by DEO	1	\$40,000
1/23	3/23	Advertise for and open bids for environmental consulting services, evaluate and rank bids, issue notice to proceed to selected subcontractor, prepare contract documents	1	\$10,000
12/22	12/28	Monthly project planning meetings with City staff, vendors, subcontractors, regulatory agencies, and preparation and submittal of meeting minutes	72	\$1,080,000
4/23	9/23	Complete NEPA review (field investigations, records review, site surveys)	1	\$150,000
8/23	9/23	Prepare and submit findings and recommendations report for NEPA review (DRAFT)	1	\$25,000
10/23	11/23	Prepare and submit NEPA findings and recommendations report (FINAL)	1	\$25,000
12/22	12/28	Project oversight and program management, communications with regulatory agencies, QA/QC oversight, compliance maintenance, etc.	72	\$2,160,226
1/23	4/23	Stakeholder coordination with property owners within Feasibility Study project area to obtain site access and review scope of work	1	\$10,000
4/23	8/23	Complete Floodway Encroachment Analysis (field investigations, records review, site visits)	1	\$300,000

7/23	9/23	Prepare and submit DRAFT Floodway Encroachment Analysis report with findings and recommendations	1	\$40,000
10/23	11/23	Prepare and submit FINAL Floodway Encroachment Analysis report with findings and recommendations	1	\$18,000
11/23	12/23	Complete FEMA review and coordination, prepare Letter of Map Revision as needed)	1	\$15,000
8/23	12/23	Complete pre-application meetings with permitting agencies, including Southwest Florida Water Management District (SWFWMD), Florida Department of Environmental Protection (FDEP), US Army Corp of Engineers (USACoE)	1	\$25,000
4/23	9/23	Complete surveys, site inspections, property records review, property appraisals, and land/easement acquisition study	1	\$110,000
9/23	12/23	Project technical scope, schedule, and budget review and refinement, submit to DEO for approval	1	\$50,000
4/23	9/23	Complete Topographic & Boundary Survey of project study area	1	\$75,000
4/23	9/23	Complete Wetlands Delineation in project study area	1	\$90,000
4/23	9/23	Complete Bathymetric Mapping and Sediment Thickness Survey	1	\$65,000
4/23	9/23	Complete LiDAR Survey of project study area	1	\$95,000
8/23	10/23	Complete Project Feasibility Study & Implementation Plan DRAFT report	1	\$64,000
11/23	12/23	Complete Project Feasibility Study & Implementation Plan FINAL report	1	\$34,000
9/23	9/23	Complete and submit 30% Preliminary Design Report for Dredge Operations, Wetland Rehabilitation and Littoral Zone Restoration	1	\$165,000
9/23	9/23	Complete and submit 30% Preliminary Design Report for Flood Protection Mitigation	1	\$165,000
9/23	2/24	Complete easement and property acquisitions	1	\$625,000
4/23	5/23	Complete Work Plans for field investigation work, including Health & Safety Plan, Emergency Response Plan, Sampling & Analysis Plan, & Quality Assurance Project Plan	4	\$95,000

4/23	9/23	Complete sediment sampling field investigation, laboratory analysis, summary report	1	\$230,000
4/23	9/23	Complete geotechnical field investigation, laboratory analysis, summary report	1	\$220,000
4/23	9/23	Complete groundwater impact field investigation, laboratory analysis, and summary report	1	\$135,000
7/23	9/23	Complete treatability testing/evaluation, and summary report	1	\$80,000
11/23	11/23	Complete Construction Design Plans (60%) for Dredge Operations, Wetland Restoration, and Littoral Zone Rehabilitation	1	\$175,000
11/23	11/23	Complete Construction Design Plans (60%) for Flood Protection Mitigation	1	\$175,000
9/23	11/23	Complete Value Engineering & Constructability Review and Summary Report	1	\$45,000
1/24	1/24	Complete Construction Design Plans (90%) for Dredge Operations, Wetland Restoration, and Littoral Zone Rehabilitation	1	\$150,000
1/24	1/24	Complete Construction Design Plans (90%) for Flood Protection Mitigation, submit to DEO for review	1	\$150,000
11/23	1/24	State, Local, and Federal Permit application and submittals (SWFWMD, FDEP and USACoE)	1	\$80,000
3/24	3/24	Complete Construction Design Plans (100%) for Dredge Operations, Wetland Restoration, and Littoral Zone Rehabilitation	1	\$75,000
3/24	3/24	Complete Construction Design Plans (100%) for Flood Protection Mitigation	1	\$75,000
3/24	4/24	Complete Construction Design and Bid Specification Package for Dredge Operations, Wetland Restoration and Littoral Zone Rehabilitation, submit to DEO for review and approval	1	\$125,000
3/24	4/24	Complete Construction Design and Bid Specification Package for Flood Protection Mitigation, submit to DEO for review and approval	1	\$125,000
4/24	5/24	Construction bid notifications for dredging operations and sediment management, subcontractor site visit, bid review, bid award & notification to most responsive bidder(s). Complete procurement package and submit to DEO for review and approval	1	\$45,000
4/24	5/24	Construction bid notification for flood protection mitigation (weir removal, embankment stabilization, pump station construction, culvert retrofits, canal modifications, and flood relief diversion infrastructure), subcontractor site visit, bid review, bid award & notification to most responsive bidder(s). Complete procurement package and submit to DEO for review and approval.	1	\$45,000

1/24	2/24	Complete construction work plans (Health & Safety, Emergency Response & Preparedness)	1	\$48,000
5/24	12/28	Construction Management & Vendor/Subcontractor Oversight, monthly project status review/update	48	\$1,852,895
5/24	12/27	Lake Bonnet sediment removal/dredging equipment mobilization	3	\$418,000
12/24	10/28	Lake Bonnet sediment removal/dredging equipment demobilization	3	\$418,000
5/24	6/28	Construct dredge materials management area(s) (DMMA) and dewatering operations for contaminated sediment	1	\$540,830
5/24	6/28	Construct geocells and aquadams for non-contaminated sediment	1	\$600,000
6/24	10/28	Lake Bonnet sediment dredging operations, separation of contaminated vs. non-contaminated sediment (approximately 425,000 cubic yards)	1	\$2,790,179
6/24	10/28	Emplace non-contaminated sediment in geocells and complete wetland rehabilitation	1	\$6,696,429
6/24	10/28	Emplace contaminated sediment in DMMA and complete dewatering operations	1	\$230,000
6/24	10/28	Loading/transport/disposal of approximately 58,000 cubic yards of contaminated sediment (includes laboratory analysis, manifest preparation and tracking)	1	\$2,232,140
6/24	10/28	Thin layer sand capping and littoral zone restoration	1	\$1,116,071
6/24	10/24	Demolition of dilapidated weir in Bonnet Canal	1	\$198,329
6/24	6/26	Regrading and stabilization of west Lake Bonnet embankment	1	\$2,016,000
2/25	6/27	Construct and install pump station, 42" force main and ancillary equipment for pumping water from Lake Bonnet Canal to Lake Bonnet	1	\$2,135,196
3/27	8/27	Install pump station power drop	1	\$40,000
1/25	6/27	Retrofit/construct culverts at May Manor Crossing	1	\$457,380

1/25	6/27	Retrofit/construct culverts at Bridge Boulevard	1	\$457,380
1/25	6/27	Lake Bonnet Canal modifications/retrofit (excavation, bank stabilization, dewatering, transport and disposal of materials)	1	\$2,215,080
1/25	6/28	Construction of flood relief diversion barriers, conveyance infrastructure and retention/detention facilities	1	\$8,926,255
6/28	12/28	Final Report delivery, including as-built engineering drawings	1	\$195,000