

- Hardcopy DFIRM will be legible and plotted at the scale(s) agreed upon after the first milestone of this Mapping Activity.

D. Redelineation of Floodplain Boundaries Demonstration Project

1. **Objective and Scope:** The objective of this Mapping Activity is to redelineate detailed floodplain boundaries in portions of the Amite River Basin. Delineations will be of the 1% and 0.2% annual chance floods and floodway for the flooding sources (see attached list). The flood profiles and floodway data tables from previous Flood Insurance Study (FIS) report will be used, in conjunction with the hydraulic models used to prepare the FIS, to produce these delineations.
2. **Period of Performance:** The period of performance will be in accordance with Agreement Article II.

3. **Funding/Cost-Sharing:**

FEMA

Local (ARBC/3001 Consultants)

TOTAL

Responsible Agency: ARBC/LSU

4. **Standards:** The following standards and documents are relevant to this Mapping Activity:

- Topographic mapping used to delineate the floodplain boundaries will be more recent and/or detailed than that used to prepare the effective FIRM for communities within the Amite River Basin. It will be of adequate scale and topographic definition to provide reasonable accuracy and planimetric features will be compatible with the base map (with respect to horizontal accuracy) to be used by FEMA for Digital FIRM production. Topographic mapping taken from aerial photogrammetry or surveys will comply with the requirements of Appendix 4 of FEMA 37. The selection of the topographic mapping source to be used will be coordinated with the FEMA Project Officer prior to analysis and mapping.
- Changed hydraulic conditions and/or significant discrepancies in stream distance between the profile and topographic mapping indicate the need for updated hydraulic analyses and may preclude the completion of this Mapping Activity for some flooding sources. Therefore, prior to redelineating floodplain boundaries, the effective FIS flood profiles will be evaluated to determine

- if the flood elevations remain valid or if hydraulic conditions have changed such that the profile no longer represents existing conditions (i.e., bridge or culvert construction) necessitating updated hydraulic analyses:

-if the flood profile baseline reasonably fits the streamline on the topographic mapping to be used for this activity.

- Work maps will comply with the requirements outlined in Chapter 9 of FEMA 37. The work maps should include the 1% and 0.2% annual chance floodplain boundaries; floodway limits; cross sections; and BFE and Flood Insurance Zone labels.
- Digital mapping submissions will comply with the requirements of Chapter 9 and Appendix 7 of FEMA 37.

5. **Products:** The ARBC shall make the following products available:

(a) For Ascension Parish, Black Bayou in the Prairieville Area

- FEMA Flood zones that conform to DFIRM standards established by FEMA
- Assessor Property Parcel information showing name of property owner and address of property.
- Address files from the Parish current access file maintained by the Permit and GIS Departments
- USGS Color Quarter Quads (January 1998)
- Permit office address files including flood insurance requirement field and base elevation requirement
- FEMA Flood Insurance repetitive claim file provided by Region VI FEMA (provides date and amount of payment by FEMA's FIA)
- Street and road layer
- Water feature layers (line and polygon)
- Lidar digital 2 foot DEM

(b) For White Bayou Watershed:

- FEMA Flood zones that conform to DFIRM standards established by FEMA
- USGS 7.5" quadrangles
- FEMA Flood Insurance repetitive claim file provided by Region VI FEMA (provides date and amount of payment by FEMA's FIA)
- Street and road layer
- Water feature layers (line and polygon)
- Lidar digital 2 foot DEM

6. **Schedule of Milestones:**

Milestone 1: Upon completion, final products will be provided to the FEMA Project Officer. These include:

- Documentation of the proposed source of topographic data, including: scale; contour interval; source/methodology; date of survey; data collection;

vertical and horizontal datums; and comparison of planimetric features with the FIS flood profiles for this mapping activity.

- Annotated copies of effective FIRMs depicting limits of proposed floodplain revisions.

Deliverables for Milestone 1 will be submitted to FEMA Project Officer no later than 3 months after project start date.

Milestone 2 (Final Product): Upon completion, final products will be provided to the FEMA Project Officer. These include:

- Digital Topographic work maps depicting 1% and 0.2% annual chance floodplain boundaries; floodway limits; and BFE and Flood Insurance Zone labels.
- Completed form number 5 of *Revisions to National Flood Insurance Program Maps, Application/Certification Forms and Instruction (MT-2)*.

Final products will be made available to FEMA in accordance with the Period of Performance defined in Section 2 of this Mapping Activity Statement.

7. **Certification:** The following certifications apply to this Mapping Activity (as appropriate):
 - Topographic information will be certified by a registered professional engineer or licensed land surveyor in accordance with 44 CFR 65.5(c).
 - If fill is to be considered in the mapping to raise land areas above the 1% annual chance flood elevation, certification of the fill will be provided in accordance with 44 CFR 65.5 (a)(6) by the community's NFIP permit official, a registered professional engineer, or a licensed land surveyor.
8. **Coordination:** All activities to be carried out under this task will be coordinated with local governments, and state agencies through the review process under the Technical Committee of the ARBC.
9. **Technical Assistance and Resources:** ARBC may obtain copies of effective FIS hydraulic models, FEMA-issued Letters of Map Change (LOMCs), and archived engineering back-up data from FEMA's Mapping Coordination Contractor (MCC). The MCC may be contacted at 1-877-FEMA MAP. Specific technical and programmatic support may be provided through FEMA's MCC/TEC; such assistance should be required through the FEMA Project Officer specified in Activity G of the Mapping Activity Statements.
10. **Subcontractors:** LSU Center for Coastal, Energy and Environmental Resources, Louisiana State University, Baton Rouge. Procurement of subcontractors using federal funds provided as part of this mapping activity will comply with the requirements of 44CFR 13.36.