

## E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

|                            |   |                      |                      |
|----------------------------|---|----------------------|----------------------|
| 12. NAME                   | 13. ROLE IN THIS CONTRACT                         | 14. YEARS EXPERIENCE |                      |
| <b>Manish Mardia, P.E.</b> | <b>Project Management &amp; Civil Engineering</b> | A. TOTAL             | B. WITH CURRENT FIRM |
|                            |   | <b>22 (1990)</b>     | <b>1 (2011)</b>      |

15. FIRM NAME AND LOCATION (City and State)



16. EDUCATION (Degree and Specialization)

**M.S., 1994, Civil Eng., Louisiana State University**  
**B.S., 1990, Civil Engineering, University of Jodhpur**

17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)

**Professional Engineer, LA (No. 28482)**  
**Professional Engineer, MS (No. 18522)**

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Mr. Mardia is an **environmental engineer** with vast expertise in **planning, management and funding of stormwater drainage and coastal projects**, and design, construction and management of infrastructure projects. Specific project types Mr. Mardia has managed included **drainage masterplans, large scale urban stormwater drainage studies, earthen channel, u-flume and box culvert planning and management, and stormwater pollution prevention.**

### 19. RELEVANT PROJECTS

|           | (1) TITLE AND LOCATION (City and State)   | (2) YEAR COMPLETED   |                              |
|-----------|---|--|------------------------------|
|           |   | PROFESSIONAL SERVICES  | CONSTRUCTION (If applicable) |
| <b>a.</b> | <b>Drainage Master Plan, City of Kenner, LA</b>   | <b>2011</b>  | <b>NA</b>                    |
|           | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE   | <input type="checkbox"/> Check if project performed with current firm                          |                              |
|           | Project involved field verification of existing survey data on drainage network followed by appropriate modifications to maps, drawings and databases. 50,000+ drain inlets and corresponding number of drainage conduits were included in the modeled network. UNET, SWMM and PCSWMM software packages were utilized to create and run hydraulic models of drainage patterns within the City of Kenner. The results were compared with known occurrences of flooding to verify model accuracy and for calibration purposes. The identified problems were prioritized by flooding severity, and underwent alternatives evaluation modeling. Alternatives were also studied to reroute stormwater drainage southwards to the Mississippi River.  |  |                              |
| <b>b.</b> | <b>Harahan Drainage Pump to the River, Jefferson Parish, LA</b>   | <b>2011</b>  | <b>2012 (anticipated)</b>    |
|           | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE   | <input type="checkbox"/> Check if project performed with current firm                          |                              |
|           | This is a unique project in terms of complexity, administration, design, and rights of way to relieve chronic flooding in southeastern portion of east bank of Jefferson Parish via Southeast Louisiana Urban Flood Control Project (SELA), of the COE: A 700 ft long Suction canal; a 1,200 cfs pumping station; three 9,000 ft long 84 inch diameter discharge piping to the Mississippi River levee, reinforced concrete levee crossing of discharge pipes; reinforced concrete discharge basin in Mississippi River; coordination with local community, regulatory agencies and DOTD regarding a very old oak tree (the Old Dickory); and relocation of several high tension electrical transmission towers. Project involved Detailed Design, construction documents (Plans and Specifications), cost estimate, engineering during construction, construction management/QA, and resident inspection for construction cost of \$200 Million.   |  |                              |
| <b>c.</b> | <b>Soniat Canal Improvements – Veterans Memorial Boulevard to Lester Street, Jefferson Parish, LA</b>   | <b>Ongoing</b>   | <b>Ongoing</b>               |
|           | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE   | <input type="checkbox"/> Check if project performed with current firm                          |                              |
|           | Federally funded project under the SELA program to improve drainage along a major north-south running drainage canal via hydraulic studies, DDRs, design, geotechnical investigations, preparation of plans and specifications, construction management and resident inspection. This project will increase the capacity of Soniat Canal from Canal No. 3 to West Metairie Avenue in Metairie, LA from 3,000 cfs to 5,200 cfs. This involved designs for U-shaped concrete flumes, utility relocations, and sheet piling transitions in seven separate bid packages: 1. Canal No. 3 to Veterans Memorial Boulevard –750 ft in length, lined with concrete flume; 2. Veterans Memorial Boulevard vehicular bridge replacement – 300 ft in length with three box culverts (each 18'H x 36'W); 3. Veterans Memorial Boulevard to West Napoleon Boulevard – 3,500 ft total length, lined with concrete flume; 4. West Napoleon Avenue vehicular bridge replacement – 400 ft in length; 5. West Napoleon Avenue to Lynette Drive – 1,100 ft long. ; 6. Lynette Drive to Lester Street – approx. 2,900 ft long; 7. Lester Street to West Metairie Avenue – approx. 450 ft long. The total construction cost is estimated to be \$155 M. |  |                              |
| <b>d.</b> | <b>South Claiborne Avenue Canal No. II Box Culvert, Leonidas to Lowerline, New Orleans, LA</b>  | <b>2011</b>  | <b>2012 (anticipated)</b>    |
|           | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE   | <input type="checkbox"/> <input type="checkbox"/> Check if project performed with current firm |                              |
|           | Project management on design of 3300 lf. of a box culvert parallel to the existing box on South Claiborne Avenue between Leonidas to Lowerline. Project involved preparation of plans and specifications for a 15'± x 10'± concrete box culvert that extends approximately 150 lf on either side of the centerline of South Carrollton Avenue. Construction cost of the project is estimated at \$6.4 million.  |  |                              |
| <b>e.</b> | <b>London Avenue Canal Stormwater Treatment Feasibility Study, New Orleans, LA.</b>   | <b>2004</b>  | <b>NA</b>                    |
|           | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE   | <input type="checkbox"/> Check if project performed with current firm                          |                              |
|           | Project management on design of 3300 lf. of a box culvert parallel to the existing box on South Claiborne Avenue between Leonidas to Lowerline. Project involved preparation of plans and specifications for a 15'± x 10'± concrete box culvert that extends approximately 150 lf on either side of the centerline of South Carrollton Avenue. Construction cost of the project is estimated at \$6.4 million.  |  |                              |

|   |   |
|---|---|
| (3) BRIEF DESCRIPTION ( <i>Brief scope, size, cost, etc.</i> ) AND SPECIFIC ROLE  | <input type="checkbox"/> Check if project performed with current firm |
| <p>The project consisted of a literature review, assessment of the existing water quality data, canal water and bottom sampling in one stormwater outfall canal to Lake Pontchartrain in order to characterize water and sediment quality, evaluate floatables removal technologies, evaluate of hydraulic effects of each alternative, and coordinate with regulatory agencies. Also included was the design and implementation of a pilot system to reduce the amount of floatable debris with the water system, consisting of the development of design parameters, design criteria, expected performance and identification of potential impacts of the system.</p> |   |