

SARA INTERLOCAL AGREEMENT

TASK ORDER NO. 1

Outfall Mapping Project

Scope:

River Authority will photograph and document up to 1,300 miles of outfalls along the rivers, creeks, and drainage channel within the city limits of San Antonio. River Authority will utilize an iPad mini with an ArcGIS Collector Application to photograph and map the outfalls. The estimated mileage for the creeks and rivers was calculated by the geodatabase provided by City and an estimate of additional miles to set the 1,300 mile limit.

The location of the outfalls and data will be collected with the ArcGIS collector iOS application. The geographical map location will be generated by the approximate GPS X and Y coordinates from the iPad mini. The elevation field for each outfall will be derived from the 2010 LIDAR data in the office. The location will be approximate (accuracy of the iPad GPS) and not survey grade.

Once the outfall data is collected in the field, all data will go thru an internal QA/QC process to ensure accuracy and completeness of information and provide database file (gdb format) monthly and viewing access to at least one user via ArcGIS Online. River Authority will grant rights to the layer through our ArcGIS Online organization account that City can access through their ArcGIS Online organization account through the web for periodic review. At the end of this project, this layer will no longer be available through ArcGIS Online and only in a geodatabase due to storage capacity. Comments will be addressed and responded through email

SARA will conduct monthly meetings with City for the duration of the project.

Final Deliverable:

Geodatabase with point features that have a photo, coordinates, elevation and the following fields associated with each point:

1. **Type of outfall:** pipe, single box, multi box, pipe, flume, chute, other
2. **Material:** CMP, CPP, PVC, RCP, cast iron, clay, steel around PVC, steel pipe, brick by visual inspection only
3. **Street Name:** nearest street (this field will be added during QA/QC)
4. **Intersection:** nearest intersection (this field will be added during QA/QC)
5. **Width:** for box culvert, flumes and chutes to be measured in feet
6. **Height:** for box culvert to be measured in feet
7. **Diameter:** for pipe measured in inches
8. **Security Bars:** yes or no
9. **Collector Name:** Field tech's name

10. **Collector Employer:** SARA
11. **Collector:** Device being used to collect the data (iPad Mini)
12. **Date Collected:** Self explanatory
13. **Crumbling:** yes or no
14. **Flaking:** yes or no
15. **Pitting:** yes or no
16. **Corrosion:** yes or no
17. **Cracking:** none, minor or major
18. **Peeling Paint:** yes or no
19. **Structural Integrity:** Good, fair or poor
20. **Headwall:** yes or no
21. **Apron:** yes or no
22. **Apron Toe:** yes or no
23. **Wingwall:** yes or no
24. **Dissipaters:** Yes or no
25. **Rip-Rap:** Yes or no
26. **Erosion Control:** Yes or no
27. **Notes:** any additional information
28. **Attachments:** Picture of outfall
29. **Outfall ID:** Unique ID (not Object ID)
30. **Elevation:** derived from LiDAR 2010 contours

Spatial Reference:

Projected Coordinate System:

NAD_1983_StatePlane_Texas_South_Central_FIPS_4204_Feet

Projection: Lambert_Conformal_Conic

False_Easting: 1968500.00000000

False_Northing: 13123333.33333333

Central_Meridian: -99.00000000

Standard_Parallel_1: 28.38333333

Standard_Parallel_2: 30.28333333

Latitude_Of_Origin: 27.83333333

Linear Unit: Foot_US

Geographic Coordinate System: GCS_North_American_1983

Datum: D_North_American_1983

Prime Meridian: Greenwich

Angular Unit: Degree

Duration of Project:

November 3, 2014 – September 30, 2015

Compensation:

The total fee for this work is a not-to-exceed \$400,000 that includes labor (direct and indirect), supplies, equipment, cellular data services, vehicle mileage, and hardware and software based on actual expenses. Additional fees must be approved in writing by City. Expenses prior to the agreement, but after November 3, 2014, will be billed with the first invoice and all remaining invoices will be submitted every 30 days until the project is completed.