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5/20/24

Matthew Schmitz, City Manager  
City of Independence, Iowa  
331 1st St E  
Independence, Iowa 50644

Re: Independence Iowa LSLI GIS Support

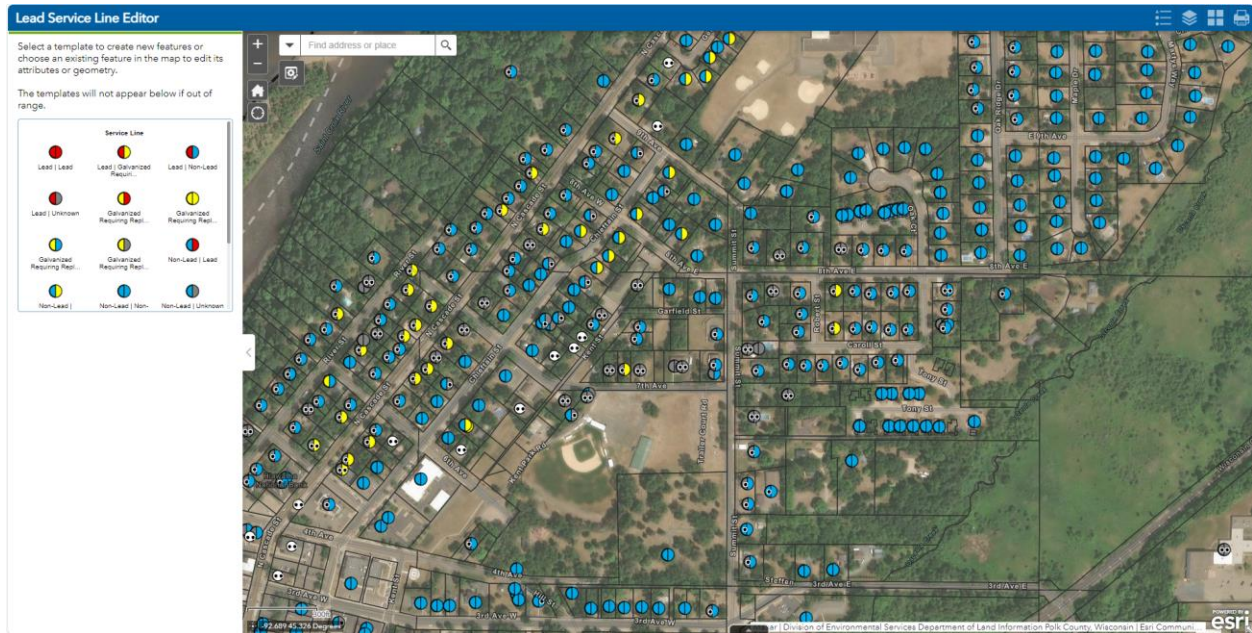
Dear Mr. Schmitz,

MSA has provided water service line inventory support for the revised Lead & Copper Rule across 4 states and over 50 communities. The GIS team supports in a variety of ways to streamline data collection, public engagement, QA/QC, and reporting utilizing GIS applications and tools. MSA has created GIS databases which replicate the Iowa Department of Natural Resources (IADNR) service line inventory excel spreadsheet, allowing for the full utilization of cloud GIS tools while retaining simple reporting back to the required spreadsheet deliverable.

To support Independence with their LSLI, MSA proposes the following tasks:

1. Use the existing service line inventory and water meter replacement data from HydroCorp to populate the initial service line inventory with available data.
  - a. Inspection data from HC – 3,056 in-home inspections with 2,748 identified service line materials. Total inspections do not appear to represent all service lines within the city.
  - b. Photos from the inspections are not supported in bulk download and cannot be added to GIS data.
  - c. Meter information was extracted from HyrdoSoft and Meter Number, Account ID, Service Phone, etc will be attached to data for increasing long term value of dataset to city.
2. Load this data into the Service Line Inventory GIS database, compliant with IA DNR. Publish this data into the existing Independence IA GIS account.
3. Create a set of GIS applications to support city staff to complete the inventory, enabling them to manage the dataset collaboratively from field and office. Applications include:
  - a. **Water Service Line Inventory Editor App** – view and manage all service lines with editing enabled from field or office to support in-home inspections or document review
  - b. **LSLI Report Dashboard** – A simple dashboard app which tracks progress, materials, verification status, and a tabular export tool to assist with loading into the IA DNR template.
  - c. **Public LSLI Viewer App** – a public application to be shared via the existing public Hub which displays the material status for each address. Sensitive data will be removed, and this data updates in real time as data internally is updated. This application fulfills the public notification requirement of the LSLI – public notification of completed inventory within 30 days of completion and/or customer notification of lead service line discovery within 30 days of inspection.
  - d. **Public Resident Material Assessment Survey** – provide a publicly accessible digital survey accessed via mobile devices or desktop computers for residents to self-identify their own service line material. [View example here](#). MSA will provide a survey link and QR code as a deliverable. City is responsible for all communication and advertisement of the survey. Survey data is streamed live into the Editor app for City review and monitoring.
  - e. **Technical Support** – MSA will support Independence staff with complying with requirements, training on the GIS applications, additional data management, and other on-call tasks per request.

Matthew Schmitz, City Manager  
City of Independence, Iowa  
May 20, 2024



#### Estimated Costs

ITEM	REQUIRED?	EST. COST
Data Import and Management	Required	\$1,650
LSLI Editor App, LSLI Dashboard, Public LSLI Viewer	Required	\$2,650
Public Resident Survey	Elective	\$1,800
Technical Support and Training	Recommended	\$750 minimum recommended for training
<b>Total</b>		<b>\$6,850</b>

Sincerely,  
MSA Professional Services, Inc.

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