**PENNTEC 2022 ANNUAL CONFERENCE |
UTILITY MANAGEMENT TECHNICAL PROGRAM**

**OPTIMIZING ASSET MANAGEMENT WITH GIS
JUNE 6, 2022 9:15 – 9:45 AM**

KATIE BALTZLEY, SENIOR GIS ANALYST

SSM

SPOTTS | STEVENS | MCCOY

Engineering, Surveying and Environmental Services

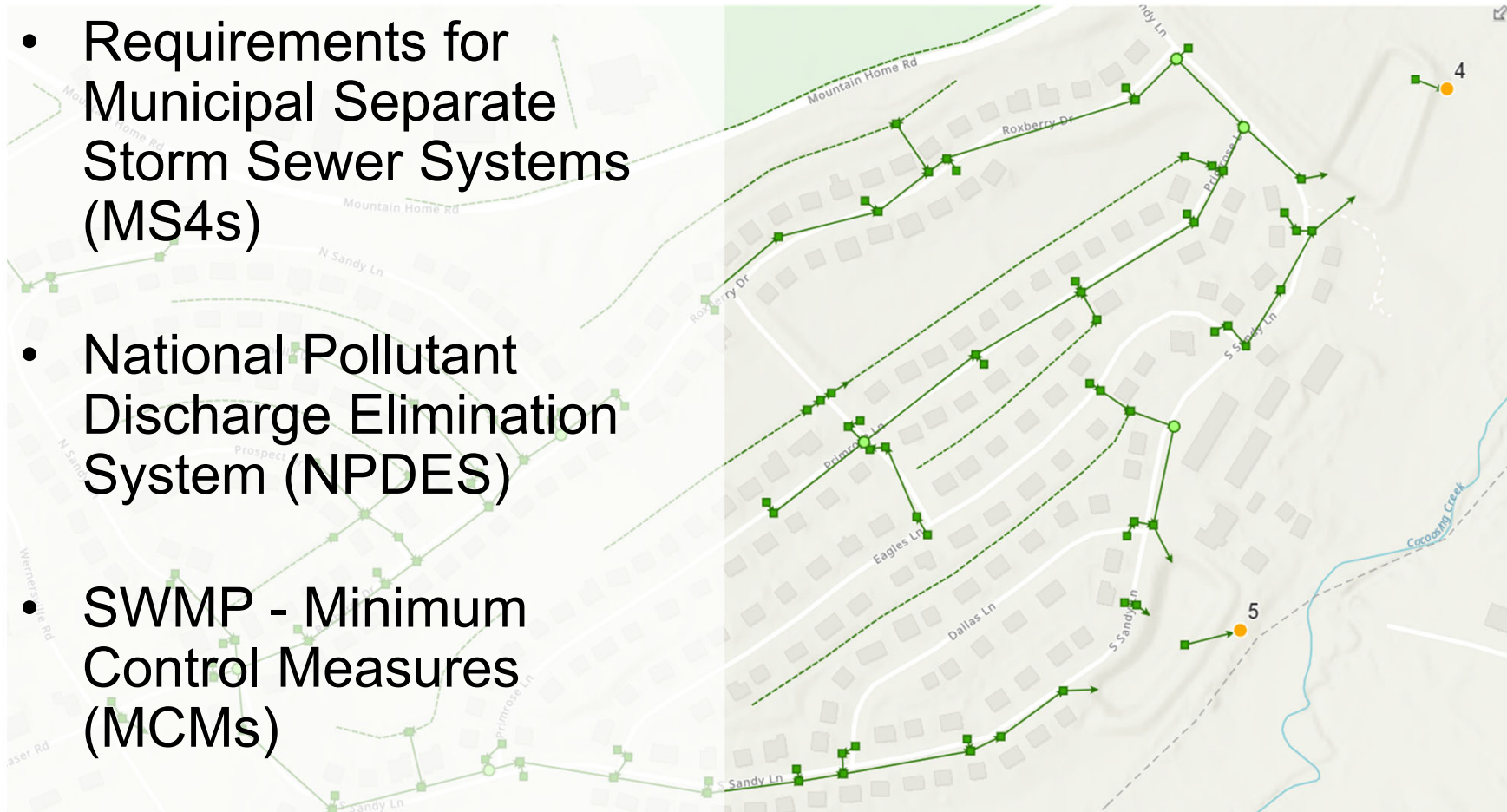ssmgroup.com

Clean Water Act

- Established in an effort to regulate discharges of pollutants to United States waters

- National Pollutant Discharge Elimination System (NPDES) Permit Program

MS4 Program

- Requirements for Municipal Separate Storm Sewer Systems (MS4s)

- National Pollutant Discharge Elimination System (NPDES)

- SWMP - Minimum Control Measures (MCMs)

Minimum Control Measures (MCMs)

1. Public Education/Outreach

2. Public Participation

3. Construction Site Runoff Control

4. Post-Construction Management

5. Pollution Prevention

6. Illicit Discharge Controls

Illicit Discharge Detection & Elimination

1. Develop a program

2. Map the storm sewer collection system and hydrological features

3. Outfall Inspection

4. Stormwater management ordinance

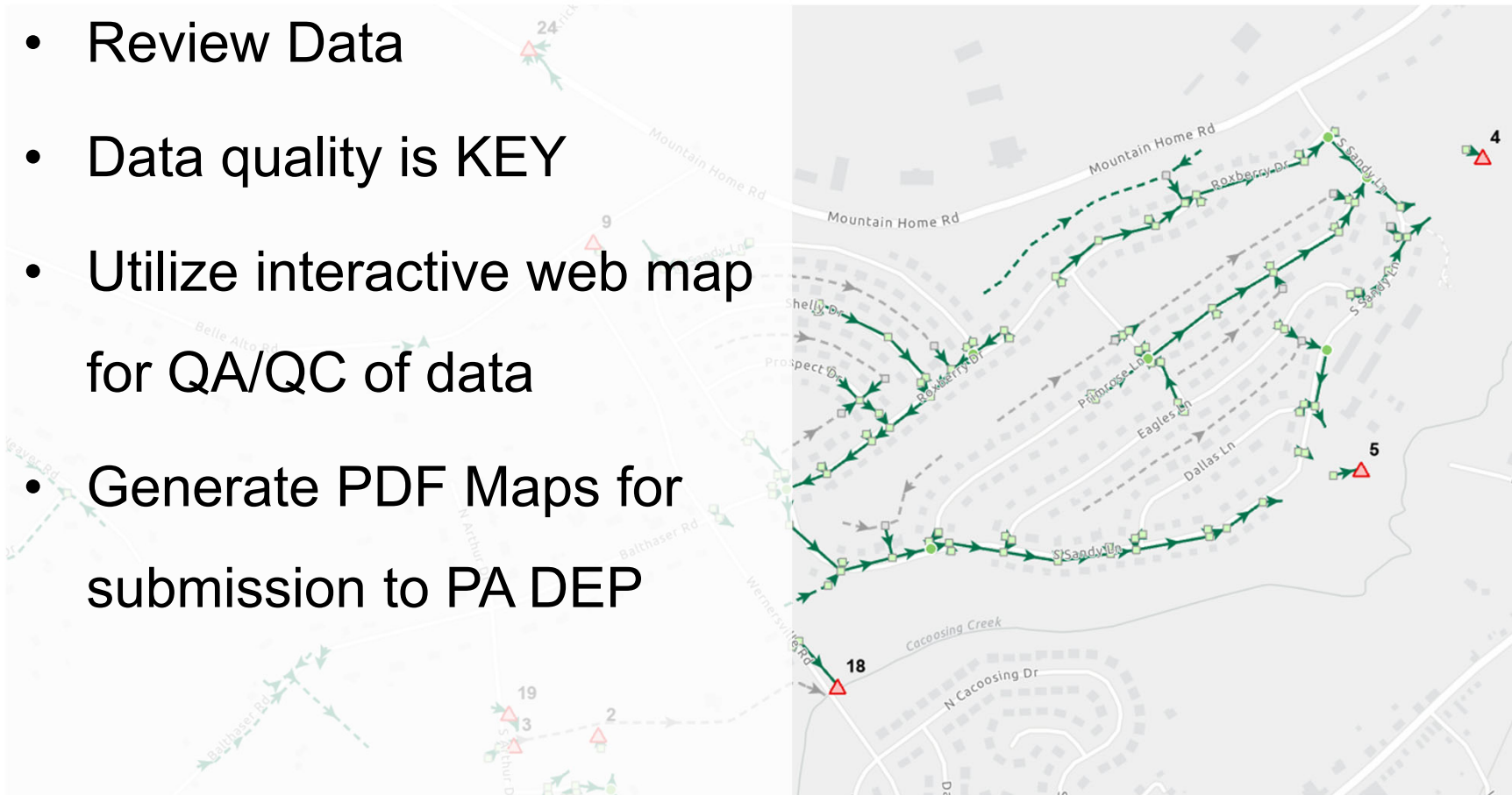5. Educational outreach

Case Study: South Heidelberg Township

- Kickoff Meeting

  - Client Goals/Needs

  - Level of involvement

  - Set up Online GIS Platform

  - Obtain GIS Data

- Rough draft of workflow

Evaluate the GIS Data

- Review Data

- Data quality is KEY

- Utilize interactive web map for QA/QC of data

- Generate PDF Maps for submission to PA DEP

Prepare the GIS Data

- Develop field list based off PA DEP Outfall Field Screening Report Document

- Prep Attribute Data

- Add outfall inspection table and relationship class

- Publish data and set up data collection map
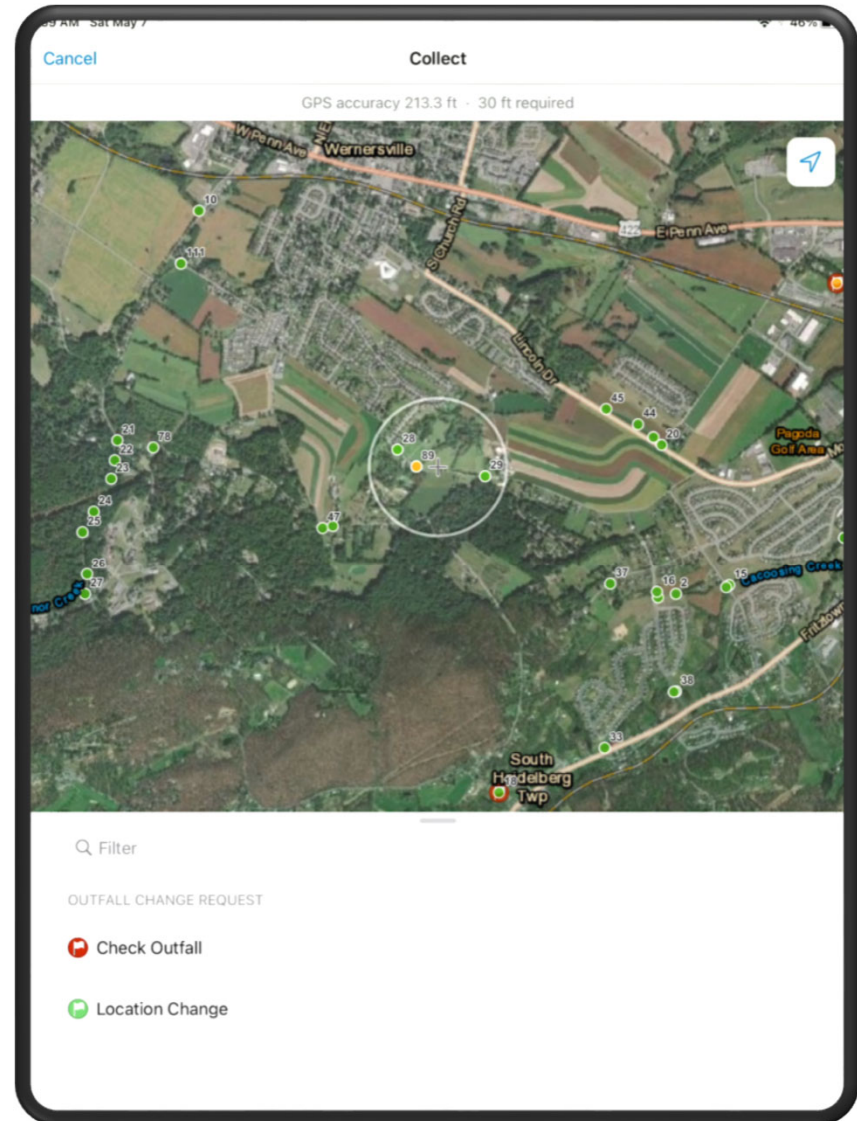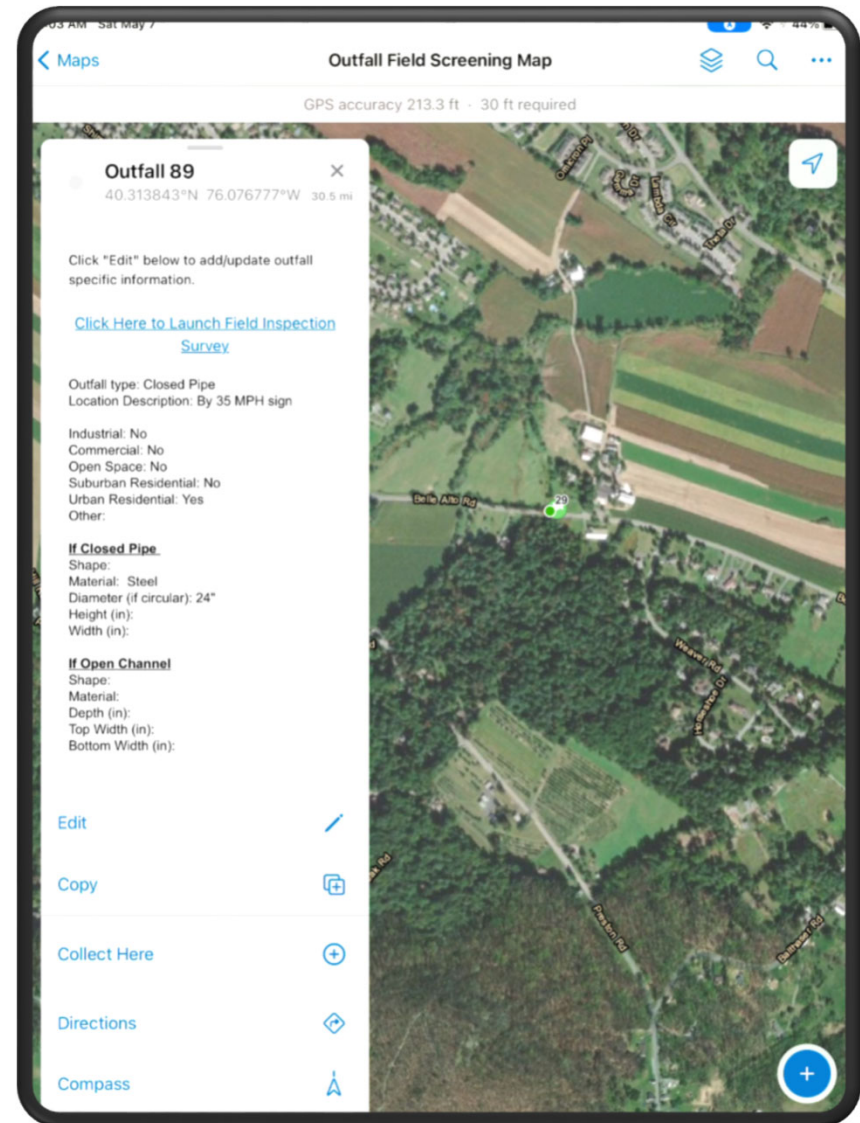
Build the Inspection Form

Mobile Data Collection

- Interactive map of MS4 assets

- Ability to flag assets

- Visually see status of Outfall Inspection

- Add or Update Outfall Attribute Information

- Launch the Inspection App

Mobile Inspection

- Configured for Client's need

- Ability to auto-populate questions in inspection form

- Attach photos or files to inspection

- Submit inspection right away for QA/QC
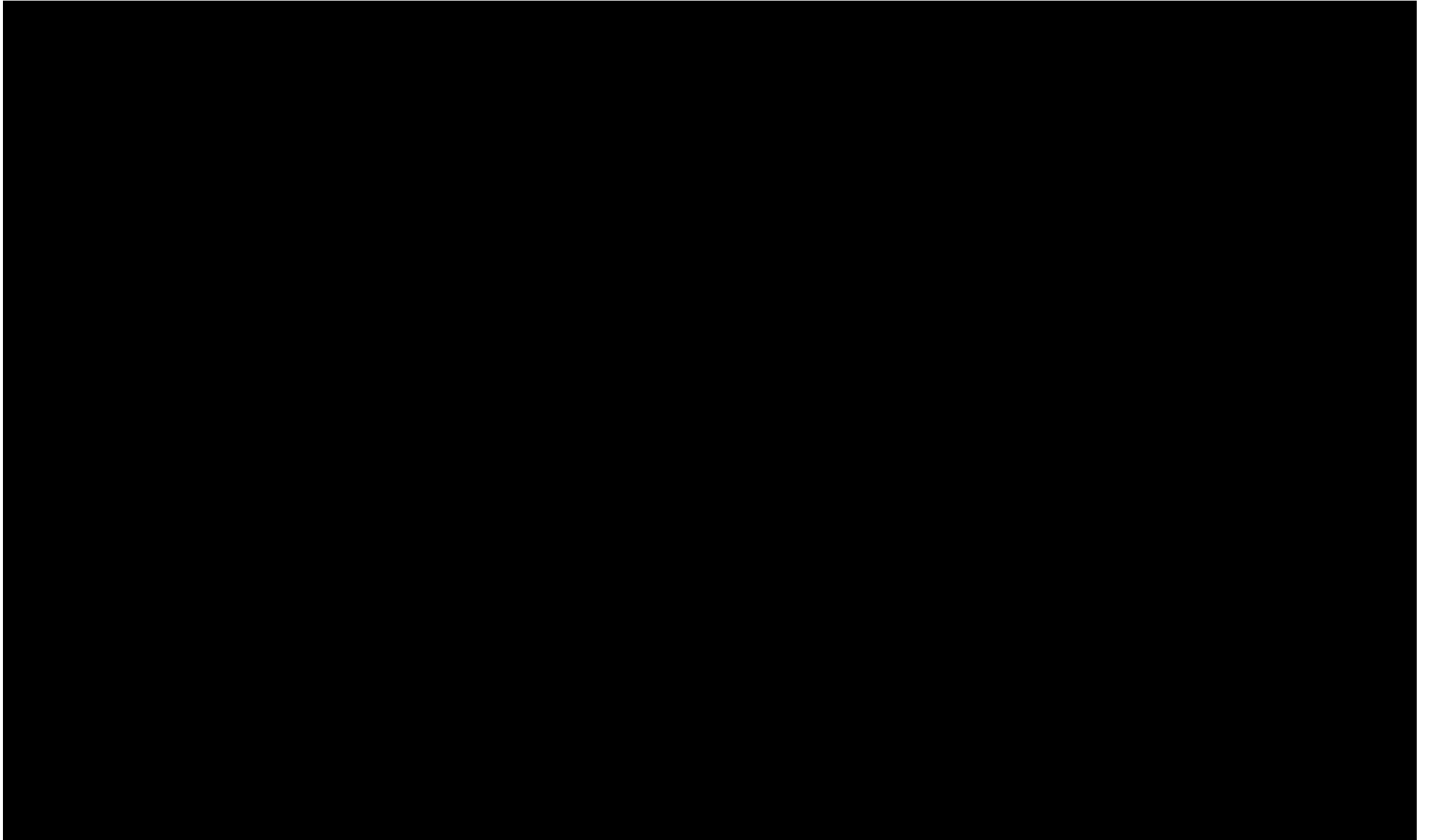
Inspection QA/QC Dashboard

Engineer Review Dashboard

MS4 Report Generation for DEP

Other Applications

- Manhole Inspections

- Street Sign Management & Inspections

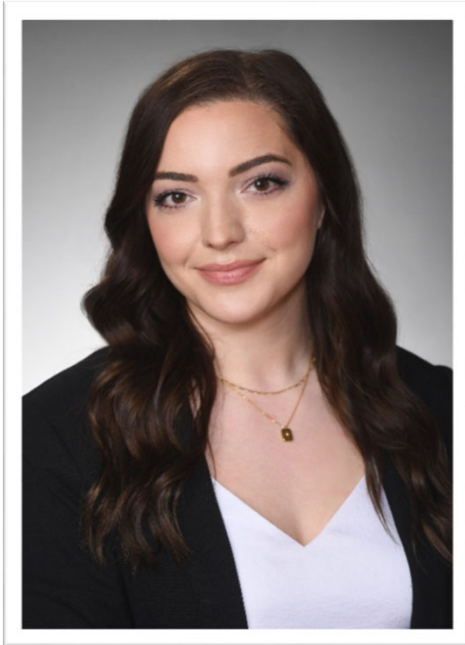- Leak Investigations

- Main Break Tracking

Other Applications

What we've learned!

- Asset management for a digital world

- Collaborative data exchange

- Mobile database population

- Products for outreach

- Catch us at Booth #83 for a Mobile Session today – we'll take a deep dive into the tools behind data collection!

Thanks for joining us!
Download the slides at ssmgroup.com

KATIE BALTZLEY
Senior GIS Analyst, Water Resources
Direct: 610-621-2000

INFO@ssmgroup.com

CONNECT WITH US.

@ssmgroup