BERKS COUNTY WATER AND SEWER ASSOCIATION VIRTUAL CONFERENCE | JULY 28, 2021

CASE STUDY: GIS WORKFLOW FOR MS4 KATIE BALTZLEY, GIS ANALYST



SPOTTS | STEVENS | MCCOY

Engineering, Surveying and Environmental Services ssmgroup.com

ASSET MANAGEMENT WITH GIS

What we're exploring today!

- GIS Workflow for MS4
 - Making data accessible to operations staff
- Collaborative data exchange
 - Connecting those who know with those who manage
- Mobile database population
 - Capturing institutional knowledge
 - Perform inspections and track maintenance
- QA/QC
- Report generation



ArcGIS Collector App

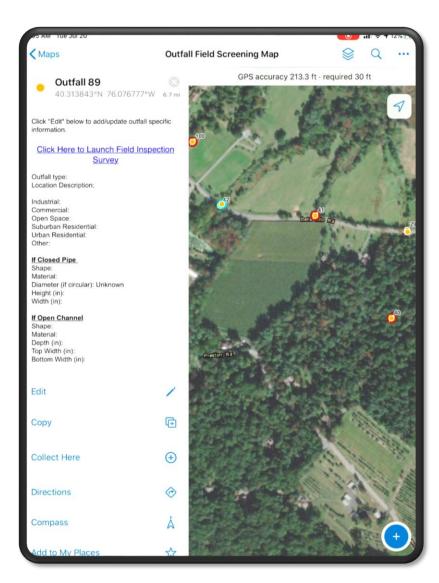
- Interactive map of MS4 assets
- Ability to flag assets
- Add or Update Outfall Attribute
 Information
- Visually see status of Outfall Inspection





ArcGIS Survey123 App

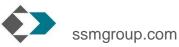
- Configured for Client's need
- Ability to auto-populate questions in inspection form
- Attach photos or files to inspection
- Submit inspection right away for QA/QC



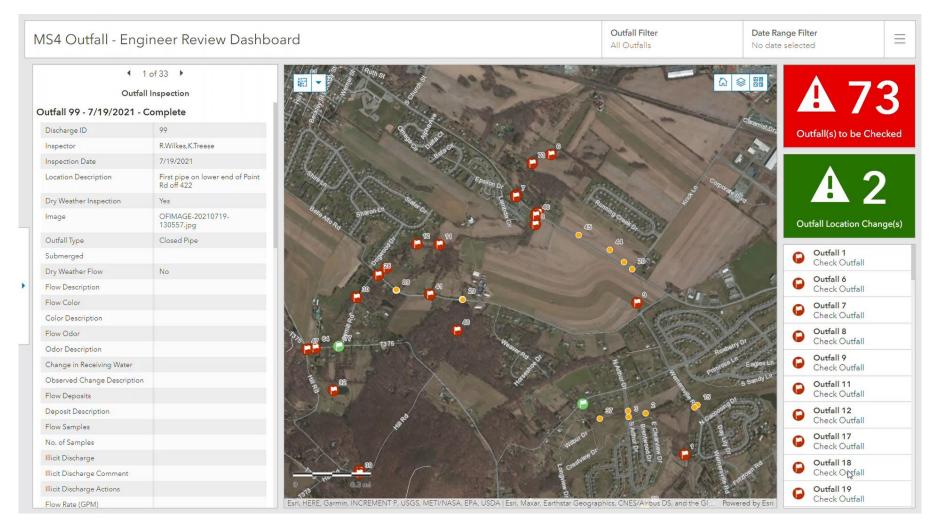


Inspection QA/QC Dashboard

Outfall 26 - 6/1/2021 Inspection In Progress	🔕 MS4 - In Office Outf	fall Screening		Outfall No.	×	2	0	<i>r</i> .
Outfall 2 - 5/24/2021 Inspection Complete	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>			0 selected / 114 records 🛛 😹 💷 🕁				
Outfall 3 - 5/24/2021 Inspection Complete	Discharge Identifier	DMSLat	Å	DMSLon	*	Permittee	Name	
Outfall 4 - 5/24/2021 Inspection Complete	111	40 19 28.88470232 N		076 05 35.88119354 W				
Outfall 5 - 5/28/2021 Inspection Complete	59	40 17 47.45801804 N		076 04 15.70420670 W				
Outfall 10 - 6/1/2021 Inspection Complete	92	40 18 29.70297671 N		076 04 53.06023861 W				
Outfall 15 - 7/19/2021 Inspection Complete	58	40 18 38.22838908 N		076 04 57.76224228 W				
Outfall 16 - 5/24/2021 Inspection Complete	64	40 18 38.42607107 N		076 04 57.54423142 W				
Outfall 18 - 6/1/2021 Inspection Complete	110	40 18 38.58403258 N		076 04 51.62818800 W				
Outfall 20 - 5/28/2021 Inspection Complete	76	40 18 38.60826624 N		076 04 51.62758965 W				•
Outfall 21 - 6/1/2021 Inspection Complete	•						// //>	•
Outfall 22 - 6/1/2021 Inspection Complete		+						
Outfall 23 - 6/1/2021 Inspection Complete		_	La series			100		
Outfall 24 - 6/1/2021 Inspection Complete								
Outfall 25 - 6/1/2021 Inspection Complete	Choose an outfall from the table above o	r the ma <mark>p t</mark> o the right.			•1	•		
Outfall 26 - 6/1/2021 Inspection Complete								
Outfall 27 - 6/1/2021 Inspection Complete	95							
Outfall 28 - 7/19/2021 Inspection Complete								
Last update: a few seconds ago				Esri, HE	RÈ, Garmi	n, INCREMEN	T P, USGS, EPA, US	(জ্যান)

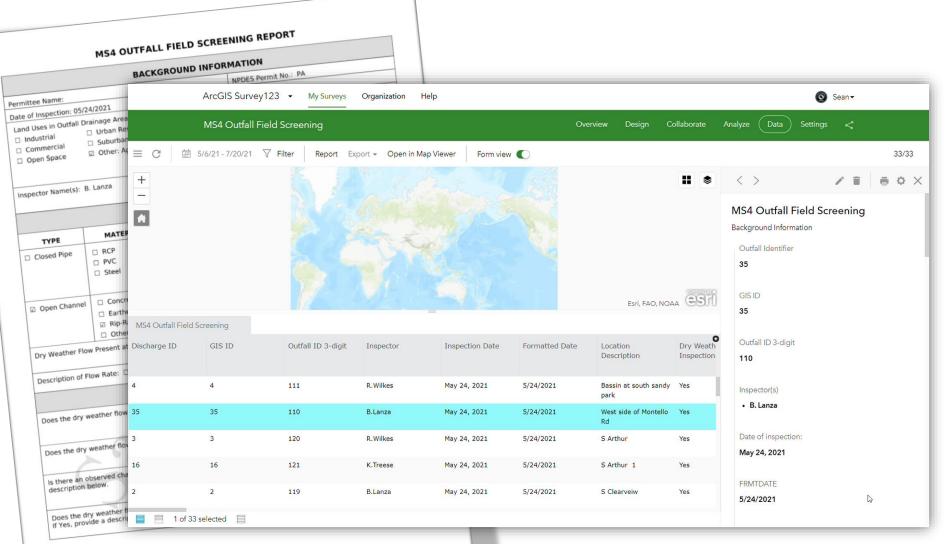


Engineer Review Dashboard





MS4 Report Generation for DEP





ssmgroup.com

What we've learned!

- Asset management for a digital world
 - Making data accessible to operations staff
 - •Records management system
- Collaborative data exchange
 - Connecting those who know with those who manage
 - Documenting field photos
 - Correcting locational information
 - Field data collection
 - •QA/QC
- Mobile database population
 - Capturing institutional knowledge
 - Adding attribute data in the office or in the field
 - Using form-based surveys to generate reports





Thanks for joining us! Download the slides at <u>ssmgroup.com</u>

Katie Baltzley

GIS Analyst, Water Resources Direct: 610-898-3049

katie.baltzley@ssmgroup.com

