Industrial Stormwater Enforcement Actions

Guest: US EPA Enforcement

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Ryan Janoch, PE

Mapistry
Co-founder & COO

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The public has **unprecedented access** to the details of your environmental program

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Violation detection is easier

Recent technology advancements are fueling an increase in citizen-initiated lawsuits

> " *There is a growing toolkit of inexpensive monitoring technologies that make it easier for private groups and individuals to detect environmental violations and collect evidence.*
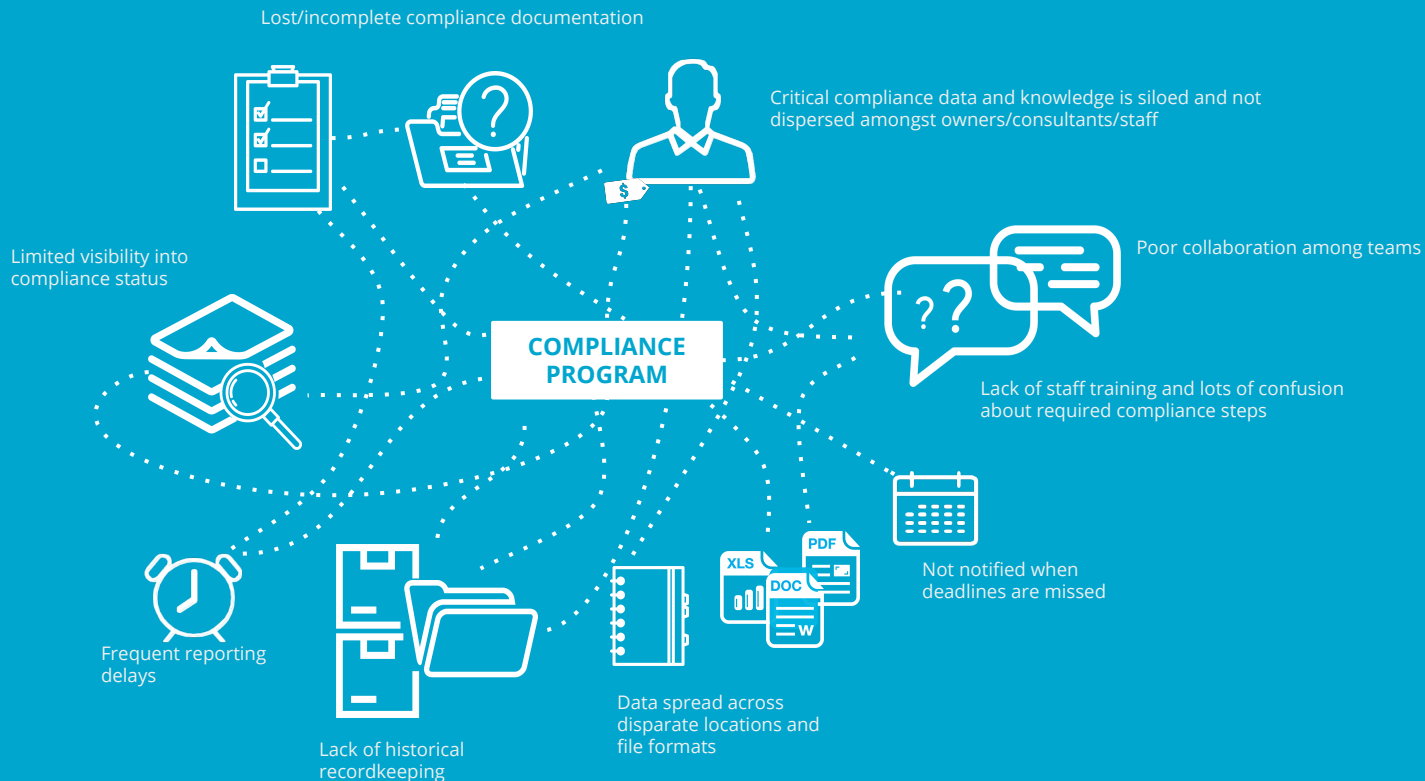>
> - Crowell Moring LLP

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Risk of compliance violations is high

Navigating complex and ever-changing regulations is extremely challenging

Annual training

CERS reporting

Routine site inspections

Mandatory records retention schedule

Incident response reporting

HAZWOPER Refresher training

Reporting thresholds

Large vs Small Quantity Generator

Mandatory training

Hazardous Materials Business Plans (HMBP)

Satellite accumulation areas

Site maps

Contingency Plan development

COMPLIANCE

Spill response training

Storage containers & capacity requirements

SPCC plans

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Compliance programs are complicated

Lost/incomplete compliance documentation

Critical compliance data and knowledge is siloed and not dispersed amongst owners/consultants/staff

Limited visibility into compliance status

Poor collaboration among teams

COMPLIANCE PROGRAM

Lack of staff training and lots of confusion about required compliance steps

Not notified when deadlines are missed

Frequent reporting delays

Lack of historical recordkeeping

Data spread across disparate locations and file formats

XLS

PDF

DOC

W

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The **best companies excel** across the board from production to environmental

Environmental violations are
expensive

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In 2017, environmental violations cost US companies **more than $22B**[1]

mapistry   1.   https://www.epa.gov/enforcement/enforcement-annual-results-numbers-glance-fiscal-year-2017

$11.7M settlement for stormwater at 21 facilities across 5 states[1]

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1.   https://www.epa.gov/enforcement/lafarge-north-america-inc-clean-water-act-settlement

$4.5M cost for stormwater violations at 18 facilities[1]

1.   https://www.spencerfane.com/publication/stormwater-violations-at-concrete-ready-mix-plants-enforcement-nets-more-than-4-million/

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Those who embrace technology, automation, and real-time analytics **avoid violations.**

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How do we build a **world-class** environmental program?
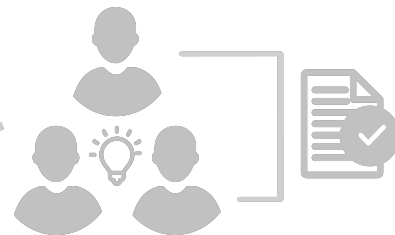
Analytics   Automation   Mobile   Training   Subject Experts

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Our Solution

SUBJECT MATTER EXPERTS
Stormwater, SPCC, and Hazardous Materials
Connect with a dedicated team of stormwater, SPCC, and hazardous waste subject matter experts, anytime. Whether it's a simple question or something more detailed like BMP design, risk assessment, completing mandatory permits, plans, inspections, or samples, we're here to help! Unlike consultants, we don't charge hourly, we're to help you succeed today and everyday.

EDUCATION
eLearning & In-Person Training
Access an abundance of learning & education opportunities including live and on-demand training sessions for beginners or advanced learners or get exclusive litigation research as well as critical industry trends and insights to keep your team informed and prepared to run best-in-class compliance programs.

TECHNOLOGY
Environmental Compliance Platform
Centralizing your compliance data, records, and history with Mapistry helps minimize costly risks while ensuring the integrity, effectiveness, and efficiency of your compliance programs. Some of the world's most innovative industrial manufacturers use Mapistry to achieve multi-site compliance.
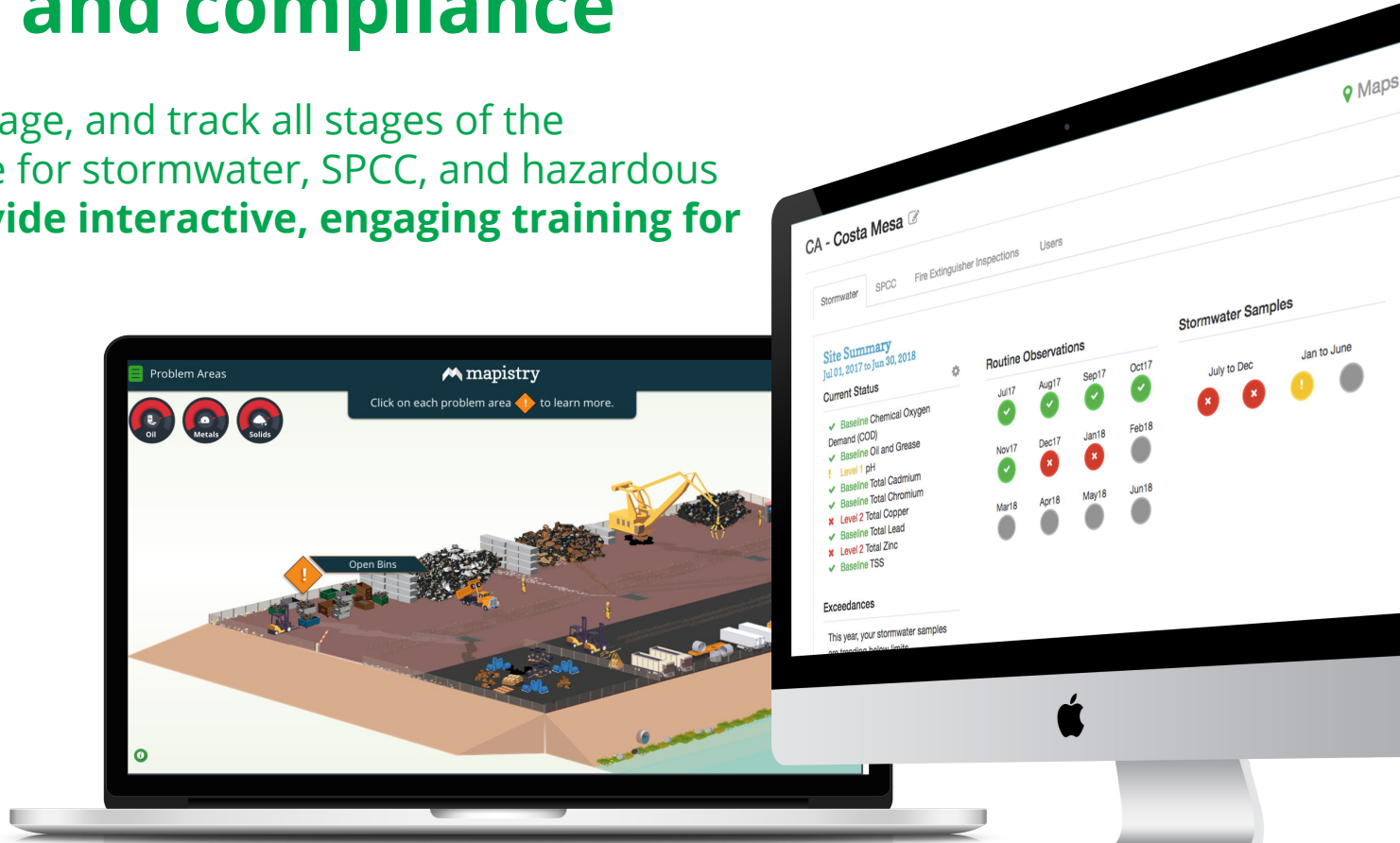
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Leading industrial manufacturing companies use Mapistry solutions

Trusted By:

Single platform for continuous risk reduction and compliance

Easily capture, manage, and track all stages of the compliance lifecycle for stormwater, SPCC, and hazardous materials **plus provide interactive, engaging training for your employees!**
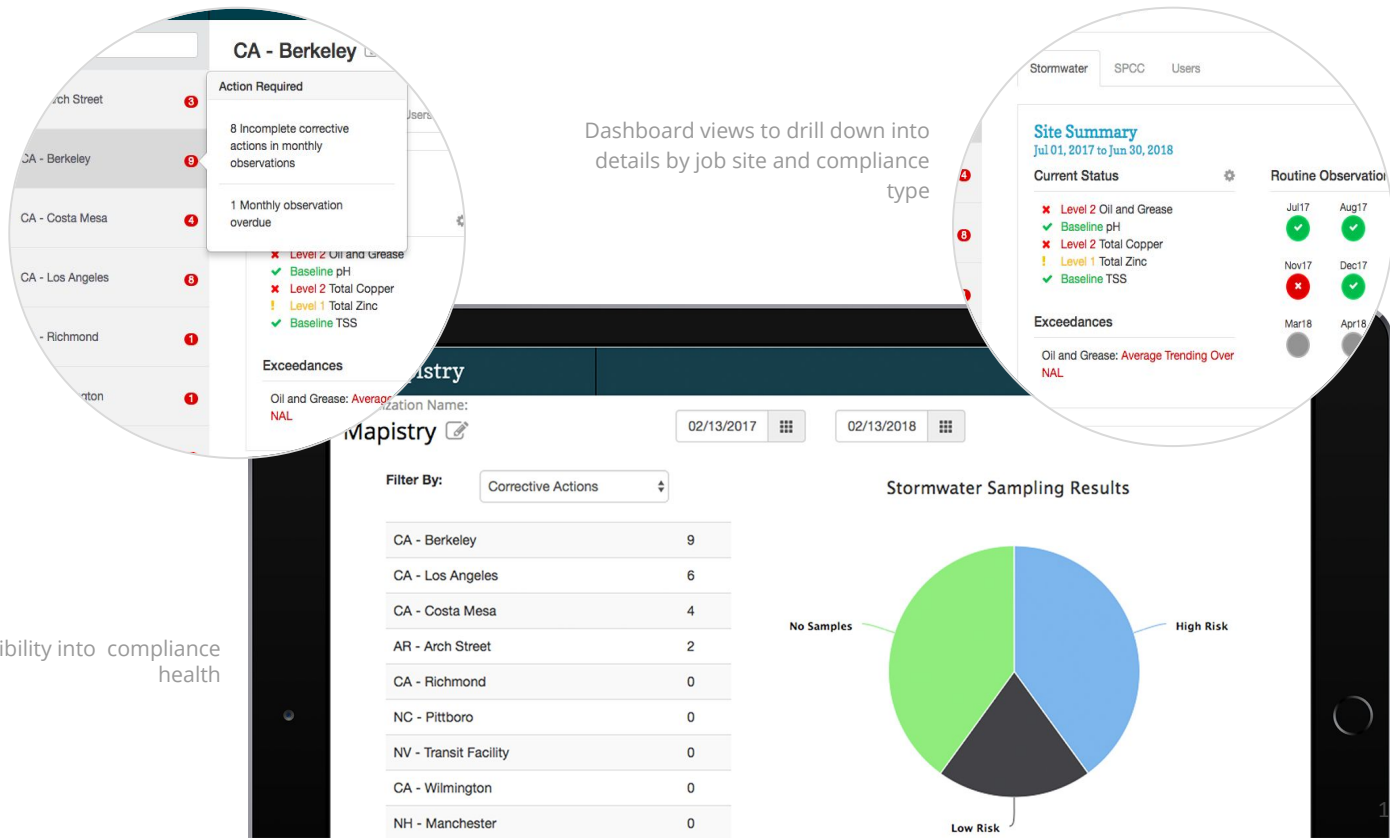
Ensure environmental excellence across all of your facilities

Real-time alerts, performance, and results tracking all in one place

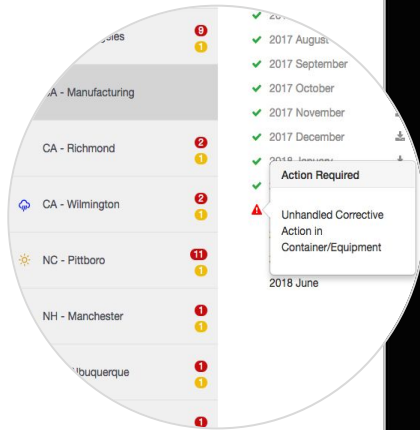Dashboard views to drill down into details by job site and compliance type

Get continuous visibility into compliance health

CA - Berkeley

Action Required

8 Incomplete corrective actions in monthly observations

1 Monthly observation overdue

✗ Level 2 Oil and Grease
✓ Baseline pH
✗ Level 2 Total Copper
! Level 1 Total Zinc
✓ Baseline TSS

Exceedances

Oil and Grease: Average NAL

ch Street ③

CA - Berkeley ⑨

CA - Costa Mesa ④

CA - Los Angeles ⑧

- Richmond ①

gton ①

Stormwater | SPCC | Users

Site Summary
Jul 01, 2017 to Jun 30, 2018

Current Status | Routine Observation

✗ Level 2 Oil and Grease
✓ Baseline pH
✗ Level 2 Total Copper
! Level 1 Total Zinc
✓ Baseline TSS

Jul17	Aug17
Nov17	Dec17
Mar18	Apr18

Exceedances

Oil and Grease: Average Trending Over NAL

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Organization Name:

Mapistry ✎

02/13/2017   02/13/2018

Filter By: Corrective Actions

Stormwater Sampling Results

CA - Berkeley	9
CA - Los Angeles	6
CA - Costa Mesa	4
AR - Arch Street	2
CA - Richmond	0
NC - Pittboro	0
NV - Transit Facility	0
CA - Wilmington	0
NH - Manchester	0

No Samples
High Risk
Low Risk

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Completely painless and intuitive

Easily manage tasks, log inspections, perform swppp updates, more…

Instantly prepare and submit properly formatted regulatory reports to state and federal electronic reporting systems
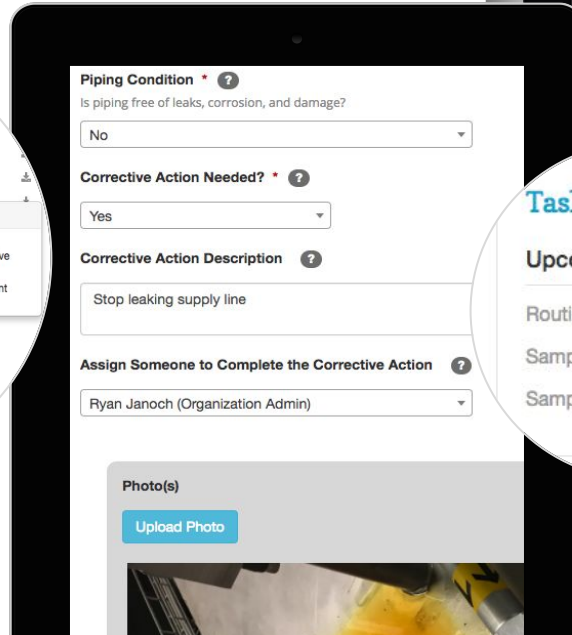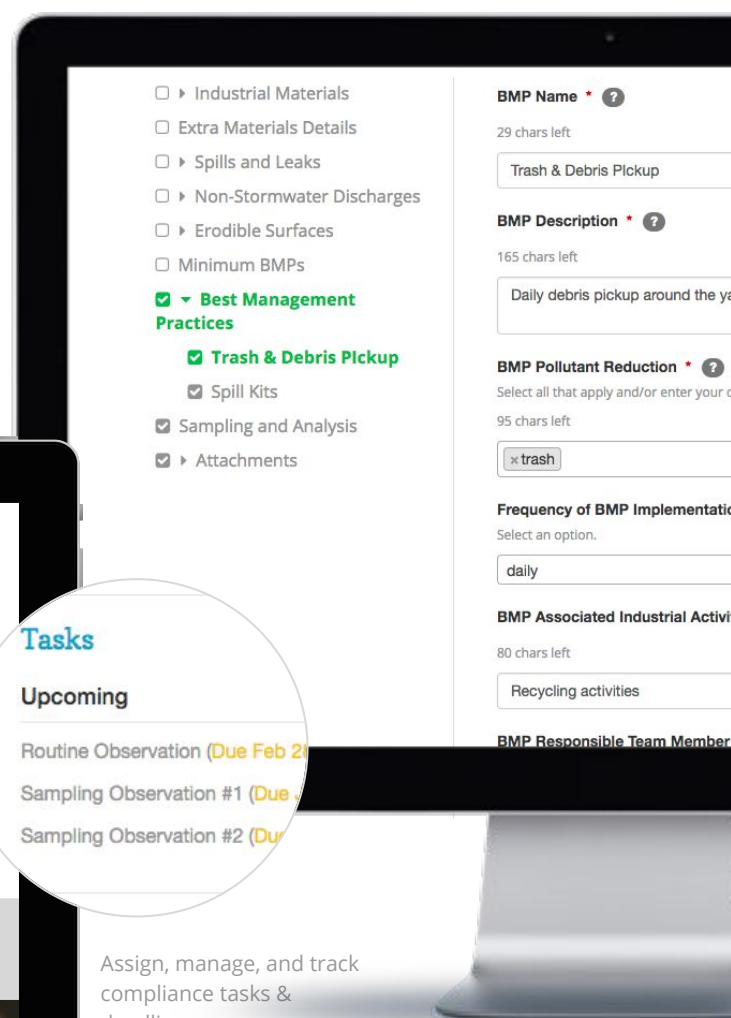
Centrally monitor weather changes, required actions, and compliance status

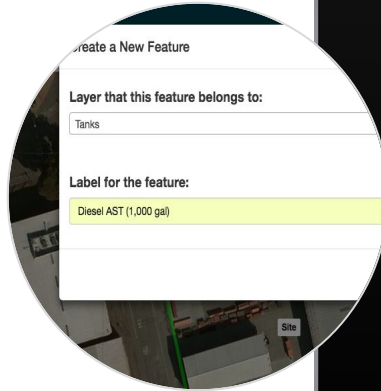Easily log issues and corrective actions anytime, anywhere

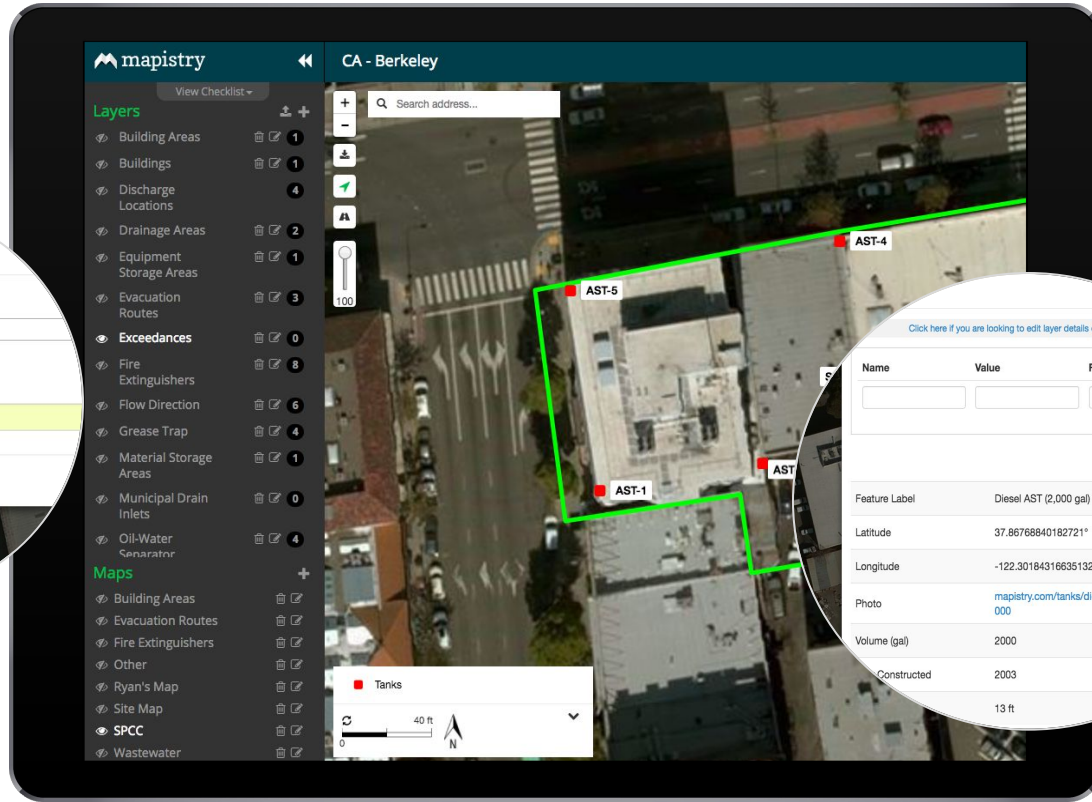Assign, manage, and track compliance tasks & deadlines

Intelligent site mapping
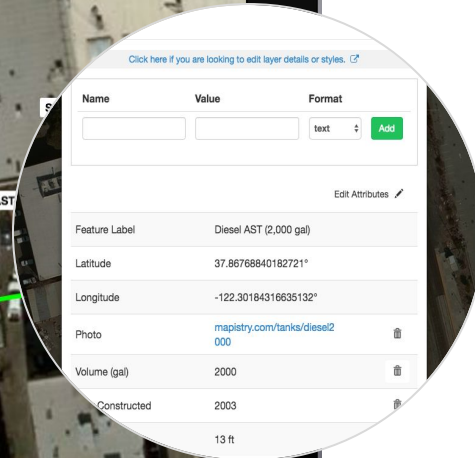
Move your maps from analog to digital

Use layers, custom styles, drag and drop, and other annotation features to easily generate/update facility maps

Mobile and web-based data capture simplifies updates while preserving the historic records

Instantly markup all required data points including storage areas, receiving waters, pollutant sources, tanks, drainage areas, and Best Management Practices (BMPs)

Capture feature details and link elements back to references in your plans and actions

Create a New Feature

Layer that this feature belongs to:

Tanks

Label for the feature:

Diesel AST (1,000 gal)

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CA - Berkeley

Search address...

Layers

View Checklist

Building Areas			1
Buildings			1
Discharge Locations			4
Drainage Areas			2
Equipment Storage Areas			1
Evacuation Routes			3
Exceedances			0
Fire Extinguishers			8
Flow Direction			6
Grease Trap			4
Material Storage Areas			1
Municipal Drain Inlets			0
Oil-Water Separator			4

Maps

Building Areas	
Evacuation Routes	
Fire Extinguishers	
Other	
Ryan's Map	
Site Map	
SPCC	
Wastewater	

100

AST-4

AST-5

AST-1

AST

Tanks

40 ft

Click here if you are looking to edit layer details or styles.

Name	Value	Format	
		text	Add

Edit Attributes ✎

Feature Label	Diesel AST (2,000 gal)
Latitude	37.86768840182721°
Longitude	-122.30184316635132°
Photo	mapistry.com/tanks/diesel2000
Volume (gal)	2000
Constructed	2003
	13 ft

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Your Spill Kit

Click on each marker to learn more.

Gloves

Be sure you wear gloves at all times throughout the cleanup and decontamination process.

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National Academy of Sciences Report

Committee Mandate

- Suggest improvement to current MSGP benchmark monitoring
- Evaluate the feasibility of numeric retention standards (e.g. storm size)
- Identify the highest priority industrial facilities for additional monitoring and **develop numeric effluent limitations**

Committee's Overarching Statement

*"As electronic reporting of industrial stormwater monitoring data becomes **fully implemented and integrated for all states**, large amounts of valuable industrial **stormwater data will be available for analysis, evaluation**, and identifying areas for improvement."*

- National Academy of Sciences Report 2019

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EPA National Enforcement Initiatives

Keeping Raw Sewage and Contaminated Stormwater Out of Our Nation's Water

Keeping Industrial Pollutants Out of Our Nation's Water

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Current Regional EPA Initiative

- Target - **Non-filers**

- Method - Data analysis

- Process?

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Why is this a focus for EPA?

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Local Site Inspections

Case Studies

On the ground site visits.....
what really happens

What was going on here?

The value of a **site visit**!

How can companies avoid **EPA enforcement**?

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Questions
AND answers!

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Upcoming webinars

California TMDL Amendments
  State Water Board TMDL Lead Shuka Rastegarpour
  Tuesday April 2nd

National Academy of Sciences Report & EPA MSGP Impact
  National Academy of Sciences Committee Chairman Dr. Allen Davis
  Wednesday April 24th

Thank you!

Questions: ryan@mapistry.com

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