



California Industrial Stormwater Annual Reports and Exceedances

Presented by





INTRO

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Founder of Mapistry

WHAT IS MAPISTRY?

SOFTWARE

- ✓ More efficient than consulting services
- ✓ Real-time insight

SERVICES

- ✓ Fills in the gaps that software cannot solve
- ✓ Stormwater expertise



GUEST

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Engineering Geologist at California Water Board

OVERVIEW

- ✓ Timeline
- ✓ Annual Report
- ✓ Exceedances
- ✓ QISP
- ✓ Exceedance Response Actions
- ✓ Training
- ✓ Questions



TIMELINE

- ✓ Conduct annual evaluation **before June 30, 2016**
- ✓ Reporting year ends **June 30, 2016**
- ✓ Annual report due **July 15, 2016**
- ✓ Exceedance Response Action (ERA) evaluation by **October 1, 2016**
- ✓ ERA Level 1 report via SMARTS by **January 1, 2017**

ANNUAL REPORT

- ✓ Online via **SMARTS**
- ✓ 12 questions (updated)
- ✓ Sampling info
- ✓ BMPs info
- ✓ SWPPP info

ANNUAL REPORT EXAMPLE

Has the Discharger maintained records on-site for the reporting year in accordance with XXI.J.3?

Yes or No

If no, explain



SAMPLING DATA

*Sampling data entered via
ad-hoc report,
not annual report*



SAMPLING REQUIREMENTS

- ✓ Qualified Storm Event (QSE)
- ✓ Sample 2 QSEs
 - January to June
 - July to December
- ✓ Each drainage area

4
Samples/Year



ANALYSES

- ✓ **Minimum** analyses
 - O&G,
 - TSS, and
 - pH
- ✓ **Additional** parameters
 - based on SIC code
 - found during assessment
 - 303(d) listing

NUMERIC ACTION LEVELS (NALs)

- ✓ Exceedance for 1 parameter possible
- ✓ Average annual NAL
 - all sampling results (QSE) for the reporting year
- ✓ Instantaneous maximum NAL
 - two+ sampling results in reporting year

EXCEEDANCE? *NOW WHAT?*

- Baseline to Exceedance Response Action (ERA) Level 1
- Evaluate & revise BMPs with QISP
- At end of reporting year



BECOMING A QISP

- Online **course** (state)
- Mid-term **exam** (state)
- In-person **workshop** (Trainer of Record)
- Final **exam** (state)

No prerequisites needed

QISP ROLE

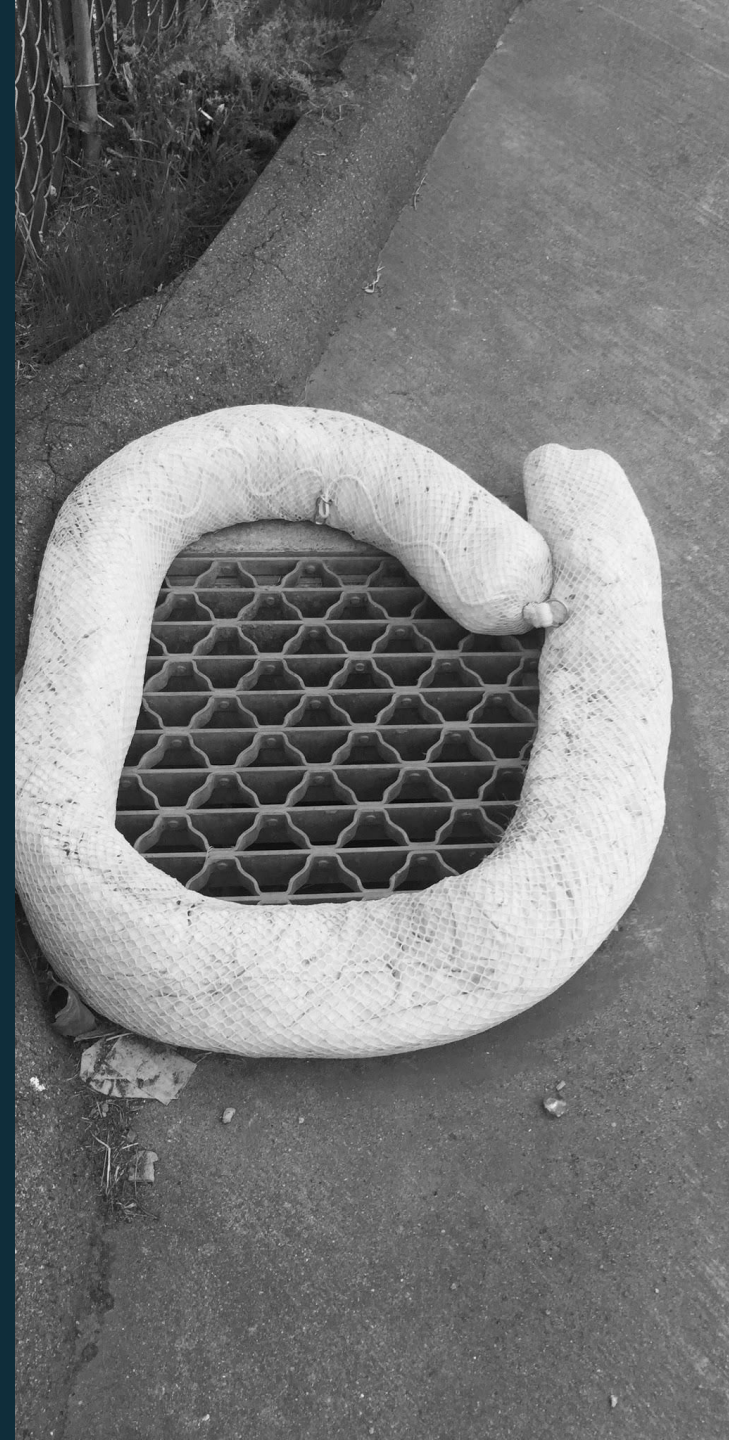
- Exceedance Response Action (ERA) site evaluation
- ERA Level 1 report
- Facility staff training



ERA EVALUATION

Site visit

- Sampling data
- Potential pollutant sources
- Existing BMPs
 - structural
 - non-structural





BEST MANAGEMENT PRACTICES (BMPs)

- ✓ Structural vs Non-structural
- ✓ Temporary vs Permanent

MINIMUM BMPs

CA Industrial Stormwater Permit

- ✓ Good housekeeping
- ✓ Preventative maintenance
- ✓ Spill and leak prevention and response
- ✓ Materials handling and waste management
- ✓ Erosion and sediment controls
- ✓ Employee training
- ✓ Quality assurance and recordkeeping

STRUCTURAL BMPs (AKA ADVANCED)

Some options:

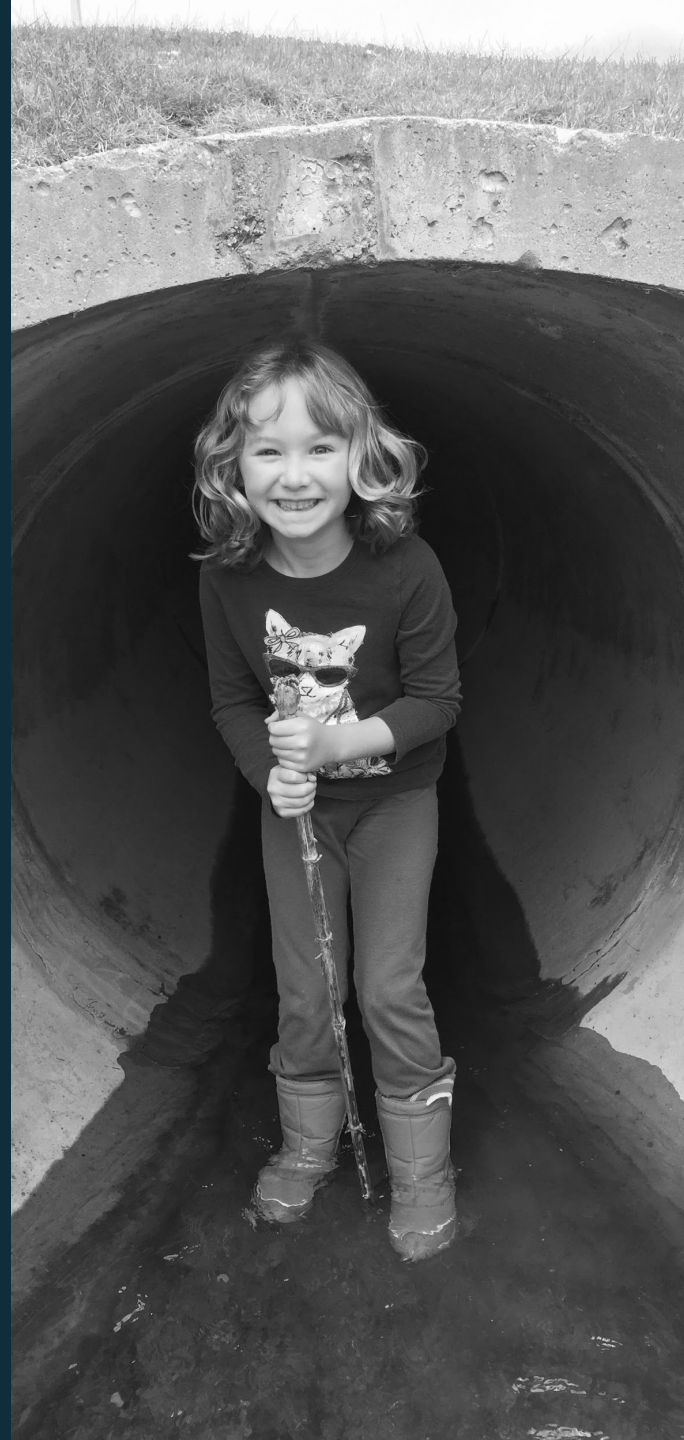
- ✓ Minimize exposure
(e.g. coverage)
- ✓ Treatment
- ✓ Containment

Design storm events in CA



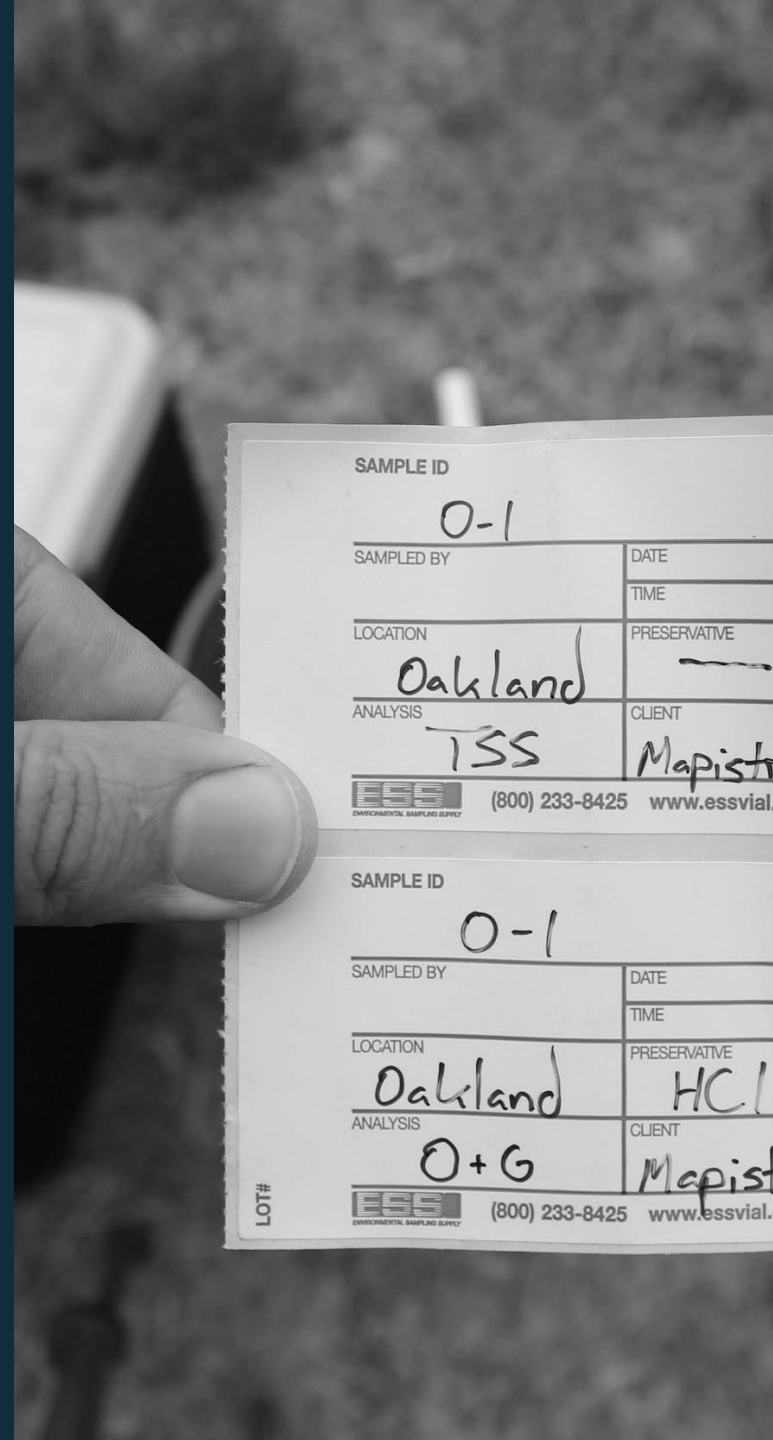
TRAINING

- ✓ Pollution Prevention Team
- ✓ QISP led if ERA Level 1
- ✓ hands-on vs classroom



ERA TRAINING POINTS

- ✓ What am I **sampling**?
- ✓ What do I inspect?
- ✓ Where are my **potential pollutants**?
- ✓ What **BMPs** have changed?
- ✓ How often should **BMPs** be **maintained**?
- ✓ How do I **return to baseline**?



QUESTIONS?



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