3rd Party Construction Inspection- Lessons Learned

ch2m

EPA- 2013 Audit

- CCH's MS4 NPDES Program was audited by USEPA in April 2013
- Potential permit violations or deficiencies in current training program identified

  → Highest training priorities!
- Identified the need for a dedicated third party storm water construction inspection program

3rd Party Construction Inspections

Purpose

- Meet the NPDES MS4 permit requirement.
- Assess the adequacy and effectiveness of the City inspection program.
- Provide general environmental awareness pertaining to construction activities.

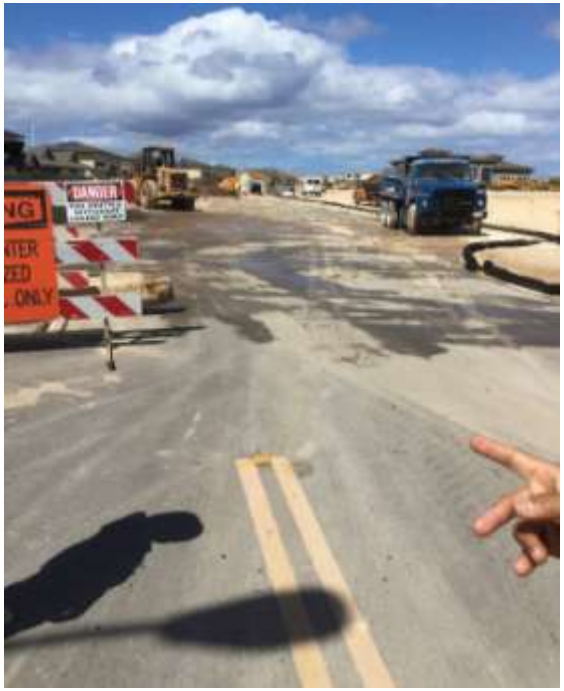
Assessing Program Effectiveness

- Visual observation during inspections.
- Data analysis pulled from CloudCompli reports.
- Observed knowledge increase of contractors and City staff from training (online, onsite, handouts).
- Project scoring when added to CloudCompli will allow us to assess projects without placing weight on size or time length.

Inspection Overview

- Coordinate with City inspectors, PM, engineers, and site Contractors to schedule our inspections.
- Perform monthly site inspections.
- Assess observed deficiencies, and discuss with Contractor.
- Provide suggestions & recommendations for stormwater management and compliance.
- Write the report in CloudCompli- online database.
- Follow up on corrective actions with assistance from DFM SWQ Branch.

Onsite Training



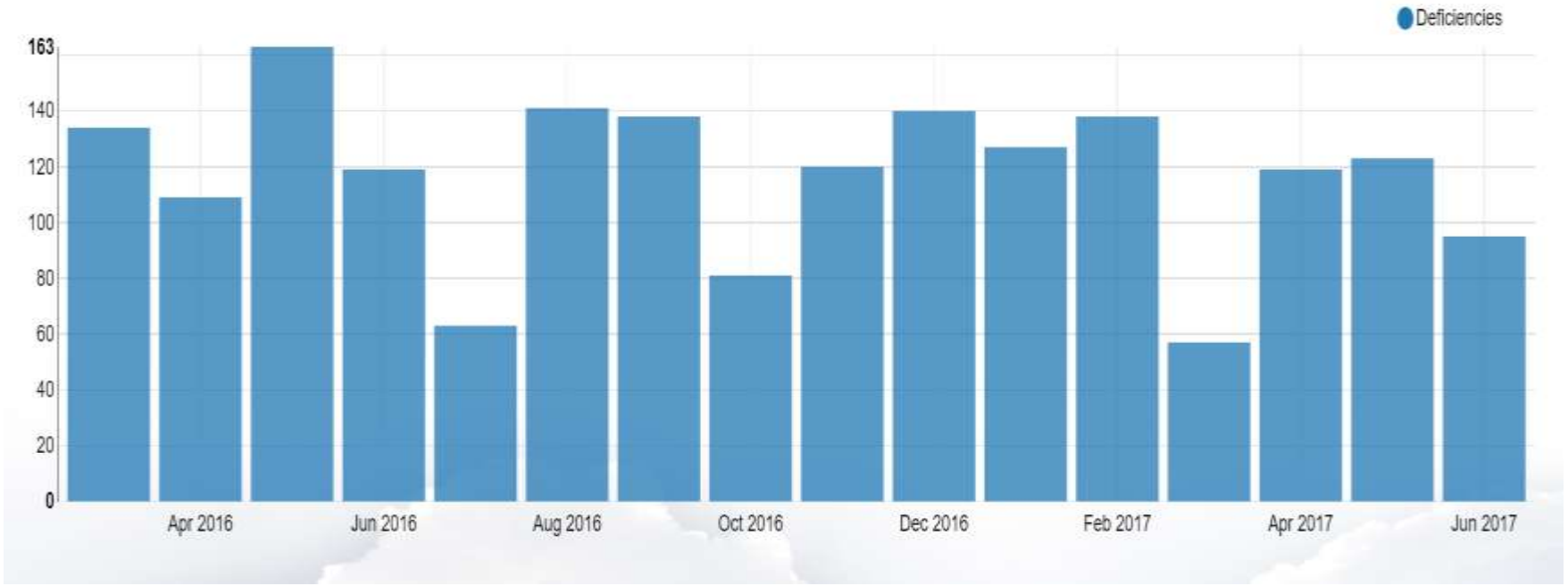
- Walking together = Learning.

Data Analysis

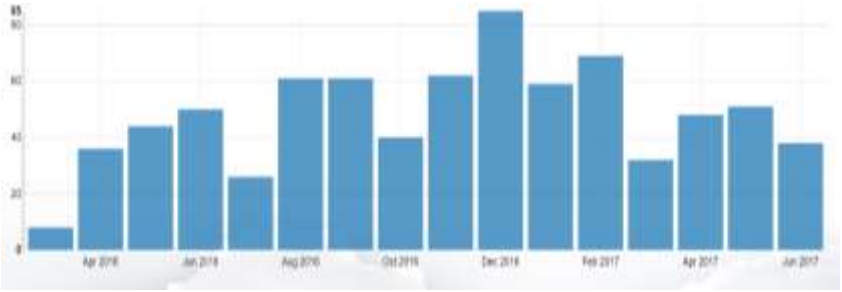
CloudCompli data analysis allows us to query any information documented within a report field.

- Total deficiencies over time.
- Deficiencies by individual Contractor over time.
- Deficiencies by BMP type or category.
- Deficiencies by City Department/Division over time.
- Response times for corrective actions implemented.

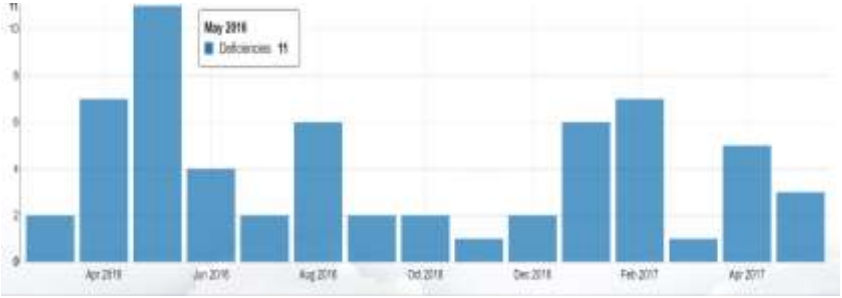
Deficiencies 2016-2017



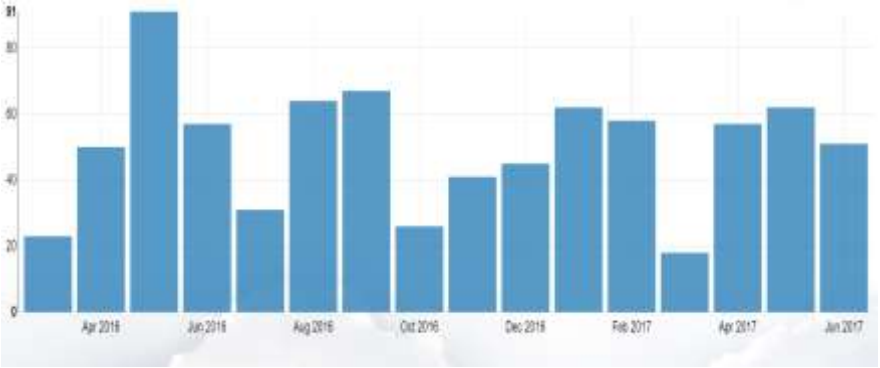
Waste Management



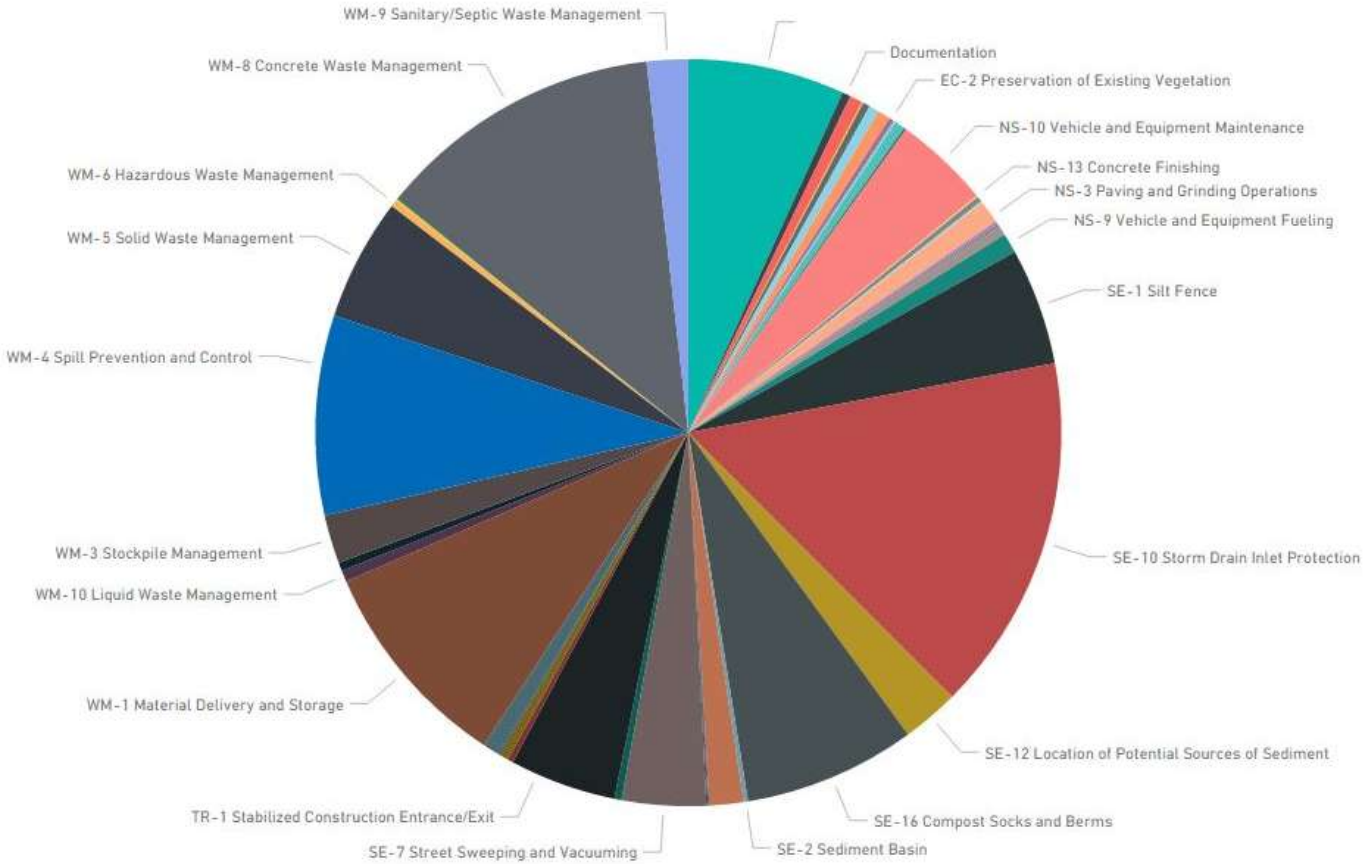
Erosion Control



Sediment Control



Deficiencies by BMP type



Top Deficiencies

- Concrete Waste Management.
- Storm Drain Inlet Protection.
- Material Delivery and Storage.
- Spill Prevention and Control.

Concrete Waste Management

Concrete Waste Management

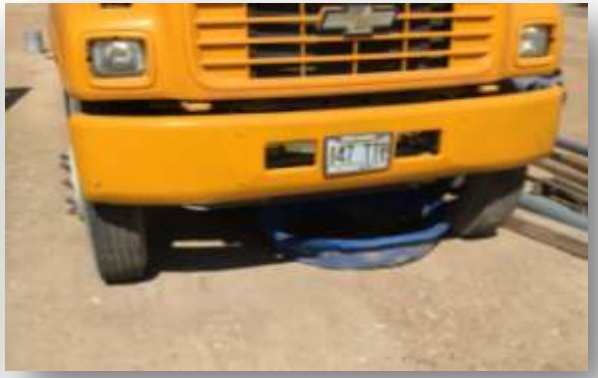
Storm Drain Inlet Protection

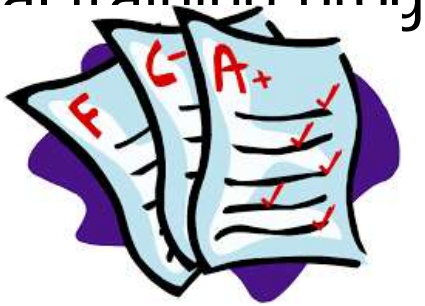
Storm Drain Inlet Protection

Tracking Soils Offsite

Exposed Soils

Spill Prevention



Goals

- Continued improvement as a project progresses.
- Contractors showing less deficiencies from project to project.
- Seeing Contractors utilizing our recommendations and suggestions to be compliant.
- Analysis showing a reduction in total BMP deficiencies.
- Using results of our 3rd Party Construction Inspection program to better inform our technical training program objectives.