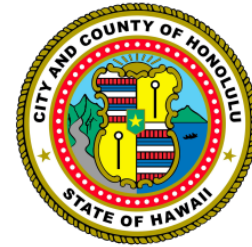
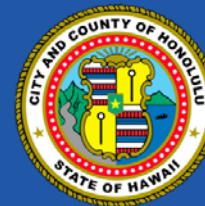


# Improving Construction Sites Stormwater Compliance with Inspections, Data Analytics, Training, and Enforcement Tools

DOT Protect Our Water Conference

November 18, 2020





# Introduction: 3<sup>rd</sup> Party Construction Inspection Program and Data Analytics

Jennifer Little **JACOBS**

Lead 3rd Party Construction Inspector

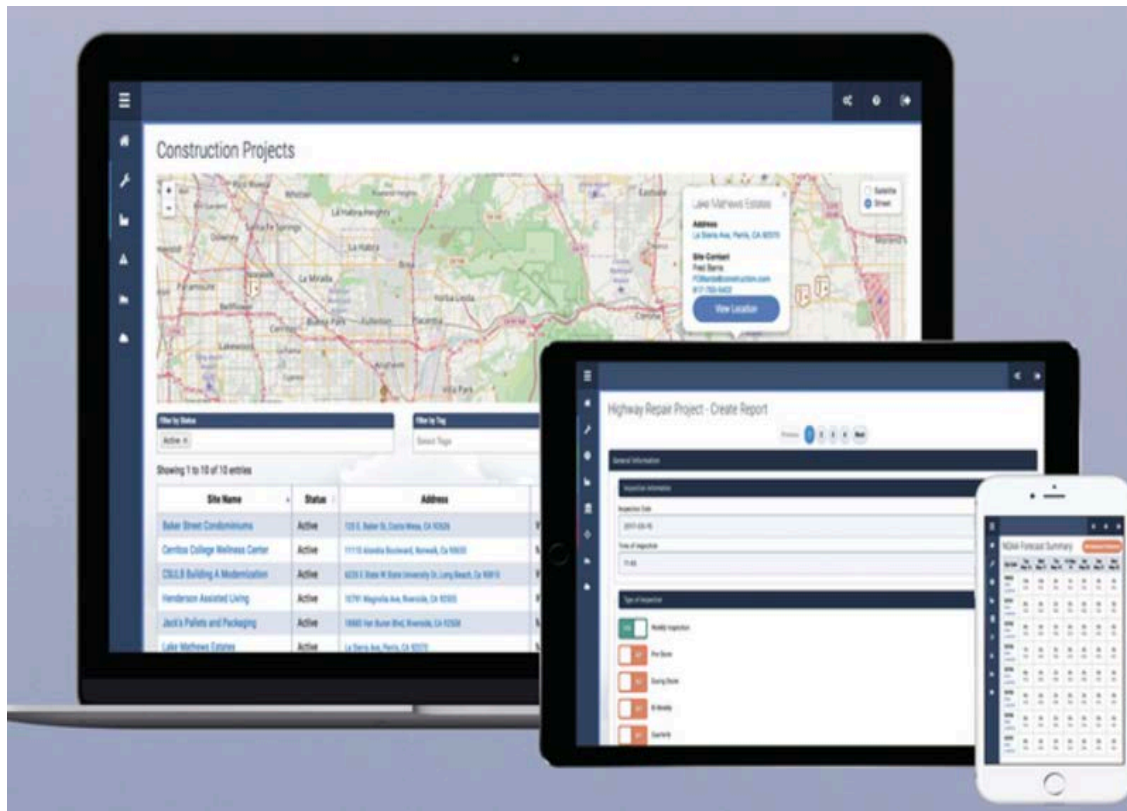


## 3PI Overview




- ❑ 3rd Party Construction Inspection Program
  - Adopted by DFM SWQ Branch in 2016
- ❑ 7 Inspectors are zoned throughout Oahu
- ❑ Visual Inspections
  - Public: DDC Divisions- CIP projects (CD, FD, MED, ENV-WEC, DTS, BWS)
  - Private: DPP- City permitted projects
- ❑ CloudCompli: Report online database
  - Upload inspection reports
  - Analyze data
- ❑ Data Analysis
  - Understand common BMP deficiencies, individual site scoring, and average contractor scoring
  - Allows us to assess and compare projects and contractors
  - Assist the City's training efforts

# CloudCompli- Inspection Reports Digitized



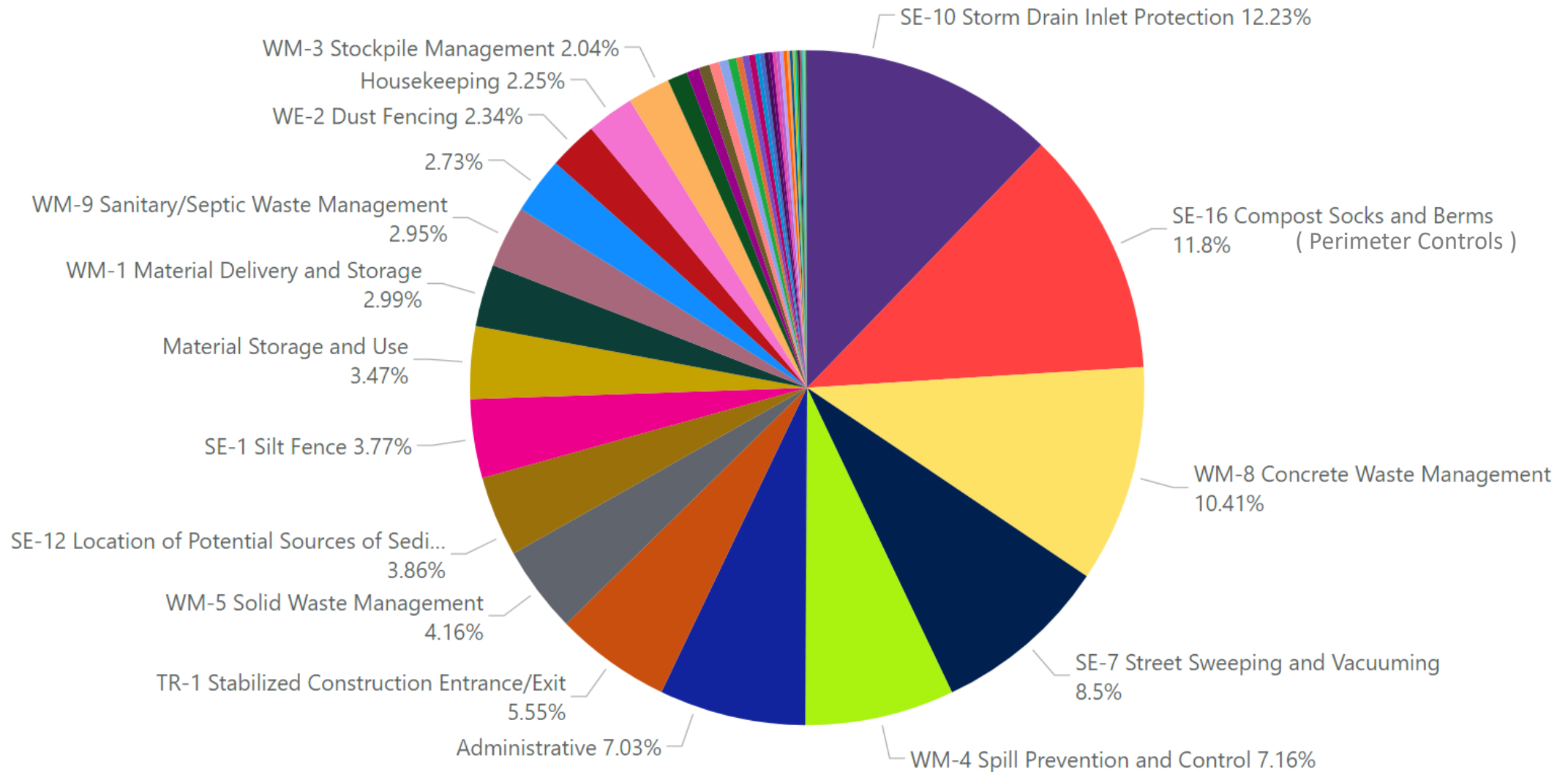
## THIRD PARTY (OVERSIGHT) INSPECTION CHECKLIST

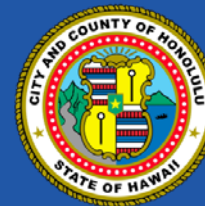
Project			
Name	Rehabilitation of Localized Streets, Phase 11C (Kalahe Valley, Kanehane Ridge, Hawaii Kai)		
Address	471 Kaulahoa Street, Hawaii Kai, HI 96825	Latitude/Longitude	21.2945036, -157.6981354
Type	<input type="checkbox"/> Private <input checked="" type="checkbox"/> CIP Project	Category	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input checked="" type="checkbox"/> 5
TMS		Acres Disturbed	
City Department	DDC	Total Acres	
Division	Civil	Percent Complete	63
City Inspector	Nad Tan	Contractor	Road & Highway Builders LLC
On 303(a) List	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Developer/Owner	City and County of Honolulu
NPDES Permit		Building Permit	
NGPC (App C)	HI R101561	Grubbing Permit	
NGPC (App G)		Grading Permit	
		Stockpiling Permit	

Inspection			
Inspection Date/Time	2017-04-03 10:00	Previous Inspection Date	2017-03-30
Weather Conditions	Wb, clear, 0-10mph winds.		
Third-Party Inspector	Jennifer Little		
Signature			

	Yes	No	N/A	Comments	Deficiencies
Is the contractor familiar with the requirements of the City and County Best Management Practices Manual for Construction Sites in Honolulu, CCH Rules for Erosion Rules, and Sediment Control Standards?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yes the contractor is familiar with the City and County Best Management Practices Manual.	None
Does the site have an ESCP? If yes, is the ESCP certified, signed, and dated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yes the BMP plan is located inside of the SWPPP	None
Does the site have a SWPPP? If yes, is the SWPPP certified, signed, and dated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yes the SWPPP is signed certified dated and responsible person named. Contractor is creating an amendment to change the name of the engineer identified.	None
Is the ESCP or SWPPP up to date and does it reflect current BMP implementation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BMPs change as the project progresses and therefore cannot be completely up-to-date every day.	None
Is there a record of periodic BMP inspection by field office staff?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Records of the BMP inspections are kept in the SWPPP.	None
Are the corrective action reports available?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The project has not had any corrective action to date for this section of work, but will be kept within the SWPPP.	None
Are there deficiencies, corrective measures, or requirements for additional BMPs noted in record?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yes the contractor will record all inspections and required documentation.	None
Does the project require permanent (post construction) BMPs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Permanent BMP is included paving and minor curb and gutter concrete work.	None

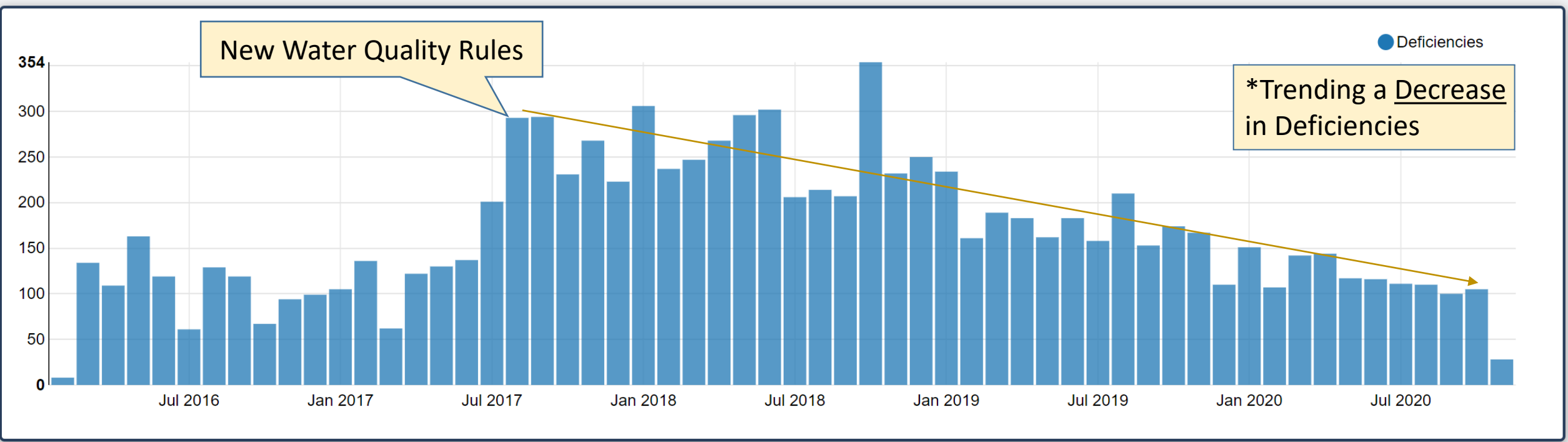
# Top Deficiencies





# DEFICIENCIES BY PERIOD

Analytics > Deficiencies by Period







# **Analytics and Pilot Virtual Training for Contractors**

## Virtual Contractor Training: Select Pilot Group

Name	Program	# of Locations	Average Effectiveness
+ Contractor A	Construction	30	86.7%
+ Contractor B	Construction	29	66.1%
+ Contractor C	Construction	29	76.8%
+ Contractor D	Construction	28	72.1%
+ Contractor E	Construction	28	82.6%
+ Contractor F	Construction	20	80.2%
+ Contractor G	Construction	19	88%
+ Contractor H	Construction	15	62.4%
+ Contractor I	Construction	14	84.1%
+ Contractor J	Construction	14	80.3%





# Identifying Topics for Contractor Training

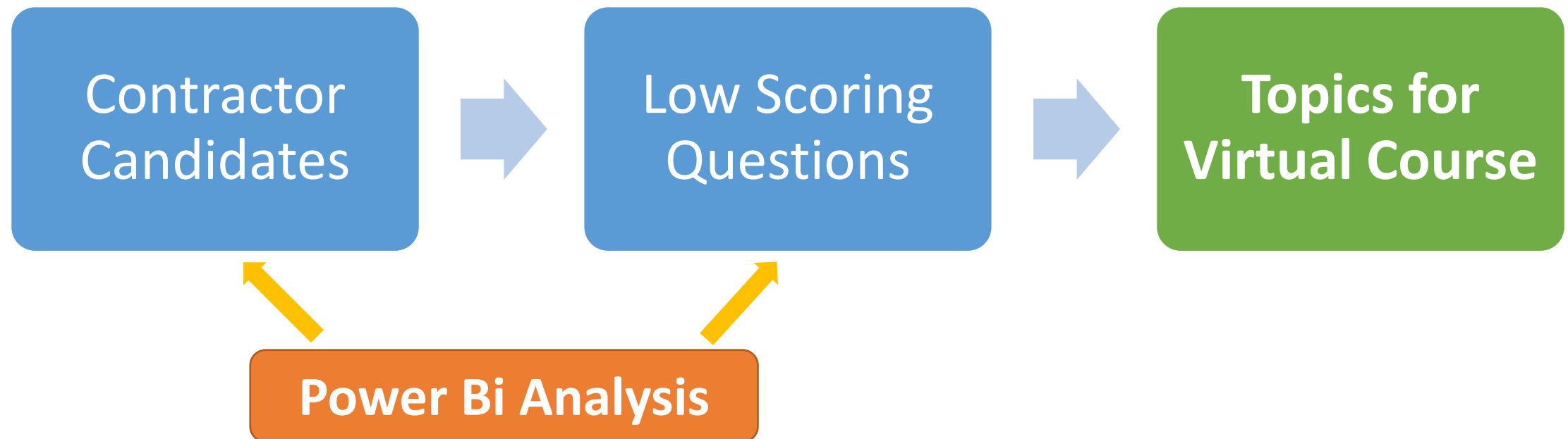
Using Training Analytics

## Virtual Contractor Training Pilot

- ❑ **Who:** Field personnel of 4 selected contractors
- ❑ **What:** A focused, 1-hour training for field personnel
  - *Construction Site Storm Water Compliance (BMPs)*
- ❑ **Where:** Virtually / MS Teams
- ❑ **When:** October 2020
- ❑ **Why:** Pilot a course for selected contractors to evaluate this mode of training;  
Attempt to measure learning and field compliance effect

## Using Training Analytics

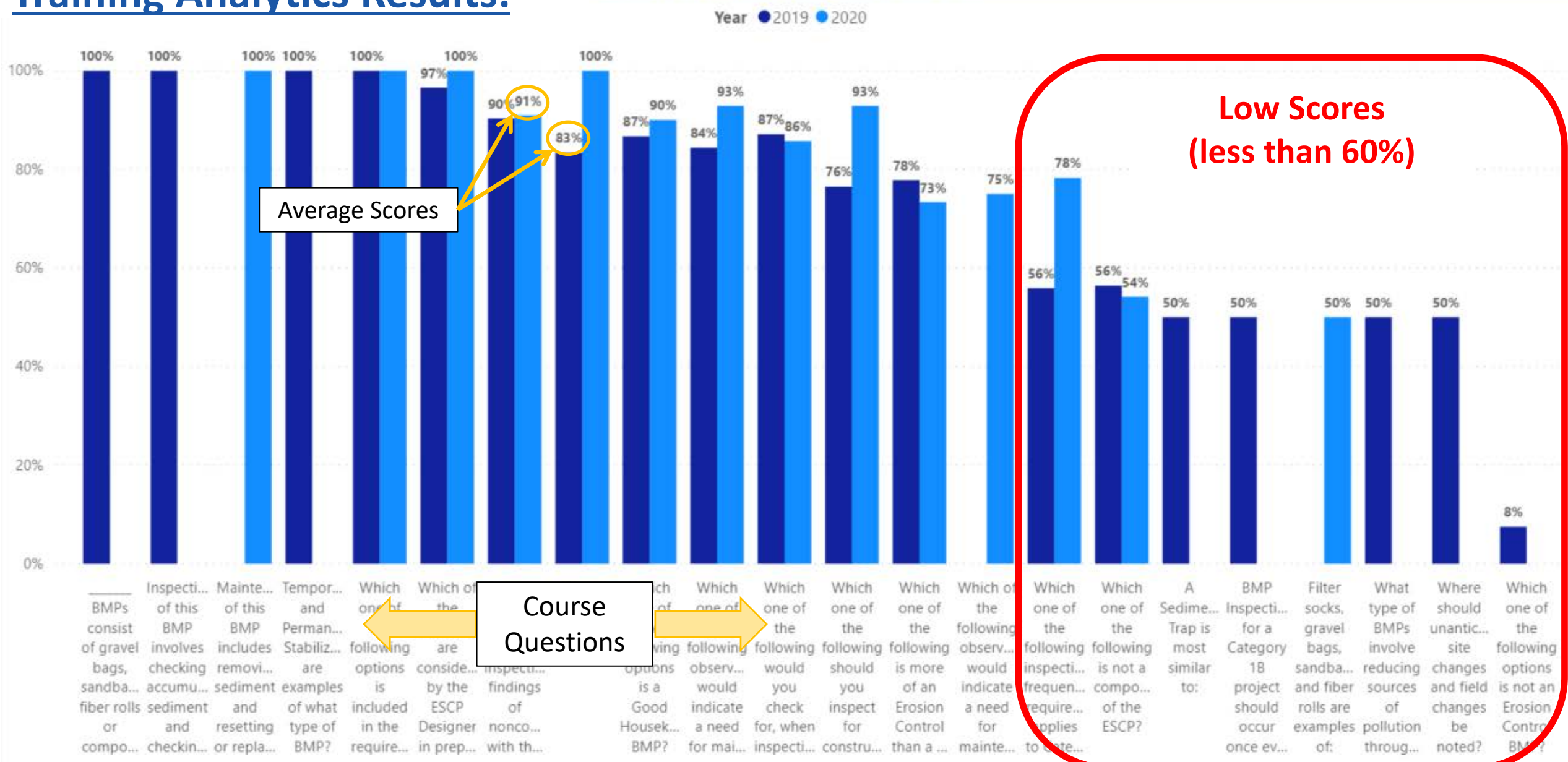
The **Erosion and Sediment Control Plan (ESCP) Coordinator Course** was used to assess:





# Training Analytics Results:

## Analysis of Scores by Quiz Question



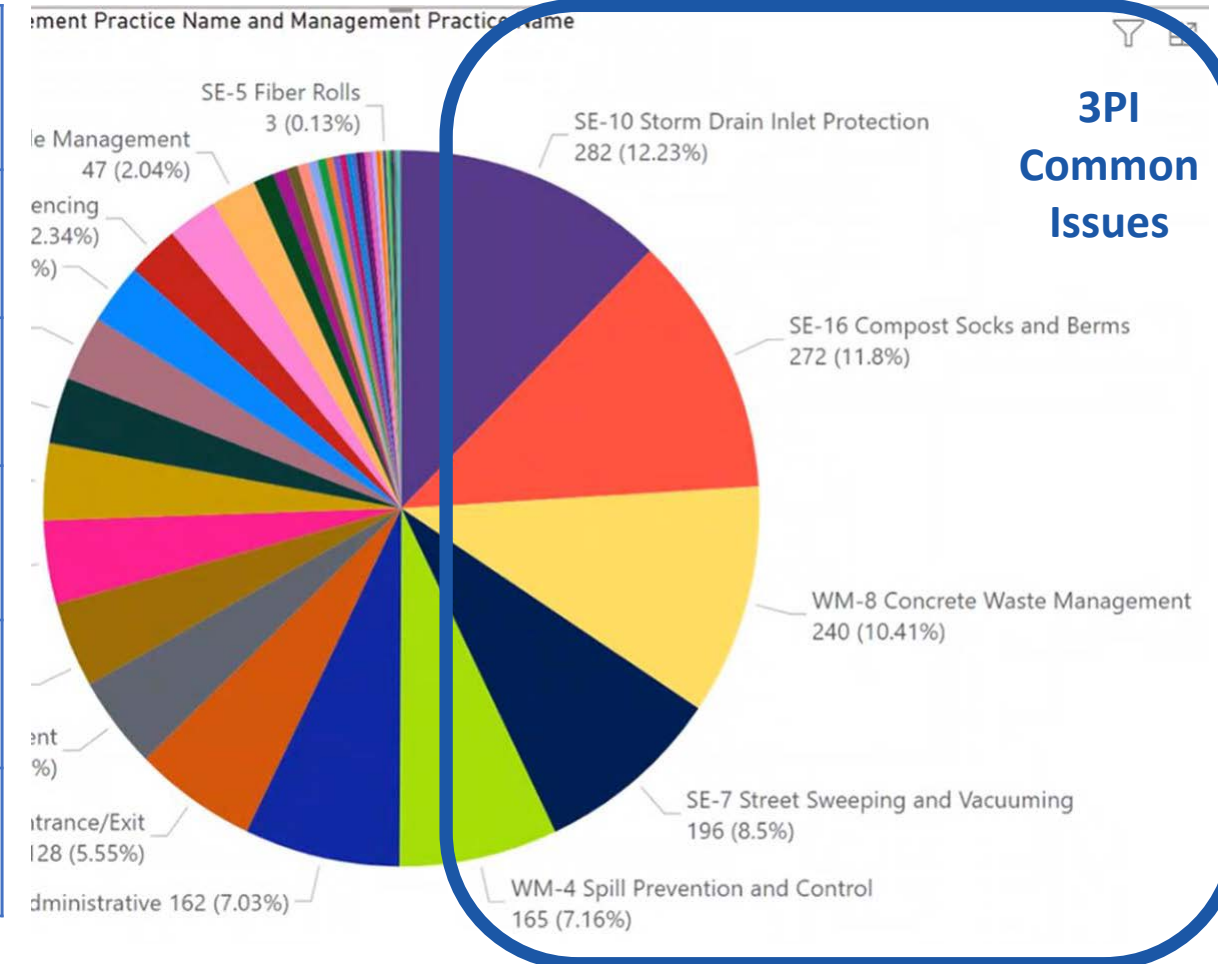
ESCP Coordinator Course Results for Selected Contractors

## Criteria / Low Scoring Questions

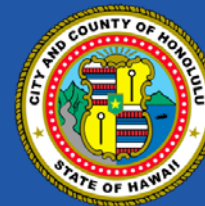
Criteria	Questions from ESCP Coordinator Course
→ Distinguishing between Erosion and Sediment Control BMPs	Which one of the following options is not an Erosion Control BMP?
→ Understanding BMPs used as sediment barriers	Filter socks, gravel bags, sandbags, and fiber rolls are examples of: A Sediment Trap is most similar to:
→ Recognizing pollution prevention and good housekeeping practices	What type of BMPs involve reducing sources of pollution through proper materials handling and site management procedures.
Documentation	Where should unanticipated site changes and field changes be noted? Which one of the following is not a component of the ESCP?
Frequency of inspections	BMP Inspections for a Category 1B project should occur once every: Which one of the following inspection frequency requirements applies to Category 3 projects?

## Criteria to 3PI Common Issues

Criteria (Analytics)	3PI Issues (Field Observations)
Distinguishing between Erosion and Sediment Control BMPs	Street Sweeping and Vacuuming
	Storm Drain Inlet Protection
Understanding BMPs used as sediment barriers	Compost Socks and Berms (Perimeter controls)
Recognizing pollution prevention and good housekeeping practices	Spill Prevention and Control
	Concrete Waste Management





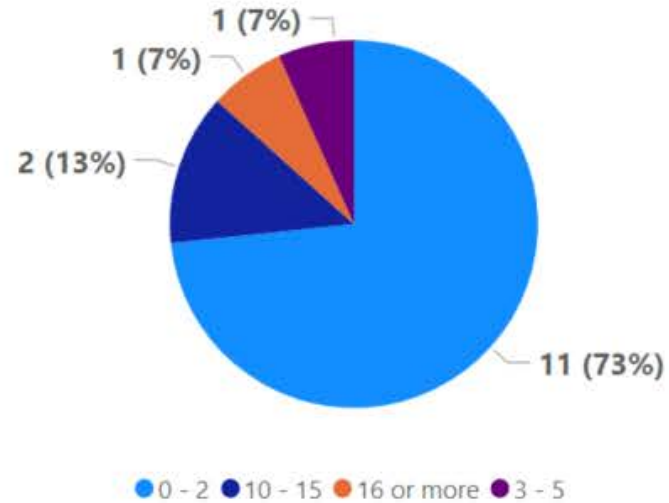


# Assessing Knowledge Before and After the Contractor Training

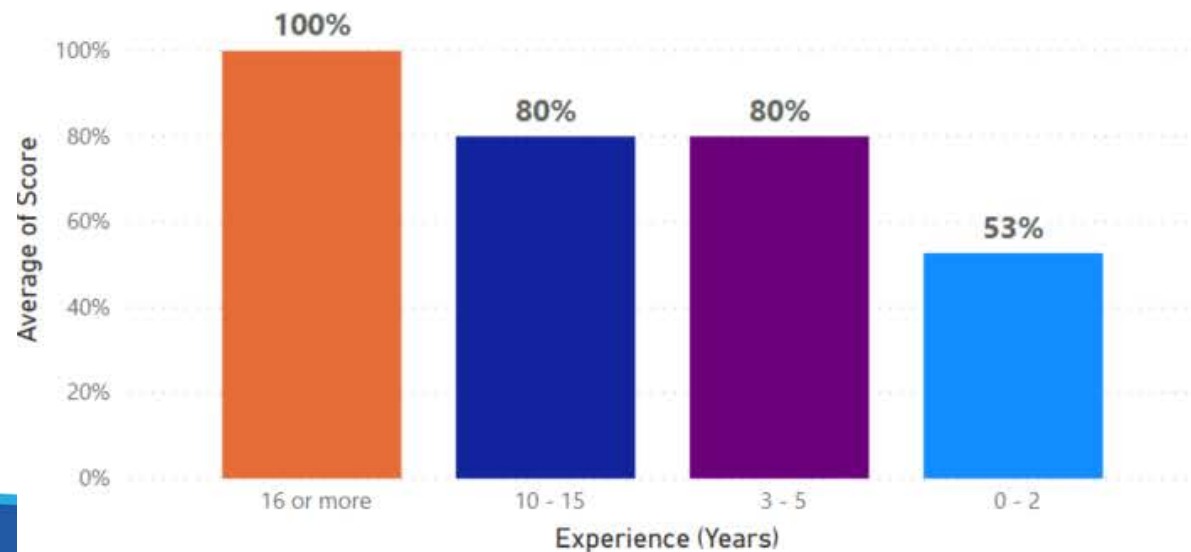
Pre- and Post-Surveys

## Pre-Survey

Breakdown by Experience

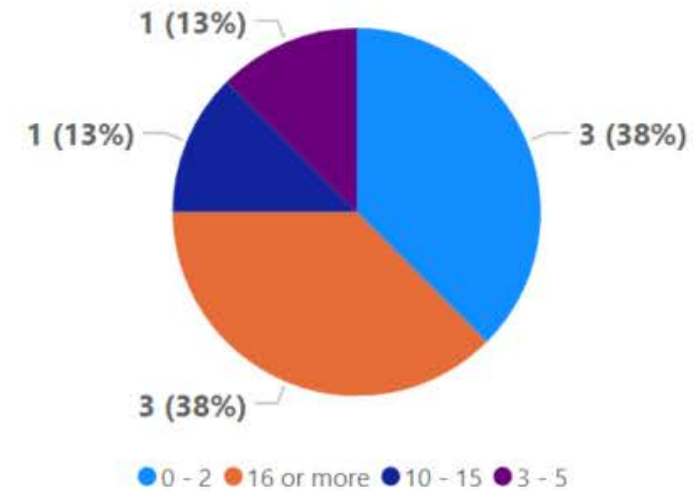


Average Score by Experience

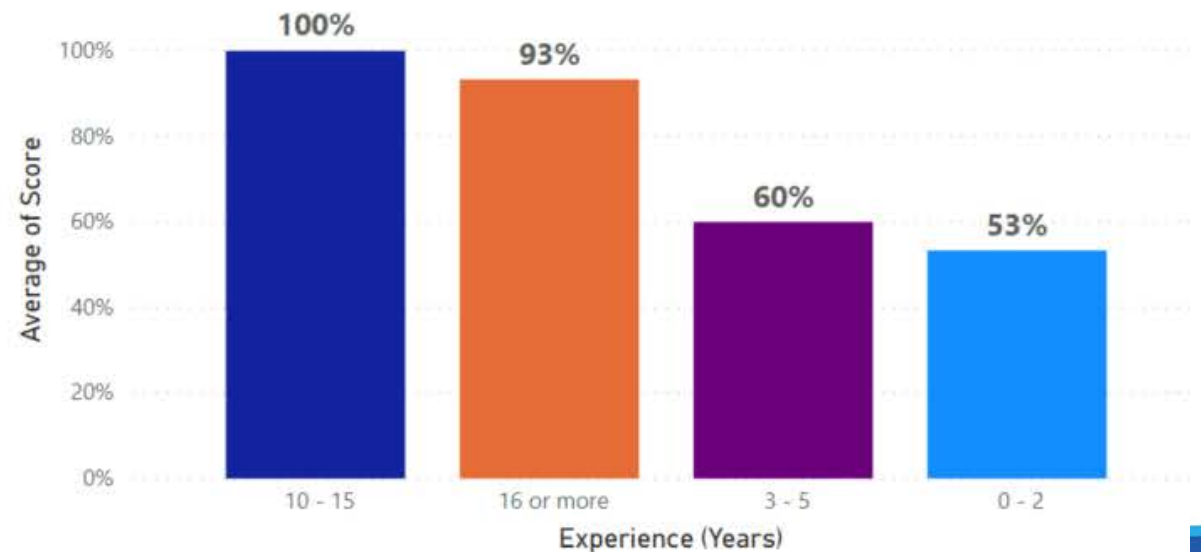


## Post-Survey

Breakdown by Experience

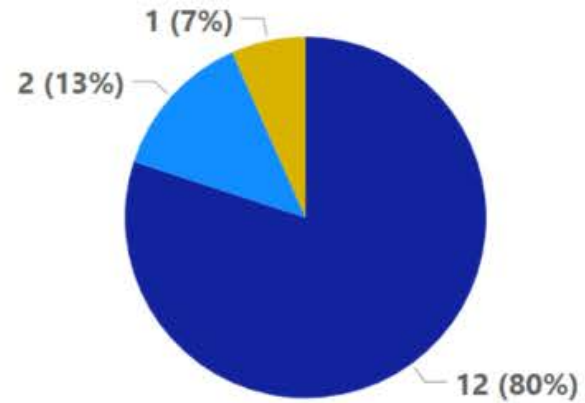


Average Score by Experience



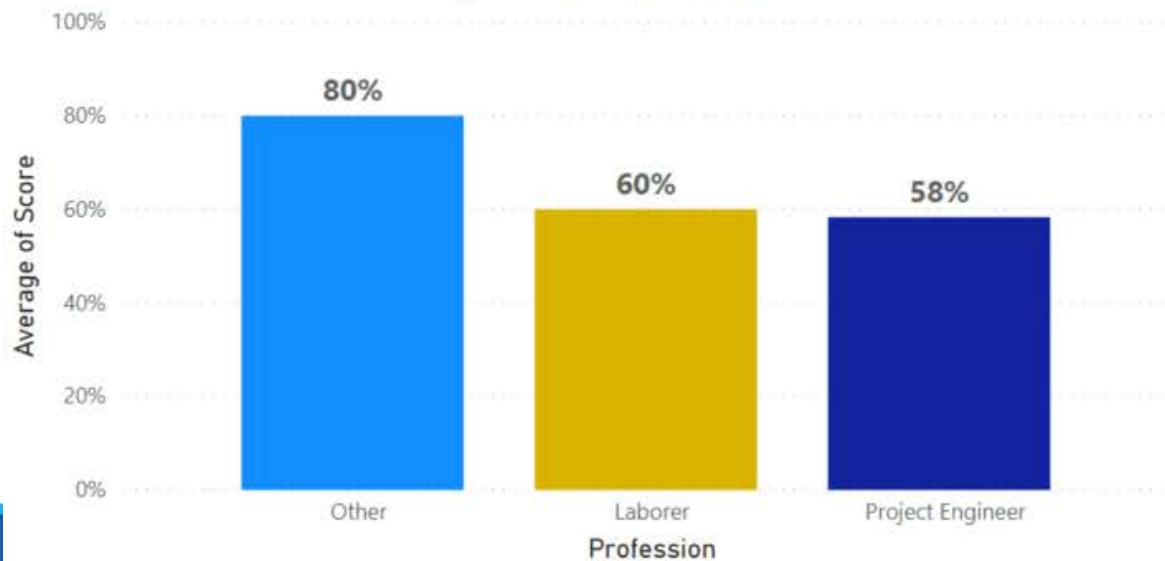
## Pre-Survey

Breakdown by Profession



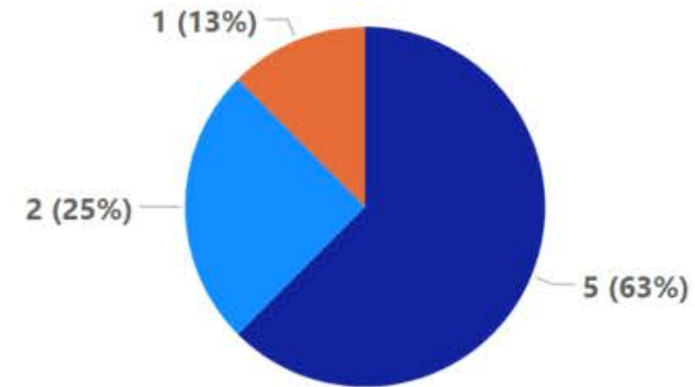
● Project Engineer ● Other ● Laborer

Average Score by Profession



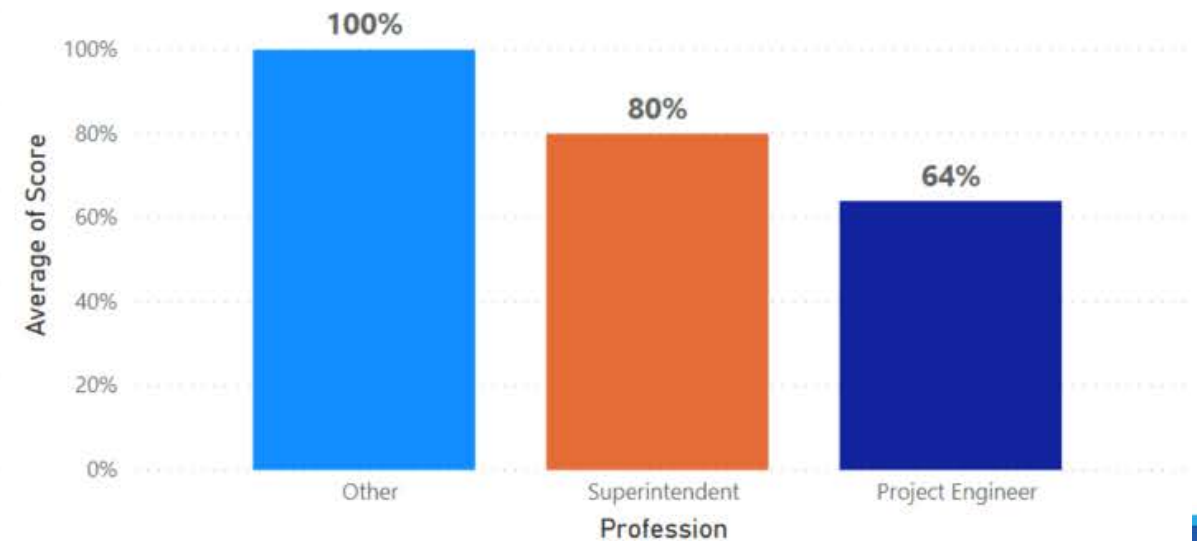
## Post-Survey

Breakdown by Profession



● Project Engineer ● Other ● Superintendent

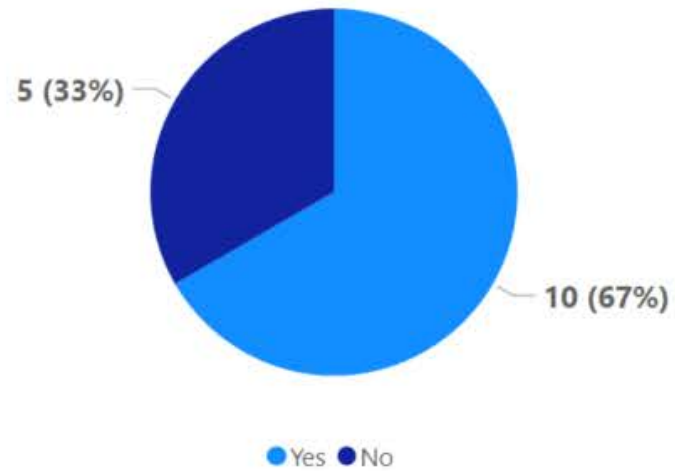
Average Score by Profession





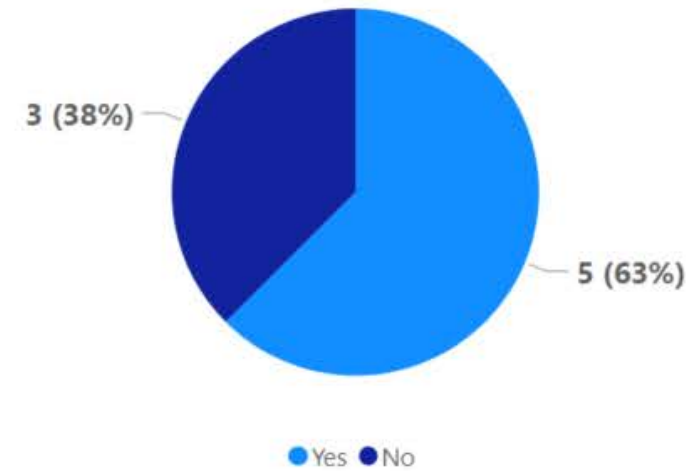
## Pre-Survey

Breakdown by ESCP Coordinator Status

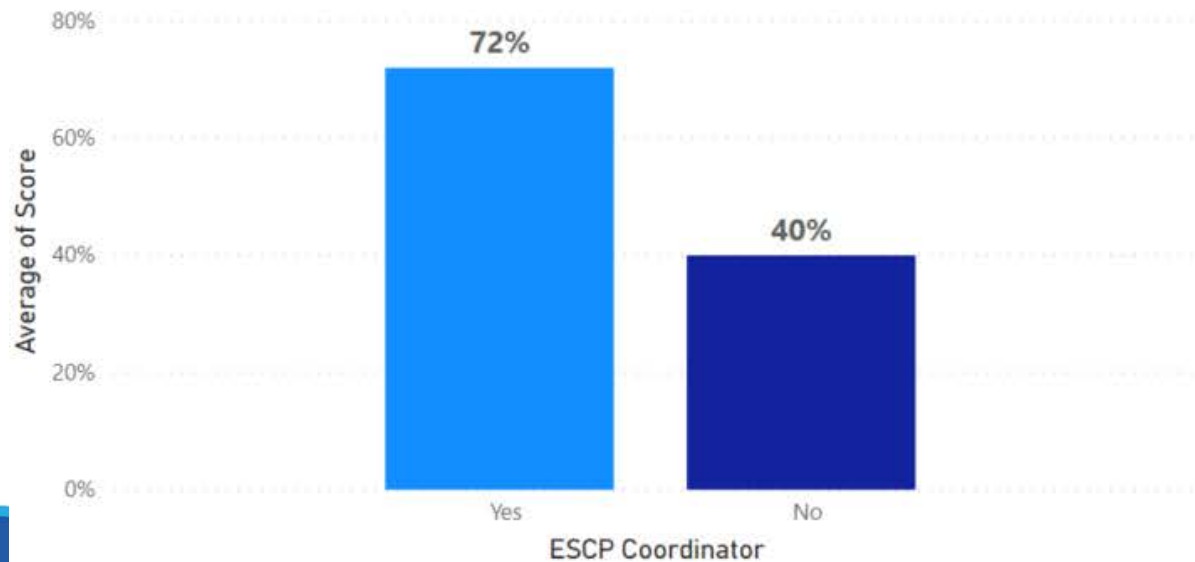


## Post-Survey

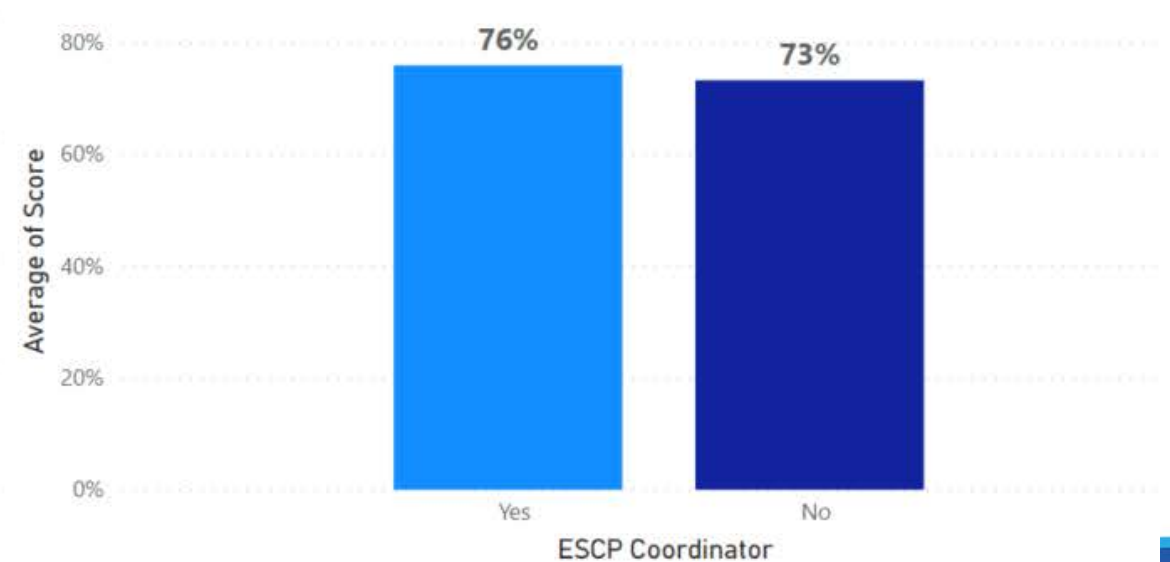
Breakdown by ESCP Coordinator Status



Average Score by ESCP Coordinator Status

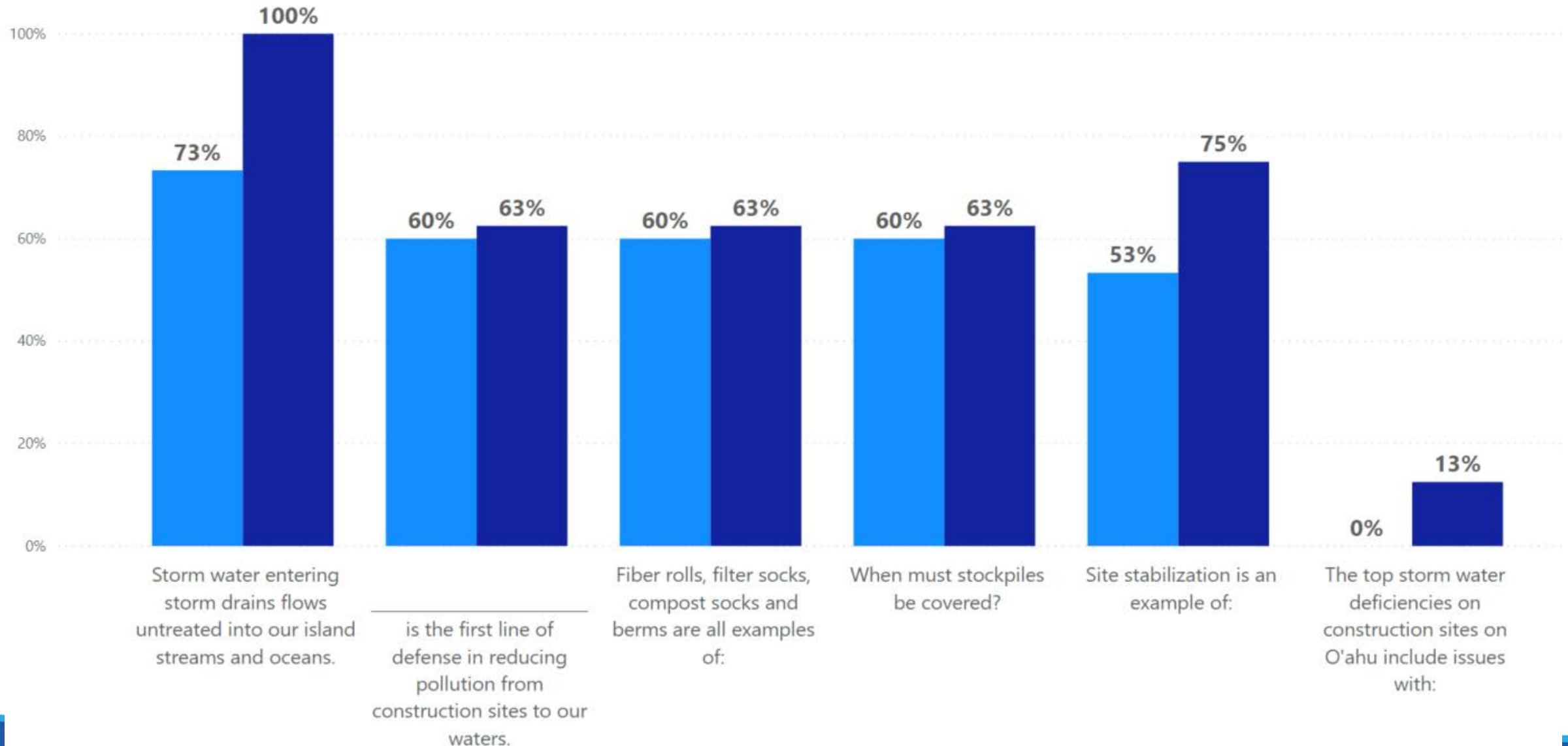


Average Score by ESCP Coordinator Status



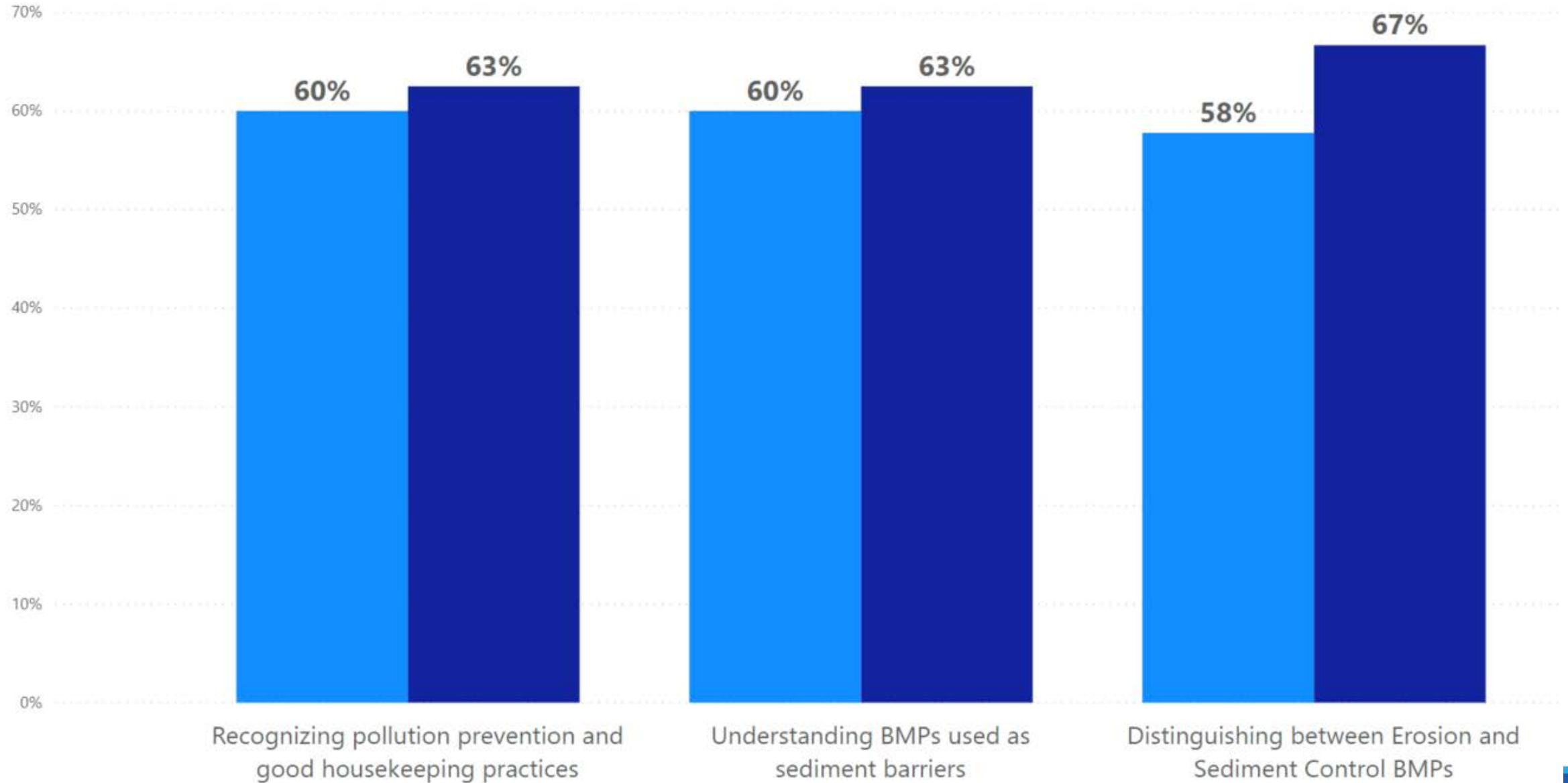
## Scores By Survey Question

● Pre-Survey ● Post-Survey



## Scores By Criteria

● Pre-Survey ● Post-Survey



**Question: You're on a deadline to complete an excavation today, and you expect the work will take the entire day. You're planning on adding to your soils stockpile. The weather forecast shows there will be intense storms at 1pm. No rain is forecast for tomorrow. What would you do?**

Option 1: Rush and try to complete the work this morning before the storm hits

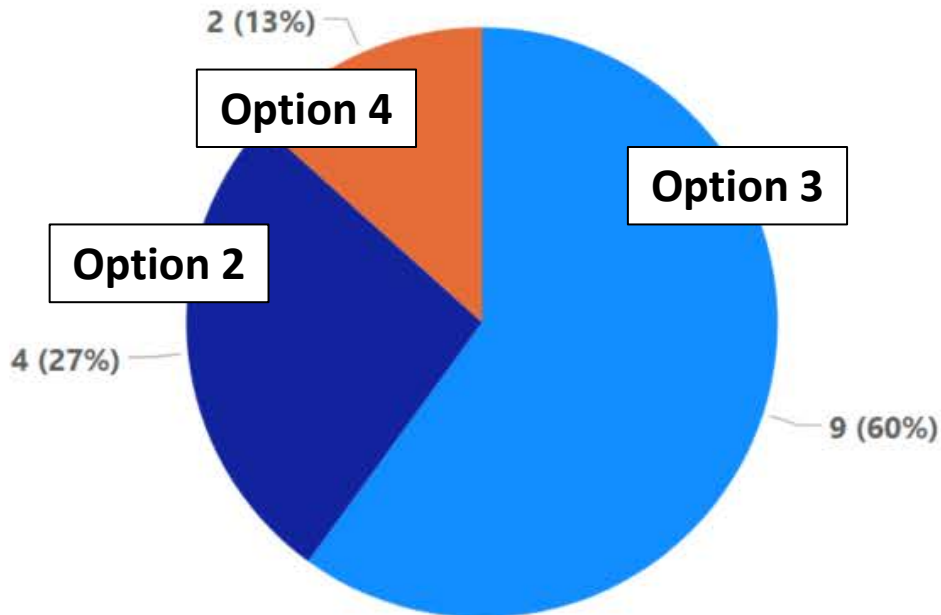
Option 2: Add extra BMPs and continue the work as planned throughout today

Option 3: Work until a reasonable time before the storm today, then cover the stockpile, and wait until conditions allow for completion of the work

Option 4: Ask for an extension of time to complete the work tomorrow, or after the site dries

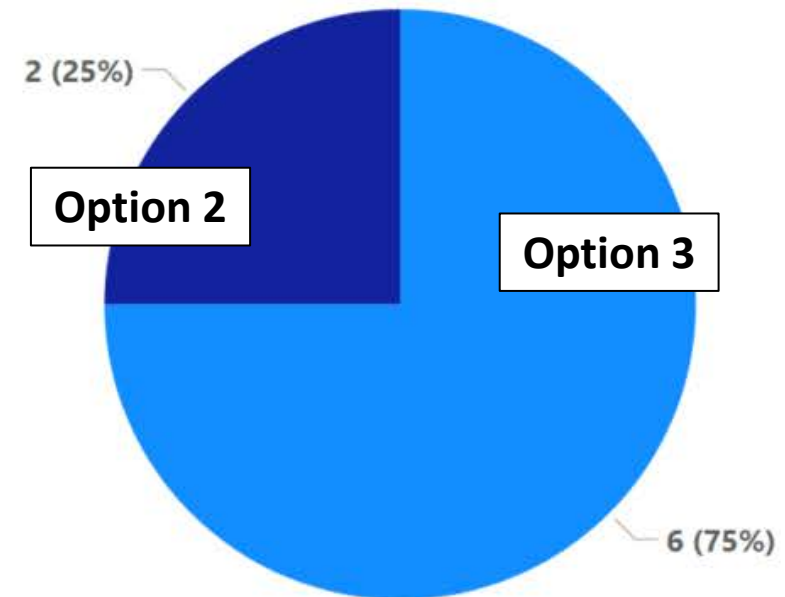
## Pre-Survey

● Work until a reasonable time before the s... ● Add extra BMPs and continu... ● Ask for an extension ...



## Post-Survey

● Work until a reasonable time before the storm today, then cov... ● Add extra BMPs and continue the ...





## Pre and Post Site Scoring: Virtual Contractor Training

Name	Program	# of Locations	Average Effectiveness
Contractor A	Construction	29	66.1% → 65.1
Contractor B	Construction	28	72.1% → 72.1
Contractor C	Construction	15	62.4% → 60.6
Contractor D	Construction	11	73.1% → 75.3

NOTE: Less than 1 month of data.

## Positive Outcomes from the Virtual Training

- ❑ Scores improved in the Post-Survey
- ❑ Responses to situational example improved
- ❑ Good turnout from contractor companies
- ❑ Positive feedback / Well-received
- ❑ Course was recorded and can be shared
- ❑ Offered a participation certificate





# Construction Inspection Process

## Third Party Inspections (3PI)

- ☐ Inspections of permitted sites
- ☐ Identify deficiencies at the site
- ☐ Problematic sites are referred to Department of Facility Maintenance – Storm Water Quality Division (DFM-SWQ)
- ☐ Determine jurisdiction and refer to proper agency if necessary

Deficient Concrete Waste - Photo 3



Concrete slurry appears to have entered an unprotected catch basin.

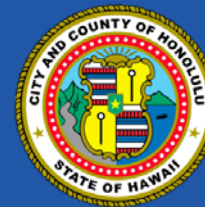


## City Inspector



- ☐ Permitted site or unpermitted site
- ☐ If any violations are identified, jurisdiction is determined and refer to proper agency if necessary
- ☐ Enforcement actions may be implemented immediately





# Regulatory Agencies

## Department of Planning & Permitting (DPP)

- ❑ Onsite
- ❑ ESCP & BMPs
  - BMP installations
  - BMP maintenance
  - Documentations
- ❑ Some enforcement tools:
  - Stop Work Order
  - Administrative Fines
  - Daily Fines





## Department of Facility Maintenance – Storm Water Quality Division (DFM-SWQ)

- ❑ Offsite
- ❑ Discharges
  - Any discharge entering the City's MS4
  - Concrete waste
  - Tracking
  - Pollutant runoff
- ❑ Types of enforcements
  - Letter of Warning
  - Notice of Violation
  - Notice of Order







# DFM-SWQ's Enforcement Process

# Enforcement Process & Policy

## ❑ ROH 14-12.23: Environmental Quality Control - Violation

## ❑ Notice Of Violation

- First violation
- Allows offender(s) to correct issue


## ❑ Notice Of Order

- Repeat offenders
- Fines

DEPARTMENT OF FACILITY MAINTENANCE  
CITY AND COUNTY OF HONOLULU  
1000 Ulukoua Street, Suite 215, Kapaeha, Hawaii 96707  
Phone: (808) 768-3343 • Fax: (808) 768-3381  
Website: www.honolulu.gov

KIRK CALDWELL  
MAYOR

ROSS S. SASAMURA, P.E.  
DIRECTOR AND CHIEF ENGINEER  
EDUARDO P. MANGILALLAN  
DEPUTY DIRECTOR  
IN REPLY REFER TO: \_\_\_\_\_



CERTIFIED MAIL  
RETURN RECEIPT REQUESTED  
70181830000160XXXXXX

**NOTICE OF VIOLATION AND ORDER**

NO.: SNOV 20-XXX

TO: Mr. John Doe  
1234 ABC Street  
City, Hawaii 96XXX

**FINDING OF VIOLATION**

On June 9, 2020, the Department of Facility Maintenance ("DFM") conducted an inspection of the real property described under Tax Map Key No. 1-1-XXX:XXX located at 456 XYZ Place, Honolulu, Hawaii ("Property"). Based on the foregoing investigation, DFM has determined that concrete sediment (pollutant) was discharged or caused to be discharged from the Property onto XYZ Place. XYZ Place is part of the City and County of Honolulu's ("City's") Municipal Separate Storm Sewer System ("MS4") that discharges into State waters at Manaiki (Moanalua) Stream.

The City's MS4 is the system for the conveyance of storm water including roads and streets with drainage systems, catch basins, curbs, gutters, ditches, man-made channels, or storm drains owned by the City.


Pollutant discharges to the City's MS4 is a violation of:

Section 14-12.23(a) of the Revised Ordinances of Honolulu, 1990, as amended ("ROH"), provides that it is unlawful for any person to discharge or cause to be discharged any pollutant into any drainage facility which causes a pollution problem in State waters, or causes a violation of any provision of the City NPDES permit or the water quality standards of the State of Hawaii.

DEPARTMENT OF FACILITY MAINTENANCE  
CITY AND COUNTY OF HONOLULU  
1000 Ulukoua Street, Suite 215, Kapaeha, Hawaii 96707  
Phone: (808) 768-3343 • Fax: (808) 768-3381  
Website: www.honolulu.gov

KIRK CALDWELL  
MAYOR

ROSS S. SASAMURA, P.E.  
DIRECTOR AND CHIEF ENGINEER  
EDUARDO P. MANGILALLAN  
DEPUTY DIRECTOR  
IN REPLY REFER TO: \_\_\_\_\_



CERTIFIED MAIL  
RETURN RECEIPT REQUESTED  
70181830000160XXXXXX

**NOTICE OF ORDER**

NO.: SNOO 20-XXX

TO: Mr. John Doe  
Construction Company, Inc.  
1234 ABC Street  
City, Hawaii 96XXX

Address of Violation: 456 XYZ Place  
Date of Violation: January XX, 2020

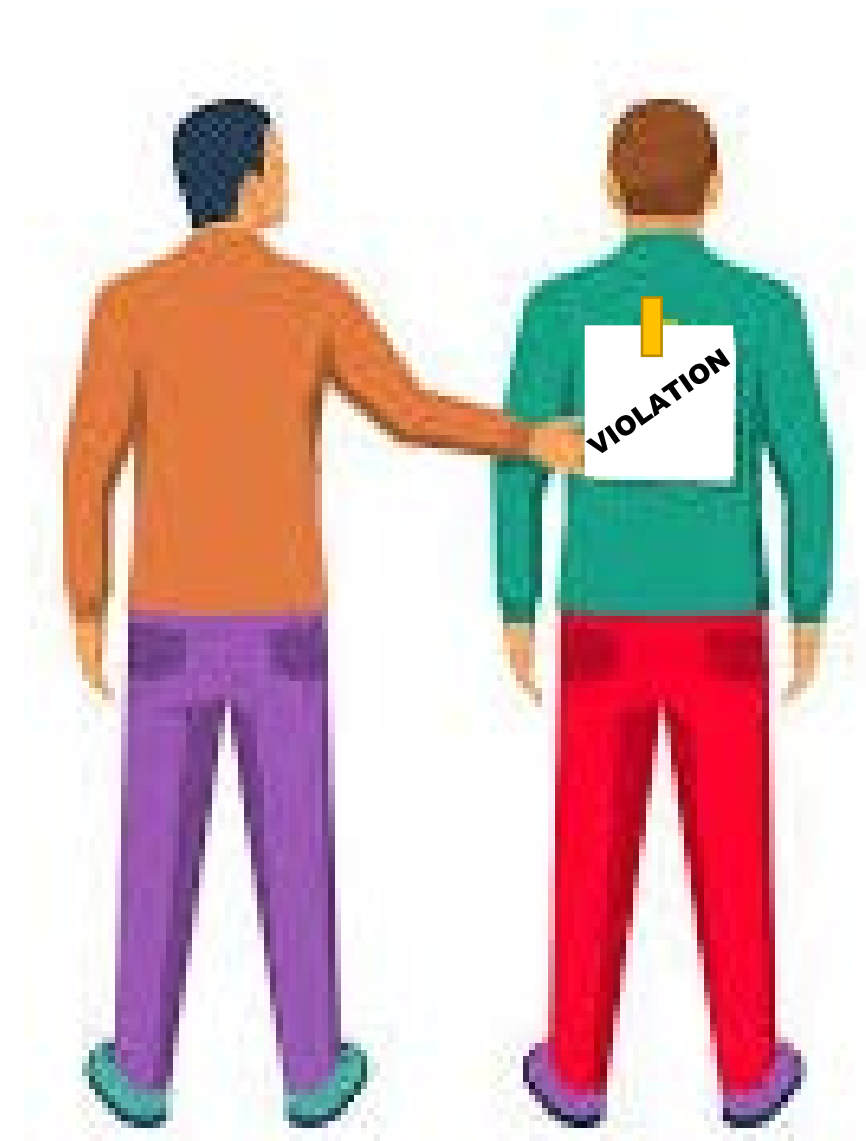
Pursuant to Section 14-12.24 of the Revised Ordinances of Honolulu, 1990, as amended ("ROH"), the DEPARTMENT OF FACILITY MAINTENANCE ("DFM"), STORM WATER QUALITY DIVISION ("SWQ"), CITY AND COUNTY OF HONOLULU ("City"), hereby issues Notice of Order ("NOO") No. SNOO 20-06 to the Haron Construction, Inc. for violating ROH § 14-12.23(a).

**AUTHORITY**

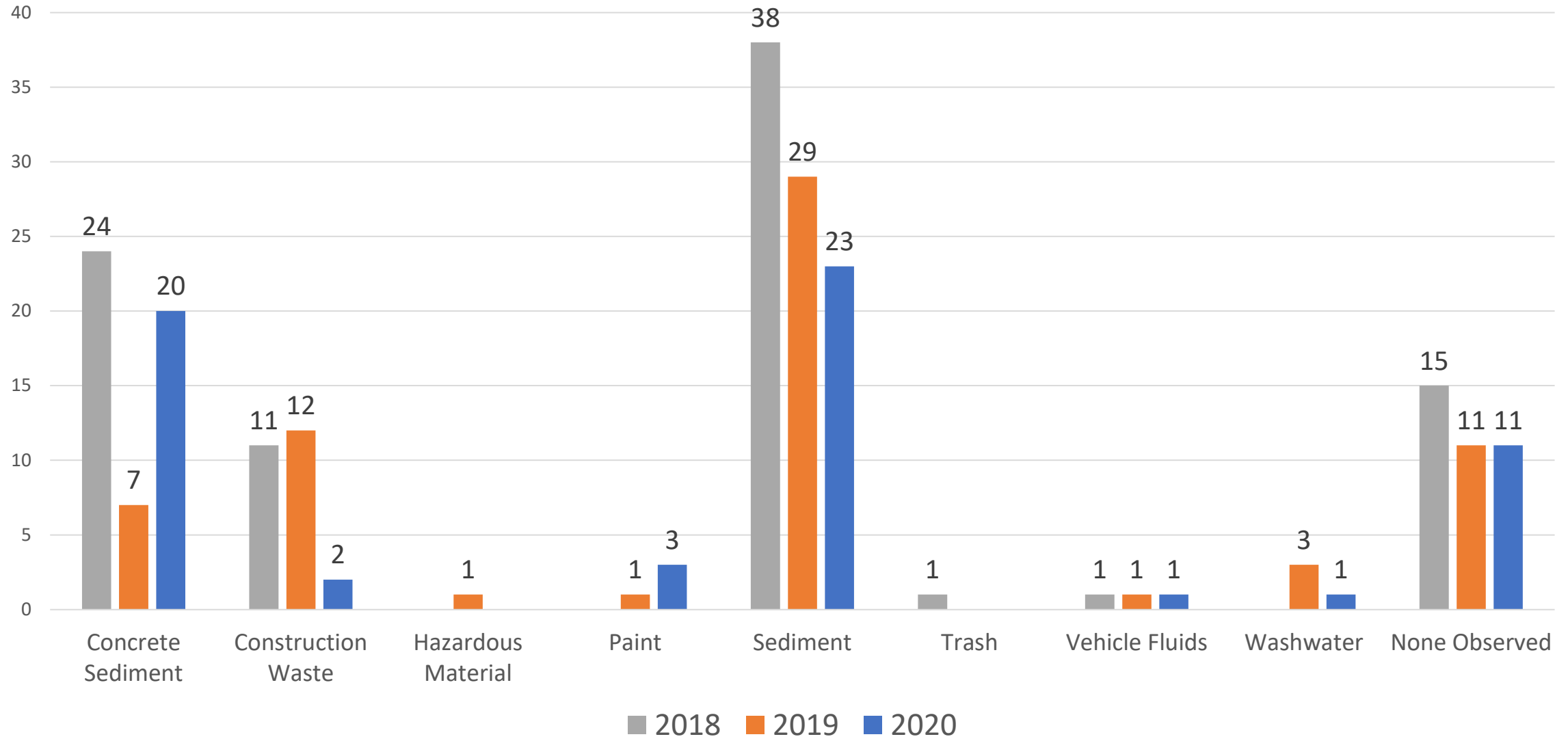
1. **General Authority.** The following NOO is issued under the authority vested in the Director and Chief Engineer of the DFM ("Director") pursuant to Chapter 14, Article 12 of the ROH. A copy of this NOO has been provided to the Department of Health ("DOH"), State of Hawaii.
2. **Enforcement.** Issuance of this NOO is authorized by ROH §§ 14-12.23, 14-12.24, 14-12.26, and 14-12.28 and City's Administrative Rules, Title 14, Department of Facility Maintenance, Chapter 6, Rules and Regulations Storm Water Quality (SWQ).

## Enforcement Process & Policy

- ❑ Issue violation to multiple people
  - Property Owner(s)
  - Property Manager
  - Business
  - Contractor
  - Subcontractor
- ❑ Violations stay with person and/or property
  - Property Hypothetical
  - Person or Business Hypothetical

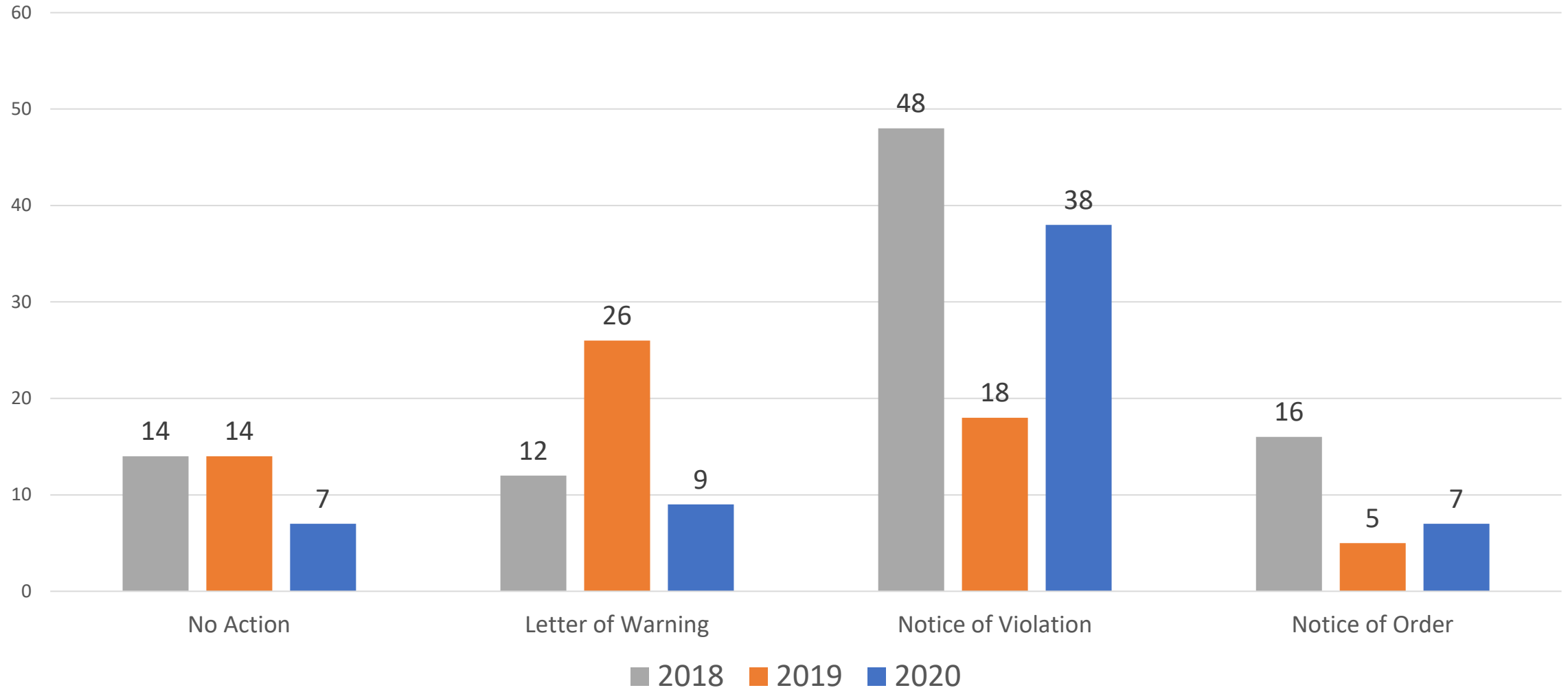


## Pollutant Types

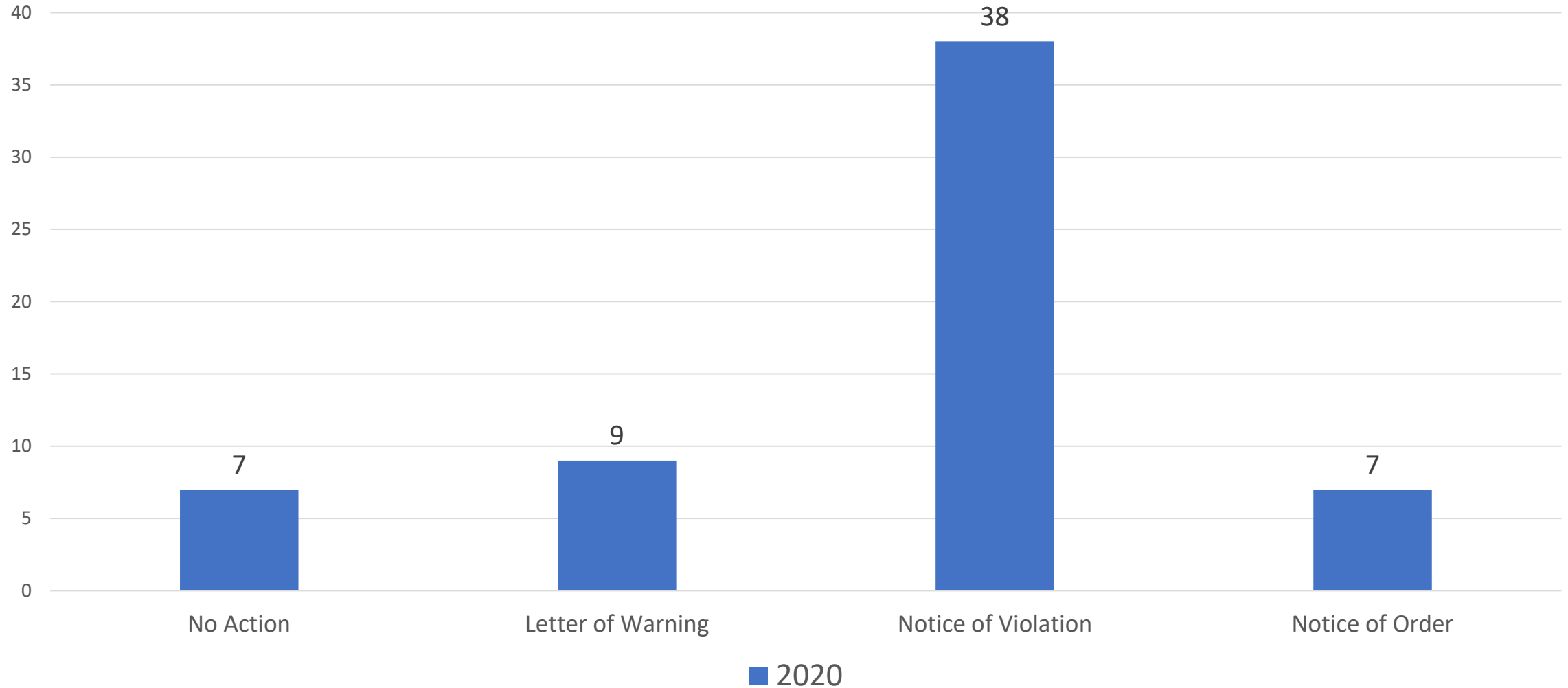


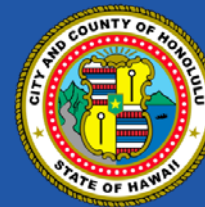


## Enforcement Actions



## 2020 Enforcement Actions





# Conclusion

# Conclusion



- ☐ Continue to analyze inspection data
- ☐ Increase training opportunities, if successful
- ☐ Adjust training strategies, if necessary
- ☐ If no change in data:
  - Re-evaluate training
  - Evaluate/adjust process to increase enforcement actions





# Resources

- Storm Water Quality Division Website:  
[www.cleanwaterhonolulu.com](http://www.cleanwaterhonolulu.com)

**BE AN EVERYDAY CLEAN WATER HERO**

## Storm Water Quality

- Facility Maintenance Home
- Storm Water Quality Division**
- About Us
- Rules Relating to Water Quality
- Learning Center
- Get Involved
- Calendar
- Photo Gallery
- Resource Library
- Media Library
- FAQ & Glossary
- Forms
- News & Public Notices
- Contact Us

Department of Facility Maintenance  
Ross S. Sasamura, P.E., Director and Chief Engineer  
Eduardo P. Manglallan, Deputy Director

**Construction Site Runoff**  
Learn more about good construction practices.

### Welcome

The quality of the water that enters the City's drainage system directly impacts the health of our island because these waters flow untreated to our natural waterways and ocean.

Storm Water Quality Division's (SWQ) mission is to empower and provide guidance on minimizing our impact on water quality in order to protect public health and the environment. SWQ works with City departments as well as public businesses, agencies, and individuals to foster shared responsibility for protection of our wai (water).

- Get involved
- Learning Center
- Calendar
- News
- Rules Relating to Water Quality



# Resources

## Learning Center:

<https://www.honolulu.gov/dfmswg/learningctr.html>

Facility Maintenance Home   **Keiki**   Teachers   Homeowner   Industry/Retail   Construction

Storm Water Quality Division

About Us

Rules Relating to Water Quality

**Learning Center**

Get Involved

Calendar

Photo Gallery

Resource Library

Media Library

FAQ & Glossary

Forms

News & Public Notices

Contact Us

Department of Facility Maintenance

Ross S. Sasamura, P.E., Director and Chief Engineer

Eduardo P. Mangallan, Deputy Director

1000 Uluohia Street, Suite 215  
Kapolei, Hawaii 96707  
Phone: (808) 768-3343  
Fax: (808) 768-3381



### Construction & Post Construction



The City's main priorities are educating industries on pollution prevention, advising them on practices and regulating to ensure compliance.

In accordance with the City's NPDES permit, the City regularly inspects construction and post construction. In addition, if a complaint is filed or there is a community concern, the City must inspect the site and if a business found discharging pollution or wastewater into the storm drain system may be issued citations to fines of up to \$25,000.

As a business in the State of Hawaii, you can reduce storm water pollution in work activities. Click on the categories for information and tips to keep our state beautiful:

#### General Information

- [Stormwater Overview Brochure](#)
- [Storm Water Management Program Plan](#)
- [City and County of Honolulu Storm Drain System](#)
- [Storm Water Issue](#)
- [City's Rules Relating to Water Quality](#)

#### Construction Industry

- Construction for Homeowners ([Tip Card 1](#) | [Tip Card 2](#) | [Chinese](#) | [Chukese](#) | [Ilocano](#) | [Korean](#))
- Construction of Walls ([Tip Card](#) | [Samoan](#) | [Tongan](#))
- Sediment ([English](#) | [Chinese](#) | [Chukese](#) | [Ilocano](#))
- Building Painting ([Tip Card](#))
- [BMPs for Construction Sites – Quick Reference Booklet](#)
- [BMP Manual for Construction](#)
- Free Construction Site Stormwater Compliance Training ([Training](#) | [Login Instructions](#))



### CITY AND COUNTY OF HONOLULU STORM WATER BEST MANAGEMENT PRACTICE MANUAL

#### CONSTRUCTION

##### FINAL

November 2011

By:  
City and County of Honolulu  
Department of Environmental Services  
Kapolei, Hawaii



### CONSTRUCTION FOR HOMEOWNERS



#### Be an Everyday Clean Water Hero

Be AWARE, take ACTION, report ACTIVITIES that adversely affect streams, drainage channels and the ocean.

##### BE AWARE:

Homeowners are responsible for all activity that occurs on their property, including construction projects. Citations and violations for improper management of potential pollutants, such as sediment, concrete residue, or construction debris can be given to both the property owner and the contractor, or just the property owner. When these pollutants get picked up by storm water they enter the drainage system and are deposited directly into streams and the ocean, where they can endanger coral reefs and aquatic plants by clouding the waters and blocking the sunlight needed to survive.

##### TAKE ACTION:

- Discuss with your contractor how they will prevent construction debris, concrete, and soil sediment from leaving your property.
- Sediment should not go into a neighboring property, into a stream, or onto the street.
- Have your contractor store all materials on your property.
- Do not stockpile materials on sidewalks and roadways. If the City right-of-way is necessary, a street usage permit is required. For more information about this permit, visit [www1.honolulu.gov/dts/usage/street.htm](http://www1.honolulu.gov/dts/usage/street.htm).
- Contain stockpiles using sediment barriers or tarp covers to prevent rain from eroding the stockpile and carrying away sediment.
- Make sure your contractor keeps work areas clean by sweeping up waste and debris daily, especially the roadway and sidewalks adjacent to your construction site.
- Store paint, solvents, and other chemicals in original containers under covered areas with containment to catch any leaks or spills.
- Encourage your contractor to recycle construction waste to minimize trash that goes to the landfills.

##### REPORT ACTIVITIES:

City's Environmental Concern Line at 768-3300 or visit [www.cleanwaterhonolulu.com](http://www.cleanwaterhonolulu.com)

4/2013



### CONSTRUCTION FOR HOMEOWNERS



#### Be an Everyday Clean Water Hero!

Be AWARE, take ACTION, report ACTIVITIES that adversely affect streams, drainage channels and the ocean.

##### BE AWARE:

Homeowners are responsible for all activity that occurs on their property, including construction projects. Citations and violations for improper management of potential pollutants, such as sediment, concrete residue, or construction debris can be given to both the property owner and the contractor, or just the property owner. When these pollutants get picked up by storm water they enter the drainage system and are deposited directly into streams and the ocean, where they can endanger coral reefs and aquatic plants by clouding the waters and blocking the sunlight needed to survive.

##### TAKE ACTION:

- Discuss with your contractor how they will prevent construction debris, concrete, and soil sediment from leaving your property.
- Sediment should not go into a neighboring property, into a stream, or onto the street.
- Have your contractor store all materials on your property.
- Do not stockpile materials on sidewalks and roadways. If the use of the City right-of-way is necessary, a street usage permit is required. For more information about this permit, visit [www1.honolulu.gov/dts/usage/street.htm](http://www1.honolulu.gov/dts/usage/street.htm).
- Contain stockpiles using sediment barriers or tarp covers to prevent rain from eroding the stockpile and carrying away sediment.
- Make sure your contractor keeps work areas clean by sweeping up waste and debris daily, especially the roadway and sidewalks adjacent to your construction site.
- Store paint, solvents, and other chemicals in original containers and under covered areas with containment to catch any leaks or spills.
- Encourage your contractor to recycle construction waste to minimize trash that goes to the landfills.

##### REPORT ACTIVITIES:

City's Environmental Concern Line at 768-3300 or visit [www.cleanwaterhonolulu.com](http://www.cleanwaterhonolulu.com)

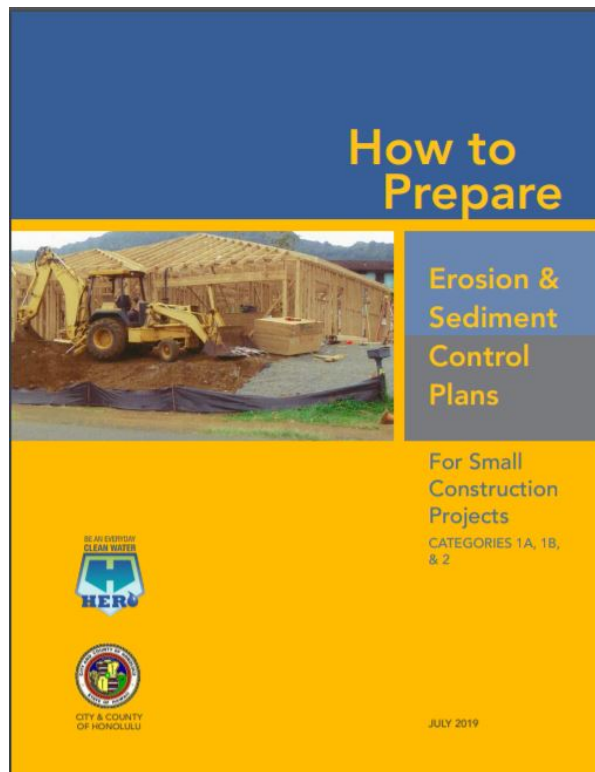
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# Resources

## ❑ Rules Relating to Water Quality:

<https://www.honolulu.gov/dfmswq/rules-relating-to-water-quality.html>



**How to Prepare**

**Erosion & Sediment Control Plans**

For Small Construction Projects  
CATEGORIES 1A, 1B, & 2

BE AN ENVIRONMENTAL CLEAN WATER HERO

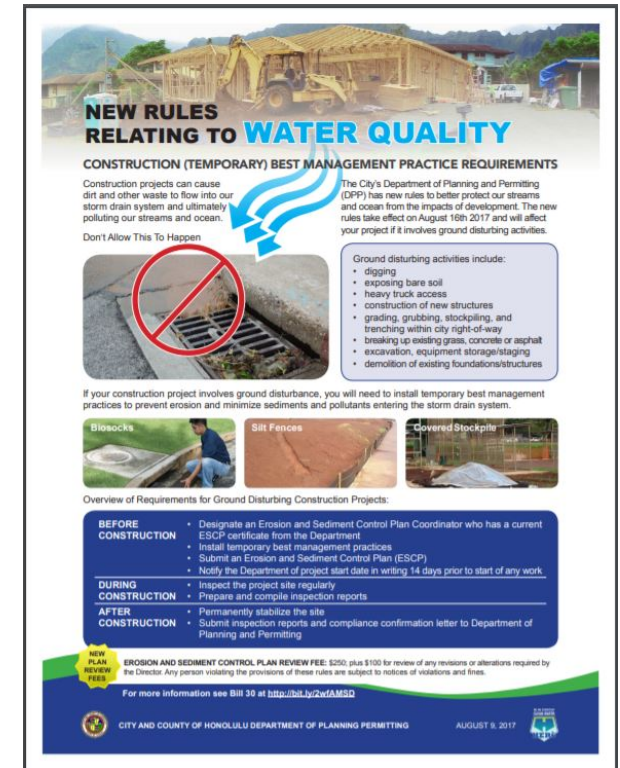
CITY & COUNTY OF HONOLULU

JULY 2019



CLICK HERE

**ESCP Coordinator training**



**NEW RULES RELATING TO WATER QUALITY**

**CONSTRUCTION (TEMPORARY) BEST MANAGEMENT PRACTICE REQUIREMENTS**

Construction projects can cause dirt and other waste to flow into our storm drain system and ultimately polluting our streams and ocean.

Don't Allow This To Happen

Ground disturbing activities include:

- digging
- exposing bare soil
- heavy truck access
- construction of new structures
- grading, grubbing, stockpiling, and trenching within city right-of-way
- breaking up existing grass, concrete or asphalt
- excavation, equipment storage/staging
- demolition of existing foundations/structures

If your construction project involves ground disturbance, you will need to install temporary best management practices to prevent erosion and minimize sediments and pollutants entering the storm drain system.

Overview of Requirements for Ground Disturbing Construction Projects:

BEFORE CONSTRUCTION	DURING CONSTRUCTION	AFTER CONSTRUCTION
<ul style="list-style-type: none"><li>• Designate an Erosion and Sediment Control Plan Coordinator who has a current ESCP certificate from the Department</li><li>• Install temporary best management practices</li><li>• Submit an Erosion and Sediment Control Plan (ESCP)</li><li>• Notify the Department of project start date in writing 14 days prior to start of any work</li></ul>	<ul style="list-style-type: none"><li>• Inspect the project site regularly</li><li>• Prepare and complete inspection reports</li></ul>	<ul style="list-style-type: none"><li>• Permanently stabilize the site</li><li>• Submit inspection reports and compliance confirmation letter to Department of Planning and Permitting</li></ul>

**NEW PLAN REVIEW FEES**

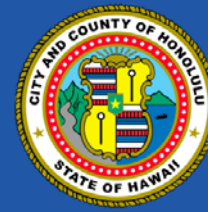
EROSION AND SEDIMENT CONTROL PLAN REVIEW FEE: \$250; plus \$100 for review of any revisions or alterations required by the Director. Any person violating the provisions of these rules are subject to notices of violations and fines.

For more information see Bill 30 at <http://bit.ly/2wAM5Q>

CITY AND COUNTY OF HONOLULU DEPARTMENT OF PLANNING PERMITTING

AUGUST 9, 2017





# Questions?