

# Is Your Construction Site In Compliance?

## Find Out How the RI DEM Measures Success



RI Department of Environmental Management  
Office of Water Resources



# Topics of Discussion



- Why Is My Site Being Inspected?
- Remembering the Goal
- Know Who is Responsible For Compliance
- Understand Your Permit Requirements



# Why Is My Site Being Inspected?



- All RIPDES Permitted Facilities are Subject to Inspection
  - Section 308 of the Clean Water Act provides the RI DEM with this authority
  
- Compliance Evaluation Inspections Are:
  - Generally Random
  - May Be Targeted Due to a Complaint Received by the RI DEM
  - Generally Unannounced – Be Prepared, Not Surprised!
  
- Purpose: **To Evaluate and Enforce Compliance**



# Remembering the Goal

- Your Permit Requires You To Protect Resources During Construction and/or Land Development Activities

Protect Waterways, Streams, Wetlands



Protect Adjacent Property



Protect Roadways



Protect Storm Drains





# Know Who Is Responsible For Compliance



- **The Site Owner** – Legal property owner as defined in RIPDES Construction General Permit.
- **The Site Operator** – Entity in operational control over plans and activities occurring at the construction site.



# Understand Your Permit Requirements

## Control Erosion, Runoff, and Sediment

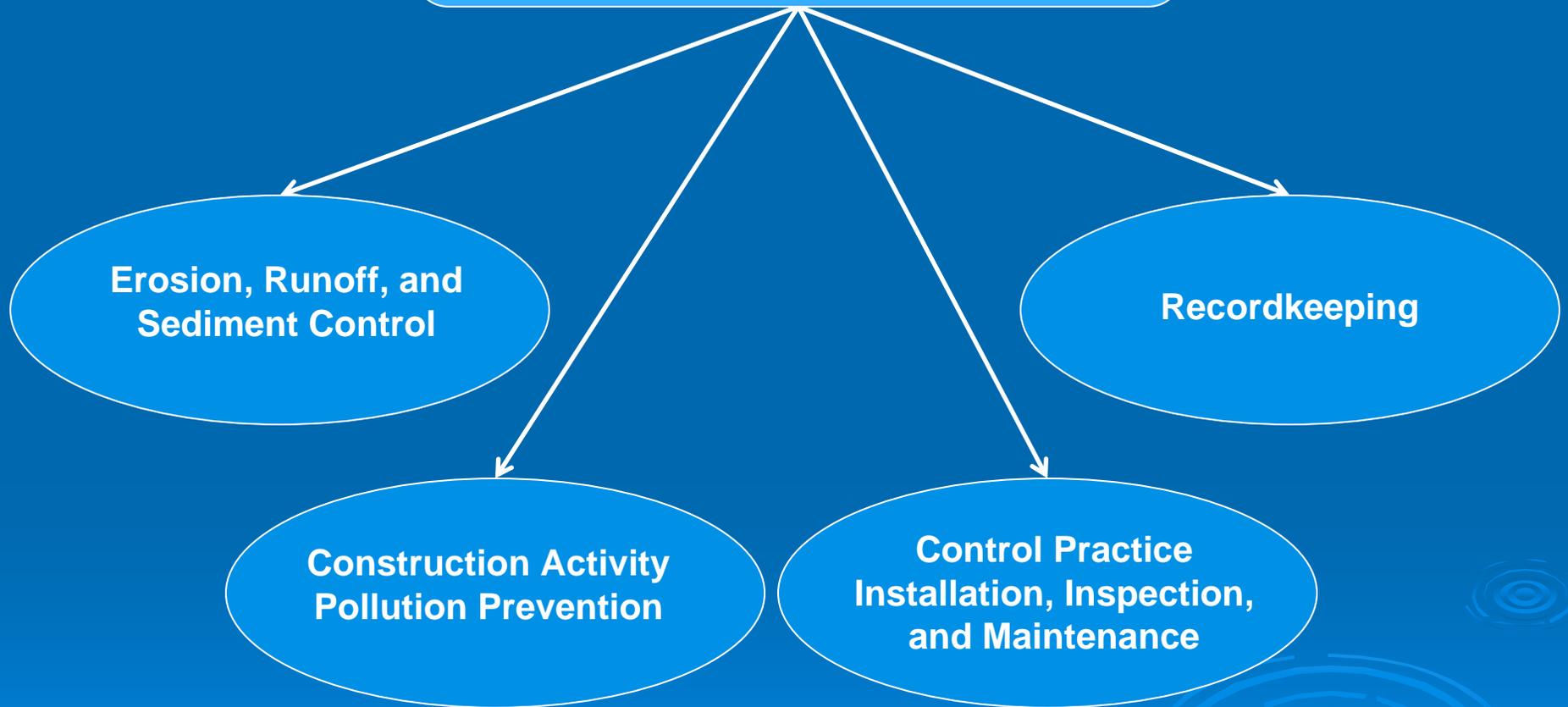


## Prevent Pollution Associated with Construction Activities





# Soil Erosion and Sediment Control Plan





# Erosion, Runoff, and Sediment Control





# Stabilize Disturbed Soils



When Earth Disturbance Activities Have Ceased For More Than 14 days, Initiate Temporary or Permanent Soil Stabilization Measures.

**Vegetative Measures**



**Structural Measures**





## Control Stormwater Flowing Onto and Through Project



Diversions



Pipe Slope Drains



## Utilize Temporary Sediment Trapping and Temporary Stormwater Conveyance Practices



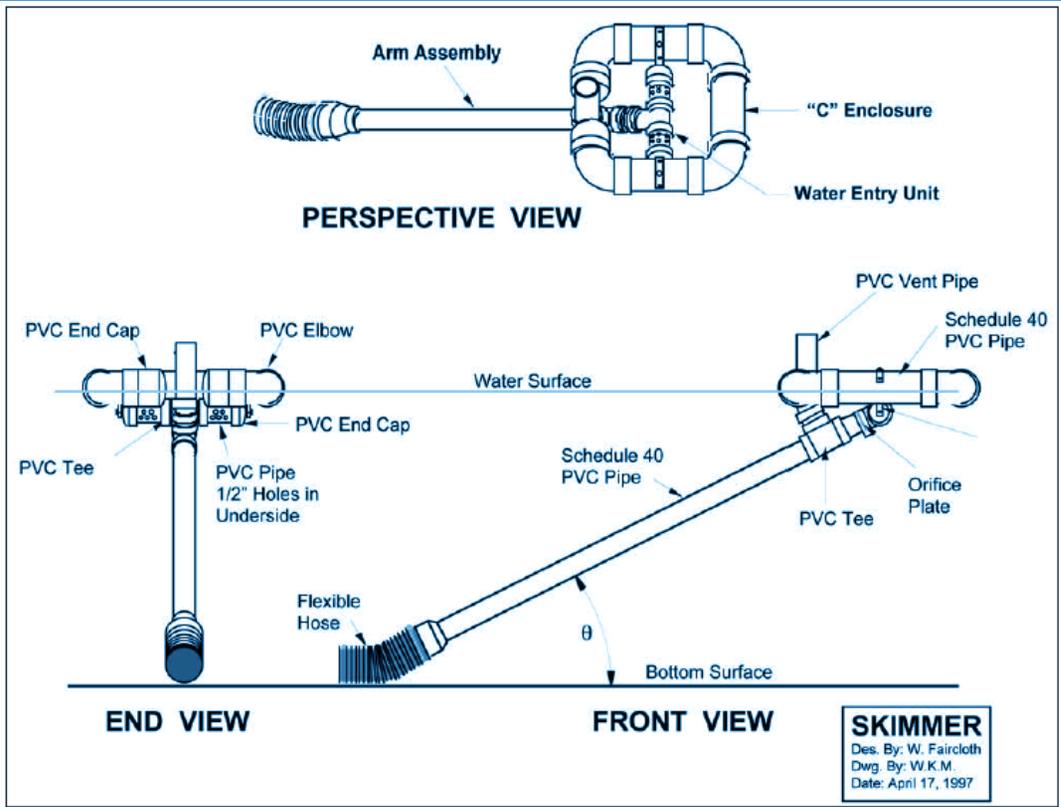
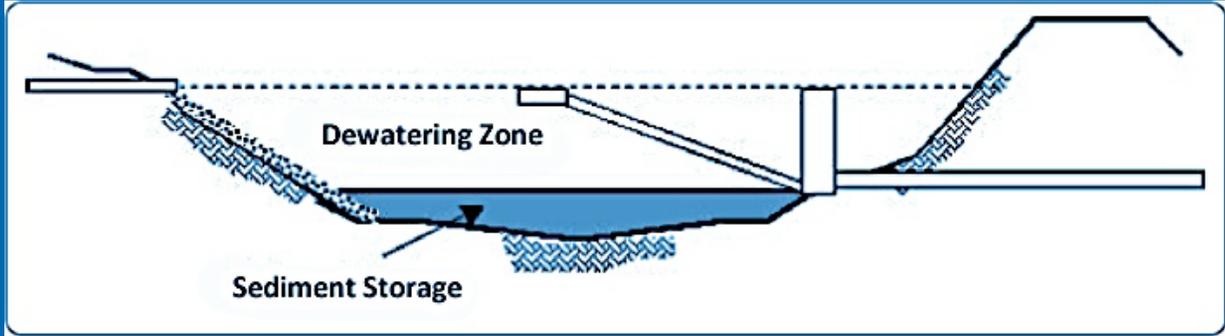


# Utilize Surface Outlets When Discharging From Temporary Sediment Basins





# Utilize Surface Outlets When Discharging From Temporary Sediment Basins





# Protect Storm Drain Inlets





# Protect Storm Drain Outlets



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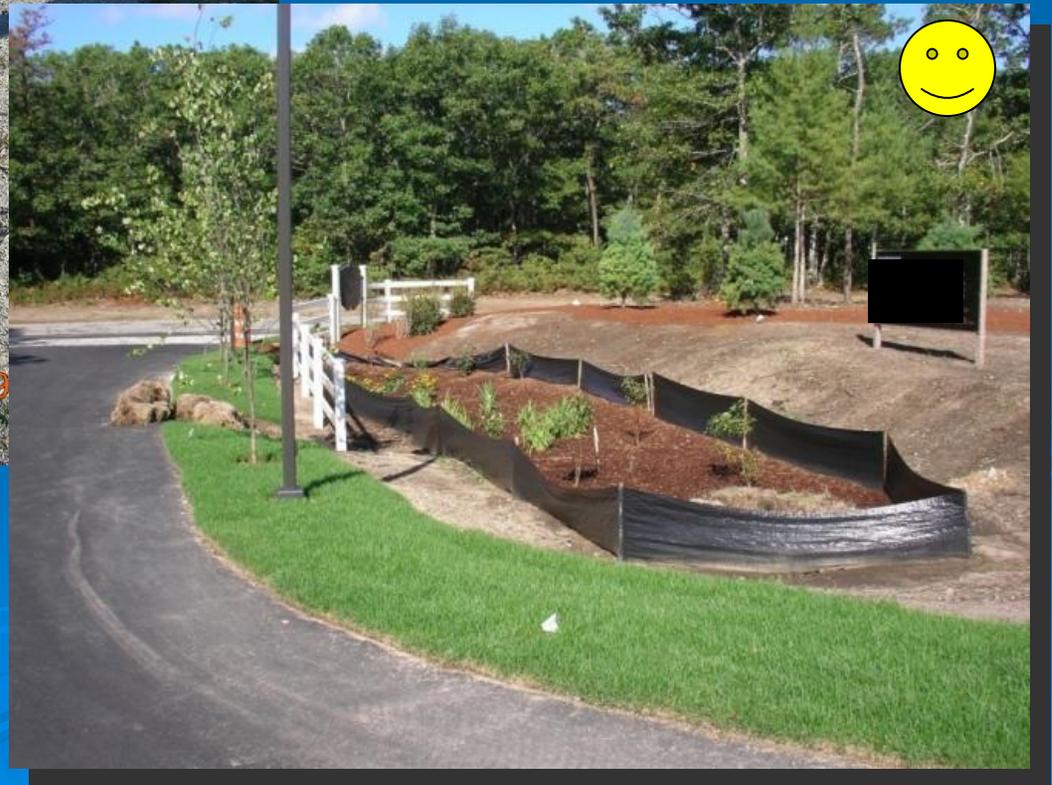


# Establish Perimeter Controls and Sediment Barriers





## Establish Temporary Controls For the Protection of Post Construction Stormwater Practices





## Properly Manage Chemicals Used for Erosion and Sediment Control



- When Utilizing Polymers, Flocculants, and Treatment Chemicals Use:
  - Good Engineering Judgment
  - Proposed RI Soil Erosion and Sediment Control Handbook
  
- Example BMPs:
  - Avoid applying directly to surface waters
  - Use conventional erosion and sediment controls adequately first
  - Select appropriate treatment chemicals by conducting site specific soil tests
  - Properly store chemicals to avoid spills and unnecessary exposure to stormwater
  - Consider Toxicity (ex. Anionic Polymers Are Generally Less Toxic to Fish)



# Construction Activity Pollution Prevention





## Prohibited Discharges

**HAZARDOUS WASTE**

STATE AND FEDERAL LAW PROHIBITS IMPROPER DISPOSAL.  
IF FOUND, CONTACT THE NEAREST POLICE, OR PUBLIC SAFETY AUTHORITY OR THE U.S. ENVIRONMENTAL PROTECTION AGENCY OR THE CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL.

**GENERATOR INFORMATION:**  
NAME \_\_\_\_\_ PHONE \_\_\_\_\_  
ADDRESS \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_  
CITY \_\_\_\_\_  
EPA ID \_\_\_\_\_ MANIFEST NO. \_\_\_\_\_  
NO. \_\_\_\_\_ TRACKING NO. \_\_\_\_\_  
SRA WASTE NO. \_\_\_\_\_ CA WASTE NO. \_\_\_\_\_ ACCUMULATOR START DATE \_\_\_\_\_  
CONTENTS, COMPOSITION: \_\_\_\_\_

**PHYSICAL STATE:**  SOLID  LIQUID  GASEOUS  
**HAZARDOUS PROPERTIES:**  FLAMMABLE  TOXIC  
 CORROSIVE  REACTIVE  OTHER \_\_\_\_\_

DOT PROPER SHIPPING NAME AND UN OR NAHS WITH PREP#

**HANDLE WITH CARE!**

### Fuels, Oils, Soaps, Solvents



Good Chemical Storage

### Contaminated Groundwater



### Concrete Washout





# Proper Waste Disposal





# Spill Prevention and Control





## Establish Proper Equipment and Vehicle Fueling and Maintenance Practices





# Designate Washout Areas





# Minimize Off-Site Tracking of Sediment

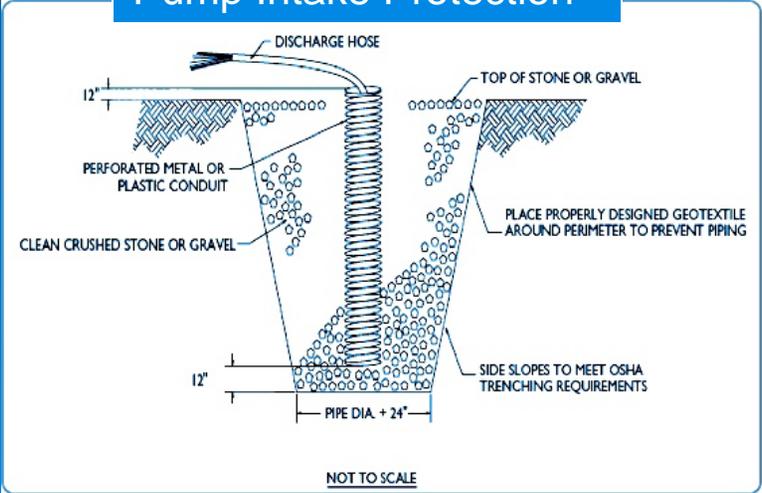




# Control Dewatering Practices



## Pump Intake Protection



## Pumping Settling Tank





## Control Discharges from Stockpiled Sediment or Soil





# Minimize Dust





## Control Measure Installation, Inspection, and Maintenance Requirements





## Control Measure Installation Requirements



- Complete Installation Prior to Beginning Each Phase of Earth Disturbance
  
- Install in Accordance With:
  - The RI Soil Erosion and Sediment Control Handbook
  
  - Manufacturer Specifications
  
  - Good Engineering Practices



## Control Measure Inspection Requirements



- Minimum Frequency
  - 1/Week and
  - After 0.25 Inches of Rain in 24 Hrs
  - During Frozen Conditions – 1/Month
  
- Inspections and Records of Corrective Actions
  - Must Be Signed and Dated by Inspector and Operator
  - Must Be Kept Onsite with SESC Plan
  
- Your Failure to Provide Documentation Of Inspections Constitutes a Permit Violation and Will Subject You to Enforcement



## Control Measure Maintenance Requirements



### ➤ Maintain in Accordance With:

- RI SESC Handbook
- Manufacturer Specifications
- When You Aren't Achieving the Goal

### ➤ Quick Fixes

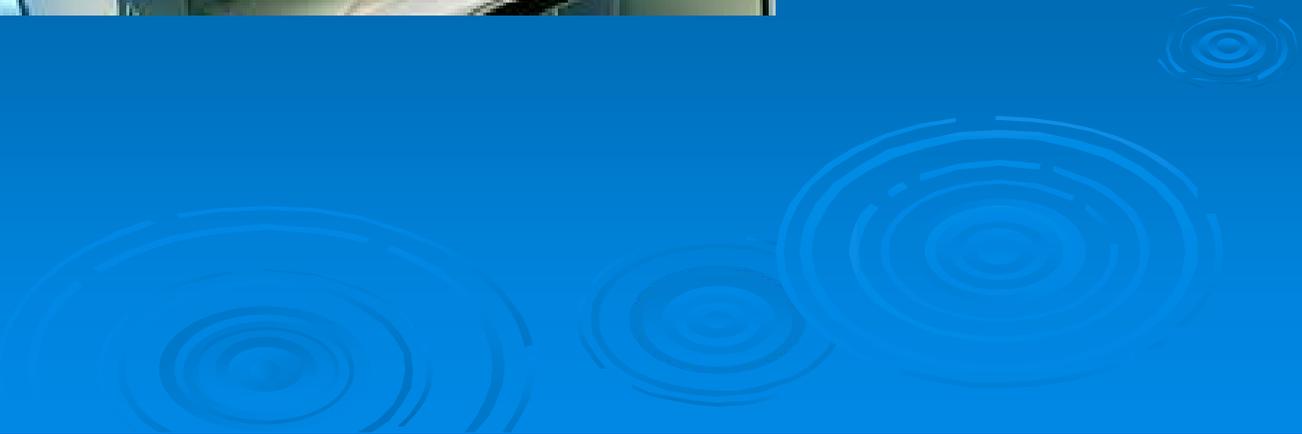
- Address Immediately Upon Discovery
- Complete By Close of Next Work Day

### ➤ Significant Repair or Replacement

- Make Repair or New Control Measure Operational Within 7 Days of Discovery



# Record Keeping





# Records Must Be Available Onsite



- Soil Erosion and Sediment Control (SESC) Plan
  - SESC Site Plans or Full Construction Plan Set
  - Record of SESC Plan Amendments
    - Amendments which involve practice of engineering must be PE Stamped.
  - Signed Records of Inspections, Maintenance, Corrective Actions
  - Copy of Permit Application and RI DEM Permit
- \* If onsite location is unavailable when no personnel are present on the site, notice of the Plan's location must be posted near the main entrance of the construction site.



# The Keys To Success

- **#1. Remember The Goal – Protect Resources**
  
- **#2 Let Your Soil Erosion and Sediment Control Plan Be Your Guide**
  - Keep It Onsite
  - Modify When Not Meeting #1
  
- **#3. Conduct and Document Inspections**
  
- **#4. Properly Install and Maintain All Control Measures**



## Who Do I Contact If I Have Questions?

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