

# Draper City Annual Stormwater Training

Purpose: To educate municipal employees on identifying, eliminating, and preventing illicit discharges.



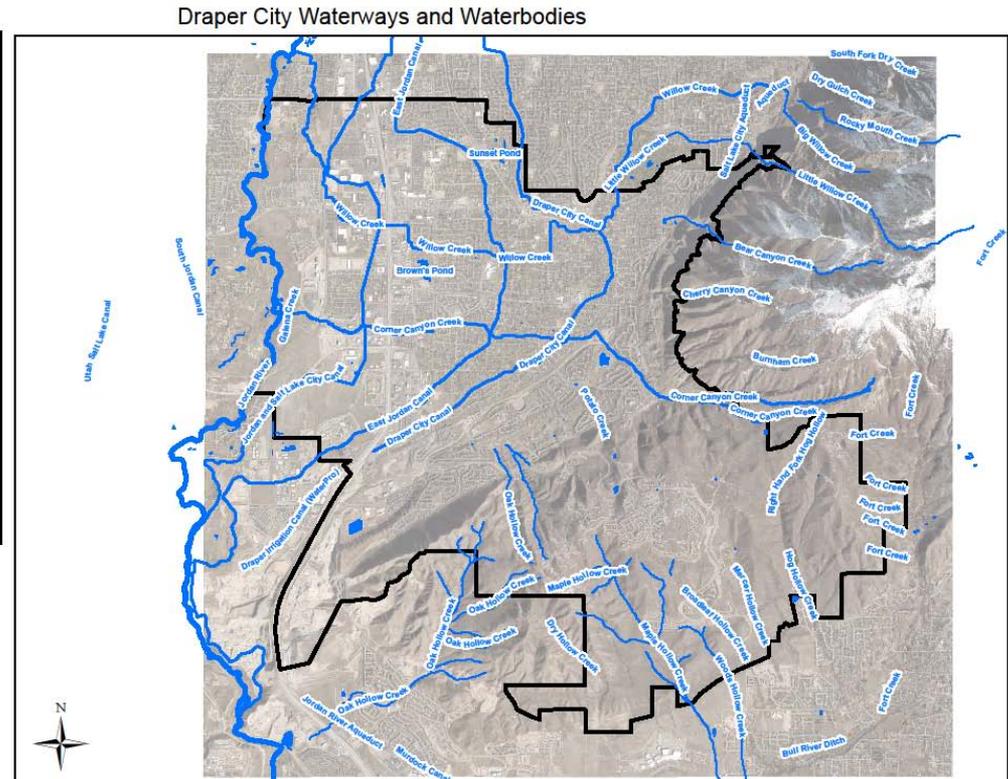
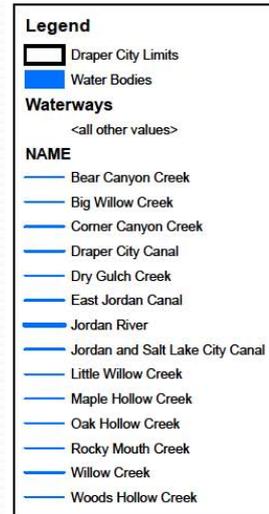
# Overview

- Stormwater Background Information
- Illicit Discharge Detection and Elimination (IDDE)
- Know what to do
- Standard Operating Procedures (SOPs)
- Public Works Facility
- Quiz

# Background Information

- Stormwater runoff ultimately leaves Draper through 4 main routes.

1. Infiltrates into the ground
2. Discharges to the Jordan River
3. Discharges to the East Jordan Canal
4. Discharges to the Salt Lake City Canal



Stormwater collected throughout the city is not treated for pollution prior to discharging to these water bodies.

# Background Information

Some of the pollution found in stormwater can come from any of the following sources:

1. Poor housekeeping on construction sites
2. Poor housekeeping at municipal, commercial, residential, and industrial properties
3. Trash transported by wind/rain/snow
4. Natural wear of asphalt/roads/landscaping
5. Fertilizer, pesticides, or herbicides used for landscaping
6. Purposeful or accidental dumping of chemicals into the stormdrain system (also know as an **illicit discharge**)

# Illicit Discharge Detection and Elimination (IDDE)

- An Illicit discharge is anything that is NOT storm water that discharges to the storm drain system. Some examples include:
  1. Automotive fluids (oils, antifreeze, fuel, etc.)
  2. Waste water and processed water (Pools, carpet cleaning water, portable toilets, etc.)
  3. Lawn Care (fertilizer, herbicides/insecticides, green waste)
- Some exceptions
  1. uncontaminated ground water (basement sump pumps)
  2. fire fighting or other emergency activities, etc...
  3. Landscaping or irrigation runoff

# Illicit Discharge Detection and Elimination (IDDE)

- To protect Utah's water bodies it is important for Draper employees abide by the following:
  1. Prevent pollution that may occur from your day to day operations from entering any stormdrain infrastructure
  2. Know where to locate and familiarize yourself with your departments Standard Operating Procedures (SOPs)
  3. Implement good housekeeping practices (Picking up trash, sweep/blow disturbed soil off hardscape areas onto landscaped areas, properly dispose of trash and recyclables in appropriate locations)
  4. Know who to contact if an illicit discharge is observed regardless of where the discharge came from
  5. Know where to locate a Spill kit and dry absorbent

# Illicit Discharges observed by Draper employees



Draper employee observed a pool discharging to the curb and gutter. Within 15 minutes we were able to have the maintenance crew stop discharging to the street and redirect to the sewer.

# Illicit Discharges observed by Draper employees



Draper employee observed concrete truck discharging directly to street. Health department and owner were contacted by Draper city SWPPP inspector and concrete company cleaned up after their own spill.

# Illicit Discharges observed by Draper employees



The police department observed stucco running down the storm drain system. The stucco was traced back to a mailbox where the contractor washed his equipment. Draper responded by cleaning out the pipes/inlet boxes. The health department went after the contractor to issue a notice of violation.

# Know what to do.

- If you observe an illicit discharge:
  1. Notify your department head.
  2. If department head is unavailable contact the Stormwater Specialist, Nikolai Halverson.
  3. If department head, stormwater specialist are unavailable contact Code Enforcement, David Bernal
  4. 4th If all the above parties are unavailable contact the Salt Lake County Health Department hotline (801-580-6681)
  5. Follow your departments SOP “**IDDE-Opportunist Illicit Discharge Obsevation**”
- If you accidentally cause an illicit discharge
  1. Notify your department head. If unavailabe contact the Stormwater Specialist.
  2. Follow the SOP “**IDDE-Spill Containment and Cleanup**” or coordinate cleanup efforts with the Stormwater department head (Brad Watson)

# SOPs

- SOPs serve two purposes
  1. Describe how to complete a task within your department
  2. Describing measures for reducing pollution in your day to day operations.
- SOPs can be found several ways.
  1. Contacting your department head
  2. Looking in your departments offices/trucks for hard copies
  3. Looking on the draper website under “Our Departments>Public Works” A link can be found at the bottom of the webpage.  
<http://www.draper.ut.us/index.aspx?nid=119>

# Public Works Facility

- It is a state requirement that we consistently inspect, clean, and maintain our public works facility. Draper employees can help by abiding by the following goodhousekeeping practices
  1. Pick up trash around your departments work areas on a daily basis
  2. Dispose of all trash, recyclables, green waste, and other debris in appropriate containers and sorting bays
  3. Report any major leaking vehicles in your department head in order to get vehicle serviced
  4. Know your departments SOPs and how to follow them.
  5. Know where to find a spill kit and how to use one

# Quiz

1. Where can you find a copy of your Departments SOPs
  - a) In your departments offices/trucks
  - b) Contact your department head
  - c) On the Draper City Website
  - d) All of the Above

# Quiz

2. True/False? Water collected by the Draper City storm drain system is treated prior to being discharged to the Jordan River, Canals, and groundwater.

# Quiz

3. Which of the following is considered an illicit discharge (only one correct answer)
- a) Water from irrigation sprinklers
  - b) Water used by the fire department to fight fires
  - c) Pool water emptied into the curb and gutter
  - d) A resident pumping ground water from their basement into the curb and gutter

# Quiz

4. Who can you contact if you observe an illicit discharge
- a) Your department head
  - b) Stormwater Specialist
  - c) Code Enforcement
  - d) Salt Lake County Health Department
  - e) All of the above

# Quiz

5. Who should you first contact if you are involved in an illicit discharge

- a) Your department head
- b) Stormwater Specialist
- c) Salt Lake County Health Department
- d) a or b

# Survey (optional)

1. Length of training (scale of 1 to 10 with 10 being too long)
2. Easy to Understand (scale of 1 to 10 with 10 too difficult to understand the content)

Comments/suggestions:

Contact Nikolai Halverson any time you have any questions about the material or any future situations you come across in the future.