

Why are you in this training?

- Compliance with Windermere's National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) permit.
- The Town must inspect portions of their MS4 that have a reasonable potential of containing illicit discharges/connections/ dumping:
 - Commercial zoned areas/properties within the Town's MS4 contributing area
- PROACTIVE and REACTIVE Inspections

What is Stormwater Runoff?

- Stormwater Runoff is water created from rain that does not soak into the ground, but flows over ground surface and runs into nearby waterways
- The Town of Windermere's Stormwater System, or MS4, consists of open swales, gutters, storm drains, underground pipes, open retention ponds, culverts, and creeks
- Stormwater is **not treated**, it flows directly into our surface waters

- Stormwater flows UNTREATED into the Butler-Chain-of-Lakes
- Lake Butler is impaired for Nutrients (Total Nitrogen)
- Both Lake Butler and Lake Bessie were previously impaired for Mercury
- Lakes and other waterbodies provide biological functions that benefit not only aquatic life, but human life as well



Why do we care?

What is an Illicit Discharge?

- Any discharge to an MS4 that is not composed entirely of stormwater
- Illicit discharges fall into 3 categories:
 - Improper disposal/Accidental runoff
 - Deliberate dumping
 - **Illicit connections**

Improper Disposal

- Pollutants discarded incorrectly or improperly stored causing unintended discharge
- Residential or Commercial
- Examples include:
 - Paints
 - Petroleum products
 - Fats, oils, and greases
 - Cleaning products
 - Yard debris
 - Fertilizers



Accidental Runoff

Examples:

- Commercial auto repair, salvage yards, or carwash water, or pressure cleaning
- Commercial or residential landscaping
 - Pesticides
 - Fertilizers
- Septic tank overflows
- Construction runoff
 - Including sediment





Deliberate Dumping

- Purposefully disposing of non-stormwater liquids or debris into the MS4 (includes roadside ditches)
- Examples Include:
 - Construction waste
 - Chlorinated pool water discharge
 - Fertilizers and pesticides if application rates and timing of applications are inappropriate
 - Obvious discharges with very high turbidity, strong odors and colors

Unauthorized/Illicit Connections

- Unauthorized connections to drainage structures such as
 - Pool discharge
 - Sewage
 - Grey water
 - Commercial discharge
- May be noticed during dry weather as well as wet.



PROACTIVE INSPECTIONS

- For proactive facility inspections, the trained inspector conducts an unannounced visit to the facility.
- A standardized inspection form is used (see right)



Proactive Illicit Discharge/Illegal Connection Inspection Form

Date of Inspection: Address of Facility OR General Description of Area Inspected:					
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Identification of MS4 component that could receive discharge from	om this s	ite/area	a:		
If Facility inspection, does type of business require an MSGP?	Yes	П	No	П	
If yes, does this facility have one?	Yes		No		
Findings:					
Evidence of illicit connections to storm sewer?	Yes		No		
Evidence of dumping/spills to storm sewer?	Yes		No		
Evidence of wash water going to storm sewer?	Yes		No		
Storage tanks leaking or improperly contained?	Yes		No		
Stockpiles/debris piles uncontained?	Yes		No		
If "yes," to any above, describe:					
Type of Enforcement Action Taken:					
Date to verify elimination:					
Date of Referral to FDEP of facility that may require Multi-Secto	or Gener	ic Pern	nit (MS	GP):	

Priority Areas for Inspection

- Areas with older infrastructure;
- Industrial, commercial, or mixed-use areas;
- Areas with history of past illicit discharges and/or illegal dumping;
- Areas with on-site sewage disposal systems;
- Areas upstream of sensitive or impaired water bodies;

Signs of Illicit Discharge

- Colored, cloudy, and/or iridescent water
- Suds
- Strange Odors (sewage, gas)
- Pipes that shouldn't be there
- Sediment build-up
- Stains
- Empty containers (cans, barrels, etc.)
- Flow noticed during dry weather as well as wet

Check for Applicable Permits

- Construction Generic Permit (CGP)
- Multi-Sector Generic Permit (MSGP)



Construction Generic Permit (CGP)

Required for discharges that:

- Disturb at least one or more acres of land or disturb less than one acre of land but are part of a common plan of development or sale; and
- Discharge stormwater to surface waters of the state or to surface waters of the state through a MS4.



Multi-Sector Generic Permit (MSGP)

 Required for activities that could cause pollution to discharge stormwater runoff Compliance with the permit requires pollution prevention BMPs

Priority Area inspections:

- For priority areas, a drive-around procedure is followed:
 - The trained inspector(s) patrols the prioritized area searching for indications of illicit discharges/connections/dumping.
 - If any are identified, the inspector either:
 - stops to do a Facility Inspection,
 - a reactive investigation,
 - or completes a work order form for the appropriate personnel to complete the investigation.

These common discharges are ALLOWED:

- Landscape Irrigation
- Lawn Watering
- Uncontaminated pumped groundwater
- Water line flushing
- Discharges from potable water sources
- Foundation drains
- Air conditioning condensation
- Water from crawl space pumps
- Footing drains
- Fleet vehicle washing
- Fire fighting activities
- NPDES permitted sources

REACTIVE INSPECTIONS

- Reactive inspections follow the same procedure as proactive
- Inspection follows a report/tip
- A standardized inspection form is used (see right)



TOWN OF WINDERMERE

Reactive Investigation of Reported Illicit Discharge/Illegal Connection/ Illegal Dumping

Date suspected illicit was reported:
Date of investigation:
MS4 potential receiving system:
If not within MS4, date and to whom referral made:
Verification of problem:
Type of discharge/connection/dumping:
Determined Source:
Type of enforcement action taken:
Date to verify elimination:
Date of Referral to FDEP of facility that may require Multi-Sector Generic Permit (MSGP):

What to do if you find an Illicit Discharge

- ☐ Record the date and time
- ☐ Record the signs of illegal discharge
- ☐ Track down and remove the source immediately if possible
- ☐ Report it to Public Works

Contact:

Tonya Elliott-Moore

Public Works Director; tmoore@town.windermere.fl.us

*Oil spills should be reported to the appropriate agency for cleanup

Any Questions?



Thank you!

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