

# Annual Storm Water Training for City Council & Staff

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2026

# Introduction

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What is the Storm Water Management Program?

- A Storm Water Management Program Plan (SWMP) is a “written plan that is used to describe the various control measures and activities the Permittee will undertake to implement the storm water management plan.”

Why is it required?

- Required by the EPA and the Utah Division of Water Quality (federal, state)
- Provides guidance and “measurable” goals

**Pleasant View City**  
**Storm Water Management Plan**



**August 2026**

Prepared by  
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Consulting Engineers

# Introduction



# SWMP Definitions

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## Minimum Control Measure (MCM)

- “Control Measure” refers to any Best Management Practice or other method **used to prevent or reduce the discharge of pollutants** to Waters of the State.

## Best Management Practices (BMPs)

- BMPs are **actions or items** that prevent or reduce water pollution.
- Examples?
  - ordinances, standard operating procedures, street sweeping, silt fencing, inlet protection

# SWMP Definitions

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## Permittee/MS4 (Municipal Separate Storm Sewer System)

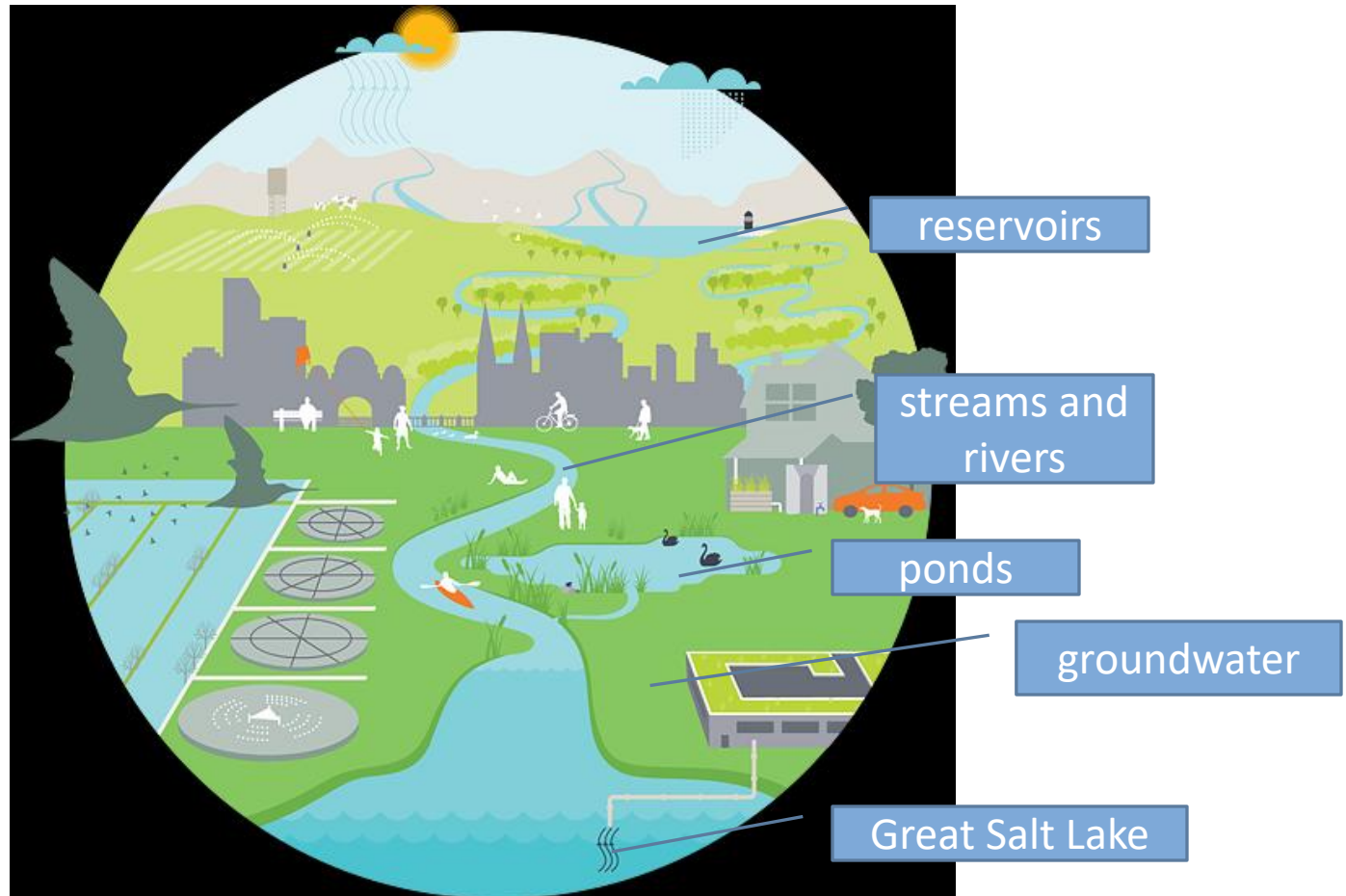
- Pleasant View City

## Waters of the State

- Includes nearly all [water conveyances or impoundments](#), including groundwater

# SWMP Definitions

## Utah Waters of the State





# SWMP Contents

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## Six Minimum Control Measures (MCMs)

1. Public Education and Outreach
2. Public Involvement and Participation
3. Illicit Discharge Detection and Elimination
4. Construction Site Storm Water Runoff Control
5. Long-Term Storm Water Management in New Development and Redevelopment (Post-Construction Storm Water Management)
6. Pollution Prevention and Good Housekeeping

Each MCM section contains tasks, goals, and deadlines

For each MCM, there are Action Items



# MCM 1 – Public Education

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## Public Education and Outreach - General

- Implement a public education and outreach program to **promote behavior change by the public to reduce water quality** impacts associated with pollutants in storm water runoff and illicit discharges.
- **Multimedia approach** and target:
  - General Public
  - Institutions, Industrial, and Commercial Facilities
  - Construction Engineers, Contractors, Developers, Development Review Staff, and Land Use Planners
- Golden Spike Storm Water Coalition provides some public outreach and education





# MCM 2 – Public Involvement

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## Public Involvement and Participation - General

- **Implement** a program that complies with applicable State and Local public notice requirements
- **Conduct** opportunities for public involvement and participation, a minimum of two (2) times annually
  - advisory panels
  - public hearings
  - watershed committees
  - stewardship programs
  - environmental activities
  - volunteer opportunities
  - other similar activities
- **Involve** potentially affected stakeholder groups
  - commercial and industrial businesses
  - trade associations
  - environmental groups
  - homeowners' associations
  - education organizations



# MCM 2 – Public Involvement

## Public Involvement - Examples

- Develop program for installation of curb markers
- Earth Day activity
- Founders Day booth
- Public Hearing for input into program



<https://www.usabluebook.com/collection-systems/stormwater-markers/>





# MCM 2 – Public Involvement

## Public Involvement

- Place storm water information on city's website
  - SWMP
  - Hotline

[Home](#) > [Departments](#) > [Public Works / Utilities](#)

### Report Illegal Discharges

To make inquiries or report illegal dumping or discharging of chemicals, oil, paint, or other pollutants in gutters or storm drains, call Pleasant View City's main office at **801-782-8529**. After Pleasant View City's city office is closed, please call Weber County Dispatch at **801-395-8221**.

online or by dialing 811, Monday through Friday, 7 am to 5 pm, excluding holidays. Blue Stakes is a free service provided by local utility companies.

### Resources

[City Standards](#)

### Documents

- [2020 Water Report \(PDF\)](#)
- [Cross Connection Information \(PDF\)](#)
- [Pleasant View Storm Water Management Plan \(PDF\)](#)

Update link to new 2026 SWMP  
after adopting it tonight





# MCM 3 – Illicit Discharge

## Illicit Discharge Detection and Elimination - General

- **Revise, implement and enforce** an Illicit Discharge and Elimination (IDDE) program to systematically **find and eliminate** sources of non-stormwater discharges from the MS4
- **Implement** defined procedures to prevent illicit connections and discharges





# MCM 3 – Illicit Discharge

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## Illicit Discharge

- Any discharge into the storm drain system or Waters of the State that isn't purely storm water



<https://www.durhamnc.gov/2822/Illicit-Discharge-Detection-and-Eliminat>



# MCM 3 – Illicit Discharge

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## Non-storm water discharges:

- Water line flushing
- Landscape irrigation
- Diverted stream flows
- Rising ground waters
- Uncontaminated ground water infiltration
- Uncontaminated pumped ground water
- Discharges from potable water sources
- Foundation drains
- Air conditioning condensate
- Irrigation water
- Springs
- Water from crawl space pumps
- Footing drains
- Lawn watering runoff
- Individual residential car washing
- Flows from riparian habitats and wetlands
- Dechlorinated swimming pool discharges
- Residual street wash water
- Dechlorinated water reservoir discharges
- Discharges or flows from emergency fire fighting activity



# MCM 3 – Illicit Discharge

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## Illicit Discharge Detection and Elimination – Tasks

- **Maintain** MS4 map
- **Create** IDDE plan
  - ID and inspect priority areas
  - Dry weather screening
  - Household hazardous waste collection
  - IDDE hotline
- **Develop** SOPs for avoiding, cleaning, tracking spills, responding to public referrals of illicit discharges, etc.
- **Maintain** records
- **Conduct** IDDE annual **training**



# MCM 3 – Illicit Discharge



<https://www.chathamcountync.gov/government/departments-programs-iz/watershed-protection/illicit-discharge>



<https://dem.ri.gov/ri-stormwater-solutions/violations.php>



<https://lwr.danecounty.gov/illicit-discharges>



<https://dem.ri.gov/sites/g/files/xkgbur861/files/ri-stormwater-solutions/documents/IDDE.pdf>



# MCM 3 – Illicit Discharge

Motor Oil  
Leak



<https://www.brightonco.gov/432/Illicit-Discharges>

Illicit Connection  
into Storm Drain

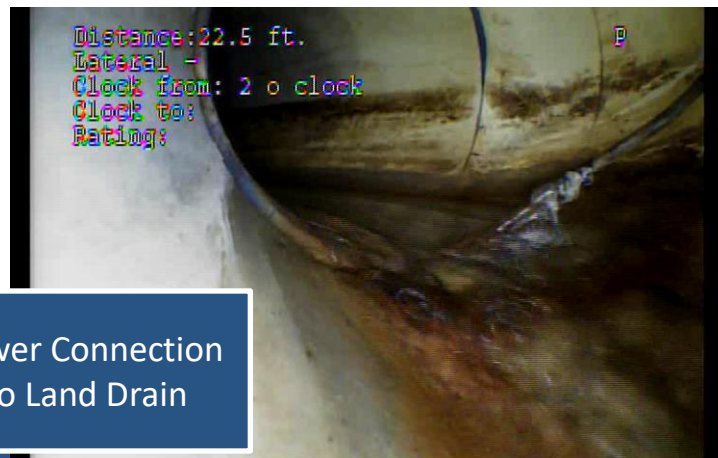


Non-residential  
Vehicle Wash  
Water



<https://www.christiansburg.org/DocumentCenter/View/9552/IDDE-Field-Guide>

Sewer Connection  
to Land Drain





# MCM 3 – Illicit Discharge



<https://www.yorkcountygov.com/910/Illicit-Discharge-Detection-Elimination>

Concrete cutting water  
and concrete wash outs  
– watch for small  
projects like fences,  
sidewalks, and  
driveways

<https://www.pflugervilletx.gov/713/Environmental-Pollution-Prevention-Hotli>



Paint wash out  
into storm drain



[https://www.knoxcounty.org/stormwater/illlicit\\_discharge.php](https://www.knoxcounty.org/stormwater/illlicit_discharge.php)



# MCM 3 – Illicit Discharge



Leaking  
dumpster

Dumping  
liquids off of  
loading dock



<https://www.wilmingtonma.gov/stormwater-management/illicit-discharge-detection-and-remediation/>



Discharging  
contaminated  
water

<https://nc-cleanwater.com/>



Grass  
clippings in  
the gutter

<https://bradfordil.com/2021/07/06/state-law-reminder-grass-clippings/>

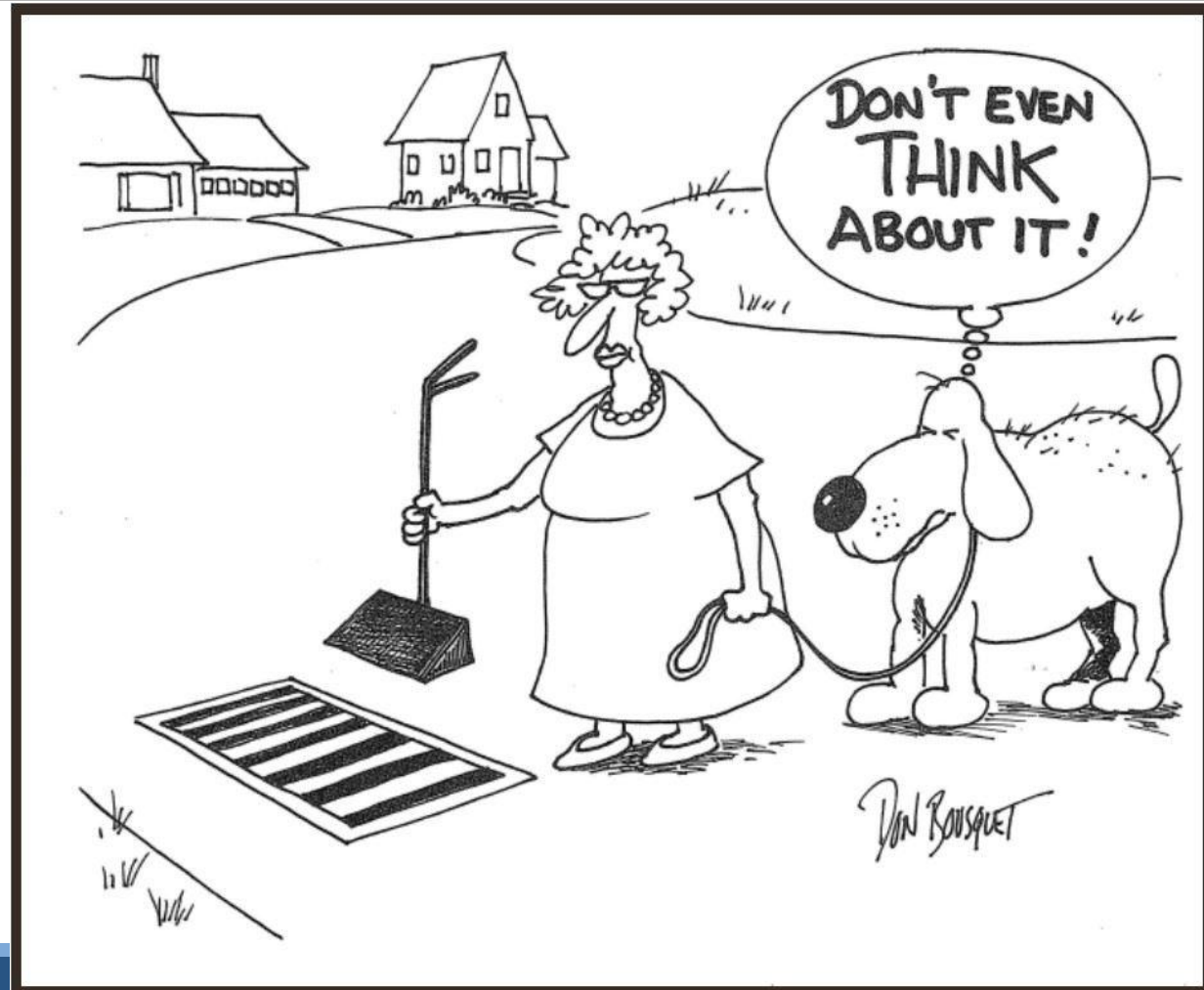


Grass  
clippings  
dumped in  
drainage

<https://www.newtonkansas.com/Departments/Public-Works/Stormwater-Management>



# MCM 3 – Illicit Discharge





# MCM 3 – Illicit Discharge

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IF YOU SEE SOMETHING, SAY SOMETHING™



# MCM 4 – Construction Sites

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## Construction Site Storm Water Runoff Control - General

- **Revise, implement, and enforce** a program to reduce pollutants in any storm water runoff to the MS4 from:
  - All disturbances greater than 1 acre
  - Disturbances less than 1 acre but part of a Common Plan of Development (i.e. individual building lots)
  - Disturbances in a sensitive area (e.g. floodplain, near wetland, steep slope, highly erosive soils)
- Public and private projects, including projects proposed by the Permittee's own departments and agencies, shall comply with these requirements



# MCM 4 – Construction Sites

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## Construction Site Storm Water Runoff Control - Tasks

- [Revise/enforce ordinances](#) that require the use of erosion and sediment control practices
- [Develop](#) an enforcement strategy
- Pre-construction SWPPP [review](#)
- [Perform](#) construction inspections





# MCM 4 – Construction Sites

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More tasks...

- **Develop** SOPs for enforcement of ordinances
- **Document and track** all enforcement actions
- **Develop** checklist for SWPPP review
- **Conduct** pre-construction SWPPP meeting
- **Develop** procedures for receiving input by public
- **Identify** priority construction sites
- **Develop** SOPs for construction site inspection
- **Inspect** all phases of construction (pre-, during, and post-)
- **Perform** necessary follow-up actions
- **Participate** in training
- **Retain** records





# MCM 4 – Construction Sites

Have hotline for reporting issues posted at the construction site



<https://regionalstormwater.org/about-stormwater/stormwater-pollution/>



<https://www.epa.gov/stormwater-management/pages/construction-site-stormwater-runoff-control>

**SWPPP**  
A Storm Water Pollution Protection  
Permit covers this construction site.  
If any Non-Storm Water discharge  
or severe vehicle tracking occurs  
please call 801-804-4577.





# MCM 5 – Long-Term SW Mgmt

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## Long-Term Storm Water Management in New Development and Redevelopment - General

- Revise, implement, and enforce a program to address post-construction storm water runoff to the MS4
- Does not replace or substitute for water quantity or flood management requirements
- Applies to private and public development sites



# MCM 5 – Long-Term SW Mgmt

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## Post-Construction Controls

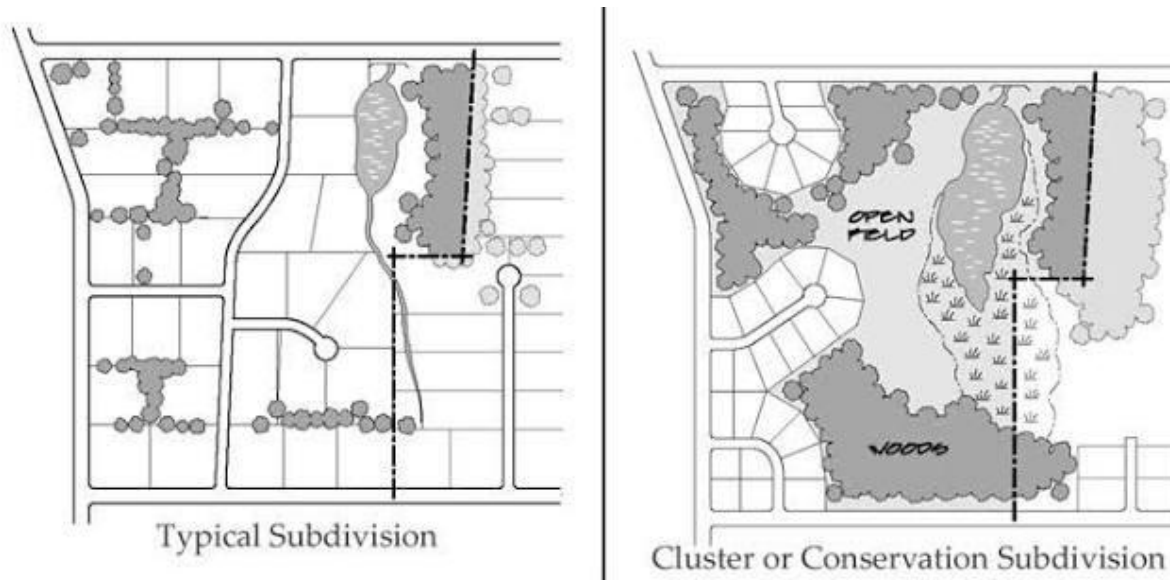
- Non-structural controls
- Retention requirement
- Low Impact Design approach
- Feasibility



# MCM 5 – Long-Term SW Mgmt

## Non-structural controls examples

- Allow cluster subdivisions - leave undisturbed or natural land
- Minimize driveway widths (curb cuts at street) **by ordinance**
- Encourage gravel and/or permeable pavers (site-based design)

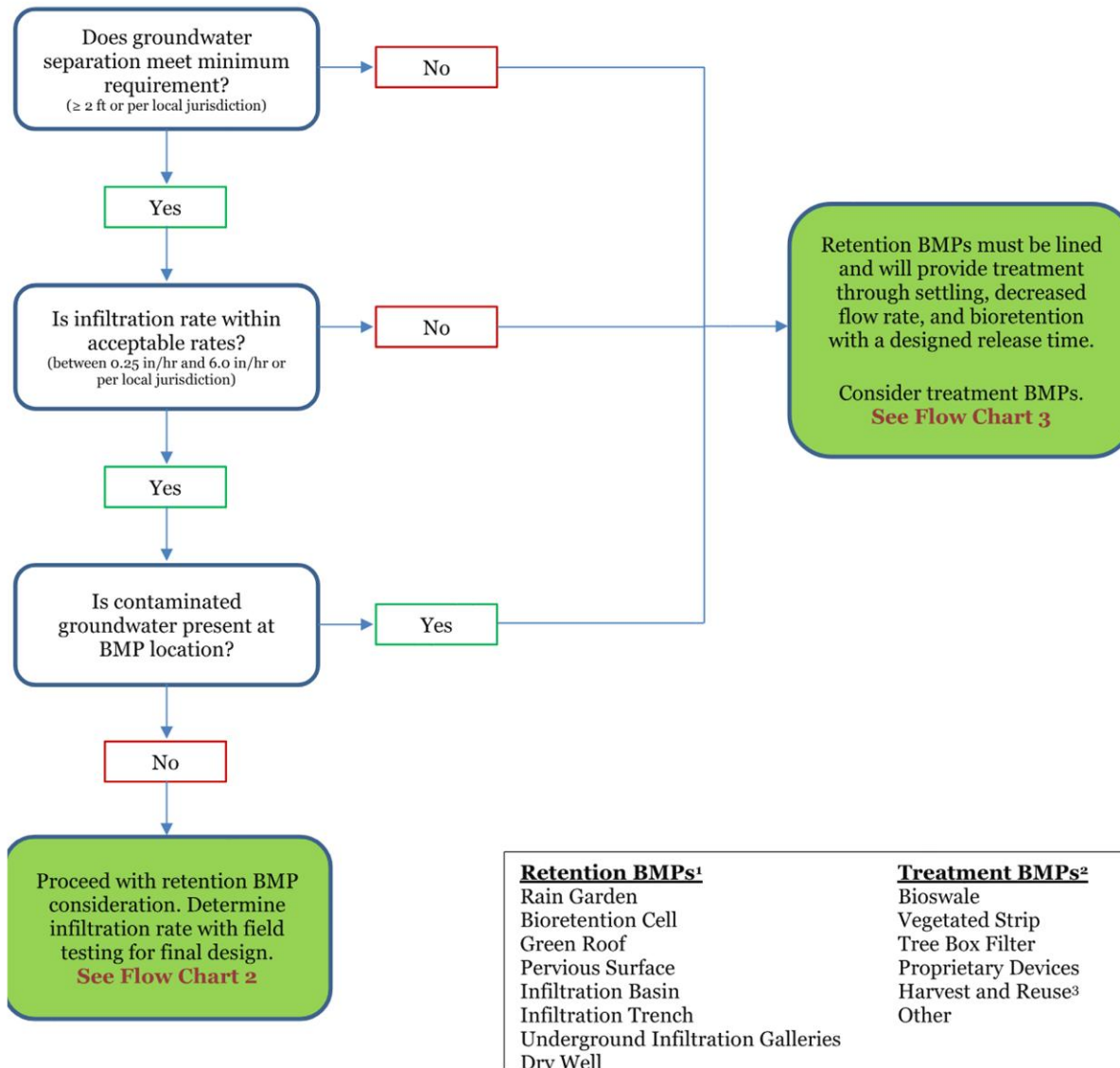




gmt

reas

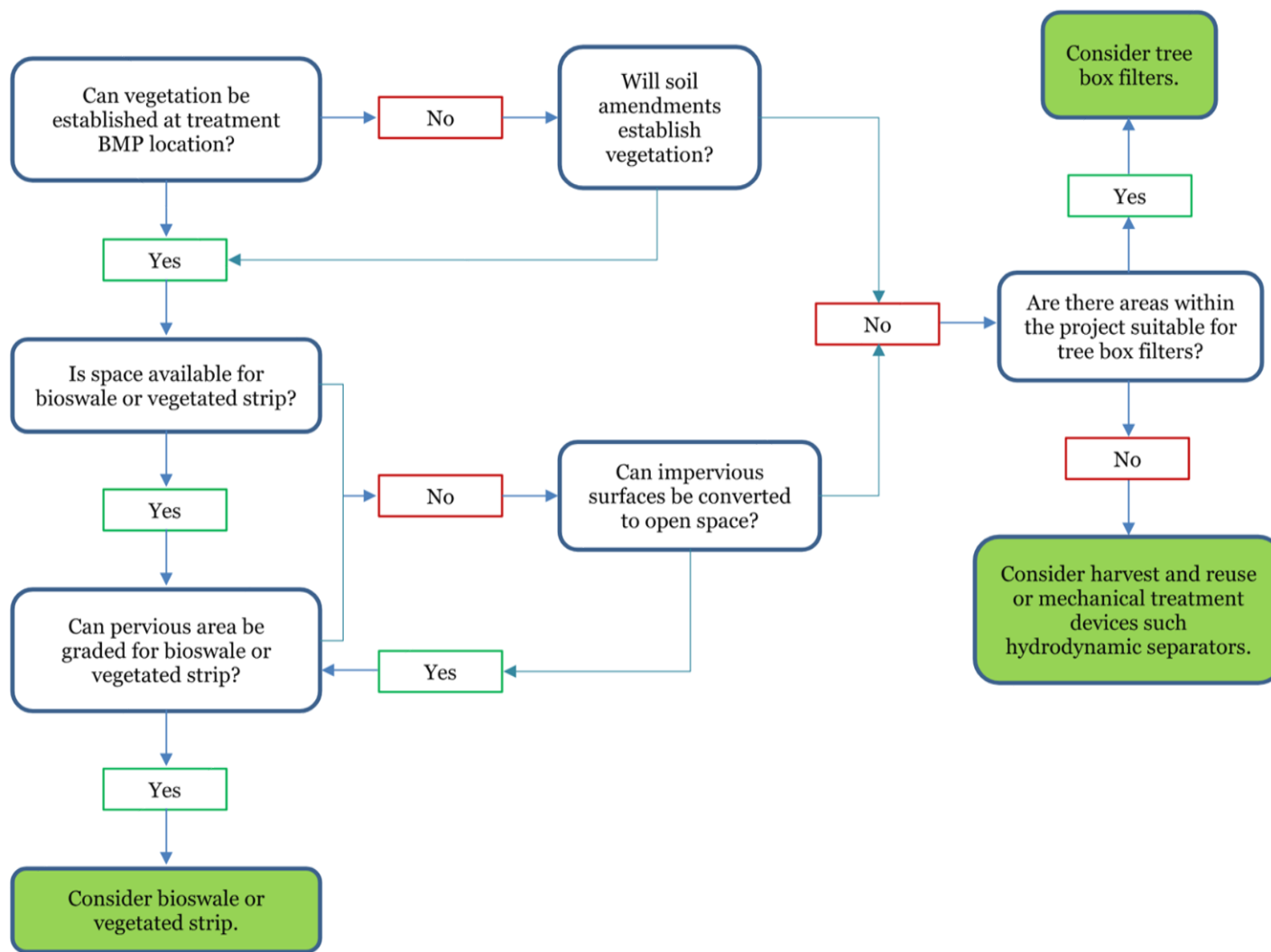
Flow Chart 1: Retention vs Treatment





### Flow Chart 3: Treatment BMP Selection

Note: BMP recommendations contained within this flow chart does not necessarily rule out consideration of other BMPs.





# MCM 5 – Long-Term SW Mgmt

## LID Approach

- City selected 7 LID practices



### Summary of Allowable LID BMPs from *A Guide to Low Impact Development within Utah*

<https://deg.utah.gov/water-quality/low-impact-development>



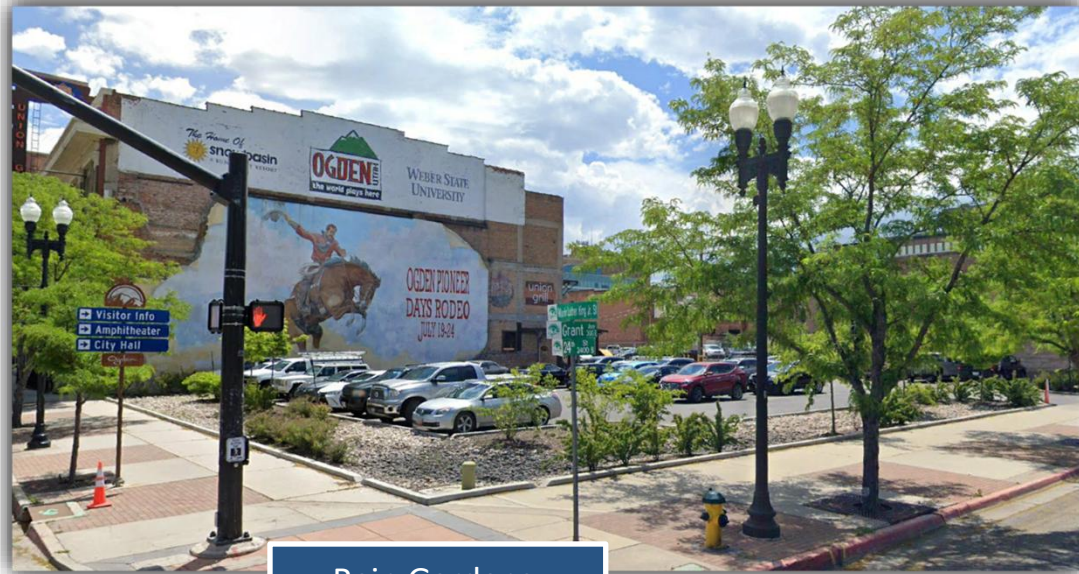
| LID BMP Category                  | LID BMP Type                     | Fact Sheet ID | Removal Effectiveness <sup>1</sup> | Primary Functions |                  |               |                    | Where Permitted            |                             |                            |            |            |
|-----------------------------------|----------------------------------|---------------|------------------------------------|-------------------|------------------|---------------|--------------------|----------------------------|-----------------------------|----------------------------|------------|------------|
|                                   |                                  |               |                                    | Bioretention      | Volume Retention | Biofiltration | Maintenance Effort | Residential - Public Roads | Residential - Private Roads | Residential - Multi-family | Commercial | Industrial |
| Bioretention                      | Rain Garden                      |               |                                    | yes               | yes              | yes           | low-med            | yes                        | yes                         | yes                        | yes        | yes        |
|                                   | Bioretention Cell                |               |                                    | yes               | yes              | yes           | low-med            | yes                        | yes                         | yes                        | yes        | yes        |
|                                   | Bioswale                         |               |                                    | yes               | some             | yes           | low                | yes                        | yes                         | yes                        | yes        | yes        |
|                                   | Vegetated Strip                  |               |                                    | yes               | some             | yes           | low                | yes                        | yes                         | yes                        | yes        | yes        |
|                                   |                                  |               |                                    | yes               | varies           | yes           | medium             | no                         | yes                         | yes                        | yes        | yes        |
|                                   |                                  |               |                                    | yes               | yes              | yes           | med-high           | no <sup>2</sup>            | no <sup>2</sup>             | no <sup>2</sup>            | yes        | yes        |
| Pervious Surfaces                 |                                  |               |                                    | yes               | yes              | some          | low-med            | no <sup>2</sup>            | no <sup>2</sup>             | yes                        | yes        | yes        |
| Infiltration Devices <sup>5</sup> | Infiltration Basin               |               |                                    | yes               | yes              | yes           | low                | yes                        | yes                         | yes                        | yes        | yes        |
|                                   | Dry Well                         |               |                                    | yes               | yes              | some          | low                | no                         | yes                         | yes                        | yes        | yes        |
|                                   |                                  |               |                                    | yes               | yes              | no            | low-med            | yes                        | yes                         | yes                        | yes        | no         |
|                                   |                                  |               |                                    | yes               | yes              | no            | low-med            | yes                        | yes                         | yes                        | yes        | yes        |
| Harvest and Reuse                 | Underground Infiltration Gallery |               |                                    | varies            | yes              | varies        | low                | no <sup>2</sup>            | no <sup>2</sup>             | no <sup>2</sup>            | yes        | yes        |



# MCM 5 – Long-Term SW Mgmt

## Selected Structural Practices

- Bioretention cells
- Bioswales
- Vegetated strips
- Infiltration Basins
  - can be incorporated into detention pond, when designed properly
- Infiltration Trench



Rain Gardens,  
Vegetated Strips,  
and Bioswales



# MCM 5 – Long-Term SW Mgmt





# MCM 5 – Long-Term SW Mgmt



[https://www.hydroscreen.com/products/detention\\_pond\\_screens/index.html](https://www.hydroscreen.com/products/detention_pond_screens/index.html)

Avoid pollution with  
pre-treatment



[https://www.stormwaterpa.org/basin\\_retrofit/existing.html](https://www.stormwaterpa.org/basin_retrofit/existing.html)



# MCM 5 – Long-Term SW Mgmt

Underground  
Infiltration  
Galleries



<https://www.fergusonwaterworks.com/product/r-tank-stormwater-modules/>



<https://www.adspipe.com/stormtech>



# MCM 5 – Long-Term SW Mgmt

## Jordan River Clean Up



<https://www.sltrib.com/news/environment/2018/03/29/floating-barrier-jordan-river-threatens-entire-species-of-waterfowl-but-a-new-project-aims-to-fix-that/>

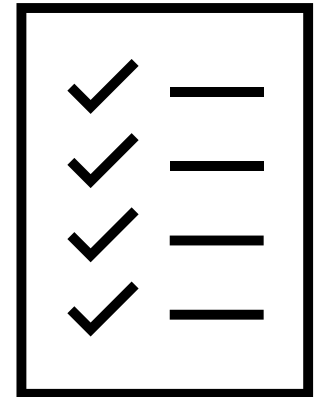


# MCM 5 – Long-Term SW Mgmt

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## Other Tasks

- Develop and adopt ordinances
- Maintain documentation
- Adopt and implement SOPs for site inspection and enforcement
- Require long-term storm water management agreements
- Inspect during installation, at completion, and every 5 years
- Adopt and implement procedures for site plan review
- Review plans to ensure they include long-term storm water management measures
- Create and maintain an inventory of long-term BMPs (public and private)
- Provide **training** – suitability, installation, maintenance
- Maintain **documentation**





# MCM 6 – Good Housekeeping

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## Pollution Prevention / Good Housekeeping – General

- Implement a program for Permittee-owned or operated facilities to prevent or reduce the runoff of pollutants to the MS4 and waters of the state.
- **Create** inventory of potential “high-priority facilities”
  - Public Works Yard
  - Decant Facility
  - City Hall
  - City parks
  - UTA parking lot
- **Develop** SWPPP for each high-priority permittee-owned or operated facility



# MCM 6 – Good Housekeeping

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## Pollution Prevention / Good Housekeeping - Tasks

- **Perform** monthly visual inspections
- **Perform** semi-annual comprehensive inspection of “high-priority” facilities
- **Perform** annual observation of storm water discharge from “high-priority” facilities
- **Develop/update** SOPs for city-owned facilities (parks, roads, buildings, etc.)
- **Obtain** private maintenance contracts (privately owned facilities)
- Follow permitting process for public construction projects (SWPPP, NOI, NOT)
- Provide **training**
- **Document, document, document**

# SUMMARY

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SWMP is a comprehensive plan that covers all facets of the City's storm water program

Requires involvement from City Council to Public Works to the public

Implementation requires time and manpower, both initial and on-going

# SUMMARY

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Questions?

Discussion

Next Steps