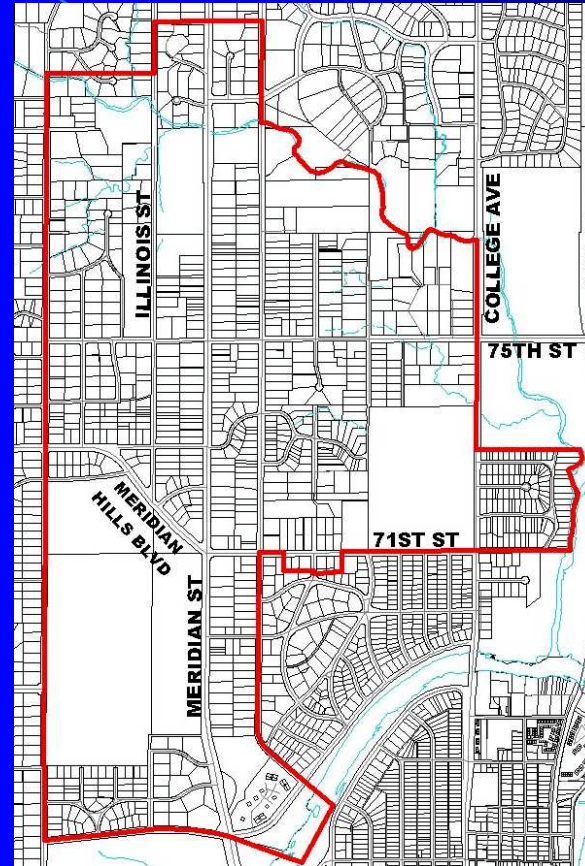




# Town of Meridian Hills Stormwater Management Program Presentation



March 7, 2006





# Presentation Topics



- Stormwater Program Background/General Information
- Importance/Purpose of the Stormwater Program
- Stormwater Program Issues and Questions
- Indianapolis Clean Stream Team Web Site
- Questions / Discussion



# Stormwater Program Background/General Information

- Watershed Masterplan - 1994  
The first coordinated look at stormwater control for Marion County
- NPDES Permit Number INS000001 – February 1, 1998  
Federal water quality permit issued through and regulated by IDEM
- Preliminary Stormwater Masterplan - 1998  
Compilation of known drainage problems county-wide and the estimated cost to correct them.
- Marion County Stormwater Management District & the Stormwater Utility - September 6, 2001, establishing:
  1. County-wide Stormwater Management District (excluding Speedway and Cumberland)
  2. County-Wide Stormwater Masterplan
  3. Stormwater Management District Billing and Collection

# Stormwater Program

## Background/General Information

### Stormwater Management District

- The Marion County Stormwater Management District (MCSMD) was created to provide for the collection and disposal of stormwater in a manner that protects the public health, safety, and welfare.
- The Board of Public Works has exclusive jurisdiction over the collection and disposal of stormwater within the Marion County Stormwater Management District.
- The Department of Public Works manages the stormwater system within the MCSMD.
- The Marion County Stormwater Management Technical Advisory Committee (TAC) advises the Board of Public Works.

# Stormwater Program Background/General Information

## Countywide Stormwater Masterplan

- The Department of Public Works is responsible for providing the Board of Public Works and the City-County Council with a Countywide Stormwater Masterplan
- The Masterplan includes:
  - Stormwater infrastructure inventory
  - Stormwater conveyance system analyses
  - Responding to neighborhood and citizen input
  - Establishment of priorities for capital improvements
  - Integration of information into the Geographic Information System
  - Education and Public Outreach

# Stormwater Program Background/General Information Summary

- District Created in 2001
- Public Works established as the department responsible for managing the stormwater system
- TAC established as entity to advise/provide recommendations to the Board
- Program Team members outside of DPW determined:
  - The Indianapolis Clean Stream Team
- Masterplan developed to identify project needs
- Stormwater utility billing and collection established as a means to fund projects - Initial fee - \$1.25/ERU, Current fee - \$2.25/ERU





# Importance/Purpose of the Stormwater Program



# Importance/Purpose of the Program

## Increase Public Safety

### *Flooded neighborhoods:*

- *Create hazardous conditions*
- *Impact health and welfare*
- *Damage or destroy infrastructure*
- *Impact sanitary sewer / septic systems*





# Importance/Purpose of the Program

## Improve Water Quality

***Erosion from  
construction  
sites/general  
runoff impact  
water quality***



# Importance/Purpose of the Program

## Avoidance of Economic Disruption and Losses

### ***Flooded areas:***

- ***Impede access by residents and emergency services***
- ***Inflict damage to property***



# Importance/Purpose of the Program

## Reduction of Human Suffering

***Flooded neighborhoods impact the quality of life for residents***



# Importance/Purpose of the Program Summary

- Providing for the safe and efficient capture and conveyance of stormwater runoff :
  - Increases public safety
  - Improves water quality
  - Reduces damage to property and public infrastructure
  - Avoidance of economic disruption and losses



# Meridian Hills

## Questions and Issues

- Identification of responsibilities - Public & Private Facilities
- System maintenance vs. Capital Improvement Program (CIP) Projects
- CIP project rating process
- Recommended maintenance of drainage systems & how to avoid problems
- What residents should do if they identify a problem
- Easements and Right-Of-Way
- DPW/Meridian Hills process to address drainage issues
- When and how residents apply for a drainage permit
- DPW points-of-contact
- Drainage Permits - When required/How to obtain
- Sewer extension funding - Barrett Law vs. STEP



# Identification of Responsibilities

## MCSMD/DPW Organizational Structure & Functions

**Policy & Planning Division** - DPW Customer Service performs initial investigation of citizen complaints. The Customer Service representative initiates the Service Request (SR) to United Water for corrective action.

**Operations Division** - Water Services (WSR) is responsible for the operation and maintenance of MCSMD stormwater conveyance systems. WSR/United Water (UW) review the SR, determine scope of correction, estimated cost and priority. WSR issues any required Work Order(s)

**Engineering Division** - Plans, develops and implements the Capital Improvement Program. Serves as the Technical Staff for the Technical Advisory Committee.

# Identification of Responsibilities

## **MCSMD/DPW is responsible for:**

Storm water systems integral with public streets, roads and highways and contained within the public right-of-way, excluding driveway culverts.

Class I storm drain systems contained within easements required by City of Indianapolis standards and specifications.

All other stormwater and flood control facilities under the direct ownership and/or control of the District.

# Identification of Responsibilities

## **Property Owners are responsible for:**

Stormwater facilities on private property including drainage systems that receive and carry runoff from publicly owned/operated stormwater conveyance systems

Driveway culverts, and

Ordinary maintenance of roadside ditches, such as removing vegetation, debris and built-up sediment.

# Examples of Maintenance Responsibilities



**Public Responsibility**



# Examples of Maintenance Responsibilities



**Public Responsibility**



# Examples of Maintenance Responsibilities



**Property Owner  
Responsibility**





# Examples of Maintenance Responsibilities



**Property Owner Responsibility**

# Stormwater System Maintenance Operations

## **DPW Operations performs:**

Minor capital maintenance (MCM) work, such as ditch reconstruction and culvert pipe replacement,

Minor capital improvement (MCI) work such as the installation of storm inlets and short runs of storm pipe, and

Maintenance of flood control gates and pipe closures.

## **MCM, MCI & other maintenance work limitations:**

The cost of the project cannot exceed \$75,000,

Maintenance solution cannot be beyond DPW Operations/United Water's capability to perform,

Funds are allocated by the City County Council through the annual budget and cannot be augmented unless by Fiscal Ordinance, and

Funding sufficient only to address Priority 1 and most Priority 2 work.

# Capital Improvement Program (CIP) Stormwater Projects

## **CIP Stormwater Projects:**

Must primarily benefit Public Infrastructure, Health, and or Safety.  
Any derived private benefit must be incidental to the public benefit,

Exceed the cost cap and/or capability of DPW Operations/United Water to perform,

Are planned as a progressive 5-year program,

Are developed through a comprehensive planning and study process, based primarily on the Initial Stormwater Masterplan and the determined Initial Priority Rating (IPR),

Must be publicly bid, and

Must provide a cost effective and maintainable solution to address the project need.

# Capital Improvement Program Initial Priority Rating (IPR)

## Importance of the IPR:

Provides a systematic, uniform approach to evaluate all problem areas/potential projects equally,

Potential projects are ranked from highest to lowest priority for implementation - a higher IPR number represents a higher priority within the Stormwater Capital Improvement Program. Projects with higher IPRs will more than likely be accomplished first.

Aids in identifying multiple-problem locations within an area.



# Capital Improvement Program Initial Priority Rating (IPR)

The IPR addresses the following areas:

- The street/area classification and the level of hazard to the public
- Frequency of the flooding & extent of potential street deterioration
- The use/type of the affected properties
- The number of properties affected
- Extent of flooding or erosion
- Water quality impacts/improvements
- Potential improvement in quality of life
- Cost-sharing willingness of property owners in the affected area



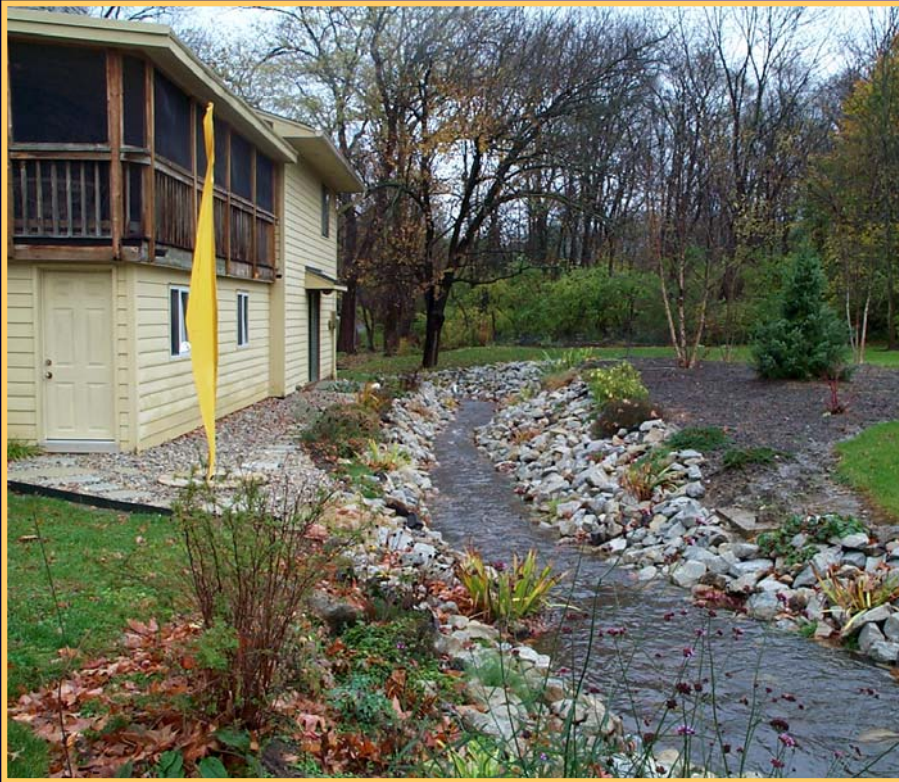
# Recommended Maintenance of Ditches, Swales and Drainage Facilities



**Remove leaves and debris from ditches, culvert pipe openings and storm inlets before drainage is blocked. Periodically removing small amounts of debris is a more manageable process.**



# Avoiding Creating Drainage Problem



Design & construct systems per current standards

Ensure site improvements do not block or restrict existing drainage ways

Ensure drainage ways and pipes are maintained and functioning properly

# What Residents Should Do If They Identify a Problem

Stormwater system and drainage problems should be reported to the Mayor's Action Center (MAC)

Requests for service may be made by calling:

**327-4622 (327-4MAC)**

Or on the Web at:

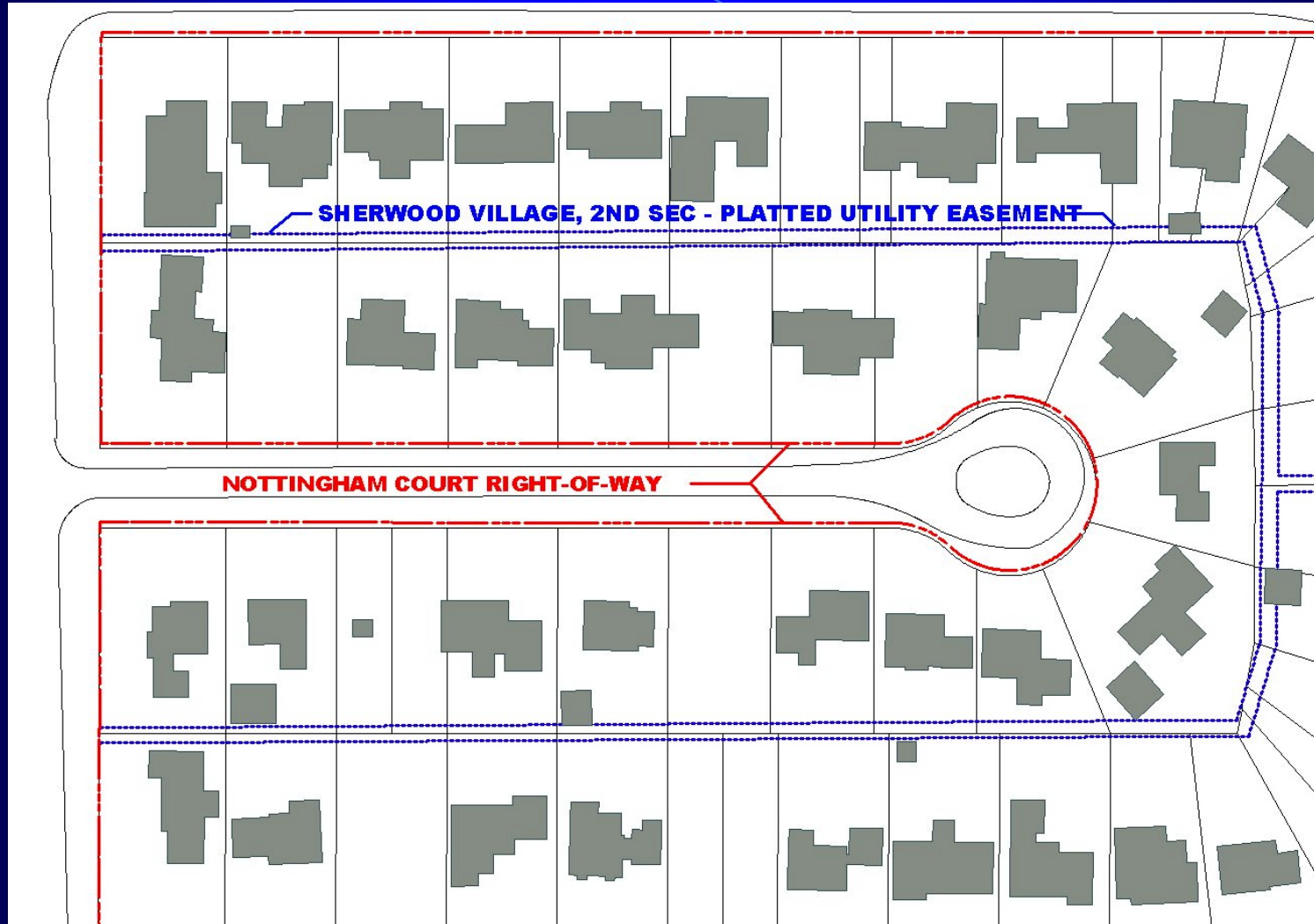
**[www.indygov.org/mac](http://www.indygov.org/mac)**



***Always remember to ask for and receive your Tracking Number !***



# Public Right-of-Way & Easements



# Public Right-of-Way

## Public Right-of-Way:

Generally contains public roads & streets and related stormwater conveyance systems,

Owned/operated by the municipality,

May be established by subdivision platting,

Acquired through dedication by property owner as part of development, or

Acquired as part of a Capital Improvement Project.



**As noted previously, the District maintains stormwater systems within the public right-of-way**

# Easements

## Easements:

Like public right-of-way, may be acquired through platting, dedication or capital project land acquisition process.

Establish locations within a development or building site for the location and construction of drainage facilities.

Allow the municipality to the reconstruct or maintain drainage systems if necessary to protect public infrastructure.

Should not be obstructed by buildings, fences or other improvements.

# Easements

## Easements:

Allow property owner to retain ownership of land,

Do not relieve the property owner of the responsibility to maintain the property's drainage facilities, and

Do not create a duty for the municipality to maintain drainage facilities within the easement area, but only a right to do so if necessary.



# Preferred Process to Address Drainage Issues

## **Initial citizen requests for service:**

Request is made to the MAC either by phone or on-line.

## **Existing Service Requests and/or Work Orders:**

Meridian Hills Town Engineer communicates and coordinates with DPW Water Services staff by phone, email and/or personal meeting as necessary.

## **CIP Project planning and development:**

Meridian Hills Town Engineer communicates and coordinates with DPW Engineering staff by phone, email and/or personal meeting as necessary.

# When and How Residents Apply for Drainage Permits

**A drainage permit is required when on-site or off-site land altering activities:**

- Change the land contours, or

- Increase the runoff rate or volume, or

- Change elevation, or

- Decrease the rate at which water is absorbed, or

- Change a drainage pattern, or

- Create or change a stormwater facility, or

- Involve the construction, enlargement, or location of any building/structure on a permanent foundation, or

- Increase the delivery of point or non-point source pollution to streams, or

- Create an impoundment.

# When and How Residents Apply for Drainage Permits

**Application for a Drainage Permit may be  
made at:**

**Division of Compliance  
Department of Metropolitan Development  
604 North Sherman Drive  
Indianapolis, IN 46201-2563  
327-8700**

## **Lobby Hours of Operation**

**Monday, Tuesday, Thursday - 8:00 AM to 5:00PM**

**Wednesday - Noon to 5:00 PM**

**Friday - 9:00 AM to 5:00 PM**

# **DPW/DMD Points-of-Contact**

## **General information and DPW Public Affairs**

**327-4000**

**M - F, 8:00 AM to 5:00 PM**

Complaints regarding drainage problems, sewer backups, missed trash pick-up, traffic signals, chuckholes, curbs/sidewalks and other municipal facilities:

### **The Mayor's Action Center**

**By phone: 327-4622 (327-4MAC)**

**By email: [www.indygov.org/mac](http://www.indygov.org/mac)**

### **Neighborhood/Community Issues**

**Rachel Buckmaster**

**Mayor's Neighborhood Liaison**

**327-5380 or [rbuckmas@indygov.org](mailto:rbuckmas@indygov.org)**



# Sanitary Sewer Extension Funding Barrett Law and STEP

**The Septic Tank Elimination Program (STEP) has replaced the previous Barrett Law Program. Significant changes are:**

**Elimination of the Public Hearing process,**

**Elimination of the Assessment Role,**

**Residents pay a \$2500.00 connection fee instead of an assessment based on property value and the cost of construction, and**

**Connection to the sewer system may be made sooner.**

# Sanitary Sewer Extension Funding Barrett Law and STEP

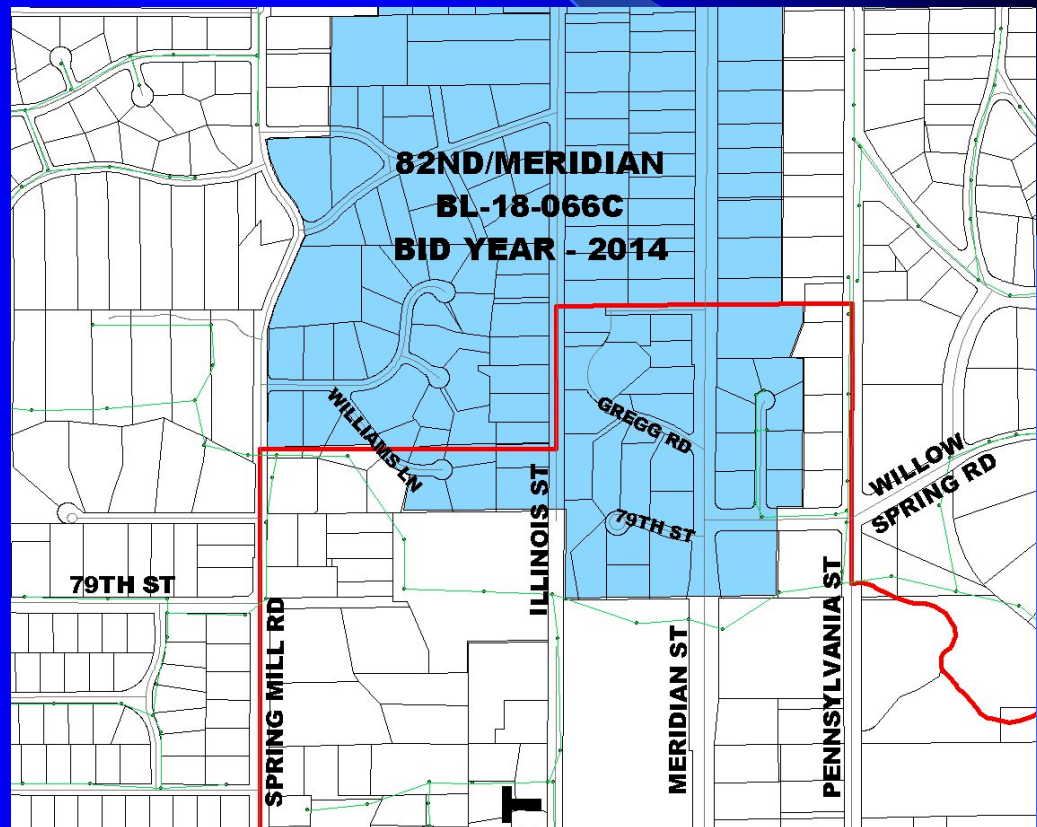
STEP Projects are still planned, developed and implemented in accordance with the existing Barrett Law Masterplan.

Presently, there is one identified STEP Project partially within the Meridian Hills town limits:

**BL-18-066C**  
**82nd St./Meridian St.**  
**Bid Year - 2014**

**STEP Information**

**327-8314**





# Clean Stream Team Website



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Address <http://www.indygov.org/eGov/City/DPW/Environment/CleanStream/home.htm> Go Links

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**DPW** Department of Public Works, City of Indianapolis  
**Clean Stream Team**

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☒ Clean Streams Only

**Indianapolis Clean Stream Team**  
151 N. Delaware St.  
Suite 900  
Indianapolis, IN 46204  
Phone: (317) 327-8720  
Fax: (317) 327-8699

*The Indianapolis Clean Stream Team's mission is to restore area streams and engage public participation in the process. The Clean Stream Team oversees projects to prevent raw sewage overflows into our waterways, eliminate failing septic systems, and improve flood control and drainage. The team includes staff from the Department of Public Works and many private sector partners.*

  
**INDIANAPOLIS**  
CLEAN STREAM TEAM

Home > Local Government > City > Public Works > Protecting the Environment > Indianapolis Clean Stream Team

**Welcome to the Indianapolis Clean Stream Team**

**Clean Stream Team News:**

[City-County Council Approves Mayor's Plan to make Indianapolis neighborhoods cleaner, healthier](#)

[Click here](#) to view the Fall Creek/White River Tunnel Project PowerPoint.

**Contact Us**

- [Drainage issue](#)
- [Sewer issue](#)
- [Septic issue](#)
- [Protect Information](#)

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**correct connect**  
Connect downspouts and sump pumps correctly to public sewers

**IMPORTANT INFORMATION FOR INDIANAPOLIS RESIDENTS ABOUT FATS, OILS AND GREASE IN OUR SEWERS**

[Click here to learn more about the city's new sewer connection fee](#)

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Done Local intranet



<http://www.indygov.org/eGov/City/DPW/Environment/CleanStream/home.htm>





# Questions & Further Discussion

