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# What is MS4 Compliance?

The City of Grandview's Responsibilities for the MS4 Permit

May 29, 2018

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## Today's Goal

- Overview of stormwater
- Overview of permitting and what that means to Grandview
- Identify Measurable Goals as a group
- Identify Responsible Party for meeting these Goals

Improve and preserve the quality of water in our local streams.

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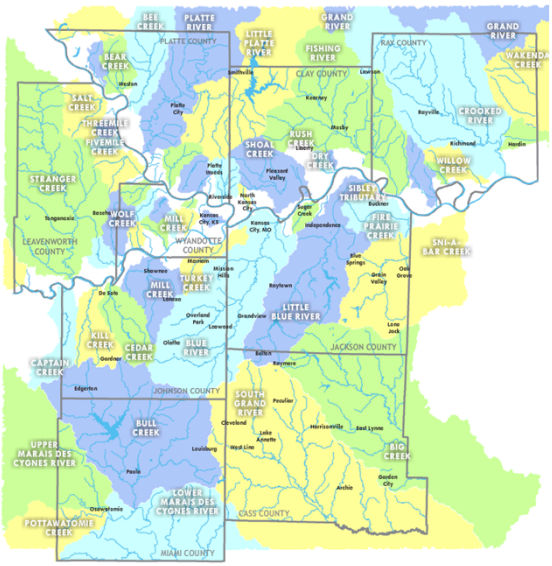
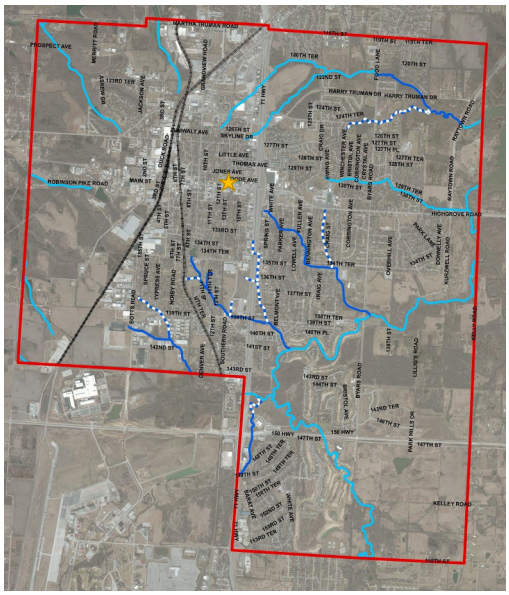
## What is a watershed?



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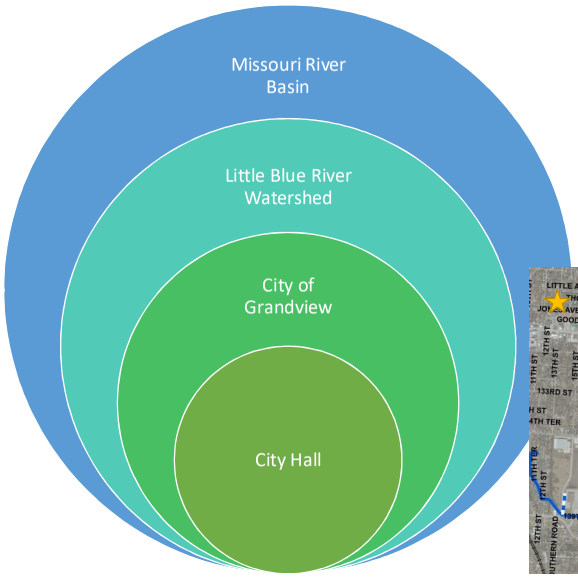
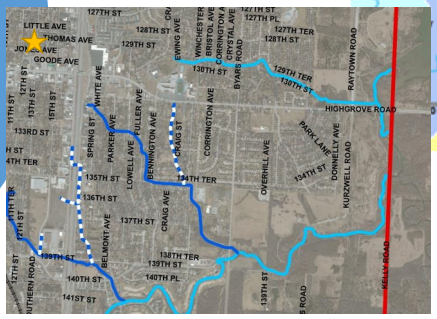
## What happens when it rains?



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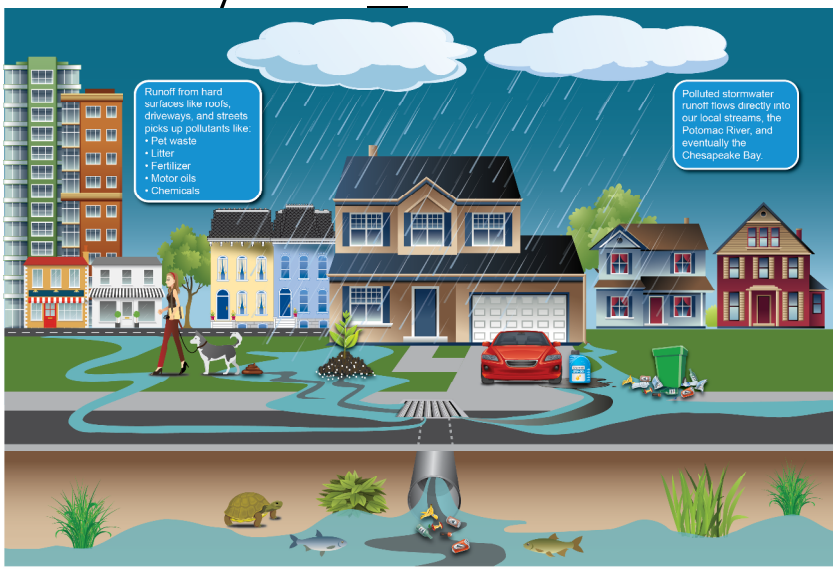
# The Stormwater System IS Infrastructure

- When it rains . . .




City of Alexandria, VA. (2018, May 29). Only Rain Down the Storm Drain. Retrieved from https://www.alexandriava.gov/tes/stormwater/info/default.aspx?id=93591

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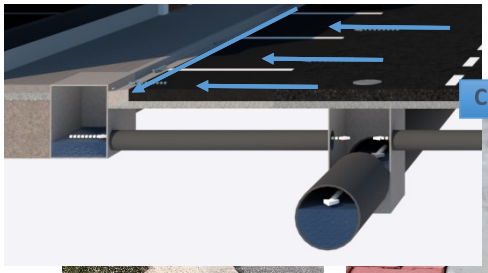
# Stormwater Collection



Curb & Gutter

Inlets

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# Stormwater Conveyance

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# Stormwater Storage

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# What is Stormwater Permitting?

- NPDES
  - National Pollutant Discharge Elimination System
- MS4
  - Municipal Separate Storm Sewer System
- BMP
  - Best Management Practice

Improve and preserve the quality of water in our local streams.

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# Regulatory History of Stormwater

- Before 1987 – Stormwater considered a non-point source and not regulated
- Water Quality Act of 1987 – required NPDES permitting of certain stormwater discharges
  - Medium and large municipalities, > 100,000 persons
  - Industrial activities
  - Others, as determined by EPA "to protect water quality"
- Also known as *NPDES Phase I*

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# Regulatory History of Stormwater (cont.)

- 1995 – EPA reported to Congress that small municipalities also needed regulation
- Known as *NPDES Phase II*
  - *Covers 'urbanized areas' as defined by the Bureau of Census that are not under NPDES Phase I*
  - Also known as Small MS4s
  - A City's NPDES Phase II stormwater program should:
    - Reduce the discharge of pollutants to the "maximum extent practicable"
    - Protect water quality
    - Satisfy the Clean Water Act

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# NPDES Phase II: Definition of a Stormwater Management Program

- Includes six (6) "minimum controls"
  - Public Education & Outreach
  - Public Participation & Involvement
  - Illicit Discharge Detection & Elimination
  - Construction Site Runoff Control
  - Post-Construction Runoff Control
  - Pollution Prevention & Good Housekeeping

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# NPDES Phase II and the City of Grandview

- October 1, 2016: Missouri State Operating Permit MO-R040000
  - Issued to all Phase II cities in Missouri
  - Outlines the City's responsibilities for each of the six (6) minimum control measures
- October 17, 2017: MDNR conducted an inspection.
  - Evaluation of how the City is implementing activities for the six (6) minimum controls
- February 7, 2018: MDNR issued a Letter of Warning
- March 9, 2018: City provided MDNR a Written Plan for Compliance

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# A 'practical' approach to compliance

- How we….
  - *Communicate*
  - *Protect*
  - *Maintain*

Improve and preserve the quality of water in our local streams.

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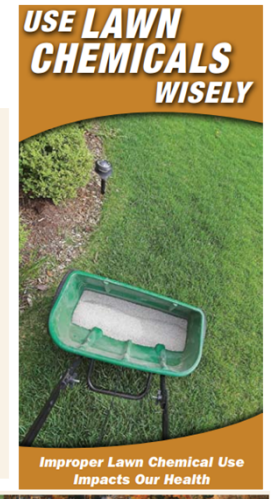
## How we communicate about the quality of water in streams

- Audience
  - City Staff
  - Community
- Where are
  - Opportunities to educate?
  - Existing messages?
- Identify:
  - Other opportunities?
  - Responsible party



Mid-America Regional Council. (n.d.). Pick Up After Your Pet - Water Resources. Retrieved from http://www.marc.org/Environment/Water-Resources/Improving-Water-Quality/

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## How are we protecting our streams during construction

- Audience
  - City Staff
  - Community
  - Contractors
- Where are
  - Existing challenges?
  - Opportunities to educate?
  - Opportunities to improve processes?
- Identify:
  - Needs
  - Next steps
  - Responsible party

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## How can we incorporate stormwater infrastructure that helps preserve our local streams

- Audience
  - City Staff
  - Community
  - Developers
- Where are
  - Existing challenges?
  - Opportunities to incorporate?
  - Opportunities to improve processes?
- Identify:
  - Needs
  - Next Steps
  - Responsible party

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## How do we maintain our stormwater systems for future generations

- Audience
  - City Staff
  - Community
- Where are
  - Existing challenges?
  - Opportunities to incorporate?
  - Opportunities to improve processes?
- Identify:
  - Needs
  - Next Steps
  - Responsible party

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## How do we manage stormwater on our own facilities

- Audience
  - City Staff
  - Community
- Where are
  - Existing challenges?
  - Opportunities to incorporate?
  - Opportunities to improve processes?
- Identify:
  - Needs
  - Next Steps
  - Responsible party

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## Other Resources

- Stormwater Runoff Educational Information: http://www.grandview.org/work/city-government/public-works/sewer/stormwater-runoff
- City of Grandview Stormwater Management Program Plan
- Public Works Facility Runoff Control Plan