

Rain gardens a stormwater solution

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How's this going to go?

- **Introduction to rain gardens**
- **Introduce partners**

Snohomish Conservation District

WSU Extension, Rain Garden Mentors

- **Q&A Panel on rain gardens and rebate program**



Quiz Time

Which city receives the most rain annually?

- Everett
- Spokane
- Seattle
- Olympia



Quiz Answer

- 1. Olympia (48")**
- 2. Seattle (38")**
- 3. Everett (37")**
- 4. Spokane (16")**

Annual rain fall in inches in 2019



How much water is that?



1" rain event = 596 GALLONS

37" a year = 22,117 GALLONS

Square feet (sf) of roof x rainfall in feet x roof efficiency x 7.48 conversion factor = gallons of rainfall



Where does all that rainwater runoff go?

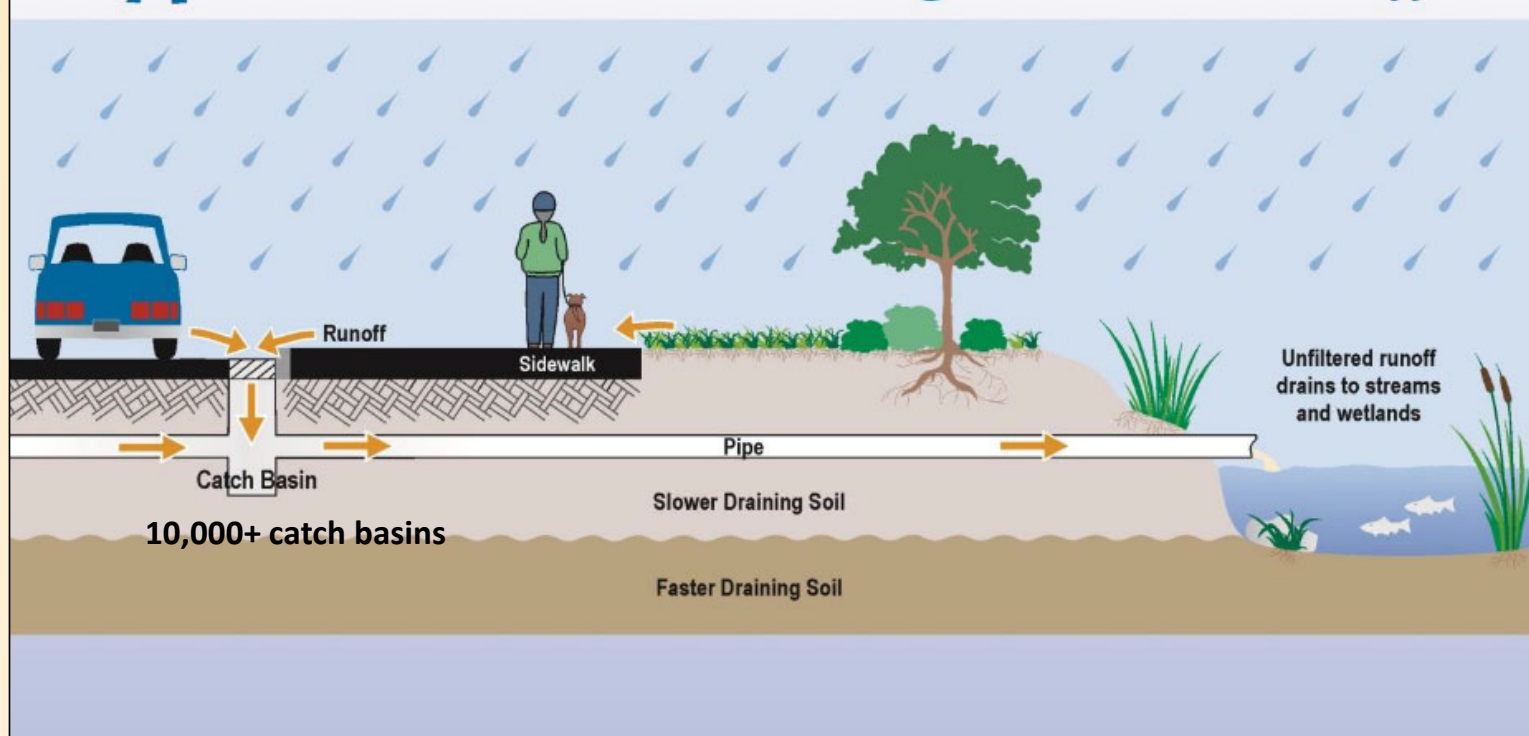


Stormwater runoff travels **untreated** from storm drains to local waterways.



Drainage in your neighborhood

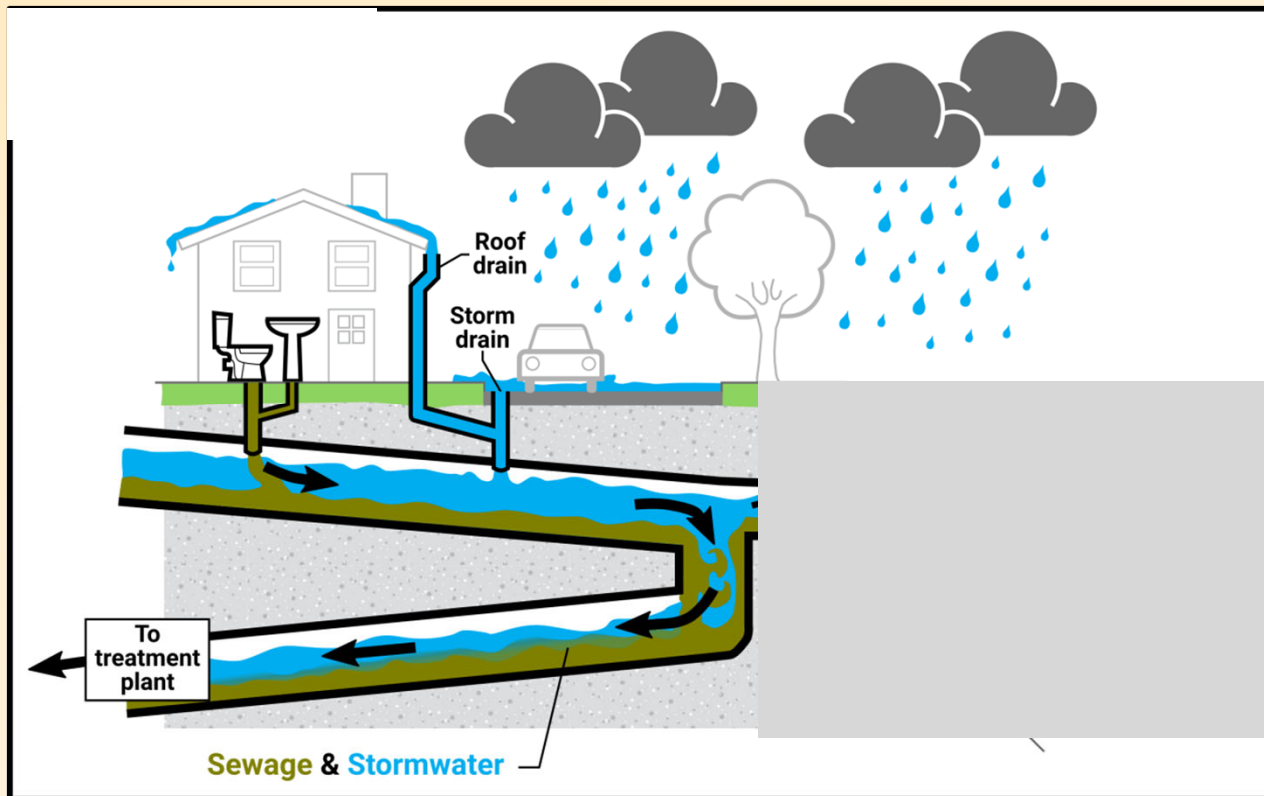
Typical Road Drainage *Water runs off!*



COMBINED sewer and storm system



Drainage in your neighborhood



What's in stormwater?



You can make a difference

Pick up after pet every time. Put in trash can.

Check for car leaks often and fix them.

Use professional car washers, when possible.

When washing car at home, direct water to landscape.

Practice Natural Yard Care on your garden and lawn.

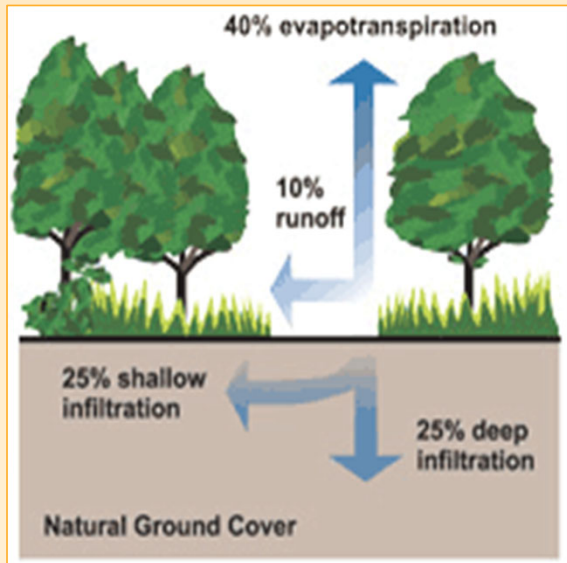
Store toxic chemicals off the ground. Dispose of properly.

Install
GREEN
STORMWATER
INFRASTRUCTURE

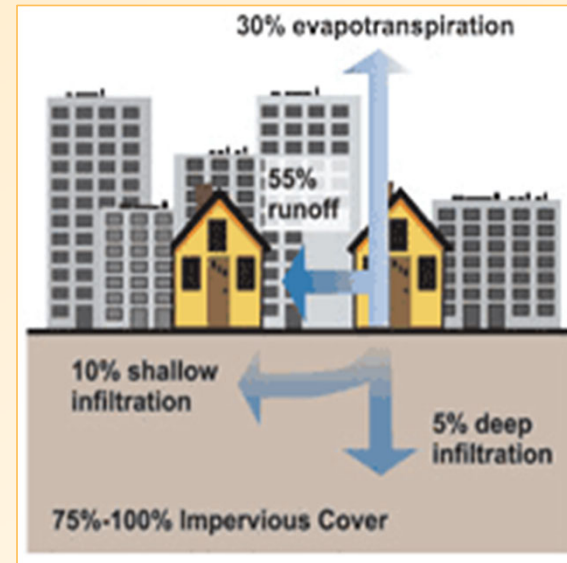


natural vs. urban

nature's way



urban reality



Why green stormwater infrastructure (GSI)?



SLOW

SPREAD

SOAK

FILTER

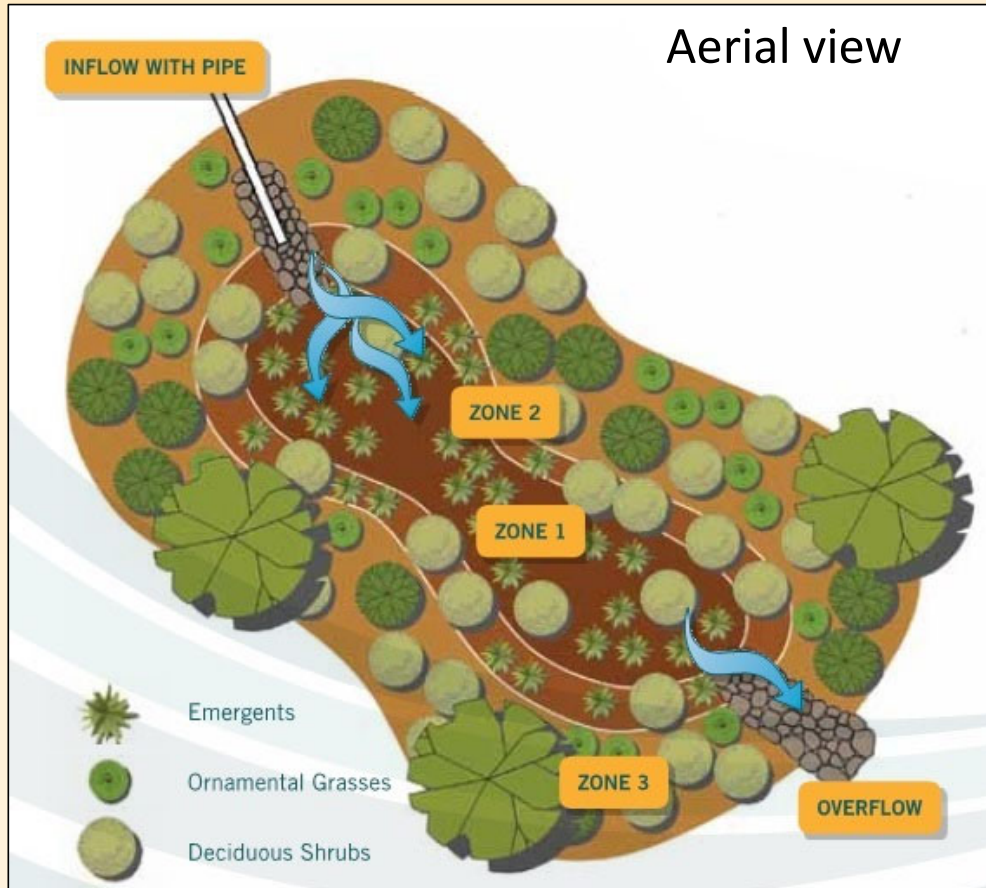
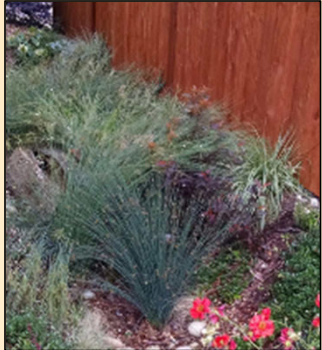
All are important in separated AND combined areas of Everett



How does a rain garden work?



It's all about the zones



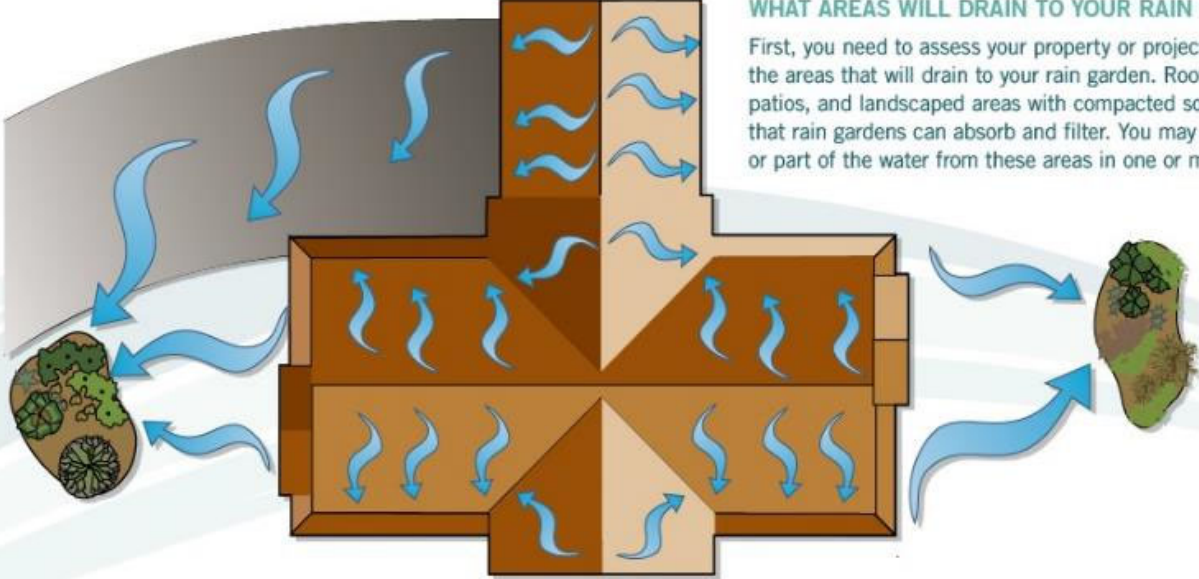
Follow the water

PLAN 1 11

Check Site Drainage

WHAT AREAS WILL DRAIN TO YOUR RAIN GARDEN?

First, you need to assess your property or project site to determine the areas that will drain to your rain garden. Roof tops, driveways, patios, and landscaped areas with compacted soils produce runoff that rain gardens can absorb and filter. You may want to capture all or part of the water from these areas in one or more rain gardens.



Benefits of a rain garden



- reduces property flooding
- enhances landscape
- less lawn to mow
- minimizes stormwater impact
- filters pollutants
- increases habitat



RAIN GARDENS

2016



12,000 
RAIN GARDENS
in Puget Sound



RAIN GARDENS

2014



12,000 
RAIN GARDENS
in Puget Sound



RAIN GARDENS

2017



12,000 
RAIN GARDENS
in Puget Sound



RAIN GARDENS

2014



12,000 
RAIN GARDENS
in Puget Sound



RAIN GARDENS

2016



12,000 
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RAIN GARDENS

2014



12,000 
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Rebate basics

To qualify for a rebate up to \$2,500, you must

1. site assessment with city staff
2. perform a soil infiltration test
3. rain garden design/planting plan
4. city inspection of installation



Are you within the city limits?



Rain garden rebate program

Plan

Build

Plant

Maintain



Site assessment

Plan



YOUR responsibility

1. Call City to schedule site assessment.
2. Have a decision maker at scheduled assessment.
3. Call 811. Utilities marked PRIOR to assessment.
4. Observe movement of water.

DURING assessment, city staff will

1. take pictures,
2. look at downspouts,
3. measure area, and
4. mark locations for soil infiltration tests.

AFTER site assessment, you will

1. Perform soil infiltration tests at chosen spots.



Rain garden design

Plan



Unique partnerships and resources available to you.



Installation & inspection

Build

Plant



YOU



XYZ Contractor



Legal agreements

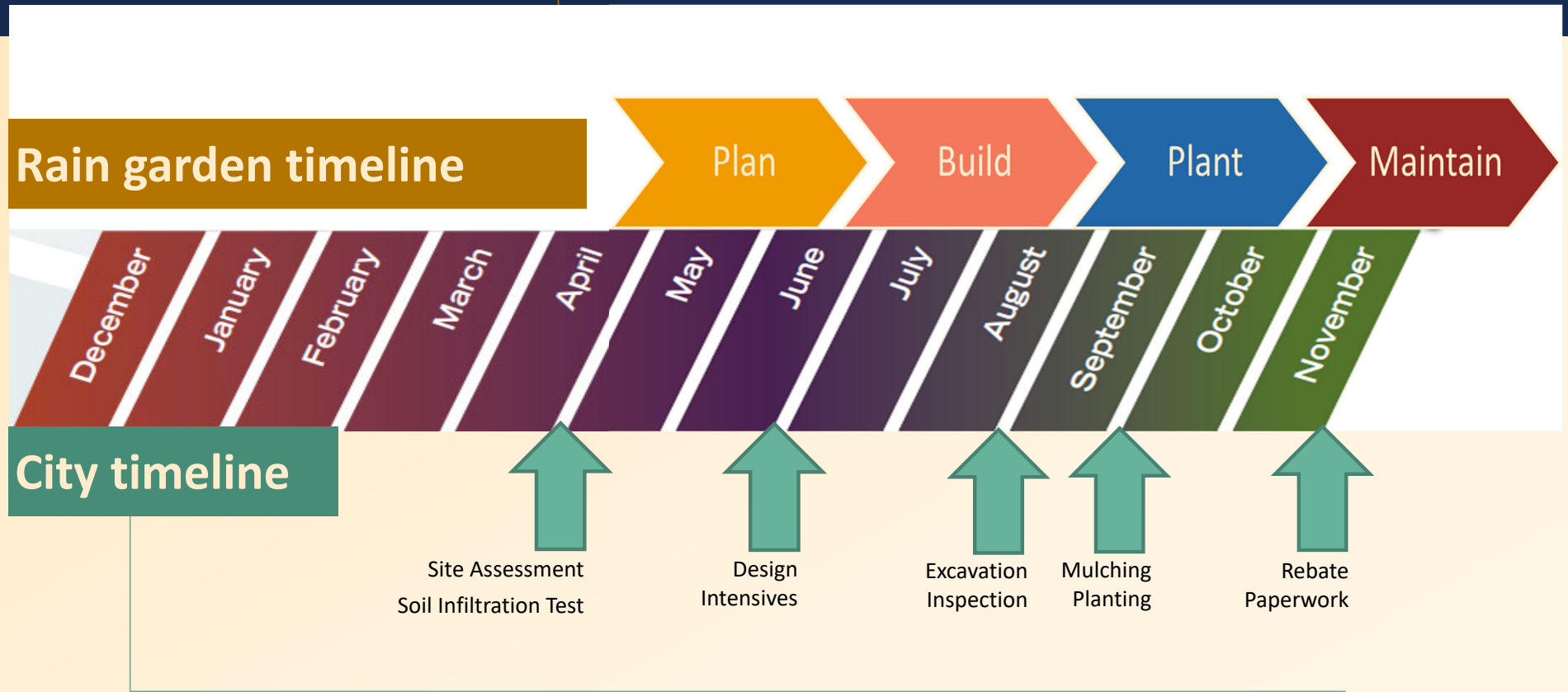
Maintain



- ✓ City stormwater facility
- ✓ Rebate is receipt-based program
- ✓ Statement of Rain Garden Function
- ✓ Rain Garden Maintenance Agreement
- ✓ 10-year, attached to deed



Rebate calendar



Site assessments

- May 5 – May 7
- May 10 – May 14
- May 17 – May 21

9:00 a.m. – 3:00 p.m.

30-minute time slots during business hours

To sign up, contact:

APRYL HYNES

425-257-8992

AHYNES@EVERETTWA.GOV

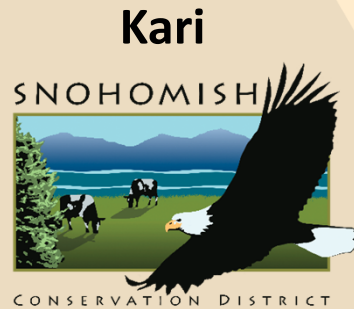




Apryl



Philomena



Kari

David

QUESTIONS?

Sign up for a site assessment:

APRYL HYNES

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