



Stormwater Utility Public Meeting



Why stormwater is a problem

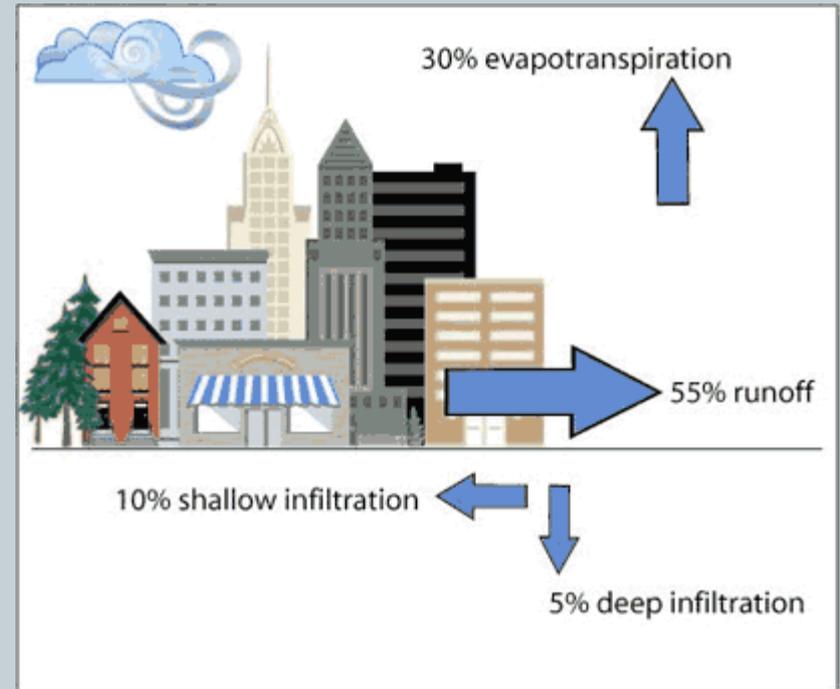
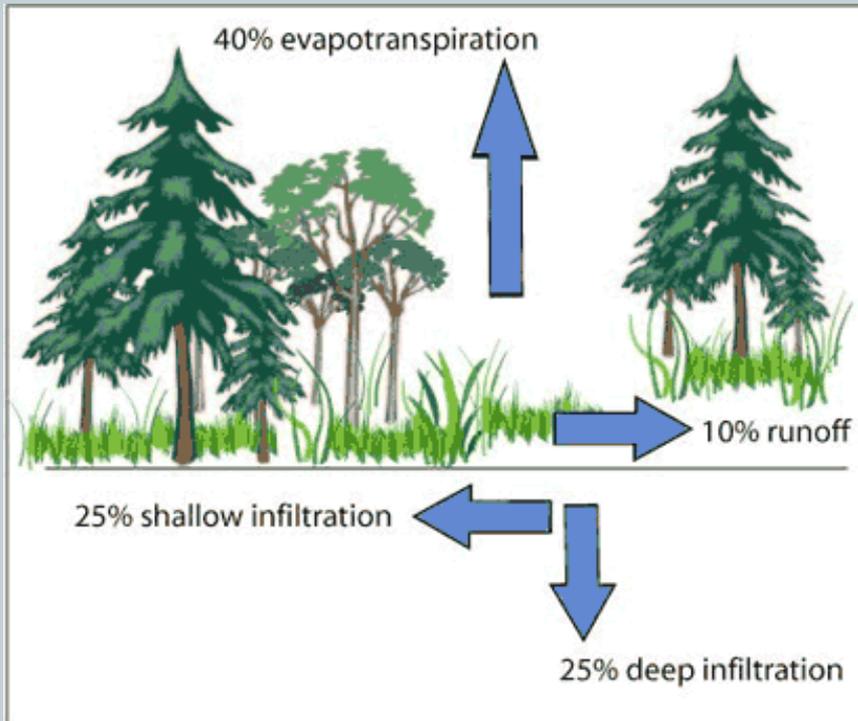


Water entering storm drains flows untreated into streams, rivers, ponds, wetlands, lakes, sounds, bays and oceans.



Why stormwater is a problem?

Impact of impervious surfaces



Drainage System: Annual Maintenance Needs





Project Costs

\$7,000
first year

\$1,000
per year

- **Ditch maintenance**
 - Clear ditches of trash and debris
 - Remove sediment that exceeds 20% of ditch's depth
 - Ensure existing vegetation allows free movement of water throughout ditch
 - Check side slopes for erosion hazards and repair as needed



Project Costs

\$10,000
per year

- Catch basin cleaning
 - 170 catch basins
 - Clean twice per year
 - 2-man crew = 15 basins/day
 - 45 man-days to clean catch basins



Project Costs

\$6,000
per year

- **Storm pipe cleaning**
 - 11,400 linear feet (LF) of pipe
 - Clean annually to maintain maximum capacity
 - 3-man crew = 1,500 LF/day
 - 23 man-days to clean drainage system pipes

Drainage System: Capital Improvement Needs





Project Costs

\$7,000
first year

\$1,000
per year

- Ditch rehabilitation
 - Where:
 - ✦ West of 2nd Avenue
 - ✦ East of Eagle St./1st Avenue
 - ✦ Maryann St./Hwy. 101
 - Problem: Flooding
 - Cause: Poorly maintained ditches
 - Solution: Annual ditch maintenance



Project costs

\$55,000

- **Willow ditch improvements**
 - Where: Willow Street east of Quaker Avenue
 - Problem: Flooding
 - Cause: Undersized pipe and poorly maintained ditches
 - Solution:
 - ✦ Install 200 LF of 24-inch pipe
 - ✦ Annual ditch maintenance



Project costs

\$
Unknown

- **Vandalia improvements**
 - Where: NW Vandalia neighborhood
 - Problem: Flooding
 - Cause: Overtopping of Wallicut River. Ditches not maintained due to utilities running down the middle of them
 - Solution: Relocate utilities?

Stormwater Utility Funding



Current Streets Fund (includes stormwater)



CURRENT STREETS FUND

Revenue

40% Property Tax/MV Fuel Tax Revenue \$ 103,293

Expenses

Streets O&M (includes Storm Drainage O&M) 100,890

Debt payments for previous stormwater loans 32,764

Annual costs for stormwater to Streets Fund \$ 133,654

NET Contribution to Reserves \$ (30,361)

Beginning Balance 1/1/12 18,970

Net Reserve from 2012 (30,361)

Ending Balance 12/31/12 (11,391)

- Currently the Streets Fund is projected to use **\$30,361 more** than it will generate in 2012, or deplete the beginning balance of \$18,970 to **negative \$11,391.**

Proposed Streets & Stormwater Funds



PROPOSED SEPARATE STORMWATER UTILITY FUND AND STREETS FUND

Stormwater Utility Fund

Revenue

Storm Drain Revenue -potential \$70,000

Expenses

Storm Drainage O&M & Construction 30,845

Debt payments for previous stormwater loans 32,674

Annual Storm Drainage costs 63,609

NET Contribution to Reserve \$ 6,391

Beginning Balance 1/1/12 0.00

Net Reserve from 2012 6,391

Ending Balance 12/31/12 \$ 6,391

Street Fund

Revenue

40% PropertyTax/MV Fuel Tax Revenue \$103,293

Expenses

Streets O&M 70,045

Debt payments for previous stormwater loans -

Annual Streets costs 70,045

NET Contribution to Reserve \$ 33,248

Beginning Balance 1/1/12 18,970

Net Reserve from 2012 33,248

Ending Balance 12/31/12 \$52,218

If a separate stormwater fund were created, the property tax and motor vehicle fuel tax revenue would sufficiently cover the actual streets and sidewalk costs, and contribute toward a reserve to be used toward much needed street and sidewalk repairs and construction.

Discussion



PROPERTY CLASSIFICATIONS
BILLING METHODOLOGY

Property classifications



- Type
 - Residential
 - Commercial
 - Agricultural: no fee
 - Government: schools, hospital, state/federal, Port of Ilwaco
 - Special: industrial complexes, shopping centers, etc.
- Developed/undeveloped
- Parcel/lot size
 - Less than 6,000SF
 - More than 6,000SF

Billing methodology



- Monthly or semi-annually?
- Included with monthly water/sewer bills or separate billing?