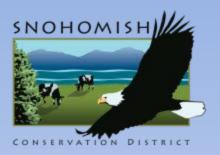


Snohomish Conservation District's mission is to work cooperatively with others to promote and encourage conservation and responsible use of natural resources.

# SCD's Community Conservation Program

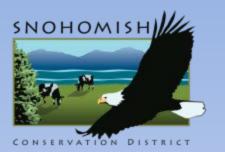
Stacy Aleksich
Community Conservation Program Manager



#### Status of LID

(in Washington)

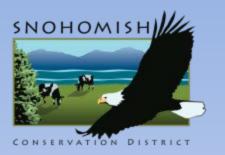
- LID requirements and updated development codes
  - Phase I by June 30, 2015
  - Most Phase II have until December 31, 2016
  - Some are appealing this portion of new permit
- WSU Puyallup Research Center
- Jurisdiction specific requirements
  - Manuals and specifications
- "Bioretention" vs. "Rain Garden"
  - >2000 sf of new or replaced impervious area = bioretention
  - <2000 sf new or replaced (or retrofit) can be rain garden



### Community Conservation Program

- Workshops & Outreach Materials
  - Natural Yard Care
  - Rain Garden Tours
  - Build-your-own Rain Barrel
  - Training for Professionals
- Technical Assistance& Cost Share
- Demonstration projects
  - Rain Gardens
  - Sustainable Landscaping

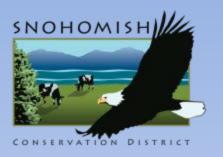




### Stillaguamish LID Remediation Project



Washington Department of **Ecology funded Education &** Outreach Program in the Stillaguamish Basin. **Employing Community Based Marketing strategies** to raise awareness and interest in LID retrofits on private property.

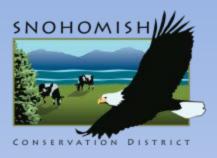


### **Community-based Marketing**

- Phone survey
- Develop new branding and messaging
- Targeted Outreach
  - Demonstration Projects
  - Workshops
  - Open House
- www.betterground.org

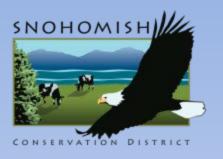


Sound ideas for your land



#### **Early Results & Lessons Learned**

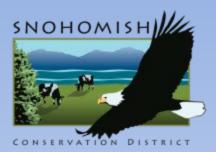
- Word questions carefully half said they had rain garden
- General public is not interested in, or motivated by "saving Puget Sound" or "protecting water quality"
- Targeted outreach was not as successful as traditional
- New messaging needs more testing
- Demographics seem to play a large role in level of interest
- Media challenges getting positive press
- Difficult to reach beyond the "choir"



#### **Conclusions**

- More work to do in getting general public excited about LID retrofits on their property.
- Need to research barriers and motivators.



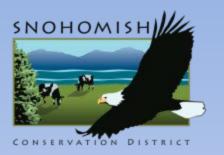


#### North Everett Rain Garden Pilot Project



**Problem**: Neighborhood and basement flooding in Combined Sewer area

**Solutions**: Separate and increase capacity of system, and offer LID solutions to affected neighbors

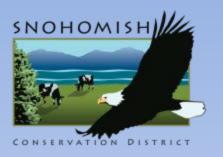


## North Everett Rain Garden Pilot Project SELECTING THE SITES

- Mailer
- Door knocking
- Neighborhood Meeting
- Application Process
- City wide Rain Garden
   Design Workshop

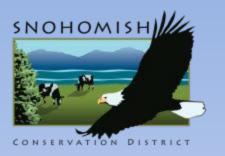






### North Everett Rain Garden Pilot Project SITE ANALYSIS

- SCD preliminary site investigation to narrow list
- Geotech for selected sites
   (AESI Associated Earth Sciences, Inc.)
  - Vashon Lodgement Till, Vashon Recessional Lacustrine
     Sediments, and Vashon Advance Outwash
  - Infiltration rates:
    - Perched groundwater/groundwater seepage
    - One location (outwash) = 1.9 inches per hour
- Challenging elevations



## North Everett Rain Garden Pilot Project DESIGN & CONSTRUCTION

- (1) Infiltrating rain garden
- (1) Seasonal bog garden
- (2) Rain gardens with
  Underground Injection
  Control (UIC) Wells and
  under drains
- (2) Rain Gardens with under drains
- (1) Terraced Rain Garden with under drain







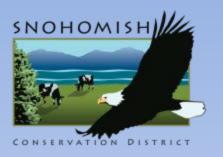










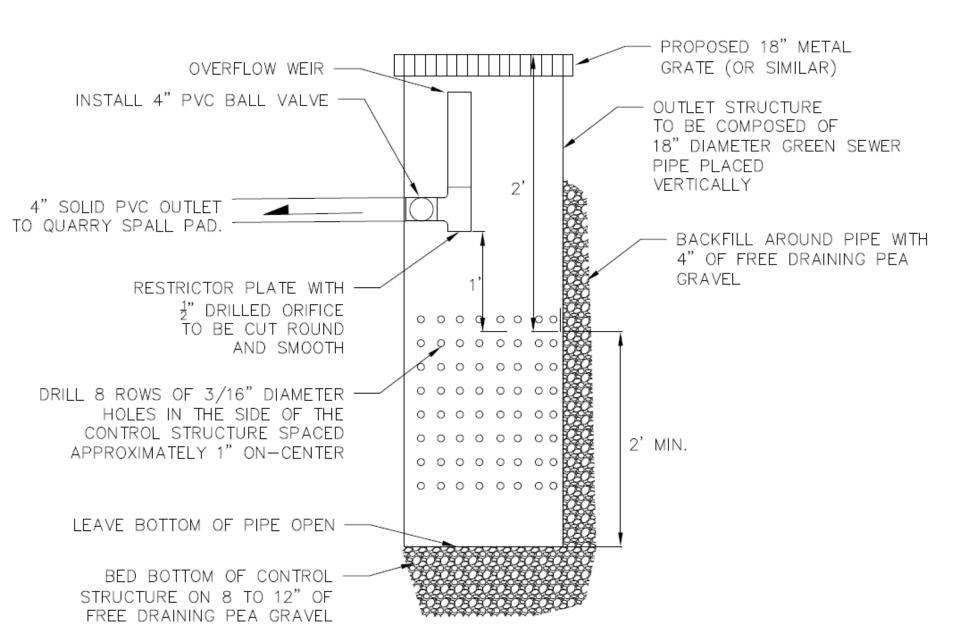


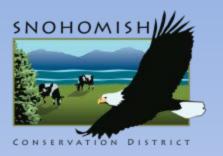
## North Everett Rain Garden Pilot Project LESSONS LEARNED

- All gardens performing better than expected
- Some biofouling on UIC, still working well
- Infiltration data collection
- Community building and other neighborhood improvements
- Spring and Fall tours



### Vertical Under Drain Design

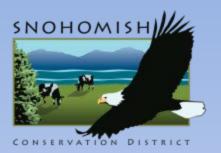




# So, how do you pay for this program??

- Special Assessment
- Interlocal Agreements
   with cities
- Grant funds
- Partnerships





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