


# **Building a water resources outreach program from the ground up**

A high-speed photograph of a single water droplet falling into a pool of water. The droplet is captured mid-fall, just above the surface, with a small splash of water below it. The impact has created a series of concentric ripples that spread outwards from the center. The water is a clear, light blue color, and the lighting is bright, highlighting the droplet's shape and the ripples' texture.

**Heather Slocum  
Kim Kagelaris**

**City of Albany**

# Public Outreach

“Outreach and education can help create an awareness of the value of our water resources, educate people about what’s threatening the resources, and encourage protective action.”

*United States Environmental Protection Agency*

# City of Albany, Oregon



Population 50,520

Located in Oregon's Willamette River valley on the banks of the Willamette and its tributary, the Calapooia River

The city of Albany lies within both [Benton](#) and [Linn](#) counties

Local industries produce:

- Exotic metals
- Wood products
- Food processing
- Manufactured homes



120 Million on water/wastewater infrastructure in last 10 years

# Where to Start?

## Regulatory Outreach Drivers

- **Willamette Basin TMDL**
  - Albany is a DMA
  - 6 stormwater control measures
    - Requires Municipal “Good Housekeeping” program - internal
    - IDDE - Requires external public involvement and outreach
- **Water Management and Conservation Plan**
  - Water conservation outreach
- **Industrial Stormwater Permit – Albany Municipal Airport**
- **SPCC – Albany Municipal Airport**

# The Big Pickup- Listen to the Community Needs

- Safety
  - Drug activity
- Abandoned cars
- Unkempt yards
- Garbage



# Addressing Water Quality Issues

- **Drug Activity-** not really a priority unless we went the prescription drug take back route to help alleviate possible drugs on the street and less entering the waterways. (police)
- **Abandoned Vehicles-** reduce the risk of fluids leaking out of vehicles and entering the storm drains. (police)
- **Unkempt yards-** reduce branches and leaves from entering storm drains and possibility of grass clippings being dumped in nearby storm ditches.
- **Garbage-** reduce the amount of garbage entering storm drains or larger items being dumped along waterways.
- **Storm Drains-** checked out if grates were blocked or if they were marked with the educational message.

**Appliance Recycling:** washers, dryers, refrigerators, water heaters, microwaves, computers, keyboards and monitors. Any scrap metal.

**Tires:**

Tires may be disposed of at the dump site for an additional fee of \$2.

**Do's:**

- Participate in cleaning up your neighborhood!
- Break down larger items if possible.
- Separate trash and recycle items.

**Don'ts:**

- Hazardous waste; oil, chemicals, paint.
- Household garbage.
- Medical waste.

**If you need assistance getting items to the location, please call Heather at 541-791-0058 by May 7, 2010.**



**Sunrise Clean Up  
Saturday, May 15  
8:00a.m. – Noon**

**Neighborhood residents interested in helping with various volunteer projects throughout the neighborhood should meet at Calapooia Middle School**  
Coffee, juice and donuts served  
All neighbors welcome!

**For more information call  
541-917-7507 or 541-917-3208.**

**Sponsored by the City of Albany and Allied  
Waste of Albany-Lebanon.**

**COUPON GOOD FOR  
\$2.00 dump fee  
per load**

**ITEMS ACCEPTED:**  
Rubbish, trash, junk, yard debris, and non-treated scrap wood. Appliance and tire recycling available. *See back for more details.*

# The Big Pickup

## Neighbors helping Neighbors





# The Big Pickup

## Neighbors helping Neighbors



# The Big Pickup

## Spreading the Water Quality Message





# The Big Pickup

By the second year, we decided to combine the spring annual river cleanup and Allied Waste's Recycle Roundup events on the same day as the Big Pickup. This way we could share:



Advertising

Volunteers

Funding

Materials &  
supplies

Thank you to the following businesses that provided food, drinks, supplies, and prizes:



Gatorade

Albany Parks & Recreation



Ray's Food Place

The Home Depot



Tec Labs

Allied Waste Services  
of Albany-Lebanon



Ciddici's Pizza

Cork's Old Fashioned  
Donuts



Columbia

# Encourage Everyone to Participate

Neighborhoods, businesses, organizations, churches, families



# Start off Right



Registration-  
Volunteer Waivers &  
Tasks  
Supplies  
Safety Talk  
Refreshments



# Finish with a Celebration



We would like to thank our community partners  
who have donated supplies and time:

Albany City Council  
Albany First Evangelical Church  
Albany Fitwalkers  
Calapooia Middle School students  
Calapooia Watershed Council  
Central Albany Revitalization Area (CARA)  
Cub Scouts Pack 321 / 328 / 391  
Free on the Inside  
Friends of Mature Albany Trees (FOMAT)  
Girl Scout Troop – 20039 (Daisies)  
Grace Bible Fellowship  
Grace Point Church of the Nazarene  
Hackleman Neighborhood Watch  
Hubby for Hire  
Immanuel Lutheran Church  
International Paper  
Linn County Democrats  
Love INC

Main & Harrison Neighborhood Watch  
Mary's Peak Group  
McDougal Properties LLC.  
Memorial Middle School students  
North Albany Neighborhood Association  
Northwest Keepers Inc.  
Oxford Houses  
Pacific & Western Railroad  
Parkside Meadows  
Sierra Club  
SMR Recycling  
Soroptimist International of Albany  
South Albany Community Church  
Tangent Community Church  
Target Distribution Center  
Willamette Community Church  
20<sup>th</sup> Avenue Neighborhood Watch



# The Big Pickup

## Follow-up Meeting

Everyone present agreed that, on the whole, this was a great event. No one got hurt and we exceeded expectations for neighborhood participation and volume of junk and trash removed.

- A formal budget
- Clear guidelines for all participating neighborhoods. Hackleman did its own flyer which may have included promises of which we were unaware.
- Include Parks Maintenance and Streets crews in final planning meeting before the event.
- Registration sites could be consolidated. Only 12 volunteers showed up at the North Albany site.
- Telephone or radio communication among all staging areas.
- Post hours for the event at staging areas.

# The Big Pickup

## A Volunteers' Reaction

“I hope more people decide that every day is Albany Community Action Day. Instead of a continued habit of littering and thoughtlessness, maybe more people will try to keep our community clean all year long.”

David Anderer



North Albany Middle School students Haylee Burgdorf and Keaton Corrado clear away brush and weeds from near the sidewalk on Gibson Hill Road. (Jesse Skoubo/Democrat-Herald)

Read more: [http://democratherald.com/news/local/big-pickup-volunteers-work-to-clear-albany-sites-of-litter/article\\_329252a8-842a-11e0-984a001cc4c03286.html#ixzz1rZwDBX1Y](http://democratherald.com/news/local/big-pickup-volunteers-work-to-clear-albany-sites-of-litter/article_329252a8-842a-11e0-984a001cc4c03286.html#ixzz1rZwDBX1Y)

# The Big Pickup

## Results from 2008-2011

2008-

**122** Volunteers, 10 city employees, **28,500** Lbs of debris

2009-

**308** Volunteers, 18 city employees, **168,150** Lbs of debris

2010-

**293** Volunteers, 8 city employees, **84,000** Lbs of debris

2011-

**154** Volunteers, 8 city employees, **13,000** Lbs of debris

# The Big Pickup

## Breakdown of volunteers in 2009

	Adults	Kids	Total
River Cleanup	53	36	89
Litter Patrol	57	19	76
Hackleman Neighborhood	35	15	50
Salem/Harrison Neighborhood	28	9	37
Willamette Neighborhood	56	0	56

308

# Youth Outreach School Presentations, Tours and Service Projects

- Teachers are they Key
- Give schools a list of what you offer and a contact
- Opportunity to reach many students

## Results

2006-7	1,075
2007-8	1,192
2008-9	976
2009-10	1,251
2010-11	1,003



## City of Albany Eco Rangers Water Education Programs

### Classroom Programs

#### Water, Water, Everywhere Grade K-2 Time: 45 minutes

Students will identify water as a natural resource and learn how important it is for all life. They will learn that water comes in different forms and moves in a cycle on our earth. Booklets used in classroom activity and students will be able to take these home. Spanish booklets available.

#### Eco Rangers Grade 3 Time 1 hour

This program teaches students about the water cycle, watersheds, surface water pollution, stormwater management, water conservation, and wastewater treatment.

#### The Story of Drinking Water Grade 4-5 Time: 1 hour

Where does our water come from when we turn on the tap?

### Scheduling A Presentation Is Easy!

Ready to schedule a presentation?  
First, we need the following information:

- Your name and school
- The presentation that you're interested in
- The date, time, and place you prefer
- The approximate size of the audience

#### We do the rest!

To set up an appointment or get further information on funds and other options, contact:

Heather Slocum 541-791-0058  
Heather.slocum@cityofalbany.net  
or

Kim Kagelaris 541-791-0087  
Kim.kagelaris@cityofalbany.net



## 2011-2012

Albany's Public Works department offers FREE water related classroom programs within the City of Albany. Many of our programs use hands-on materials and activities. We can tailor a presentation for almost any water-related topic a teacher can dream up.

How does the water get to the house?  
How do we keep it safe to drink? Why is conservation important? We will answer these questions and more. Booklets used in classroom activity.

#### After the Flush Grade 5-8 Time: 45 minutes

What happens after the flush? This program uses kitchen wizardry and hands-on activities to understand the fascinating trip our wastewater takes to come clean.

#### Watershed Health Grade 6-8 Time: 45 minutes

What is a watershed? Why is it important to me? We start with a 20 minute DVD called "From Sea To Summit" and finish by learning ways we can all help our watershed.



Want to take your class on a tour of a treatment plant or to a local creek for water testing? We can help provide transportation, equipment, & supervision.

### Staff Assistance

We are happy to help you with your needs:

- Ideas
- Financial Support/ Finding Grants
- Research
- Scheduling Tours
- Lesson Plans
- Extra set of hands
- Service Learning Projects

### Other Options

#### Tours

Albany/Millersburg:  
Water Treatment Plant  
Water Reclamation Facility  
Talking Water Gardens

#### In-Class Activities

School/Home water audits  
Water filter construction

#### Outdoor Activities

Water quality testing  
Storm drain activities  
Watershed nature walk  
Invasive/Native plant ID

# Youth Outreach Resources

Supplies – “borrow” from streets, water, etc.

Schools – funding for boots, transportation, substitutes, etc.

Fall/Winter 2010  
Volume 1, Issue 1



#### Inside:

Page 1: Introduction to Eco Rangers Program

Page 2: Environmental Grant & Past Projects

Page 3: Teachers Making A Difference

Page 4: Grants & Natural Resource Partners



#### Eco Ranger

#### Tips

Here are a few simple tips that can reduce our impact on the natural environment:

Turn off the faucet while brushing your teeth

Turn off the lights when not in use

Learn more about the Eco Rangers Program

For more information contact Heather Slocum at 541-791-0058  
[heather.slocum@cityofalbany.net](mailto:heather.slocum@cityofalbany.net)

#### City of Albany's Environmental Outreach News



This is the first bi-annual e-newsletter created for teachers, students, and concerned citizens in the City of Albany. It was put together by the staff in the Environmental Services group, a division of the Albany's Public Works Department. Our goal is simply to provide tools for effective stewardship of Albany's significant natural resources.

#### *Introducing Eco Rangers*

Over the last four years, the City of Albany Environmental Services department has been conducting outreach programs to educate the community about our local water resources and the impact humans have on the natural world. We have focused on many issues including watershed protection, water conservation, surface water pollution, water and wastewater treatment, and partnership and volunteer activities. We decided it was time to really promote our program and encourage others to get involved through AWARENESS, EDUCATION, and ACTION.

We created the “Eco Rangers” program to represent the volunteers who participate as keepers of our local ecosystem. Our program will continue to focus on youth environmental education while strengthening ties with the local schools and community partners. The Eco Rangers program will provide an assortment of classroom lessons, field trips, and special events designed to educate, entertain, and allow students an opportunity to be active environmental stewards. After all, management of these natural resources will one day be turned over to these students.



High school students collect litter during a “Down by the Riverside” cleanup event.



# Youth Outreach Service Learning



North Albany Middle School's rain garden was constructed by Roger Stephens' Hands-on Science class. It is a great example of a project on school grounds that students, staff, and visitors will be able to appreciate for many years.





# Youth Outreach

## Branding our Program

- TMDL task
  - “create Albany brand for water quality education”



# National Public Works Week



# Prescription Drug Turn-In Event

**National Drug Take Back Event** – coordinated by Drug Enforcement Administration in cooperation with local law enforcement agencies.

Saturday, March 13, 2010

- 271 participants
- 175 lbs of prescription drugs

Partnerships:

City of Albany Police & Environmental Services departments, Linn County Sherriff, Linn Together



# Prescription Drug Turn-In Event



# 24/7 Prescription Drug Drop Box

The Albany Police Department maintains a drug drop box available 24 hours a day, seven days a week. When citizens no longer need prescription medication, the excess can be anonymously dropped off for destruction.

- The box is checked and emptied three times per week.
- Sept. 16, 2010 to Feb. 17, 2011  
545 lbs of medication was collected in the box
- Aug 29, 2011 to Sept. 5, 2011

The APD examined the contents of the drop box. 516 controlled prescription drugs (CPDs) were identified. The CPDs collected during this one week period exceeded all of the seizures of CPDs for drug cases in the previous eight months (491 CPDs).



# Meeting Water Quality Standards

## A new opportunity for outreach

### Talking Water Gardens

- **Temperature reduction** to meet permit compliance for Albany-Millersburg and ATI Wah Chang and protect sensitive fish habitat.
- **Restored riparian forest and wetlands**
- **Restored wildlife habitat** in an industrial zone
- **Public access and education**
- **A unique partnership** between municipality and industry



# Talking Water Gardens



ALBANY-MILLERSBURG

# Talking Water GARDENS

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*a PARTNERSHIP for ENGINEERED wetland SCIENCE*



# Aerial Photo viewing south west in June 2011





# Southern Influent Point without plants



# Southern Influent Point with plants and water



# Log Pond Viewing South



# Log Pond Viewing South



# Log Pond Viewing South with plants



# Connection to the Community

## Future Environmental Education Activities

Talking Water Gardens will be a place for visitors to learn about water treatment, view wildlife, and enjoy walking on the trails. It has created a living laboratory that brings wetland science to life for K-12 and university students. Future amenities will be added such as educational boards, benches, and viewing areas as funding becomes available.



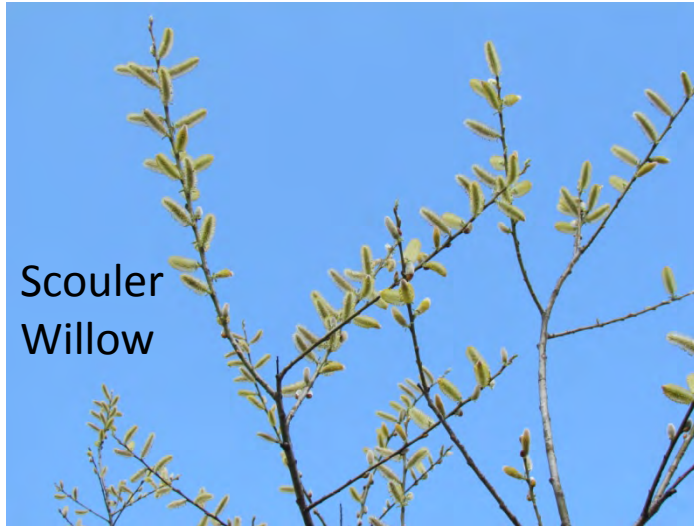


# Plants and Trees at Talking Water Gardens

Wapato



Scouler  
Willow



Water Lily



Red Flowering  
Current



Oregon  
White Oak

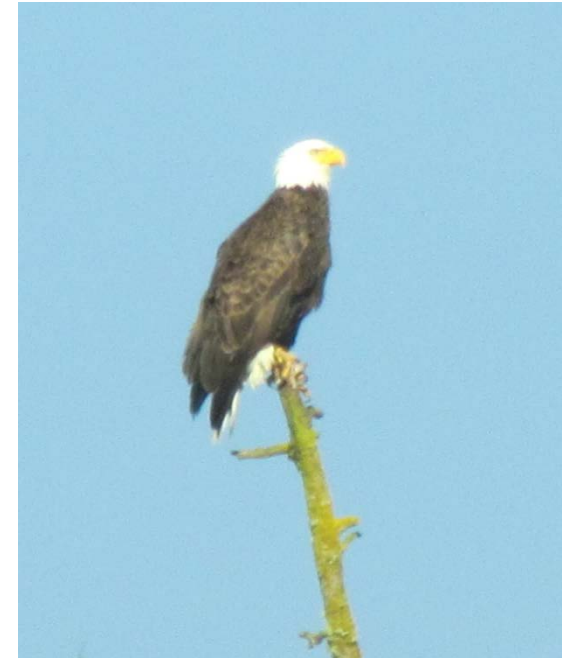


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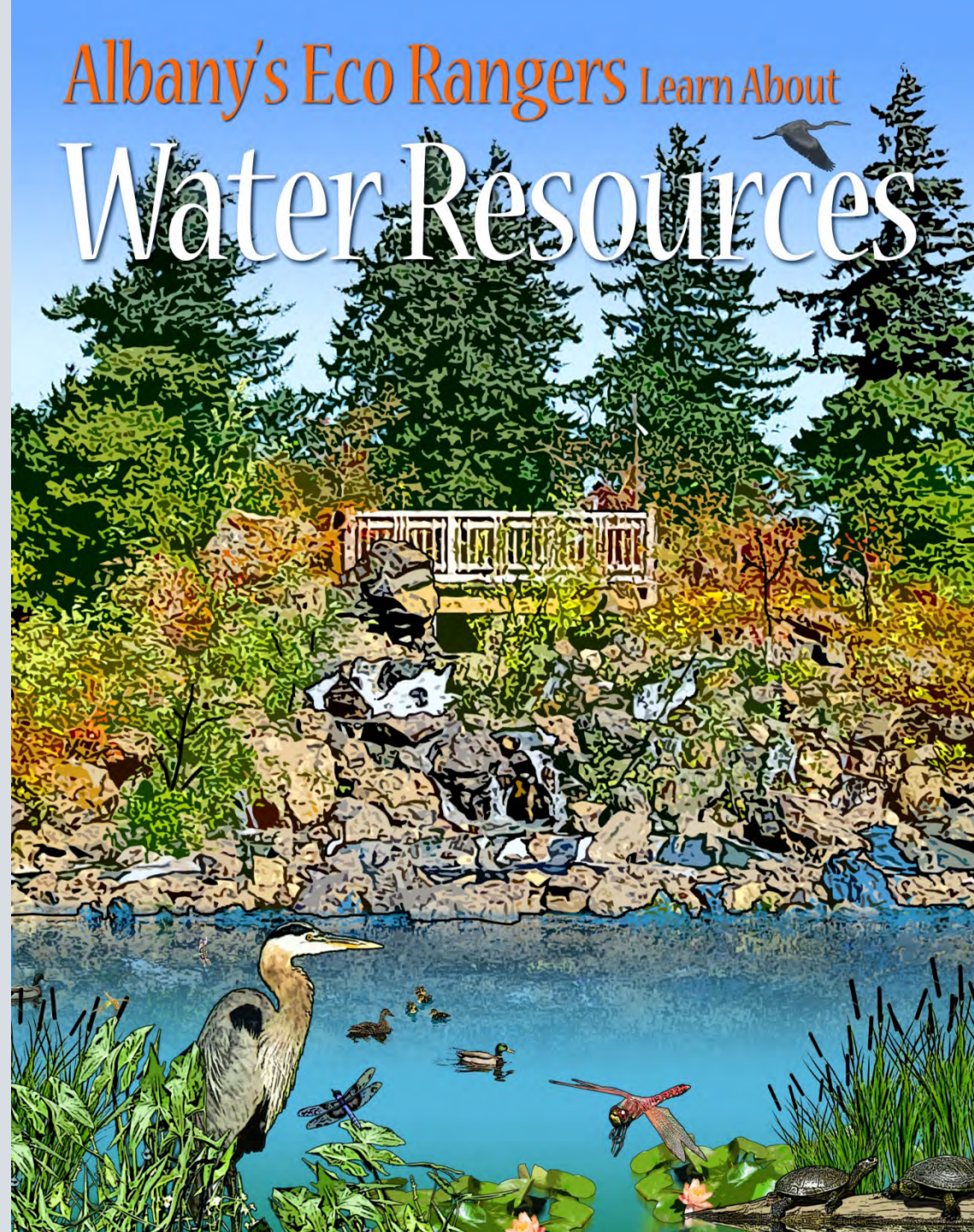


# Wildlife Returning to the Site



# Educate the Public on Water Quality

- TMDL task
  - “develop informational material for adults/youth”



# Other Water Outreach Opportunities

## Procession of the Species Parade



# Educating about Water Quality Inside the Organization

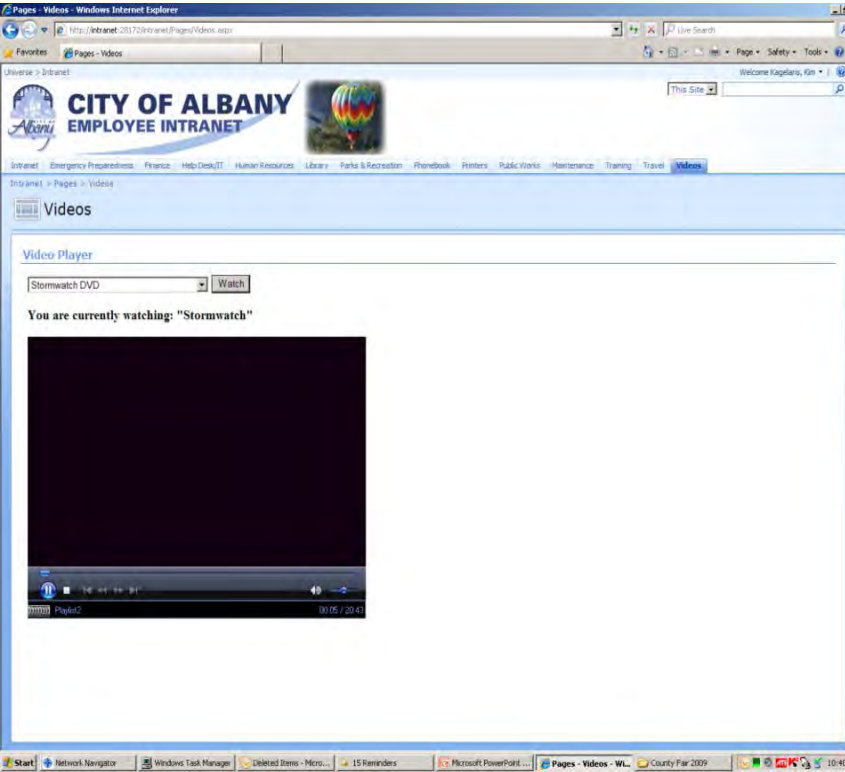
Bring Your Child to Work Day



# Internal Training and Communication

- **Training Type**
  - Video on the intranet
  - In person presentation
  - BMP “handout”
- **Determine Staff that requires training “high risk areas”**
  - PW Operations
  - Parks Maintenance
  - Building and Facility Maintenance
  - Fire Department
  - Supervisors and line staff
- **Strategies –** some worked better than others
  - AFD – training Lieutenant (get on their schedule, come up with “scenario”)
  - Smaller “work” group vs. larger safety meetings
  - Scheduling with shifts
  - Narrow/target a few items, vary from year to year (overall, spill kit introduction, etc.)
  - Must get management support – go to supervisor’s or manager’s meetings first
  - Share information! (intranet, send updated plans, ask for input, follow council minutes, etc.)
- **Staff input about issues they see during their job that need public outreach**
  - What not to flush (WWC)
    - SSO reduction
  - Leaves and Dirt blown into street (Streets)
    - Stormwater P2

# City of Albany Intranet Stormwater Video



## The River Starts Here

...and the river starts with you. The Oregon Department of Environmental Quality is requiring the City of Albany to help improve the water quality of the Willamette River.

Best Management Practices (BMPs) are simple behavior changes and actions which prevent or reduce pollutants (trash, oil and grease, fertilizers, sediment, bacteria, soaps, etc.) from getting into storm drains, which lead directly to the River. As a public agency, we are required to implement BMPs. Please take the River's health personally by putting these BMPs into action in your work area. Thank You!



Contact: Kim Kagelaris,  
Environmental Services  
541-791-0087

## “Good Housekeeping” BMP handout

### Pollution Prevention

- Always label materials
- Choose less toxic alternatives
- Only buy and use what you need
- Properly dispose of or recycle waste chemicals and materials
- Preventive Maintenance – keep vehicles and equipment in good working order and schedule repairs promptly

### Washing

- (local and state regulations do not permit washwater to enter the storm water system)
- Wash equipment and vehicles in designated areas where washwater drains to the sanitary sewer or pervious ground (grass or gravel)
  - Buildings may be washed with NO soap and cold water only
  - Wash vehicles at a commercial carwash which drains to the sanitary sewer

### Good Housekeeping

- Keep work areas neat and orderly
- Keep unused containers closed tightly
- Use drip pans if you spot a leak or drip
- Sweep, don't hose down
- Close dumpster lids
- Use secondary containment
- Dispose of wastes properly

### Cover

- Store materials inside or under cover
- Repair and maintain equipment indoors or under cover
- Move leaky equipment indoors until it can be fixed
- Use a drop cloth or tarp if you're outside
- If you must store materials outside, keep them away from inlets and place in secondary containment

### IF THERE'S A SPILL... Prompt dry clean-up – never hose down a spill!

- Attend training, know where your facility's spill response kit is located, block the storm drain
- Dispose of clean-up wastes properly
- Call the main Public Works Operations number at 917-7600 to report the spill and/or for spill response assistance.

Contact Public Works

To report a public water, sewer, street, or stormwater emergency, please call **541-917-7800**

**Administration:**  
333 Broadalbin St SW  
Albany, OR 97321  
Phone: 541-917-7676  
Fax: 541-917-7573

**Operations:**  
310 Waverly Drive NE  
Albany, OR 97321  
Phone: 541-917-7600  
Afterhours: 541-967-6233

Biosolids Program

- ▣ Environmental Management System
- ▣ Frequently Asked Questions

Industrial Pretreatment

- ▣ Local Limits on Pollutant Discharge
- ▣ Restaurants and Food Preparation
- ▣ What Businesses Are Affected?

Willamette Basin TDML

Water-Efficient Plants for the Willamette Valley

What Not to Flush

Accredited by the

# What Not to Flush

Just because the package says "flushable" doesn't mean it's true. Many items marketed as disposable and/or flushable do NOT degrade like toilet paper, and they wind up clogging pipes, tangling pumps and causing messy sewer backups into streets, businesses and your home. This increases the City's maintenance costs to fix pumps and clean City sewer pipes.

The drains that connect your home to the main sewer are only big enough to carry water, toilet paper and human waste - often no wider than 4 inches.

- Diapers (cloth, disposable, "flushable")
- Facial tissues, cotton balls, swabs and pads
- Cleaning wipes of ANY kind (baby wipes, disinfectant wipes, moist wipes, etc.)
- Toilet bowl scrub pads
- Swiffers
- Napkins (paper or cloth), paper towels
- Dental floss
- Egg shells, nutshells, and coffeegrounds
- Fats, oils, and greases
- Hair
- Sanitary napkins, tampons, condoms, or any non-organic material
- Vitamins, medicines or other pharmaceuticals  
(in Albany take unwanted medication to the Albany Police Department for proper disposal—it's FREE!)
- Wash cloths, towels, rags (any cloth item)
- Clothing
- Sheet plastic, or plastic of any kind
- Hazardous materials (bring to the Allied Waste Household Hazardous Waste Roundup—it's FREE!)
- Bandages or bandaids
- Kitty litter

## Is it Really Flushable?

The introduction of various "flushable" products into the wastewater collection system has changed the characteristics of sewage. While these products, such as handwipes, facial tissues, feminine hygiene products, and other things like floss



# Proper Yard Waste Disposal

## KEEP GRASS, LEAVES AND BRANCHES OUT OF THE STREETS AND STORM DRAINS:

When large amounts of leaves, grass, branches and other yard waste are put in the storm drain system, or blown into the street and gutter, they can lead to flooding and water pollution.

## IT IS ILLEGAL TO PUT YARD WASTE INTO STREETS AND STORM DRAINS.

- To report illegal dumping of yard waste, call 541-917-7600.
- For information about residential yard waste collection, call Allied Waste at 541-928-2551.



CITY OF ALBANY PUBLIC WORKS  
541-917-7600



# Eliminación apropiada de basura vegetal

## LA HIERBA, LAS HOJAS, Y LOS RAMOS DEBEN MANTENERSE FUERA DE LAS CALLES Y LOS DESAGUADEROS:

Cuando cantidades grandes de hojas, hierba, ramos y otra basura vegetal se meten en el sistema de desagüeros, o se soplan hacia la calle y el canalón, pueden causar inundaciones y contaminación del agua.

## ES CONTRA LA LEY METERSE LA BASURA VEGETAL EN LAS CALLES Y DESAGUADEROS.

- Para reportar el depósito de basura vegetal, llame a 541-917-7600.
- Para información acerca de la recogida de la basura vegetal, llame a Allied Waste a 541-928-2551.



CITY OF ALBANY PUBLIC WORKS  
541-917-7600



TMDL – IDDE outreach

Also requested by PW  
Streets Supervisor

Sent to 60+  
landscapers in  
Albany/Corvallis

Internal staff  
resources:

design

Spanish translation

Printing



# Collaboration and Partnerships

- **OSU**
  - **Extension**
    - Master Gardeners (Brown Bag lunch series, Garden tour)
    - Well Water program (Basic Rural living class – GWAMA)
  - **4-H**
- **SWCD**
  - Weed workshop
  - Aquatic weed workshop (Thornton Lake)
  - Grants – OWEB small grants (up to \$10,000)
- **Albany Downtown Association**
- **Church groups**
  - “Green team” at First United Methodist Church
- **Other City departments**
  - Planning
  - Parks

# THIS IS LITTER TOO.



## Please use the Butt can.

What happens after that butt gets casually flicked onto the street, nature trail, or beach? Typically wind and rain carry the cigarette into the water supply, where the toxic chemicals the cigarette filter was designed to trap leak out into aquatic ecosystems, threatening the quality of the water and many aquatic lifeforms. Cigarette butts may seem small, but with several trillion butts littered every year, the toxic chemicals add up!



Let's Keep  
Albany Clean

This message brought to you by the City of Albany and the Albany Downtown Association  
For more information, contact Kim Kagelaris, City of Albany Environmental Services 541-791-0087  
Supported by funding from Philip Morris USA, an Altria Company

Developed with  
ADA to distribute  
to downtown  
restaurants

“Butt” can  
purchased by PW,  
installed by ADA  
.....stolen!

- TMDL task
  - “educate homeowners about septic system maintenance and how to detect failures”

# FREE

## Rural Living Basics: Well Water and Septic Systems

This class is designed for rural residents to learn the basics of your drinking water well and septic systems to protect the health of your family, neighbors and animals, your property investment, and the safety of groundwater resources.

**September 23rd, 2010**

**6:00 to 8:00 p.m.**

**Harrisburg Justice Center**

**354 Smith Street**

**Harrisburg, Oregon**

The class is free and open to the public. Pre-registration is appreciated to ensure adequate supplies. To register, call Chrissy at (541) 766-3556 or send an e-mail to [Chrissy.lucas@oregonstate.edu](mailto:Chrissy.lucas@oregonstate.edu)

[For a free nitrate screening of your drinking water, please bring approximately a cup of well water in a clean container.](#)

The event is sponsored by OSU Extension Service and the Southern Willamette Valley Groundwater Management Area.

Oregon State University Extension Service offers educational programs, activities, and materials—without discrimination based on race, color, religion, sex, sexual orientation, national origin, age, marital status—as required by Title VI of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, and Section 504 of the Rehabilitation Act of 1973. Oregon State University Extension Service is an Equal Opportunity Employer.

**OSU**  
**Oregon State**  
UNIVERSITY  
Extension Service

# Watershed Councils

- Grant assistance
- Volunteer recruitment
- Free watershed signs to place in City Park
- SEP funding - CWC chose to spend in Albany on Cox Creek project
- Volunteer leader assistance
- Albany Reach Project
- “Adopted” mainstem Willamette through Albany
  - New local stakeholder group = “W-STAR”
- Landowner recruitment
- Workshops in Albany (Benton SWCD/CWC)
  - Weed workshop
  - Aquatic weed workshop (Thornton Lake)

# **FREE!** Neighborhood Workshop Invasive Plants: learn how to combat them

*Please join us on Saturday November 19<sup>th</sup>  
at the Fairmount Grange Hall from 1:00-4:00 pm*

## **You will...**

### **HEAR FROM REPRESENTATIVES OF**

- Benton County Roads Department • Benton Soil & Water Conservation District
- Calapooia Watershed Council • City of Albany • Friends of East Thornton Lake
- OSU Forestry & Natural Resources Extension Marion Polk & Yamhill Counties

### **LEARN TO IDENTIFY THE INVADERS**

- False Brome • English Ivy • Blackberry • Knotweed and more!

### **DEVELOP A PLAN**

- Sign up for a free weed inventory • Develop a plan for weed control
- Identify resources that can help • Receive help with weed control efforts

### **ENJOY REFRESHMENTS**

- Provided by Friends of East Thornton Lake

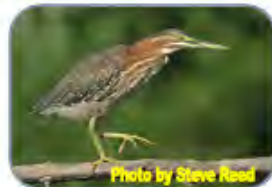


*The Thornton Lake Area has many natural features worth protecting...*



**Western Pond Turtle:** a native Oregon turtle that is declining because of habitat loss but can be helped by private landowners who provide suitable habitat.

**Recovering Oak Savanna:** Willamette Valley's oak savannas are one of the rarest ecosystems in North America. They are a biological and cultural legacy that support unique plant and animal communities.



**Green Heron:** One of the only birds that uses tools, such as worms and twigs, as lures for fishing. These beautiful birds are highly sensitive to habitat disturbance.

For more information, contact Heath Keirstead  
541-753-7208 Benton Soil & Water Conservation District

**You can protect your  
property from the threat  
of invasive species.**

# The Calapooia Watershed

## What is a Watershed?





Everyone is part of a watershed, and the City of Albany and surrounding lands are part of several watersheds, including the Calapooia Watershed. A watershed is an area of land drained by a river and its tributaries. This watershed takes its name from the Calapooia River which begins in forested foothills of the Cascade Mountains flows west across the Willamette Valley, eventually joining with the Willamette River here in Bryant Park.



The Calapooia Watershed is a patchwork of different land uses and habitats.

## Habitats

The Calapooia Watershed is home to many forms of life that find food, water and shelter in unique and diverse habitats. Shaded streams with deep pools and downed wood provide a variety of spawning and juvenile rearing habitats for native fish species, including spring Chinook salmon and winter steelhead. Off-channel ponds, marshy wetlands and wet prairies are inhabited by amphibians, reptiles and birds. Oak savanna and oak woodlands interspersed with native pines provide a home for upland birds, mammals and a great diversity of plant species, including native grasses and forbs. The symbols to the right represent habitats of high ecological value for plants and animals found in the Calapooia Watershed.

-  Native fish
-  Aquatic amphibians and reptiles
-  Wet prairie species and grassland birds
-  Upland species

## Land Use

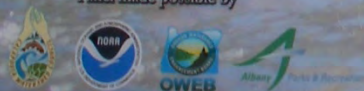
When people modify the natural environment these changes are called land use practices. Forestry, agriculture and human settlements are examples of land use practices. Because everything is connected in a watershed, how people choose to manage their property can positively or negatively impact plants, animals and overall watershed health. These map symbols represent major land uses in the Calapooia Watershed.

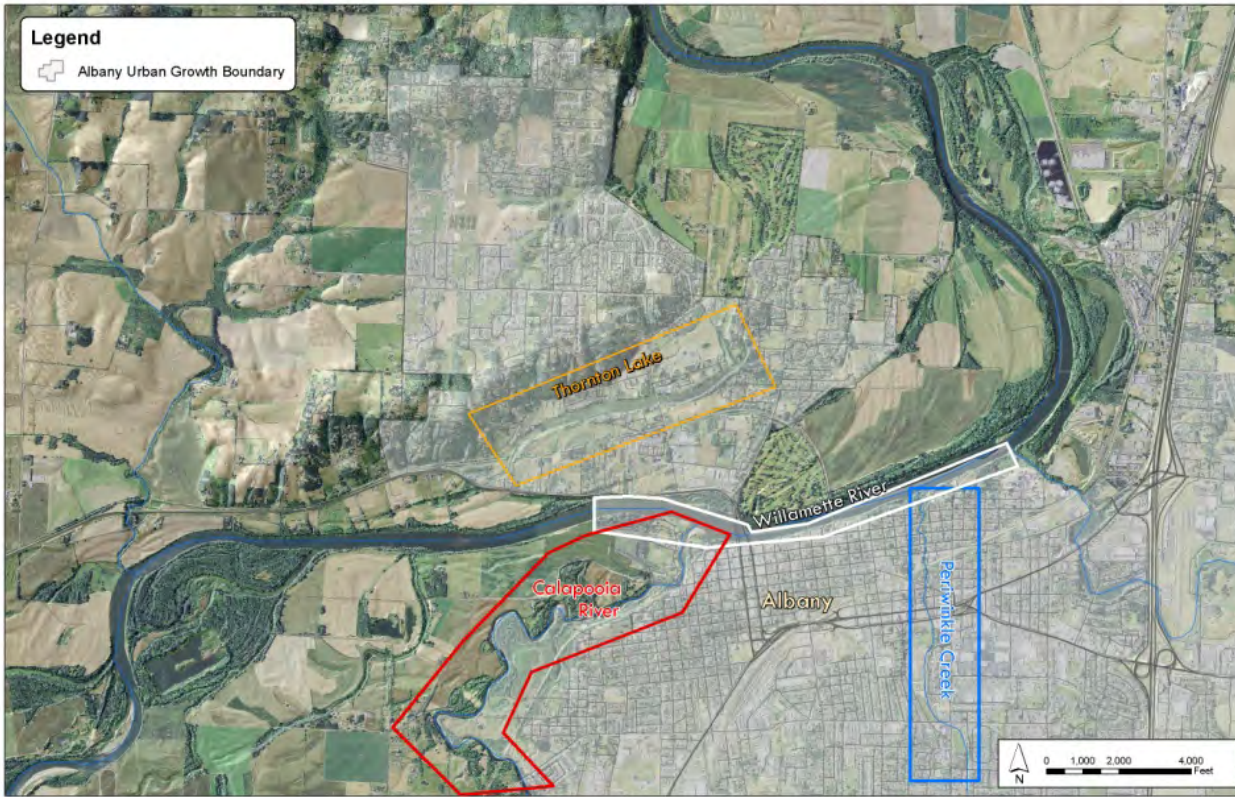
-  Private timber industry
-  Agriculture
-  Livestock production
-  Residential areas



0 1.25 2.5 5 Miles

Panel made possible by





# CWC /City of Albany Albany Floodplain Enhancement

**Involve a local teacher**



# Other City Departments/Projects

- Periwinkle Park Planting Project
  - Collaborative effort, pooled resources of PW, Community Development and Parks (variety of goals = shared result)
  - CWC provided planting plan assistance
  - Hired local nursery for plants and planting support
- Swanson CoolPool Rain Garden
  - Parks/PW project funded by OWEB small grant (grant writing support by CWC and NSWC)
  - Planted by St. Mary's school students
  - Mulched by neighborhood "EcoRanger" group
    - *Remember to Thank volunteers (sent St. Mary's school a certificate signed by City Manager)*



Please join us and get your  
“Green On” this St. Patrick’s  
Day at Periwinkle Park

DATE: SATURDAY - MARCH 17, 2012

TIME: 10:00 A.M.—NOON

Join the City of Albany staff  
volunteers and neighbors in  
this effort to restore native  
trees and vegetation along  
Periwinkle Creek and create a  
model riparian plant garden.



FOR MORE INFORMATION OR  
TO RSVP, CONTACT:

[anne.catlin@cityofalbany.net](mailto:anne.catlin@cityofalbany.net)

541-917-7550

PLANTING PARTY

PERIWINKLE PARK IS LOCATED AT 2298 21ST AVE SE

# Periwinkle Park Planting



200+ native plants and shrubs, 4 large trees, City staff “volunteers”, neighborhood “Eco Rangers” group, local school kids spread mulch, Principal giving lessons on watershed health



# Swanson Cool Pool Rain Garden Parks/PW with OWEB small grant

“Before” Photo



St Mary's kids and Parks staff



# Master Gardener



# Neighborhood "EcoRanger" group



# Albany Water Efficient Garden (AWE)

- “New” library
  - Landscaping
  - Offered to install Water efficient Demonstration garden as part of the landscaping
  - St. Mary’s and NAMS students grew plants and planted
  - Part of the Linn Master Gardener’s Garden tour
  - Brown Bag lunch series
    - Master Gardener gave talk at the library and featured plants in the AWE garden

*Showcasing the resilience, beauty and diversity of  
water efficient plants*

## MORE INFORMATION

AWE Garden brochures and plant list are available in the library and on the city's website:

<http://www.cityofalbany.net/publicworks/water/tips.php>

**Water Efficient Plants of the  
Willamette Valley**

[http://www.cityofalbany.net/publicworks/env\\_services/efficient-plants/index.htm](http://www.cityofalbany.net/publicworks/env_services/efficient-plants/index.htm)

**Garden Smart Oregon**

<http://www.opb.org/programs/invasives/extras/gardensmartguide.pdf>

## FREE Outdoor Conservation Audits

The City offers free outdoor water efficiency audits from May—July. Contact Kim Kagelaris at 541-220-0312 or [kim.kagelaris@cityofalbany.net](mailto:kim.kagelaris@cityofalbany.net)

More home water efficiency tips available:  
<http://www.cityofalbany.net/publicworks/water/tips.php>



Yarrow



*Welcome to the ...*



Located at the  
northwest  
corner of the  
main  
Library

2450 14th Ave SE

# Save time, money and water ...

## WATER

It's important to use water efficiently even in the Willamette Valley where we seem to have a lot of rain! Think about our climate...most of our rain falls in the winter and we have dry, warm summers.

**Municipal water use can double or triple in the summer.** Water Efficient plants require 30% - 50% less water than a lawn.

## BENEFITS

By using water efficiently we leave more water in streams for fish, other aquatic animals, and us humans to enjoy!

- lower water bill
- Less yard waste to manage
- Less maintenance once plants are established
- Less lawn mowing, gas, and emissions
- Less cost for new pipes to carry water
- Less energy to treat and transport water
- Less polluted runoff



*Black-eyed Susan*



## GOING WATER EFFICIENT

Water efficient landscaping is not barren rocks and cactus! That's why the City, with the help of St. Mary's and North Albany MS students, planted the AWE Garden. Please stop by, enjoy over 25 water efficient plant species and get some ideas for your yard. Plant list available at the library and on online at: <http://www.cityofalbany.net/publicworks/water/tips.php>



*Before*



*After*

*Ice Plant*



## THE 7 PRINCIPLES

As well as choosing water efficient plants, there are other steps to achieving water efficient landscaping :

1. Create a plan
2. Look after your soil—compost and cultivate
3. Use turf only where you need it—consider water efficient groundcovers or hardscape
4. Put the right plant in the right place and group plants with like water and sun needs
5. Water Wisely—the biggest mistake is watering too much
6. Use Mulch
7. Keep up the maintenance



*Cone Flower*

# Enjoy a beautiful yard



# Getting the word out to the Public

City Hall Display case – FREE!





Smart Irrigation Month

# Tap Into Existing events

- College events
  - LBCC sustainability day
- Community Events
  - MG garden tour
  - Linn County Fair
  - Farmer's Market Community booth
- Local HHW Round-up
  - Offer advertisement
- LCOG
  - Legacy Chemical Collection Event (old ag chemicals)
- Great Willamette River Clean-up
  - Willamette Riverkeeper
- City Events
  - America's Night Out
  - Parks Dedications
  - Parks and Recreation Classes
  - Senior Center

# Linn County Fair




# Utility Bill Text and Stuffers

- Involve your UB staff in process
- Advertise water conservation audits and free water kits
  - Color gets people's attention
  - Cost - \$1700 for design, print, ship to vendor for 17,000 inserts
  - Cost \$170 for stuffing
- “Free” to put limited text on bill
  - Very few calls when we tried this cost saving option




# Wasting Water Doesn't Make Cents.



**If you live** or have a business in Albany and irrigate your lawn, you qualify for a **FREE** irrigation audit. Our trained staff will show you practical ways to reduce your water usage and maintain a healthy lawn. Call (541) 220-0312 to schedule your audit.

An efficient garden hose sprayer, and other tools to conserve water (and money) outside your home are available to you in a **FREE OUTDOOR WATER CONSERVATION KIT**. Limited quantities available  
May 1 - July 31.



Get yours today from the  
**Albany Public Works Department:**  
City Hall (2nd floor)  
333 Broadalbin Street SW  
Albany, OR 97321

8 ½" x 11"

Advertising audit  
and free kits

Cost reduced by printing  
locally and shipping to  
California for stuffing

Note: "limited  
quantities" and  
timeframe wording

# SAVE MONEY AND WATER

Many households use double or triple the amount of water in the summer. Take advantage of these conservation programs and tips.

Get a **FREE** irrigation audit and learn practical ways to reduce water usage! If you have a home or business in Albany and irrigate your lawn, you qualify! Call (541) 220-0312 to schedule your audit.



Stop by the Public Works counter at City Hall (333 Broadalbin Street SW, 2nd floor) to get your **FREE Outdoor Water Saving Kit**. The kit includes an efficient hose sprayer and rain/sprinkler gauge.

\* Limited Quantities Available June - Aug.



DRAFT

Two-sided Audit ad plus tips

Added online sign-up form

# LAWN WATERING

## HOW OFTEN

Deeply but infrequently, 2 – 3 times per week

## HOW MUCH

Rule of thumb for the Willamette Valley is 1 inch per week for grass and ½ inch for established shrubs. Measure your sprinkler using the gauge in the free water saving kit!

## WHEN

Water in the early morning or evening to prevent water loss due to evaporation.

## Other helpful hints:

- Use a broom instead of hose to clean driveways and sidewalks.
- Adjust sprinklers so they only water what will grow
- Use an auto shut-off nozzle when washing your car (get a **FREE** one at City Hall!)
- Reduce the amount of thirsty lawn and replace it with water efficient plants. Visit the Albany Water Efficient (AWE) garden at the Main Library, 2450 14th Avenue SE, library to view beautiful water efficient plants that require less water and maintenance than grass



For more information about water conservation please call Kim Kagelaris, City of Albany, 541-220-0312 or [kim.kagelaris@cityofalbany.net](mailto:kim.kagelaris@cityofalbany.net).

More tips available at:  
<http://www.cityofalbany.net/departments/public-works>

## Water Conservation

Your water and sewer bill consists of fixed "base charges" plus consumption charges.

You can save water and money by reducing your consumption through simple water conservation measures! Interested? Please contact Kim Kagelaris for more information!



City of Albany  
<http://www.cityofalbany.net/>

Public Works Department  
 PO Box 490  
 Albany, OR 97321-0144



## RESIDENTIAL Water and Sewer bills

### WATER CONSERVATION TIPS:

- Fix leaks
- Install low flow aerators on faucets
- Take shorter showers
- Run washing machines and dishwashers only when full
- Use drip irrigation for shrubs
- Mow your lawn 2"-3" high
- Irrigate your lawn deeply but infrequently or not at all!

Water Efficient Garden Information at:  
<http://www.cityofalbany.net/efficientplants>

### For more information Water Conservation

Kim Kagelaris  
 Environmental Services Technician  
 Phone: 541-791-0087  
 Fax: 541-917-7607  
 E-mail: [kim.kagelaris@cityofalbany.net](mailto:kim.kagelaris@cityofalbany.net)

### Billing Questions

(541) 917-7547  
[utilitybilling@cityofalbany.net](mailto:utilitybilling@cityofalbany.net)

### Residential water fees

Each residential customer receives a combined monthly water and sewer bill. Charges are computed as follows:

Monthly water bill =  
 Base (fixed) charge + Consumption charge

Meter Size	Base Charge	1st 6 units	Over 6 units
3/4" or less	\$16.25	\$3.62 ea	\$2.29 ea
1"	\$23.73	\$3.62	\$2.29
1 1/2"	\$54.09	\$3.62	\$2.29
2"	\$86.58	\$3.62	\$2.29

January 2011 rates

Your monthly utility bill also includes a low income assistance charge, currently \$0.35.

#### Definitions

Ccf = one unit = one hundred cubic feet = 748 gal

Residential Customer = a customer whose meter serves only one single-family dwelling unit.

Avg Winter Water Use = monthly average water consumption using the monthly water meter readings for Nov, Dec, Jan, and Feb.

### Residential sewer fees

Monthly sewer bill =  
 Base (fixed) charge + volume charge

Effective July 1	Fixed Charges	Volume Rates per unit
Fiscal Year 2009-2010	\$26.153	\$1.844 ea
Fiscal Year 2010-2011	\$27.99	\$1.973 ea

The volume charge is calculated using your average winter water use (see definition box). That means you don't pay sewer charges for water used outside, such as for irrigation, in the summer! Each July your sewer bill is adjusted using monthly average meter readings from the previous winter. No water usage history yet? Then the city uses the residential average of 8 units to calculate your bill.

Typical Residential Monthly Utility Bill  
 (assume 3/4" water meter and 8 units monthly use)

Water Portion:  
 $\$16.25 + (\$3.62 \times 6) + (\$2.29 \times 2) = \$42.55$

Sewer Portion:  
 $\$27.99 + (\$1.973 \times 8) = \$43.77$   
 Low Income assistance: = \$0.35

Total Monthly Billing: \$86.67

### How water and sewer fees are used

#### Water and sewer fees pay for:

- Operating and maintaining the City's Wastewater Treatment Plant providing secondary treatment using the activated sludge process.
- Treating almost three billion gallons of wastewater per year.
- Processing over 700 dry tons of biosolids per year.
- Operating, inspecting, maintaining, and cleaning of wastewater infrastructure including 220 miles of pipe and 20 lift stations.
- Operating and maintaining two water treatment plants, with combined capacity of treating 28 million gallons per day.
- Maintaining the water distribution system consisting of five storage reservoirs and about 190 miles of pipeline.
- Investing in capital improvements.
- Performing over 2100 water quality tests.



Only Rain Down the Drain...If you see  
Storm Water Pollution, REPORT IT!  
Call 541-917-7600



City of Albany Public Works Department

# IDDE magnet giveaway “brand”

artwork = \$700

(to be used in Albany Water  
Resources booklet)

200 magnets = \$187.50

display in City Hall  
magnets given away at  
Farmer’s market, Fair, Senior  
Center, ran article in City  
Newsletter

# Newsletters

- City Newsletter
  - Previously printed quarterly, now electronic monthly
  - 190 subscribers
- Newsletters from other groups that will run your information
  - ADA
  - Linn Master Gardeners
  - Watershed Council
  - North Albany Neighborhood Association
  - Industrial Pretreatment
  - Neighborhood Association
    - Enviro tip of the month

# In the News



**Could your neighborhood be next?**

**Hundreds expected for 'Big Pickup' day in Albany**

***How much litter: Amazing!***

**Albany cleanup project tops 300 volunteers**

**Sun to smile on big pickup Saturday**

***Cleaning up Albany***

# Local Newspaper

City works to rid streets of cigarette litter - Windows Internet Explorer

http://democratherald.com/news/local/city-works-to-rid-streets-of-cigarette-litter/article\_a84f20c6-a5a0-11de-9247-001cc4c03286.html

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## City works to rid streets of cigarette litter

Story Discussion Font Size: [ - ] [ + ]

By Cathy Ingalls, Democrat Herald | Posted: Sunday, September 20, 2009 4:00 am | (7) Comments

retweet



Al Sparks is a fisherman, and when he walks around downtown Albany it distresses him to see all of the cigarette butts smokers have left on the streets, sidewalks and in the alleys.

"My concern is the butts are getting into storm drains and then into the rivers and into fish habitats," he said. "People may think this is a small thing, but it isn't, and it's getting worse."

Sparks, 67, took his complaint to the city to see what could be done.

The public works environmental services staff is working on "this growing problem," said city spokeswoman Marilyn Smith. "Heedless smokers are throwing their butts on the ground, apparently unaware that they are littering, creating blight and befouling storm water and ultimately fish habitat."

Because the problem is especially pronounced in the downtown area, the city asked Sparks and other volunteers to clean up the area on May 16 as part of

50° F

Sponsored by: Albany Stoves 541-928-4986

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**OSU Beat Writer: Cliff Kirkpatrick**

- Spring practice Day 5

### Latest Offers & Events


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Mid-Valley

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Start Calendar - Microsoft Out... 14 Reminders Network Navigator City works to rid stre... City of Albany, Oregon -... Microsoft PowerPoint - [...]

9:19 AM



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# Reminder: Pick up your pet's waste



50° F  
Sponsored by:  
**Albany Stoves**  
541-928-4986

Story Discussion Font Size: - +

By Cathy Ingalls, Albany Democrat-Herald | Posted: Wednesday, July 7, 2010 2:30 pm | 1 Comment

retweet

Each of the estimated 12,000 dogs living in Albany produces 0.33 pounds of solid waste per day that unless picked up can cause environmental problems and affect peoples' health.

"That's why we want to remind pet owners about why they need to pick up after their dogs," said Kim Kagelaris, the city's environmental services technician. "Animal waste contains bacteria and other microorganisms that can impact water quality when it washes into ditches and storm drains."

Albany's storm water is not treated, so organisms in pet waste can find their way into Cox and Periwinkle creeks, Waverly Lake and the Calapooia and Willamette rivers.

Once in the water, Kagelaris said, pet waste can release ammonia, contribute extra nutrients that encourage unwanted algae growth and cause oxygen levels in the water to drop.

"Studies around the country have found that almost 20 percent of bacteria found in waterways can be traced back to dogs," she said.

Pet owners also are encouraged to pick up after their dogs in their yards and while on walks.



OSU Beat Writer:  
Cliff Kirkpatrick

Mid-Valley | Facebook | Twitter | YouTube | Tweet | Get a 4-week subscription free!

# Front Page of ADH, Water Quality PR=Fail



**PR – win** training Lieutenant Henke called me to report mobile washer discharging to storm (onsite) and AFD spent \$30k installing wash rack at FS #12 with \$12K budgeted this year

# Free Stuff

- USDA NRCS [www.nrcs.usda.gov](http://www.nrcs.usda.gov)
  - Lots of posters, brochures, etc.
- Free “volunteer” labor
  - School work crews (funded by grants) used to install storm drain markers
- Home Depot – store manager has limited monthly “discretionary” funds available in form of gift card
- SWCD, Extension offices – free or inexpensive brochures, pamphlets, items you can borrow/checkout

# Challenges

- Reduction in staff
- Limited staff time (ES plus graphics/web staff)
- Budget constraints
- More technical oriented staff tasked with outreach/training
- Resistance to Behavior change



**Eco Rangers Water Bottle on the Willamette!**



**Thank you for your attention.....Questions?**