



## Potential “Management” Options

### Ideas For Reducing the Risks of Contamination to Drinking Water

#### **Commercial/Industrial Land Uses**

Employee education / notification using:

- Local media (TV, Radio, Newspaper either paid or Public Service Announcements)
- Letters to land owners/operators
- Bill stuffers/customer mailings
- Hold educational meetings/workshops/fairs
- Post signs including spill response contacts

Distribute fact sheets or newsletters about drinking water protection, include:

- “Best Management Practices (BMP)” for specific businesses
- Hazardous waste collection opportunities
- Information on pollution prevention
- Information on stormwater risks
- Information on septic systems use and maintenance
- Information on drywell/injection well/sump use, maintenance and abandonment
- Construction / demolition BMPs

Encourage participation in “Pollution Prevention (P2)” and waste reduction projects

- Host P2 meetings with DEQ or city staff speakers
- Offer free web research for P2 projects for specific businesses
- Open house workshops
- One-on-one assistance from peer businesses
- Ensure existing requirements are being met (Toxics Use and Hazardous Waste Reduction law of 1989)
- Partner with DEQ’s Toxic Use Reduction staff
- Survey owners to assess current practices and provide TA based on results

Provide financial incentives

- P2 tax credits
- Low interest loans
- Direct subsidies/cost sharing
- Secure grants or funding to provide incentives
- Institute a local tax on pollution
- Provide information on pollution liability and potential costs

Facilitate employee-training workshops (some taught by agency personnel at no cost)

- Pollution prevention/waste reduction (use of alternatives)
- Petroleum/hazardous waste/maintenance chemicals use, storage, disposal
- Chemical applicators license for pesticides
- Extension Service training for proper pesticide use

Facilitate business mentoring program / information sharing among commercial/industrial sites

Provide recognition for “Environmentally Friendly Businesses” (eg., EcoLogical program of Auto Repair shops)

- Green awards
- Plaques, flags, signs, door stickers, buttons for employees

Provide information at Planning / Permits Department on whether the activity they are proposing will impact groundwater upon permit application

Encourage public education by private sector – education at point of sale

- Pamphlet distribution at home and garden shops
- Partner with home improvement shops to have them include DWP and P2 at their seminars for projects that could impact water quality
- Provide lists of “best environmental alternative” next to home and garden products

Fund a public education/outreach coordinator to focus on specific areas

Set up a publicly coordinated resource center or forum for small businesses

- Set up local materials exchange program (or publicize existing programs)
- Monitor required BMPs for compliance (questionnaires, reporting, inspections, etc.)
- Disclosure of release data (make pollutant release data more available to public i.e. TRI data)
- Promote hazardous waste collection
  - Coordinate/facilitate hazardous waste collection (for small businesses)
  - Host an amnesty (free disposal) program for chemicals stored in DWPA
- Stormwater control / pretreatment – encourage BMPs
- Spill response plans
  - Notify responsible parties (i.e. County, ODOT, railroads, businesses) of location within DWPA
  - Encourage and assist with spill response planning for specific groups of businesses
- Stormdrain stenciling program – cost share
- Zoning ordinances (overlay map, special permitting requirements, selected chemical ban, DCLD's Goal 5 Resource Area designation and protection)
- Land acquisition – acquire grants for purchase of public lands
- Partner with public agencies to become active in state programs (local implementation)
  - Examples:
    - Site Assessment – work with DEQ's Site Assessment program to evaluate sites that may require cleanup
    - Environmental Cleanup sites – review status, permit and monitoring network; city staff can review sampling results from groundwater monitoring during site investigation and cleanup activities (data is public record)
    - Underground Storage Tanks - review status, permit and monitoring network
    - Dry Cleaners - work with DEQ's dry cleaner program to get information out on P2 opportunities and cleanup cost reimbursement
    - Waste Minimization/Pollution Prevention – partner with DEQ's technical assistance team
    - Injection wells/Sumps/Drywells – verify permit status, encourage elimination and/or maintenance
    - Landfills/transfer stations – review status, permit and monitoring network
- Water conservation program
  - Provide technical assistance for reducing water use
  - Develop rate structure that encourages conservation
  - Rebate program for water efficient appliances
  - Partner with Oregon Water Resources Department

## **Residential Land Uses**

- Public Education/Notification using:
  - Local media (TV, radio, newspaper - either paid or Public Service Announcements)
  - Letters to residents
  - Bill stuffers/customer mailings
  - Hold educational meetings/workshops/fairs
- Distribute fact sheets or a newsletter on DWP, BMPs, and available resources including:
  - Household hazardous waste
  - Septic systems use, maintenance, and abandonment
  - Pollution prevention/waste reduction in the home (use of alternatives)
  - Lawn and garden maintenance
  - Home heating oil tank maintenance and abandonment
  - Proper well construction, maintenance, and abandonment
  - Drywells/sumps use, maintenance and abandonment
- Fund a public education/outreach coordinator
- Provide educational programs and/or speakers in the schools
- Install signs – “Entering DWPA...” include spill response contacts
- Stormdrain stenciling program (i.e. “drains to your drinking water”)
- Facilitate household hazardous waste collection events
- Maintain low density in residential areas (large lot zoning)
- Property purchase / donation program
  - Conservation easement purchase
  - Encourage voluntary deed restrictions
  - Land acquisition through donation/lease program
  - Land set-asides in developments (more green space)

Cost-share or provide technical assistance for periodic inspection and maintenance of septic systems  
Encourage proper household water well maintenance / abandonment  
    Cost-share or provide grants for proper well abandonment  
    Provide technical assistance for private well management practices, maintenance, and abandonment procedures  
    Host workshops for private well owners – taught by OSU Extension Service  
Encourage water conservation program through rebate program for water efficient appliances, public education, odd/even watering etc.

### **Municipal Land Uses** (parks, maintenance facilities, sumps, nurseries, etc.)

Facilitate training workshops

- Chemical applicators license for pesticides
- Pollution prevention/waste reduction (use of alternatives)
- Petroleum/hazardous waste/maintenance chemicals use, storage, disposal

Spill Response Plans

- Notify local Emergency Response Planners of DWPA location
- Ensure public water system notification in spill event
- Establish / review spill response procedures and plans
- Notify responsible parties of location within DWPA
- Construct spill containment/diversion structures at wellheads
- Set up regional spill number if necessary
- Provide fire department and spill responders with good maps of storm and sanitary sewer systems

Urban Runoff/Stormwater Program

- Injection wells/sumps/drywells - verify permit status, encourage registration, elimination/proper maintenance
- Stormwater Control/Pretreatment
- Encourage use of pre-treatment and BMPs (detention ponds, retention ponds, vegetated swales and filter strips, urban forestry, sand filters), street cleaning, parking lot pretreatment requirements.

Property Purchase/Donation Program

- Conservation easement purchase
- Encourage voluntary deed restrictions
- Land acquisition
- Land set-asides in developments (more green space)
- Land donation/lease program

Golf courses – educational materials / BMPs

Landfills / transfer stations – review status, permit and monitoring network

Maintenance / fueling areas - see management options for commercial/industrial

Consider community sewage collection and treatment system installation where necessary

Initiate volunteer monitoring program for municipal lands

### **Agricultural Land Uses** (see also 'Residential' for Rural homeowners)

Public education / notification using:

- Letters to land owners / growers
- Educational meetings/workshops/fairs for growers
- Survey owners to assess current practices

Set up a publicly coordinated resource center or forum

Facilitate training / workshops staffed by ODA, Extension Service, or DEQ

- Chemical applicators license for pesticides
- Fertilizer storage and handling BMPs
- Livestock waste storage and treatment
- Pollution prevention/waste reduction (use of alternatives)
- Petroleum/hazardous waste/maintenance chemicals use, storage, disposal

Facilitate mentoring program and information sharing among owners / growers

- Provide financial incentives for BMPs
  - Secure tax credits, grants, or funding to provide incentives
  - Low interest loans
  - Direct subsidies/cost sharing (i.e. for well abandonment, PCAP installation, and hazardous waste roundup)
  - Institute a local tax on pollution
  - Provide information on pollution liability and potential costs
- Provide recognition for “Environmentally Friendly Practices”
  - Green awards; signs for fences adjacent to crops (for public recognition)
- Set up local materials exchange program (or publicize existing programs)
- Conservation easement purchase – coordinate with NRCS

### **Miscellaneous - Transportation Corridors**

- Notify local Emergency Response Planners of DWPA location
- Notify responsible parties (i.e. County, ODOT, railroads, businesses) of location within DWPA
- Establish / review spill response procedures
- Ensure public water system notification in spill event
- Set up regional spill number
- Provide fire department and spill responders with good maps of storm and sanitary sewer systems
- Request conservative practices for right-of-way maintenance
- Regulate hazardous materials transport