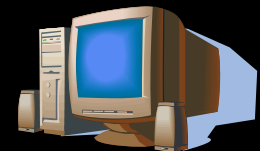
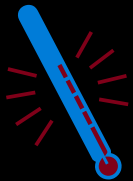


# MRW Initiative

## Implementation Progress

- Time for 5-year update to Beyond Waste Plan, including MRW Initiative
- Update on progress made with the MRW Initiative's 10 Recommendations
- An updated plan will come out soon and we want your input



## MRW Initiative

### 10 recommendations in MRW Initiative:

MRW1: Prioritize substances to pursue

MRW2: Reduce threats from mercury

MRW3: Reduce threats from PBDEs

MRW4: Develop electronics product stewardship infrastructure

MRW5: Ensure proper use of pesticides, including effective alternatives

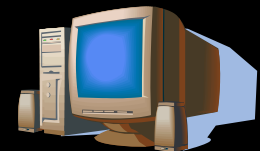
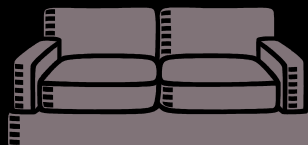
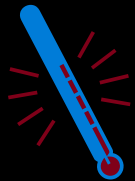
MRW6: Reduce and manage architectural paint wastes

MRW7: Lead by example in state government

MRW8: Ensure MRW and hazardous substances are managed according to hazards, toxicity and risks.

MRW9: Fully implement local hazardous waste plans

MRW10: Ensure facilities handling MRW are in compliance with environmental laws and regulations





# MRW 1

**Prioritize substances to pursue**

## MRW1 - Prioritize substances

What are the tasks under this recommendation?

1. Science-based process to rank high-risk substances
2. Using process, identify next substances to pursue
  - consider lead, pharmaceuticals, used oil
3. Align efforts with identifying persistent, toxic chemicals to meet Executive Order 04-01 (Locke 2004)
4. Align efforts with process for choosing future industrial sector campaign work



# MRW1 - Prioritize substances

What progress has been made?

## 1. First 5 substances identified:

- Mercury → MRW Recommendation 2
- PBDEs → MRW Recommendation 3
- Electronics → MRW Recommendation 4
- Pesticides → MRW Recommendation 5
- Architectural paint → MRW Recommendation 6

## 2. Creating synergies with other initiatives prioritizing chemicals of concern:

- Toxic Toys Bill
- Ecology's Reducing Toxics Initiative
- Puget Sound Toxics Initiative
- OR DEQ's HHW Priority Assessment Study



# MRW1 - Prioritize substances

What work is ongoing?

1. Need a broader approach → chemicals policy →

MRW 8

- product stewardship
- alternative assessments
- standardized classification and labeling
- human biomonitoring
- green chemistry innovations



## MRW1 - Prioritize substances

What still needs to be done?

1. Ranking system to determine chemicals of concern
2. Identify next five substances





Mercury

**MRW2**

**Reduce threats from mercury**

Atomic Number: 80

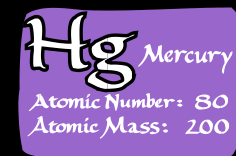
Atomic Mass: 200



## MRW2 – Reduce threats from mercury

What are the tasks under this recommendation?

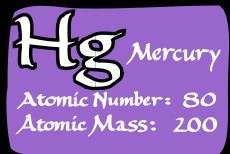
1. Mercury-reduction help to businesses that use mercury-containing materials
2. Create education programs for households and schools
3. Guide and support product stewardship legislation for mercury-containing products...



## MRW2 – Reduce threats from mercury

What are the tasks under this recommendation?

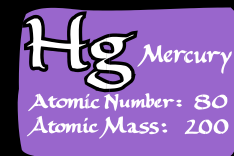
4. Guide and support legislation requiring manufacturers to report mercury-containing consumer products sold in WA
5. Support national efforts to establish a mercury repository



## MRW2 – Reduce threats from mercury

What progress has been made?

1. Mercury product ban in effect 1/1/2006
2. Since 2003, more than 12,000 lbs of mercury has been collected
3. 196 auto recyclers (93-95%) have signed up to collect mercury switches
4. Since 2004, 186 lbs has been collected from small scale miners, 59 lbs in 2008
5. 50% reduction in Mercury in biosolids

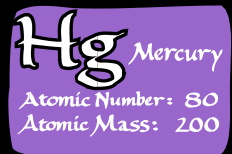




## MRW2 – Reduce threats from mercury

What work is ongoing?

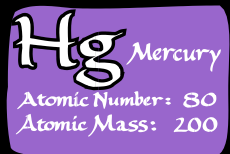
1. Ecology partner with local governments for Earth Day collection events, and educating the public – since 2006
2. Mercury thermostat collection programs expanded to MRW facilities for homeowners and small businesses
3. MOUs with both Washington Dental and Hospital Associations



## MRW2 – Reduce threats from mercury

What work is ongoing?

4. Recent federal legislation bans sale and export of elemental mercury by 2013. Also provides long-term management and storage option for elemental mercury generated by the private sector as of 2010.





## MRW2 – Reduce threats from mercury

What still needs to be done?

1. Collection
2. Collection
3. Collection



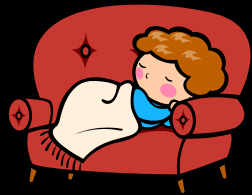
# MRW3

## Reduce threats from PBDEs

## MRW3 – Reduce threats from PBDEs

What are the tasks under this recommendation?

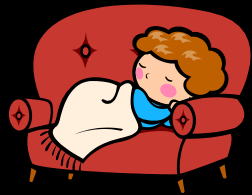
1. Assist with crafting of WA PBDE chemical action plan as it relates to household products and wastes
2. Assist with implementation of PBDE action plan



## MRW3 – Reduce threats from PBDEs

What progress has been made?

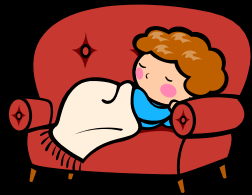
1. Final PBDE action plan published Jan. 2006
2. Legislation banned PBDE-containing mattresses in 2007
3. Legislation banned sale of PBDE products except certain deca-PBDEs Jan. 2008



## MRW3 – Reduce threats from PBDEs

What work is ongoing?

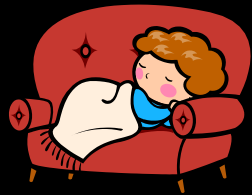
1. Ecology writing report on safer alternatives to PBDEs for the Legislature
2. Phase out deca-PBDEs in:
  - TVs and computers by 2010
  - Residential upholstered furniture, by 2011



## MRW3 – Reduce threats from PBDEs

What still needs to be done?

1. Phase out deca-PBDE products completely by 2012



A stylized illustration of a computer monitor with a dark grey frame and a light grey base. The screen is filled with a dark blue background. The text is displayed in a bold, yellow, sans-serif font. The monitor is shown from a slightly elevated, three-quarter perspective.

# **MRW4**

**Develop an electronics product  
stewardship infrastructure**

## MRW4 – Electronics product stewardship infrastructure

What are the tasks under this recommendation?

1. Work with electronics industry to create product stewardship system
2. Build awareness of hazards inherent in electronic products and waste
3. Recommend to legislature an electronics recycling program that is safe, accessible, effective and addresses product re-design to lengthen life-span and increase recycling



## MRW4 – Electronics product stewardship infrastructure

What progress has been made?

1. A *FREE* statewide recycling program begins January 2009 for computers, monitors & TVs
2. *E-Cycle Washington* will have • 200 collection sites
3. Public outreach campaign initiated on toxic substances in electronics and the safe recycling offered by *E-Cycle Washington*



# MRW4 – Electronics product stewardship infrastructure

## What work is ongoing?

1. Network of collection sites will not be operational until January 2009
2. Reuse not focus of law, but challenge of encouraging reuse over recycling is ongoing
3. Education about toxic substances in electronics and dangers they present when disposed improperly



## MRW4 – Electronics product stewardship infrastructure

What still needs to be done?

1. The law only requires that manufacturers talk with processors about designing electronics with fewer toxic and more recyclable components. No actions are required as yet.
2. Expansion of the scope of products covered by the program. This is unlikely to happen in the near future.





**MRW5**

**Ensure proper use of pesticides,  
including effective alternative**

## MRW5 – Ensure proper use of pesticides & alternatives

What are the tasks under this recommendation?

1. Convene workgroup to ID high-risk pesticides, agricultural and non-agricultural
2. Craft plan for actions on high-risk, non-ag pesticides
3. Educate high-risk, non-ag pesticide users on risks and alternatives
4. Work with manufacturers to create take-back program for banned pesticides...



## MRW5 – Ensure proper use of pesticides & alternatives

What are the tasks under this recommendation?

5. Work with WSDA+ to ID barriers to growers on using alternatives
6. Craft long-term strategy for using alternatives to high-risk ag pesticides



## MRW5 – Ensure proper use of pesticides & alternatives

What progress has been made?

1. Website for non-ag audience on alternatives to pesticides– IPM at homes and schools

- UPEST: Partnership with EPA, WSDA, DOH, WSU,

2. Regional Pesticide Coordinating Committee – West side group meets to share ideas and information on many great projects

- Government and non-profits



## MRW5 – Ensure proper use of pesticides & alternatives

What progress has been made?

3. Promote use of organic amendments in workshops to ag community

- WA Organics Recycling Council

4. Many schools, municipalities and state agencies have adopted IPM policies



## MRW5 – Ensure proper use of pesticides & alternatives

What work is ongoing?

1. UPEST continuously updates website
2. RPCC meets regularly, many in group working on variety of projects
3. Education on benefits of organic soil amendments continues at many levels
4. WSU Extension and WSDA continue to promote IPM in schools



## MRW5 – Ensure proper use of pesticides & alternatives

What still needs to be done?

1. ID high-risk pesticides – ag and non-agricultural
  - Many lists are out there from variety of groups
2. Plan for action on high-risk, non-ag pesticides
3. Take-back program for banned pesticides
5. ID barriers to growers on using alternatives
6. Long-term strategy for alternatives to high-risk ag pesticides





**MRW6**

**Reduce and manage all  
architectural paint wastes**

## MRW6 – Reduce and manage architectural paint waste

What are the tasks under this recommendation?

1. With industry, establish regional or national product stewardship infrastructure for architectural paints and coatings.
2. Work to reduce architectural paint wastes and the use of toxics in such paints.
3. Evaluate effectiveness of existing efforts to divert and recycle paint in the Northwest.



## MRW6 – Reduce and manage architectural paint waste

What progress has been made?

1. NW Paint Workgroup is functioning to support the national initiative (NW PSC and NPCA)
2. Second MOU calls for industry funding to develop nationally-coordinated leftover paint system in all 50 states.
3. Demonstration project in 2009 (probably MN) will be first step in rolling out national system



## MRW6 – Reduce and manage architectural paint waste

### What work is ongoing?

1. Working with NW stakeholders (industry, government, retailers) to prepare for rollout of national system
2. Working with OR, VT and MN to coordinate collection points for convenient collection system
3. Working with Climate Change Initiative and NW Product Stewardship Council on legislation for a Paint Stewardship Organization



## MRW6 – Reduce and manage architectural paint waste

What still needs to be done?

1. Pass product stewardship legislation that enables the Paint Stewardship Organization to legally operate in WA, (paint only or framework legislation)
2. Continue to promote consistent implementation of the national system in first rollout states – OR, MN, VT, CA, WA
3. Continue to work with national Paint Product Stewardship Initiative (PPSI) stakeholders



# MRW 7

Lead by example in state  
government



## MRW7 – Lead by example in state government

What are the tasks under this recommendation?

1. WA State government will implement EPP policies for priority areas and products:

- Automotive products and vehicles
- Grounds maintenance/Integrated Pest Management
- Electronic products
- Building materials
- Cleaning products
- Flame-retardants



## MRW7 – Lead by example in state government

What are the tasks under this recommendation?

2. Promote EPP through assistance to state, local government officials and other entities that purchase from WA State contracts.
3. Develop best management practices for alternatives to products that contain hazardous substances, and for product reuse and recycling.
4. Regularly strengthen and expand products and services in EPP programs to further reduce hazardous substances.



## MRW7 – Lead by example in state government

What progress has been made?

1. EPP info easier to find – Website :
  - How To Buy Products
  - Product Attributes
  - Laws & Directives
  - Standards & Certifications
2. Contract for paint changed - highlights and moves recycled paint to top of contract
3. Contract developed for recycled-content paint, includes reprocessed and consolidated paints



## MRW7 – Lead by example in state government

What progress has been made cont.?

### 4. Product bulletins completed for:

- Automotive Products & Vehicles  
Wheel Weights, Hybrid & Flex-fuel Vehicles
- Building Materials and Lamps  
Lamps, Recycled Paint, Flooring
- Electronic Products  
Computers and computer equipment
- Landscaping  
Compost



## MRW7 – Lead by example in state government

What work is ongoing?

1. Working on EPP section of new Executive Order on Sustainability
2. Educating Dept. of General Administration on attributes of EPP, “green” the GA vendor fair, and establish EPP related contracts
3. Track EPP purchases



## MRW7 – Lead by example in state government

What still needs to be done?

1. Continue educating GA and government agencies on benefits of EPP
2. Develop product fact sheets in areas not completed
3. Continue work on sustainability section of a new Executive Order, to strengthen EPP development
4. Continue work on a way to track EPP purchases





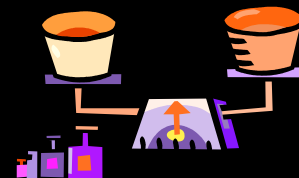
## **MRW 8**

**Ensure MRW and hazardous substances are managed according to hazards, toxicity and risk**

## MRW8 – Manage haz substances according to hazards, toxicity and risk

What are the tasks under this recommendation?

1. ID strengths in existing laws/regs
2. Using strengths, craft plan to change state laws/regs on solid, dangerous and extremely hazardous wastes
3. Assess need and ability to change other laws/regs/standards that affect hazardous substances
  - fire, building, zoning codes at local level
4. Craft plan to change other laws/regs/standards...

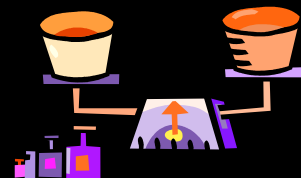




## MRW8 – Manage haz substances according to hazards, toxicity and risk

What are the tasks under this recommendation?

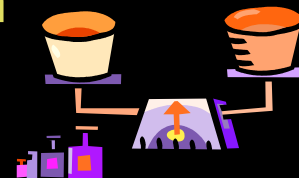
5. Revise requirements and guidelines for local hazardous waste plans to address risk-based regulatory system
6. Transition to a new term for “MRW”



## MRW8 – Manage haz substances according to hazards, toxicity and risk

What progress has been made?

1. Revision to plan guidelines, indirectly address MRW8
2. Not a task, but related because based on hazards, toxicity, risk – not quantity or source:
  - Toxic Toys Bill → children's health indicators
  - Ecology's Reducing Toxics Initiative and Puget Sound Toxics Initiative
  - Chemical Action Plans → Mercury, PBDE, Lead
  - NW Product Stewardship Council → chemical policy workgroup and NAHMMA → chemicals policy forum



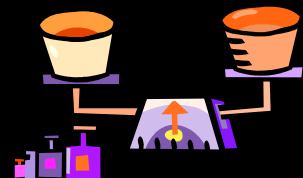
# MRW8 – Manage haz substances according to hazards, toxicity and risk

## What work is ongoing?

1. Toxic Toys Bill → children's health indicators
2. Ecology's Reducing Toxics Initiative and Puget Sound Toxics Initiative
3. Chemical Action Plans → next PAHs, PFOs?
4. NW Product Stewardship Council → chemical policy workgroup and NAHMMA → chemicals policy forum

Need a broader approach → chemicals policy →

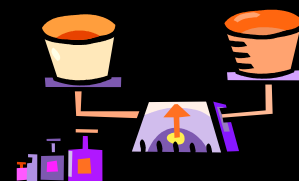
MRW 1



## MRW8 – Manage haz substances according to hazards, toxicity and risk

What still needs to be done?

1. Change focus from existing laws/regs to formation of chemical policy – combine with MRW1
2. Revisit the term “MRW”





**MRW9**

**Fully implement local  
hazardous waste plans**

## MRW9 – Implement local hazardous waste plans

What are the tasks under this recommendation?

1. Report current status of local hazardous waste plans statewide - what has been implemented and accomplished.
2. Develop schedule and strategy for updating out-of-date plans - encourage integrated planning with local solid waste plans whenever possible.
3. Project future infrastructure needs and use of existing MRW collection infrastructure to support product stewardship and closed-loop recycling.



## MRW9 – Implement local hazardous waste plans

What are the tasks under this recommendation?

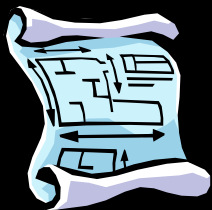
4. Revise local hazardous waste planning guidelines to reflect Beyond Waste goals and vision for the future.
5. Assist local jurisdictions with plan updates and implementation.
6. Provide for regular review of local hazardous waste programs.



## MRW9 – Implement local hazardous waste plans

What progress has been made?

1. Ecology completed report detailing current status of implementation of hazardous waste plans.
2. Ecology completed new draft Guidelines for Development of Local Hazardous Waste Plans.

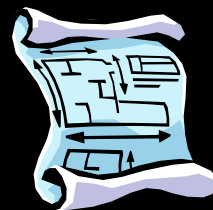




## MRW9 – Implement local hazardous waste plans

What work is ongoing?

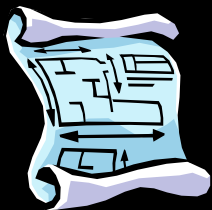
1. Working with external stakeholder committee going over the new draft Guidelines
2. Assisting local jurisdictions with plan updates and implementation



# MRW9 – Implement local hazardous waste plans

What still needs to be done?

1. Complete the LHWP Guidelines
2. Project future infrastructure needs and use of existing MRW collection infrastructure to support product stewardship and closed-loop recycling.





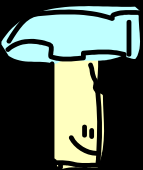
## MRW10

Ensure facilities handling MRW are in compliance with environmental laws and regulations

## MRW10 – MRW facilities are in compliance

What are the tasks under this recommendation?

1. Evaluate effectiveness of compliance strategies  
–review MRW recycling and reuse
2. Develop plan to strengthen compliance strategy

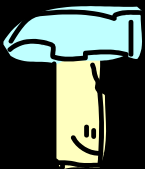


## MRW10 – MRW facilities are in compliance

What progress has been made?

1. Ecology inspected WA MRW facilities in 2006 to determine state of compliance
2. Worked with health depts. and facilities to correct deficiencies

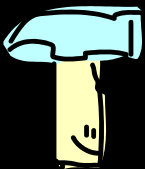
Currently, ~67% of MRW facilities in compliance or need only a little work



## MRW10 – MRW facilities are in compliance

What work is ongoing?

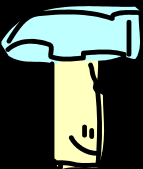
1. Ecology work with health depts. and facilities to keep focus on correcting deficiencies noted in '06  
- permit review process, operating plans
2. ~11% of MRW facilities in the process of upgrades



# MRW10 – MRW facilities are in compliance

What still needs to be done?

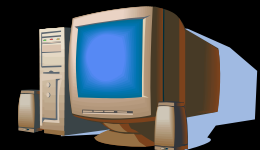
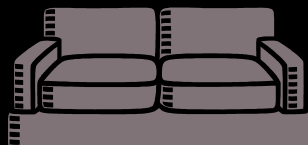
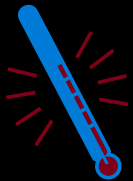
1. Review MRW recycling and reuse
  - Have data, need to evaluate, encourage more
2. Strengthen compliance strategy
  - Another round of inspections
  - Improve outreach to health departments
  - Currently, 20% of MRW facilities need to make substantial improvements (only 11% in process of upgrades)



# MRW Initiative Implementation

- Lots of progress made, much more to do.
  - ~ Plans do lead to change ~
- Some concepts need to be revised
- Please weigh in on the updated plan – Feb '09
- Let us know if you want to be more involved in any recommendation.

Success through partnerships!



# MRW Initiative

*The End!*

