

Environmental Quality Commission Meeting

DEQ Integrated Toxics Reduction Strategy Update

Item I
Sept. 18, 2020

Leah Feldon, Kevin Masterson & Dan Brown, Oregon Department of Environmental Quality



DEQ Integrated Toxics Reduction Strategy

**Complement
Core Work**

**Integrated
Strategic
Approach**

Partnerships

**Source
Reduction**

Strategy Actions



Strategy Guiding Principles

- Building on success
 - Effective communication
- Environmental justice
 - Engaging communities
- Integrated approach
 - Implementation partnerships



Action Update 1: Toxics Focus List Update

- What is this list and how is it used?
 - Originally developed for the 2012 Strategy
 - Helps direct Strategy actions
 - Identifies Agency-wide toxics reduction priorities
- Considerations in updating the Focus List
 - More emphasis on public health
 - Removed irrelevant or duplicative lists



Toxics Focus List Criteria



- Three or more (of ten) program priority lists
- Across two or more environmental media
- Media types include:
 - Air, Land, Water
 - Consumer and Commercial Products (CCP)



Lists Used to Inform Toxics Focus List

Water Quality

DEQ Lists

- Priority Persistent Pollutants (SB 737)
- Water Quality Standards - Impairments
- Surface Water Toxics Monitoring
- Drinking Water Program

Columbia River Toxics Reduction Partnership

Oregon Inter-agency Pesticide Management Team

- Pesticides of High and Moderate Concern for Water

Air Quality

DEQ non-point, mobile pollutants and CAO program pollutants



Consumer Care Products

Toxics-Free Kids Act's High Priority Chemicals of Concern For Children's Health

Land Quality

- DEQ Environmental Cleanup Program
- DEQ Hazardous Waste Program



Changes to Chemicals on the Focus List

- 14 chemicals added to the Focus List
 - Per- and Polyfluoroalkyl substances, or PFAS, and 4 other chemicals used to make common products
 - 4 additional metals
 - 3 additional volatile organic compounds, or VOCs
 - 2 flame retardants
- 5 chemicals removed from the Focus List
 - 2 current use pesticides, detected infrequently in water
 - 2 legacy pesticides
 - 1 VOC



CHEMICAL CATEGORY	UPDATED DEQ TOXICS FOCUS LIST CHEMICALS (2019)				
Combustion and Petroleum By-Products	Polycyclic Aromatic Hydrocarbons (PAHs)	Dioxins and Furans	Naphthalenes		
Consumer Product Constituents	Phthalates	Triclosan	4-Nonyphenol (and Nonyphenol Ethoxylates)	Bisphenol A	DEET
	Per- and Polyfluoroalkyl Substances (PFAS)	Phenol	Octylphenol, 4-tert-	Ethinylestradiol, 17a-	Vinyl Chloride
Current-Use Pesticides	Diazinon	Chlorpyrifos	Atrazine	Trifluralin	Chlorothalonil
	Malathion	Permethrin	Carbaryl	Pentachlorophenol	Diuron
	Glyphosate	2,4-D	Propoxur (Baygon)	Pendamethalin	
Flame Retardants and Industrial Intermediates	Polybrominated Diphenyl Ethers (PBDEs)	Polychlorinated Biphenyls (PCBs)	Tris (2-chloroethyl) Phosphate (TCEP)	Tris (dichloroisopropyl) phosphate (TDCP)	Ammonia
Legacy Pesticides	Dieldrin	DDT (and metabolites)	Chlordane (and metabolites)	Aldrin	Methoxychlor
	Heptachlor (& Heptachlor epoxide)	Hexachlorocyclohexane, alpha- (alpha-BHC), beta- (beta-BHC), gamma- (Lindane)	Hexachlorobenzene		
Metals	Mercury (and methylmercury)	Copper	Cadmium	Chromium	Arsenic
	Lead	Nickel	Manganese	Silver	Beryllium
	Cobalt	Bis (tributyltin) Oxide	Zinc		
Volatile Organic Compounds (VOCs)	Tetrachloroethylene (Perc)	Benzene	Ethylbenzene	Trichloroethylene	Dichlorobenzene, 1,4- (Dichlorobenzene-p)
	Toluene	Formaldehyde	Acetaldehyde	Styrene	Xylenes

Action Update 2: Ongoing Efforts

- Advancing transition to safer chemicals and products

- Interstate collaboration on assessing alternatives to PFAS in food packaging
- Identifying air toxics pollution prevention opportunities
- Transitioning to fluorine-free firefighting foams

Focus List

Chemicals:

PFAS, VOCs, Metals



Photo credit: Packaging Digest



Photo credit: Global Aerospace



Action Update 3: New Strategy Actions

- Assessing diesel particulate matter emissions and impacts.
 - Identifying emissions factors
 - Neighborhood monitoring
 - Community engagement
- Building demand for clean diesel engines.
 - Clean Air Construction Collaborative with Portland area local governments
 - Four phases to the Project from standard development to implementation

Focus List

Chemicals:

PAHs, VOCs,
Metals



Photo credit: Portland Tribune

Thank You Team Toxics

Team Members

- **Team Lead:** Kevin Masterson
- **Hazardous Waste:** Lisa Cox
- **Laboratory:** Nikki Marz
- **Water Quality:** Paula Calvert & Tim Ruby
- **Materials Management:** Pete Pasterz
- **Air Quality:** Susan MacMillan & Meenakshi Rao
- **Clean Up:** Patricia Atkins
- **Communications:** Jennifer Flynt
- **Eastern Region:** Greg Svelund
- **Project Manager:** Dan Brown

Governance Team

- **Sponsor:** Leah Feldon
- **Air Quality:** Michael Orman
- **Land Quality:** Lydia Emer
- **Water Quality:** Tiffany Yelton-Bram
- **Communications:** Jennifer Flynt
- **Laboratory:** Lori Pillsbury
- **Regional Perspective:** Linda Hayes-Gorman
- **Office of Policy and Analysis:** Abby Boudouris



Questions or Feedback?

Kevin Masterson

DEQ Toxics Coordinator

541-633-2005

masterson.kevin@deq.state.or.us

Dan Brown

TRS Project Manager

503-693-5743

brown.daniel@deq.state.or.us

