Dioxins and Furans

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Dioxin/Furan Challenges and Progress

Canada

- 90% reduction *
- by 2000
- * All media within Great Lakes
 Basin
- Progress: 87%
 reduction in total
 releases within GL
 Basin

United States

- 75% reduction *
- by 2006
- * Aggregate of air releases nationwide and water releases within the Great Lakes Basin
- Progress: Goal most likely has been met
- Awaiting finalization of U.S. EPA's 2000 Draft Dioxin Inventory for confirmation





Top U.S Sources (2000 Draft Estimate)	Top Ontario Sources (2004 Estimate)
Backyard Burning	Backyard Burning
Medical Waste Incineration	Motor Vehicles
Municipal Waste Combustion	Nonferrous Foundries
Sewage Sludge	Federal Waste Incineration
Coal Fired Utility Boilers	Sewage Sludge
Cement Kilns	Iron Manufacturing
Diesel Heavy Duty Trucks	Mining & Smelting





Accomplishment Highlights

- Completed Management Assessment
- Identified New Sources of Interest
 - Finalized four issue papers on uncontrolled combustion sources which are available on www.openburning.org
 - Investigating new sources including: agricultural plastic burning
- Compared Ambient Air Monitoring Protocols
- **Continued Efforts of the Burn Barrel Subgroup**





Management Assessment Update

- Environmental Analysis
 - Despite declining trend in some media, dioxins and furans continue to have an impact on human exposure and the Great Lakes Basin
- Opportunity Assessment
 - Continue activities identified in workplan
 - Burn Barrel Subgroup is greatest opportunity
- Management Outcomes
 - Continue active Level 1 status
 - Consider new qualitative challenge goals
 - Exploring pathway intervention
 - Potential changes to structure and membership of workgroup





Household Garbage Burning www.openburning.org



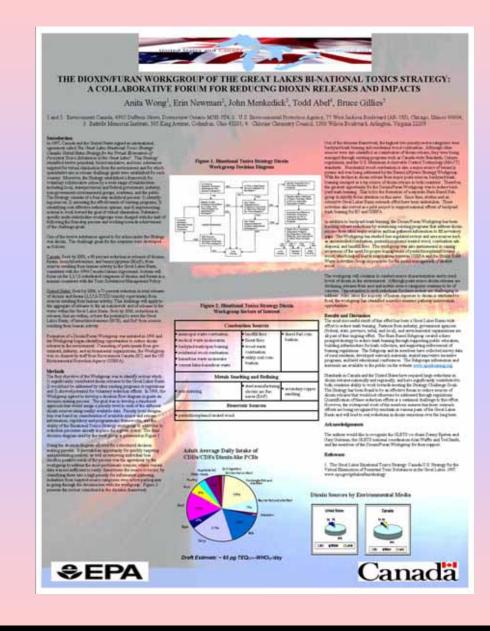
- WLSSD developed a guide "Cleaning the Air: Tools for Reducing Residential Garbage Burning"
- Chlorine Chemistry Council conducting a survey of local officials on backyard burning
- Wisconsin developed and printed Air Defender Kits for the other GL States and Ontario
- Set of U.S. case studies on backyard burning are now available
- Considering developing a Great Lakes Resolution
- Backyard burning listed as an action item under the GL Regional Collaboration





Dioxin 2005 Toronto, Canada

The Dioxin Furan
Workgroup of the
Great Lakes Binational
Toxics Strategy:
A Collaborative Forum
for Reducing Dioxin
Releases and Impacts







Outlook for Future Actions

- Continue burn barrel activities
- Identify sources that warrant further investigation and engage these sectors
- Joint efforts with other workgroups
- Explore pathway intervention
- Examine impact of sources outside the Basin via long range transport



