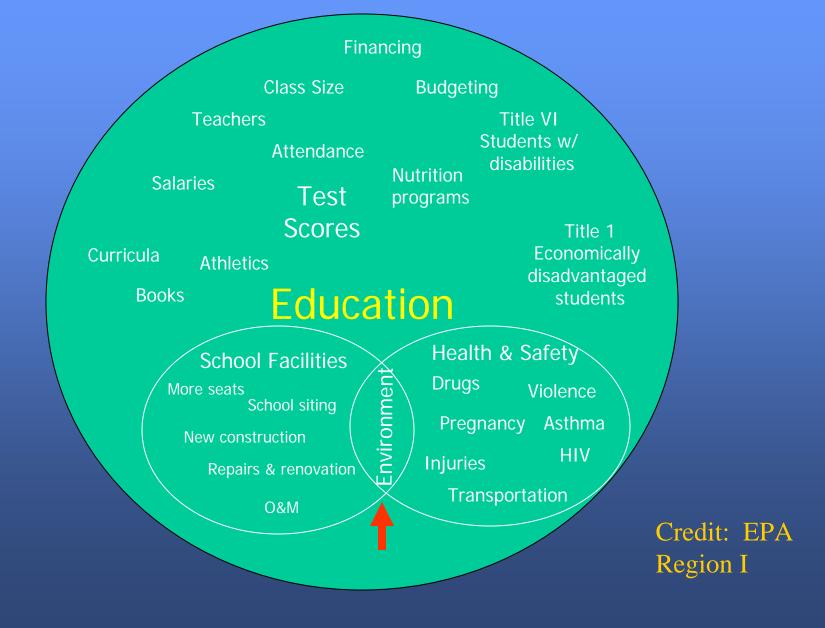
Improving Chemical Management in Maine Schools

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#### A School's View of Environmental Issues



Where Are Hazardous Chemicals In Schools?

Maintenance Areas

Vocational Shops

Science Laboratories

Art Classrooms

•Nurse's Office

Administrative offices

#### Mercury Program History

Sixteen mercury spills in Me. Schools (2001-04)

- Costly. \$6000 to \$25,000
  + lawsuit.
- In D.C., Ballou spill
  >\$1million

We decided to go get the mercury.



After visiting a few schools, the program was broadened. Why?

We found a whole host of problems including:





Chemicals stored alphabetically. Could React!



with unlocked drawer full of matches next to it.



## **<u>Flistoric stockpiles</u>**



Toxic pesticides and oils in a drawer that hadn't been opened for 30+ years!







## Poor chemical condition

## High Risk Chemicals

# Carbon tet. Toxic, carcinogenic, bioaccumulative.



## Overstock

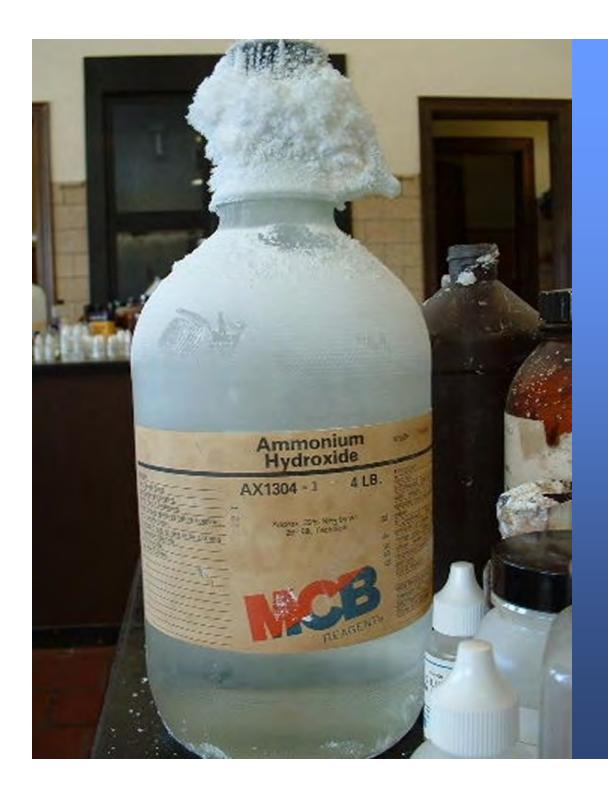
Sam's Club effect resulting from spend it or it or lose it monies and limited budgets.



## **Donations**

Bromine (9/15/79), a PIH (Poison Inhalation Hazard), needs special handling. \$140+ per bottle to get rid of!





Human Nature

The teacher insisted he was really using this!

#### Lack of knowledge

- Many school labs follow Flinn disposal methods
- Most methods illegal!!!
- Could result in **<u>BIG FINES</u>**

Nobody we visited was in compliance.

#### **Hidden Costs**

- Fines if violations are found.
- Increased insurance premiums.
- Spill clean-up costs and materials.
- Time for paperwork, arranging disposal, attending training and conducting or attending inspections.

#### More Hidden Costs

- Expensive storage cabinets etc.
- Required PPE and safety training
- Administrative paperwork.
- Disposal costs
- Liability if someone is hurt.

#### Business Managers = Important Partners

- **Budget** for
- clean-out funds (\$1500 to \$6000 ave.)
- annual disposal funds (<\$1000)</p>
- stipend for Chemical Hygiene Officer!
- teacher training
- safety equipment!

## Help Establish Purchasing Policy

- Central purchasing!
- Buy pre-diluted solutions if possible
- Invest in Microscale chemistry
- Evaluate risk, storage requirements, disposal requirements, existing stocks BEFORE PURCHASING!

#### Business Managers = Important Partners

- If you
- clean out,
- use microscale or green chemistry,
- have a Chemical Hygiene Plan and current inventory RENEGOTIATE INSURANCE!

## TOOLS TO HELP

 DEP Inventory Form • Model Chemical Hygiene Plan Model Purchase Request Form • On Site Assistance School Environmental Guide http://www.maine.gov/dep/mercury/school htm

Note to students from teacher!

