

**ENVIRONMENTAL HANDBOOK  
FOR MANAGEMENT OF HIGHWAYS AND TRANSPORTATION  
FACILITIES**

**Developed by:  
Kentucky Transportation Cabinet  
and the  
Kentucky Transportation Center in 2005**

**Updated November 2008**



# Facilities Preservation Environmental Compliance

<u>Activity/Requirement</u>	<u>Time Frame</u>
▷ Snow & Ice Event Inspection (See Enviro. Hdbk. Appendix 7) Lot Superintendents are responsible for this	Each event
▷ Work in Streams 401/404 USACE permits (See Enviro. Hdbk. Appendix 7 and 15) by Responsible Engineer	Each project
▷ Facility Discharge Samples and Data Forms (See Enviro. Hdbk. Appendix 3) Lot Superintendents are responsible for sampling	1 per quarter
▷ Facility DMR Forms Submitted (See Enviro. Hdbk. Appendix 2, Part III) Environmental Coordinator prepares, DMR signed by CDE or his delegated person	1 per quarter
▷ Facility Inspections (8 pgs) (See Enviro. Hdbk. Appendix 7) by Lot Superintendent	1 per quarter
▷ Annual Facility Inspection (15 pgs) (See Enviro. Hdbk. Appendix 7) by Responsible Engineer	accomplish in 1 <sup>st</sup> quarter
▷ GWPP Training (Seasonal) (See Enviro. Hdbk. Appendix 8) Lot Superintendents are responsible for this	Quarterly

## Activity/Requirement

## Time Frame

- ▷ Stormwater BMP Plan training (See Enviro. Hdbk. Append. 2, Tool Kit) DEA provides to District personnel Annually
- ▷ Stormwater BMP Plan should be modified based on effectiveness and significant changes. Facility Storm Water Discharge NOI/NOT - +/- discharges or lots (See Enviro. Hdbk. Append. 2, Tool Kit) by Responsible Engineer
- ▷ Oil Pollution Control SPCC modified (See Enviro. Hdbk. Appendix 6, 112.5) Per SPCC plan
- ▷ SPCC Plan training after implementation (See Enviro. Hdbk. Appendix 6, 112.7(f)) Per SPCC plan
- ▷ SPCC Plan Review and Evaluation Every 5 years
- ▷ Groundwater Protection Plans are to be recertified (See Enviro. Hdbk. Appendix 4) by Responsible Engineer Every 3 years
- Each facility should have on hand:
  - ▷ Facility KPDES permit
  - ▷ Facility Stormwater BMP Plan
  - ▷ 3 Years of Records for KPDES permit
  - ▷ Current Groundwater Protection plan
  - ▷ Last Groundwater Protection plan
  - ▷ 6 years of inspection records
  - ▷ 6 years of training records
  - ▷ Enforcement letters, NOV's
  - ▷ DOW inspection reports
  - ▷ SPCC Plan and documentation (see SPCC training by DEA)
  - ▷ Facilities Pride – Continuous, good housekeeping

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## **Key Contacts**

Transportation Cabinet employees are to use the supervisory chain to request assistance with environmental problems. In the districts, the **Environmental Coordinator** is a resource to provide guidance. Matters that cannot be resolved within the district are to be referred to the Division of Environmental Analysis.

**Division of Environmental Analysis..... 502-564-7250**

### **Kentucky Environmental Response Team**

Call the Kentucky Environmental Response Team when there is a release or threatened release of a hazardous substance, pollutant or contaminant, petroleum or petroleum product. **This is a regulatory requirement.**

**Kentucky Environmental Response Team (24-hours).....1-800-928-2380 or 502-564-2380**

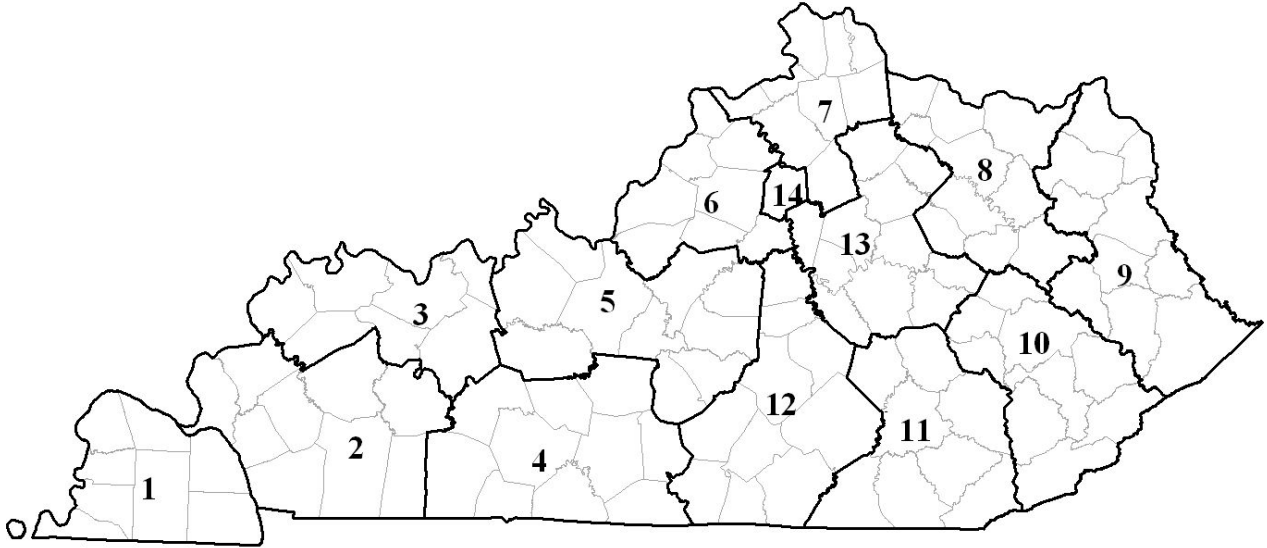
### **National Response Center**

The National Response Center (NRC) is the federal government's national communications center, which is staffed 24 hours a day by U.S. Coast Guard officers and marine science technicians. The NRC receives all reports of releases involving hazardous substances and oil that trigger the federal notification requirements under several laws. Reports to the NRC activate the National Contingency Plan and the federal government's response capabilities. It is the responsibility of the NRC staff to notify the pre-designated on-scene coordinator (OSC) assigned to the area of the incident and to collect available information on the size and nature of the release, the facility or vessel involved, and the party(ies) responsible for the release. The NRC maintains reports of all releases and spills in a national database called the Emergency Response Notification System.

**National Response Center.....1-800-424-8802**



## Division of Emergency Management Offices



Area	Contact	Telephone
Director	Malcolm Franklin	502-607-1682
Area 1	Bob Carrico	502-607-1601
Area 2	Jere McCuiston	502-607-1602
Area 3	Rick Cox	502-607-1603
Area 4	Tony Keithley	502-607-1604
Area 5	Gene Logue	502-607-1605
Area 6	John Bastin	502-607-1666
Area 7	Rick Watkins	502-607-1607
Area 8	Larry Dixon	502-607-1608
Area 9	Mrcia Salyer	502-607-1609
Area 10	Roy Benge	502-607-1654
Area 11	Jerry Rains	502-607-1655
Area 12	Don Franklin	502-607-1656
Area 13	Dan Hayden	502-607-1657
Area 14	Steve Oglesby	502-607-1658

## Division of Water

The Division of Water is responsible for matters that impact water quality, flood plain management, ground water protection and drinking water programs.

Address: Kentucky Division of Water  
200 Fair Oaks Lane, 4<sup>th</sup> Floor  
Frankfort, KY 40601

**Kentucky Division of Water (main).....502-564-3410**

The branches and central office contacts for matters affecting highway maintenance are:

Director	Sandy Gruzesky
Assistant Director	Peter Goodmann
 Kentucky Pollutant Discharge Elimination System (permits for discharges to surface or ground water)	 Jory Becker
Watershed Management Branch	
• Ground Water Protection Plans	Pat Keefe
• Wellhead Protection	Ernie Elliston
 Water Quality Branch (monitoring, water quality certifications)	 John Brumley
 401 Water quality certifications (work in and near streams)	 Alan Grant
 Surface Water Permits Branch (flood plain permits)	 Ron Dutta

<b>Division of Water Regional Offices</b> <b>Tom Gabbard, Compliance and Technical Assistance Branch Manager</b> Phone: (502) 564-3410, FAX: (502) 564-2741 E-Mail: <a href="mailto:Tom.Gabbard@ky.gov">Tom.Gabbard@ky.gov</a>	
<b>Bowling Green Regional Office</b> William Baker, Supervisor 1508 Westen Avenue Bowling Green, KY 42104-3356 Telephone: 270-746-7475 FAX: 270-746-7865 Email: <a href="mailto:William.Baker@ky.gov">William.Baker@ky.gov</a>	<b>Columbia Regional Office</b> Sara Gold Sproles, Supervisor 2751 Campbellsville Road Columbia, KY 42728-1408 Telephone: 270-384-4734 FAX: 270-384-5199 Email: <a href="mailto:Sara.Sproles@ky.gov">Sara.Sproles@ky.gov</a>
<b>Florence Regional Office</b> Todd Giles, Supervisor 8020 Veterans Memorial Drive, Suite 110 Florence, KY 41042 Telephone: 859-525-4923 FAX: 859-525-4157 Email: <a href="mailto:Todd.Giles@ky.gov">Todd.Giles@ky.gov</a>	<b>Frankfort Regional Office</b> Massoud Shoa, Supervisor 643 Teton Trail, Suite B Frankfort, KY 40601-1758 Telephone: 502-564-3358 FAX: 502-564-5043 Email: <a href="mailto:Massoud.Shoa@ky.gov">Massoud.Shoa@ky.gov</a>

<p><b>Hazard Regional Office</b>  Damon White, Supervisor  233 Birch Street  Hazard, KY 41701-2179  Telephone: 606-435-6022  FAX: 606-435-6025  Email: Damon.White@ky.gov</p>	<p><b>London Regional Office</b>  Kimberly Farris, Supervisor  875 South Main Street  London, KY 40741-9008  Telephone: 606-330-2080  FAX: 606-330-2097  Email: Kimberly.Farris@ky.gov</p>
<p><b>Louisville Regional Office</b>  Charlie Roth, Supervisor  9116 Leesgate Road  Louisville, KY 40222-5084  Telephone: 502-429-7122  FAX: 502-429-7125  Email: Charlie.Roth@ky.gov</p>	<p><b>Madisonville Regional Office</b>  Jackie Logsdon, Supervisor  State Office Building, 4th Floor  625 Hospital Drive  Madisonville, KY 42431-1683  Telephone: 270-824-7529  FAX: 270-824-7070  Email: Jackie.Logsdon@ky.gov</p>
<p><b>Morehead Regional Office</b>  Danny Fraley, Supervisor  525 Hecks Plaza Drive  Morehead, KY 40351  Telephone: 606-784-6634  FAX: 606-784-4544  Email: Daniel.Fraley@ky.gov</p>	<p><b>Paducah Regional Office</b>  Gaye Brewer, Supervisor  130 Eagles Nest Drive  Paducah, KY 42003-0823  Telephone: 270-898-8468  FAX: 270-898-8640  Email: Gaye.Brewer@ky.gov</p>



**Division of Waste Management**

The Division of Waste Management administers the programs that regulate all wastes. This includes solid wastes, hazardous wastes, sludges and the Division works with local government to assure that waste collection and disposal is being managed.

**Division of Waste Management (main).....502-564-6716**

The branches and central office contacts for matters affecting highway maintenance are:

Director	Anthony Hatton
Solid Waste (solid waste disposal and facility permitting)	Ron Gruzesky
Hazardous Waste (hazardous waste generators and TSD facility permitting)	April Webb
Resource Conservation and Local Assistance (recycling programs and assistance to local government)	Chris Fitzpatrick

**Illegal Dumping Hotline (24-hour, toll free).....888-NO-DUMPS**

<b>Division of Waste Management Field Offices</b> <b>Jon Maybriar, Manager</b> Phone: (502) 564-6716, FAX: (502) 564-4049 E-Mail: <a href="mailto:jon.maybriar@ky.gov">jon.maybriar@ky.gov</a>	
<b>Bowling Green Regional Office</b> Todd Johnston, Supervisor 1508 Western Avenue Bowling Green, KY 42104-3356 Telephone: 270-746-7475 FAX: 270-746-7865 Email: <a href="mailto:todd.johnston@ky.gov">todd.johnston@ky.gov</a>	<b>Columbia Regional Office</b> John Rogers, Supervisor 2751 Campbellsville Road Columbia, KY 42728-1408 Telephone: 270-384-4735 FAX: 270-384-5199 Email: <a href="mailto:john.rogers@ky.gov">john.rogers@ky.gov</a>
<b>Florence Regional Office</b> Michael Fant, Supervisor 8020 Veterans Memorial Drive, Suite 110 Florence, KY 41042 Telephone: 859-525-4923 FAX: 859-525-4157 Email: <a href="mailto:Michael.fant@ky.gov">Michael.fant@ky.gov</a>	<b>Frankfort Regional Office</b> Richard Thomas, Supervisor 643 Teton Trail Frankfort, KY 40601-1758 Telephone: 502-564-3358 FAX: 502-564-5043 Email: <a href="mailto:richardf.thomas@ky.gov">richardf.thomas@ky.gov</a>
<b>Hazard Regional Office</b> Robert Stidham, Acting Supervisor 233 Birch Street Hazard, KY 41701-2179 Telephone: 606-435-6022 FAX: 606-435-6025 Email: <a href="mailto:Robert.stidham@ky.gov">Robert.stidham@ky.gov</a>	<b>London Regional Office</b> Bill Belcher, Supervisor 875 South Main Street London, KY 40741-9008 Telephone: 606-330-2080 FAX: 606-877-9091 Email: <a href="mailto:Bill.Belcher@ky.gov">Bill.Belcher@ky.gov</a>

<p><b>Louisville Regional Office</b>          Keith Sims, Supervisor          9116 Leesgate Road          Louisville, KY 40222-5084          Telephone: 502-429-7120          FAX: 502-429-7125          Email: Keith.Sims@ky.gov</p>	<p><b>Madisonville Regional Office</b>          Larry Tichenor, Supervisor          625 Hospital Drive          Madisonville, KY 42431-1683          Telephone: 270-824-7532          FAX: 270-824-7070          Email: larry.tichenor@ky.gov</p>
<p><b>Morehead Regional Office</b>          Karen Hall, Supervisor          525 Hecks Plaza Drive          Morehead, KY 40351          Telephone: 606-783-8655          FAX: 606-783-8659          Email: karens.hall@ky.gov</p>	<p><b>Paducah Regional Office</b>          Marjorie Williams, Supervisor          130 Eagle Nest Drive          Paducah, KY 42003-0823          Telephone: 270-898-8468          FAX: 270-898-8640          Email: Margie.Williams@ky.gov</p>



## Division for Air Quality

Robbin Edwards, Complaints Coordinator  
 E-Mail: Robbin.Edwards@ky.gov

**Environmental Emergency, (24-Hour).....(502) 564-2380 or (800) 928-2380**

<b>Division for Air Quality Field Offices</b> <b>Kevin Flowers, Manager</b> Phone: (502) 564-3999, FAX: (502) 564-4666 E-Mail: Kevin.Flowers@ky.gov	
<b>Ashland Regional Office</b> Karen Deskins, Supervisor 1550 Wolohan Drive, Suite 1 Ashland, KY 41102-8942 Telephone: 606-929-5285 FAX: 606-928-1267 E-Mail: Karen.Deskins@ky.gov	<b>Bowling Green Regional Office</b> Troy Tabor, Supervisor 1508 Westen Avenue Bowling Green, KY 42104-3356 Telephone: 270-746-7475 FAX: 270-746-7865 Email: Troy.Tabor@ky.gov
<b>Florence Regional Office</b> Clay Redmond, Supervisor 8020 Veterans Memorial Drive, Suite 110 Florence, KY 41042 Telephone: 859-525-4923 FAX: 859-525-4157 Email: Clay.Redmond@ky.gov	<b>Frankfort Regional Office</b> Connie Coy, Supervisor 643 Teton Trail, Suite B Frankfort, KY 40601-1758 Telephone: 502-564-3358 FAX: 502-564-5043 Email: Constance.Coy@ky.gov
<b>Hazard Regional Office</b> Steve Hall, Supervisor 233 Birch Street, Suite 2 Hazard, KY 41701-2179 Telephone: 606-435-6022 FAX: 606-435-6025 Email: Steven.Hall@ky.gov	<b>London Regional Office</b> David Shivel, Supervisor 875 South Main Street London, KY 40741 Telephone: 606-330-2080 FAX: 606-330-2097 Email: David.Shivel@ky.gov
<b>Owensboro Regional Office</b> Mac Cann, Supervisor 3032 Alvey Park Drive West, Suite 700 Owensboro, KY 42303-2191 Telephone: 270-687-7304 FAX: 270-687-7204 E-Mail: Mac.Cann@ky.gov	<b>Paducah Regional Office</b> Betsy Ryan, Supervisor 130 Eagle Nest Drive Paducah, KY 42003-9435 Telephone: 270-898-8468 FAX: 270-898-8640 Email: Betsy.Ryan@ky.gov

The air quality program for Jefferson County is administered by:  
 Jefferson County Air Pollution Control District  
 850 Barret Ave.  
 Louisville, KY 40204-1745  
 Telephone: (502) 574-6000  
 Fax: (502) 574-5306

## Division for Air Quality Regional Offices



### Division of Enforcement

The Division of Enforcement brings together activities previously performed by enforcement branches of Waste Management, Water and Air Quality. A primary goal of the Division of Enforcement is to resolve enforcement cases in a professional, consistent and timely manner.

#### **Director**

**Jeff Cummins**

**Case Resolution Section East  
Case Resolution Section West  
Special Programs Section  
Compliance and Operations Branch**

**Diana Carrier  
Jeffrey Schuhmann  
Justin Schul  
Mark Cleland**

**Phone (502) 564 - 2150**





**Do**

- ✓ All projects are to use Best Management Practices to prevent erosion and to control sediment.
- ✓ BMP plans are to be used for contract work and for projects that are long term or are complex.
- ✓ Projects let to contract are to have a BMP plan.
- ✓ A qualified inspector should be used to inspect work. The KEPSC program provides instruction and qualification for this inspection.
- ✓ Use the DEA Environmental Viewer to determine if the work can impact an environmentally sensitive area. If yes, then follow-up with the District environmental coordinator or DEA.
- ✓ Ask contractors to identify their KEPSC qualified inspector. Section 213 of the standard specification requires the contractor to have a KEPSC qualified inspector.
- ✓ Contract work is subject to compliance with Sections 212 and 213 of the standard specifications.
- ✓ Stabilize disturbed areas within two weeks of finishing the work.
- ✓ Remove all temporary BMPs after work is complete.
- ✓ Use TC 63-61 A for inspections for contract inspections.
- ✓ Use KEPSC forms for non-contract inspections.
- ✓ Let the grass mature!

**Don't**

- ✗ Initiate work before conducting a pre-disturbance inspection and installing BMPs as needed.
- ✗ Kill the Grass!

**If...Then**

- ▶ If work is near a water body, follow the work in or near water bodies FACT SHEETS.
- ▶ If there is material to be burned, follow FACTSHEET ---

**Relevant Environmental Programs**

- Air Quality
- 401/404/WQC
- KPDES
- Facilities Pride
- GWPP
- Pesticides
- SPCC
- Waste Mgt



*Earth Disturbing work associated with highway maintenance.*

**Materials & Waste Management**

- ▲ Materials and wastes are to be managed in ways that do not cause storm water pollution.

**Factsheet Checklist**

- Pre-disturbance inspections are to identify BMPs needed
- BMPs are installed where needed before earth disturbance
- Inspect weekly.
- Correct BMPs within 5 days of inspection
- Update BMP plans within 5 days of inspection.

**Tips & Tricks**

- ! The absence of a BMP plan subjects the compliance questions to the water quality standards regulation 401 KAR 10:031. This regulation is quite subjective and difficult to argue out of. It is better to have a BMP plan based on good engineering practice as the basis of compliance.
- ! Follow the Divisions of Design and Construction information pertaining to Erosion Prevention and Sediment Control when preparing BMP plans and employing BMPs.
- ! The KPDES permit perspective is that this work is covered by the KYTC SWQMP under MCM 6 for the MS4 program under the KYR20 permit. Permit coverage being established through KYTC co-permit relationship to the Phase II MS4 communities. This FACT SHEET applies state-wide, not just within the community MS4 jurisdictions.

**Training:** 1 per Year

**Season:** Spring

**KYTC FOG Reference:**

## **INFORMATION SOURCES**

KPDES Permit KYG50 or KYR10

Kentucky 2008 - Standard Specifications for Road and Bridge Construction

[www.kepsc.org](http://www.kepsc.org)

## BE PART OF THE SOLUTION: ALTERNATIVES TO OPEN BURNING

- Reduce**
- Look for items with less packaging.
  - Buy items in packaging that can be reused or recycled.

- Reuse**
- Donate old clothes, shoes, books, appliances, electronics, furniture and toys to charity.
  - Carry a coffee mug with you instead of disposable cups.
  - Bring your own cloth bag to the store or reuse plastic bags.

- Recycle**
- Many counties in Kentucky have a community recycling center. You can bring one or more of the following:
    - Newspaper
    - Plastics #1 and #2
    - Cardboard
    - Aluminum
    - Steel
    - Glass

- Compost**
- Leaves and grass clippings can be turned into food for your garden or houseplants.
  - Instead of burning old pallets, tie four pallets together to make a simple compost bin.

- Landfill**
- Items that cannot be reused or recycled should be taken to the landfill.

Contact the Division for Air Quality, Division of Waste Management or your local solid waste coordinator for more information.

Division for Air Quality 1-888-BURN-LAW

### Air Quality REGIONAL OFFICES

Ashland	(606) 929-5285
Bowling Green	(270) 746-7475
Florence	(859) 525-4923
Frankfort	(502) 564-3358
Hazard	(606) 435-6022
London	(606) 878-0157
Owensboro	(270) 687-7304
Paducah	(270) 898-8468

### OTHER CONTACTS

Louisville Metro APCD	(502) 574-6000
Division of Forestry	(800) 866-0555
Fire Marshal's Office	(502) 564-3626
Kentucky Fire Commission	(800) 782-6823
Department of Agriculture	(502) 564-4696
Division of Waste Management (DWM)	(502) 564-6716
Illegal Dumping (DWM)	(888) 663-8677
Dept. of Fish & Wildlife	(502) 564-3400



Division for Air Quality  
803 Schenkel Lane  
Frankfort, KY 40601  
Phone: 502-573-3382  
Fax: 502-573-3787  
E-mail: burnlaw@ky.gov

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KENTUCKYUNBRIDLEDSPRINT.COM

## OPEN BURNING LEARN BEFORE YOU BURN



THIS OPEN BURN IS ILLEGAL AND SUBJECT TO A  
FINE UP TO \$25,000.

DIVISION FOR AIR QUALITY

[www.air.ky.gov](http://www.air.ky.gov)



## ILLEGAL OPEN BURNING

### Agriculture

- Animal Bedding
- Hay
- Muck Piles (horse manure/hay)

### Construction

- Asbestos Materials
- Buildings (houses, barns and garages)
- Construction Debris
- Demolition Debris
- Renovation Debris
- Drywall
- Shingles

### Household Garbage

- Animal or Vegetable
- Plastic
- Cans
- Glass

### Wood Materials

- Fence Posts
- Pallets
- Sawdust
- Wood Chips and Shavings
- Wood Mulch
- Painted, Stained, or Pressure-Treated Wood

### Miscellaneous

- Chemical Containers
- Coated Wire
- Insulated Wire
- Rubber
- Tires
- Used Oil
- Motor Oil
- Industrial, Business, School, Church, and Farm Waste

**Open burning is any open flame in the environment.**

## LEARN BEFORE YOU BURN

Some open burning is legal, with restrictions. But many materials are illegal to burn. The Division for Air Quality can impose fines of up to \$25,000 per day per violation of the law. It pays to learn before you burn!

## OPEN BURNING FACTS

Air pollution from open burning can cause •asthma •emphysema •heart attacks •birth defects •nervous system damage •other health problems. Children and the elderly are especially sensitive to the air pollution from open burning.

## WHY IS IT BETTER TO SEND YOUR TRASH TO A LANDFILL?

Backyard burn barrels and woodstoves produce low temperature fires. Burning trash at low temperatures produces a lot of smoke and releases many toxic pollutants like dioxin/furans.

EPA has shown that open burning of garbage is the largest source of dioxins in the nation. Dioxin/furans have been linked to cancer in humans. Dioxin/furans from open burning end up in our water and soil. They enter our food supply and accumulate in animal tissue.

## LEGAL OPEN BURNING

### Agriculture

- Plant Beds
- Tobacco Curing
- Animal Carcasses (disease control)

### Land Management

- Leaves (check local laws)
- Natural Growth from Land Clearing
- Tree Limbs Felled by Storms
- Weeds
- Natural Land Management

### Construction Sites

- Warming Fires (clean lumber only)

### Miscellaneous

- Camp Fires
- Ceremonial Bonfires
- Cooking
- Fire Training
- Household Paper Products Only

## RESTRICTIONS

- When a fire emergency is declared, ALL open burning is prohibited.
- During fire hazard season, burning within 150 feet of any woodland area is allowed only between 6 p.m. and 6 a.m.
- From May-September, open burning is restricted in counties that have been designated nonattainment for ozone and particulate matter.
- Do not burn within 50 feet of any structure.
- Do not burn near landfills.
- Do not burn near streams or sinkholes.
- Do not burn near utility lines.

**Be kind to your children. Be courteous to your neighbors. Follow the law. Do not burn illegally!**



**Stabilized Areas**

Stations	Type of Stabilization	Location of Existing BMP's to be Corrected	Location of Additional BMP's Necessary	Remarks

**House - Keeping**

	Locations	Remarks
Vehicle Exit Points		
Concrete Wash-Out		
Chemical Containment		

**Additional Comments**

**Inspection Summary**

\*Note: This report only details actions that must be taken at this time. Records of all previous actions and devices utilized are compiled in the Daily Work Reports related to this project. This inspection is for the purpose of verifying conformance of the contract with the Standard Specifications and does not relieve the Contractor of any responsibility for compliance with the KPDES permit.

Action by the contractor is required according to this report Yes / No

KYTC Representative: \_\_\_\_\_ Date: \_\_\_\_\_

KYTC Resident Engineer: \_\_\_\_\_ Date: \_\_\_\_\_

**NOTE: In accordance with the requirements of the KYTC Standard Specifications for Road and Bridge Construction 2004, Subsection 213.03.02, a penalty equal to the contractual provision for liquidated damages will be imposed on the Contractor if the deficiencies identified in this Erosion Control Inspection Report are not corrected in a manner acceptable to the Department of Hightways within 5 days of receipt of this report. Failure to correct may result in the suspension of all operations and the withholding of all amounts due on current pay estimates until all aspects of the subject work are completed and approved**

\_\_\_\_\_  
Contractor Representative: Date: \_\_\_\_\_

**Table 2. Notification Requirements for USACE and KDOW**

<b>Activity</b>	<b>USACE Permit #</b>	<b>Notification to USACE is required if the following conditions occur:</b>	<b>Application for a KDOW WQC is required if the following conditions occur:</b>
Drift Removal	3(ii)	<ul style="list-style-type: none"> <li>▪ Notification is required if the “One Step” method of drift removal cannot be used.</li> </ul>	<ul style="list-style-type: none"> <li>▪ When the project does not qualify under the USACE nationwide permit.</li> </ul>
Beaver Dam Removal	None	<ul style="list-style-type: none"> <li>▪ Notification is not required for this activity</li> </ul>	<ul style="list-style-type: none"> <li>▪ Notification is not required for this activity</li> </ul>
Sediment Removal from Structures	3 (ii)	<ul style="list-style-type: none"> <li>▪ Work area extends further than 200 feet in any direction from the structure.</li> </ul>	<ul style="list-style-type: none"> <li>▪ More than 200 feet of stream length will be affected</li> </ul>
	19	<ul style="list-style-type: none"> <li>▪ More than 25 cubic yards of material are removed.</li> </ul>	<ul style="list-style-type: none"> <li>▪ When the project does not qualify under the USACE nationwide permit.</li> </ul>
Embankment Repair and/or Protection	13	<ul style="list-style-type: none"> <li>▪ Length of bank stabilization activity is more than 500 feet</li> <li>▪ On average, more than one (1) cubic yard per foot of fill is placed below the ordinary high water mark.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Length of bank stabilization activity affects more than 500 feet of stream or using asphalt, creek rock, or rip rap.</li> </ul>
Scour/ Erosion Repair to Bridge Elements	3 (ii)	<ul style="list-style-type: none"> <li>▪ Work area extends more than 200 feet in any direction from the structure.</li> </ul>	<ul style="list-style-type: none"> <li>▪ More than 200 feet of stream length will be affected</li> </ul>
	18	<ul style="list-style-type: none"> <li>▪ More than 25 cubic yards of material is placed below or removed from below the ordinary high water mark</li> <li>▪ More than 1/10 acre of special aquatic site (i.e., wetlands, vegetated shallows, riffle/pool complex), is affected.</li> </ul>	<ul style="list-style-type: none"> <li>▪ When the project does not qualify under the USACE nationwide permit or is more than 300 feet.</li> </ul>
Bridge and Culvert Replacement	3 (i)	<ul style="list-style-type: none"> <li>▪ Notification is not required for this activity unless one or more of the General Conditions is not met.</li> </ul>	<ul style="list-style-type: none"> <li>▪ More than 300 feet of stream length will be affected</li> </ul>
Temporary Construction, Access and De-watering	33	<ul style="list-style-type: none"> <li>▪ A Notification is required for each project</li> <li>▪ A Restoration Plan is required for each project</li> </ul>	<ul style="list-style-type: none"> <li>▪ If the project is more than 300 feet.</li> </ul>
Minor Discharges	18	<ul style="list-style-type: none"> <li>▪ More than 25 cubic yards of material is placed below or removed from below the ordinary high water mark</li> <li>▪ More than 1/10 acre of special aquatic site (i.e., wetlands, vegetated shallows, riffle/pool complex), is affected.</li> </ul>	<ul style="list-style-type: none"> <li>▪ If the project is greater than 300 feet.</li> </ul>
Minor Dredging	19	<ul style="list-style-type: none"> <li>▪ More than 25 cubic yards of material are removed.</li> </ul>	<ul style="list-style-type: none"> <li>▪ When the project does not qualify under the USACE nationwide permit.</li> </ul>

- **No work can be preformed in special use waters without pre-approval unless the situation is an emergency. Chief District Engineers can approve work for an emergency. Use the DEA Environmental Viewer to determine if special use waters are present. The District environmental coordinator will obtain approval. The Division of Environmental Analysis will assist the district when needed.**

- **Environmental viewer --- <http://kytcgis.ky.gov/enviro/viewer.htm>**

## General Conditions

Notification to the regulatory agencies **is required** if one or more of the following conditions cannot be met during the project.

**Soil Erosion and Sediment Controls.** Effective sediment and erosion controls shall be employed on all projects. Use appropriate Best Management Practices (BMPs) from the “Kentucky Best Management Practices for Construction” manual, developed by the Division of Conservation and Division of Water, Natural Resources and Environmental Protection.

**Scheduling.** All work within the stream channel should be performed during no-flow or low flow conditions. As necessary, emergency work may be performed within the confines of the stream channel from April 15 through June 15. “Emergency work” should be determined by the Transportation Engineering Branch Manager for Operations or the County Judge Executive, as applicable.

**Sediment Disposal.** Material removed from the channel or banks will not be stockpiled within the confines of the stream channel. All spoil material will be loaded onto trucks and hauled away to upland sites, not to any wetland areas, for later use, storage, or disposal. Trucks must be covered to control dust. Material removed from bridge openings shall be limited to restoration of the original cross-section. Disturbance to the existing stream bank vegetation shall be minimized. Where practicable, existing access roads into the stream channel shall be utilized to enter and exit the work area.

**Equipment.** Equipment, type or operation, shall conform to the “one step method”, as described in **Section 2.4.3**. Bulldozers shall not be used to perform any work within the confines of the stream channel.

**Materials Placement.** Materials used in maintenance work shall be selected and placed so that they will not be washed downstream during normal or high water flows.

**Special Use Waters.** The work shall not occur in Special Use Waters designated as follows or in wetlands adjacent to those waters: National Wild and Scenic River, critical habitat for federally listed threatened and endangered species, state natural heritage sites, Outstanding National Resource Water. An Individual Water Quality Certificate is required for activities in Outstanding State Resource Waters, Exceptional Waters and Cold Water Aquatic Habitat. Some Special Use Waters are listed in **Appendix 16**. This is a dynamic list. The current reference is found by accessing [http://nrepcapps.ky.gov/special\\_waters/specialwaters.htm](http://nrepcapps.ky.gov/special_waters/specialwaters.htm) . Other locations of concern , such as state natural heritage sites, must be identified on a case-by-case basis.

**Threatened and Endangered Species and Shellfish.** No activity shall jeopardize a threatened or endangered species listed under the Federal Endangered Species Act or amendments, or endanger the critical habitat of such species, or occur in areas of concentrated shellfish production. KyTC activities should be coordinated through the District Environmental Coordinator. Local agencies should contact the Nature Preserve Commission.



## 5.1. KYTC SPILL RESPONSES



### Do

- ✓ Treat spills of products or wastes that are flammable, toxic, reactive or corrosive as hazardous spills.
- ✓ Refer to the Material Safety Data Sheet (MSDS) for spill response procedures and personal protective equipment needs.
- ✓ Isolate the area.
- ✓ Safely **stop the release** if possible and protect streams, sewers and other waterways.
- ✓ **Report all releases** that are larger than a routine spill to DEA; call **911 or local emergency responders when warranted**.
- ✓ If the spill exceeds reportable quantities on the “List of Lists” (40 CFR 302) or enters a Water of the Commonwealth, call the Environmental Response Team **(800) 928-2380** or **(502) 564-2380** and call the National Response Center.
- ✓ **Clean up** the spilled material.
- ✓ **KyTC personnel** - Coordinate any cleanup involving removal of soil with DEA.
- ✓ **Local government** should use an environmental consultant to oversee clean up of spills involving removal of soil.
- ✓ **Manage the waste**- store absorbent in drums and conduct a waste determination if a hazardous spill is known or suspected.
- ✓ Use appropriate absorbent pads or socks for cleanup – oil only for oil or universal for non-oil.
- ✓ Review emergency response actions after an incident to highlight appropriate responses and needed improvements.
- ✓ Fill out the spill form and make reports

### Don't

- ✗ Don't risk injury to yourself or co-workers.
- ✗ Don't panic, respond calmly and quickly.
- ✗ Don't stop the release if it is hazardous to do so.

### Materials & Waste Management

- ▲ Store contaminated materials so they do not further contaminate the environment.
- ▲ Dispose in accordance with the waste determination.

### Relevant Environmental Programs

- |  |  |
|--|--|
| <input type="radio"/> Air Quality      | <input checked="" type="radio"/> GWPP      |
| <input type="radio"/> 401/404/WQC      | <input type="radio"/> Pesticides           |
| <input checked="" type="radio"/> KPDES | <input checked="" type="radio"/> SPCC      |
| <input type="radio"/> Facilities Pride | <input checked="" type="radio"/> Waste Mgt |



*The spill kit contains protective equipment and absorbent materials for emergency use. Locate spill kits near where materials are stored and used.*

### Factsheet Checklist

- Check product and waste storage areas for leaks, spills and housekeeping **WEEKLY**.
- Check hazardous waste storage areas for leaks, spills and housekeeping **WEEKLY**.
- Check spill kits **QUARTERLY** and promptly restock after use.
- Check spill response and cleanup procedures **ANNUALLY**.
- Check for the presence of copies of MSDS sheets for all products handled at the facility **ANNUALLY**.

### Tips & Tricks

- ! Reportable quantities are 25 gallons or more of a petroleum product within a 24-hour period and 75 gallons or more of diesel fuel in a 24-hour period or any amount that creates a visible sheen released to a stream or lake.
- ! EPA's “List of Lists” document, which identifies reportable chemicals, can be downloaded from: <http://yosemite.epa.gov/oswer/lol.nsf/homepage>
- ! Wring oil absorbent pads into a bucket to collect spilled material for reuse or disposal.

### If...Then

- If the materials that are cleaned up can be reused, place them in a suitable container and label them.

**Training:** 1 per Year

**Season:** Winter

Review All MSDS sheets as part of this training

**KYTC FOG Reference** M140

## INFORMATION SOURCES

40 CFR 302

Kentucky Transportation Cabinet. *Environmental Awareness: A Road Master Training Course*.  
Undated. (Unit 3 p 7, 8)

Kentucky Transportation Cabinet. *Spill Prevention Control and Countermeasures Plan Template*.  
February, 2003. Frankfort, Kentucky.

Kentucky Transportation Cabinet. *Stormwater Best Management Practices Plan for District 5 – Poplar  
Level Lost 392*. Undated. (p 6-7)

United States Environmental Protection Agency. *List of Lists: Consolidated List of Chemicals Subject to  
the Emergency Planning and Community Right-To-Know Act (EPCRA) and Section 112(r) of the  
Clean Air Act*. October, 2001. Office of Solid Waste and Emergency Response. Washington, D.C.  
EPA 550-B-01-003.

## NOTES

## 5.2 ILLICIT DISCHARGES



The stormwater program (MS4) requires that sources of stormwater pollution be reported and corrected. This fact sheet guides KYTC personnel in the matter of illicit discharges.

### Do

- ✓ Cooperate with communities that we are partnered with to facilitate removal of pollution sources.
- ✓ Report any observation of an activity you see that may be a source of stormwater pollution on state highway right of way to the District MS4 coordinator.
- ✓ Understand this fact sheet applies to our highways that are inside of a MS4 community program jurisdiction.
- ✓ Use the KYTC Spill or Pollution Report form to document the observations.

### Don't

- ✗ Ignore important observations of pollution.

### If...Then

- ▶ Pollution is found that is the result of our (KYTC) activities, we must correct it.
- ▶ The pollution is from a source that is off right of way, the MS4 community is to be notified.
- ▶ KYTC will take appropriate action to correct or eliminate illicit sources of stormwater pollution that originate on state highway right of way.
- ▶ KYTC cooperate with the local MS4 program to assist when they correct or eliminate illicit sources of stormwater pollution that originate off of state highway right of way and cause a discharge of pollutants to the state highway separate storm sewer system.



*Example of a storm drain protective measure.*

### Materials & Waste Management

- ▲ Materials and wastes are to be managed in ways that do not cause undue storm water pollution.

### Factsheet Checklist

- Be observant when you are doing your work.

### Tips & Tricks

- ! The District MS4 coordinator will know the local government contact for MS4 related issues.

**Training:** 1 per Year

**Season:** Spring

### Relevant Environmental Programs

- |  |                                       |
|--|---------------------------------------|
| <input type="radio"/> Air Quality      | <input checked="" type="radio"/> GWPP |
| <input type="radio"/> 401/404/WQC      | <input type="radio"/> Pesticides      |
| <input checked="" type="radio"/> KPDES | <input type="radio"/> SPCC            |
| <input type="radio"/> Facilities Pride | <input type="radio"/> Waste Mgt       |

**KYTC FOG Reference:**

## INFORMATION SOURCES

<http://transportation.ky.gov/EnvAnalysis/>

# MS4 Communities by District

<p><b>1</b> Mayfield Murray Paducah</p> <p><b>2</b> Henderson Hopkinsville Madisonville Oak Grove Owensboro</p> <p><b>3</b> Bowling Green Glasgow</p> <p><b>4</b> Bardstown Campbellsville Elizabethtown Hardin county Muldraugh Radcliff Vine Grove West Point</p>	<p><b>5</b> Bullitt County Frankfort Mt. Washington Oldham County Shelbyville Shepherdsville</p> <p><b>6</b> Florence Sanitation District # 1 of Northern Kentucky</p> <p><b>7</b> Danville Georgetown Jessamine County Nicholasville Richmond Winchester</p> <p><b>8</b> Somerset</p> <p><b>9</b> Ashland Greenup county Raceland</p> <p><b>11</b> Middlesboro</p>
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## 5.4 - KYTC SPILL OR POLLUTION DOCUMENTATION AND REPORTING

<b>LOCATION</b>	FACILITY NAME AND NUMBER or HIGHWAY ROUTE AND MP	DATE	TIME	<b>AM PM</b>	
	NEAREST CITY	COUNTY			
	DISTRICT	TELEPHONE NUMBER AT FACILITY			
<b>Fire was involved</b>	DATE AND TME OF INCIDENT				
	TYPE OF MATERIAL DISCHARGED,IF A PESTICIDE, LIST THE TANK MIX				
	ESTIMATED QUANTITY OF DISCHARGED MATERIAL				
	SOURCE OF DISCHARGE				
	EXTENT OF THE SPILL: CHECK ALL THAT APPLY <input type="checkbox"/> IT OCCURRED ONLY ON PAVEMENT OR CONCRETE (AN IMPERVEOUS SURFACE) <input type="checkbox"/> IT OCCURRED ON OR IMPACTED SOIL OR GRAVEL , <input type="checkbox"/> IT IMPACTED A STREAM OR LAKE <input type="checkbox"/> IT DISCHARGED INTO A CITY SEWER <input type="checkbox"/> IT IS BEYOND KYTC PROPERTY <input type="checkbox"/> IT IMPACTED A STORM SEWER OR DRAINAGE DITCH <input type="checkbox"/> THERE WAS A FIRE AS PART OF THIS SPILL Make a sketch of the site and approximate limits of the spill on the back of this form.				
	CAUSE OF THE DISCHARGE				
	ANY DAMAGE OR INJURY				
	ACTIONS USED TO STOP OR REMOVE AND MITIGATE EFFECTS OF THE DISCHARGE				
	EVACUATION NECESSARY (EXPLAIN)				
	<input type="checkbox"/> SUPERVISOR NOTIFIED	DATE TIME	<input type="checkbox"/> DIST. BRANCH MGR NOTIFIED	DATE TIME	
	<input type="checkbox"/> ENVIRON. COORDINATOR NOTIFIED	DATE TIME	<input type="checkbox"/> CDE NOTIFIED	DATE TIME	
	NAME OF INDIVIDUAL TAKING REPORT		DATE TIME		
<b>Local Fire Dept. Notified</b>	NAME OF FIRE DEPT.	NAME OF INDIVIDUAL TAKING REPORT	Rept.#	Date	Time
<b>GOVT. AGENCIES NOTIFIED (when applicable)</b>	NATIONAL RESPONSE CENTER (1-800-424-8802)	NAME OF INDIVIDUAL TAKING REPORT	Rept #	Date	Time
	STATE ERT (1-800-928-2380)	NAME OF INDIVIDUAL TAKING REPORT	Rept #	Date	Time
	<input type="checkbox"/> City <input type="checkbox"/> COUNTY <input type="checkbox"/> SEWER AUTHORITY	NAME OF INDIVIDUAL TAKING REPORT	Rept #	Date	Time
<b>Incident Description, Action Taken, General Comments</b>					
<b>Prepared by</b>		<b>TITLE</b>	<b>DATE</b>	<b>PHONE</b>	

Note: Follow the guidance from the material(s) MSD Sheet for appropriate action, personal protection and handling of spill materials. Copy this report to: KYTC Division of Environmental Analysis



# ***PESTICIDES REPORTABLE QUANTITIES***

<b><i>Common Name</i></b>	<b><i>Active Ingredient</i></b>	<b><i>Reportable Quantity</i></b>	<b><i>Reportable Product Amount</i></b>
2,4-D Formula 40	Di-methylamine + Tri-isopropanolamine	100 pounds	27.25 gallons
2,4-D IVM DRY	Di-methylamine Salt	100 pounds	103 pounds
Arsenal	Imazapyr	None	
Basil Oil Premix	Triclopyr Ester, Imazapyr		Call DEA !
Dormant Stem Premix	2, 4-D Ester; 2-4 DP Ester; Dicamba; T	100 pounds	163 gallons
Endurance	Prodiamine	None	
Envoy	clethodim	100 pounds	37 gallons
Escort	Metsulfuron	None	
Fusilade II	Fluazifop	100 pounds	305 gallons
Fusion	Fluazifop and Fenoxaprop	100 pounds	1,300 pounds
Gallery	Isoxaben	None	
Garlon 3A	Triclopyr(amine)	5,000 pounds	
Garlon 4 Ultra	Triclopyr(ester)	None	
Krenite-S	Fosamine Salt	None	
Milestone	Aminopyralid	None	None
MSMA	Methanearsonate	1 pound	4.5 pounds
Outrider	Sulfosulfuron	None	
Overdrive	salts of Diflufenzopyr and Dicamba	1,000 pounds	2,000 pounds
Payload	Flumioxazin	None	
Pendulum (WDG)	Pendimethalin	None	
Plateau	Pyridinecarboxylic	None	
Poast	Sethoxydim	100 pounds	76,000 pounds
Roundup Pro	Glyphosate Salt	None	
Roundup Pro Dry	Glyphosate Salt	None	
Sahara	Imazapyr and Diuron	100 pounds	161 pounds
SFM 75	Sulfometuron	None	
Stronghold	Ammonium Salt of Imazethapyr, Imaza	None	
Telar DF	Chlorsulfuron	None	
Transline	Clopyralid	None	



## BE PART OF THE SOLUTION: ALTERNATIVES TO OPEN BURNING

- Reduce**
- Look for items with less packaging.
  - Buy items in packaging that can be reused or recycled.

- Reuse**
- Donate old clothes, shoes, books, appliances, electronics, furniture and toys to charity.
  - Carry a coffee mug with you instead of disposable cups.
  - Bring your own cloth bag to the store or reuse plastic bags.

- Recycle**
- Many counties in Kentucky have a community recycling center. You can bring one or more of the following:
    - Newspaper
    - Plastics #1 and #2
    - Cardboard
    - Aluminum
    - Steel
    - Glass

- Compost**
- Leaves and grass clippings can be turned into food for your garden or houseplants.
  - Instead of burning old pallets, tie four pallets together to make a simple compost bin.

- Landfill**
- Items that cannot be reused or recycled should be taken to the landfill.

Contact the Division for Air Quality, Division of Waste Management or your local solid waste coordinator for more information.

Division for Air Quality 1-888-BURN-LAW

### Air Quality REGIONAL OFFICES

Ashland	(606) 929-5285
Bowling Green	(270) 746-7475
Florence	(859) 525-4923
Frankfort	(502) 564-3358
Hazard	(606) 435-6022
London	(606) 878-0157
Owensboro	(270) 687-7304
Paducah	(270) 898-8468

### OTHER CONTACTS

Louisville Metro APCD	(502) 574-6000
Division of Forestry	(800) 866-0555
Fire Marshal's Office	(502) 564-3626
Kentucky Fire Commission	(800) 782-6823
Department of Agriculture	(502) 564-4696
Division of Waste Management (DWM)	(502) 564-6716
Illegal Dumping (DWM)	(888) 663-8677
Dept. of Fish & Wildlife	(502) 564-3400



Division for Air Quality  
803 Schenkel Lane  
Frankfort, KY 40601  
Phone: 502-573-3382  
Fax: 502-573-3787  
E-mail: burnlaw@ky.gov

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## OPEN BURNING LEARN BEFORE YOU BURN



THIS OPEN BURN IS ILLEGAL AND SUBJECT TO A  
FINE UP TO \$25,000.

DIVISION FOR AIR QUALITY

[www.air.ky.gov](http://www.air.ky.gov)

*Kentucky*



## ILLEGAL OPEN BURNING

### Agriculture

- Animal Bedding
- Hay
- Muck Piles (horse manure/hay)

### Construction

- Asbestos Materials
- Buildings (houses, barns and garages)
- Construction Debris
- Demolition Debris
- Renovation Debris
- Drywall
- Shingles

### Household Garbage

- Animal or Vegetable
- Plastic
- Cans
- Glass

### Wood Materials

- Fence Posts
- Pallets
- Sawdust
- Wood Chips and Shavings
- Wood Mulch
- Painted, Stained, or Pressure-Treated Wood

### Miscellaneous

- Chemical Containers
- Coated Wire
- Insulated Wire
- Rubber
- Tires
- Used Oil
- Motor Oil
- Industrial, Business, School, Church, and Farm Waste

**Open burning is any open flame in the environment.**

## LEARN BEFORE YOU BURN

Some open burning is legal, with restrictions. But many materials are illegal to burn. The Division for Air Quality can impose fines of up to \$25,000 per day per violation of the law. It pays to learn before you burn!

## OPEN BURNING FACTS

Air pollution from open burning can cause •asthma •emphysema •heart attacks •birth defects •nervous system damage •other health problems. Children and the elderly are especially sensitive to the air pollution from open burning.

## WHY IS IT BETTER TO SEND YOUR TRASH TO A LANDFILL?

Backyard burn barrels and woodstoves produce low temperature fires. Burning trash at low temperatures produces a lot of smoke and releases many toxic pollutants like dioxin/furans.

EPA has shown that open burning of garbage is the largest source of dioxins in the nation. Dioxin/furans have been linked to cancer in humans. Dioxin/furans from open burning end up in our water and soil. They enter our food supply and accumulate in animal tissue.

## LEGAL OPEN BURNING

### Agriculture

- Plant Beds
- Tobacco Curing
- Animal Carcasses (disease control)

### Land Management

- Leaves (check local laws)
- Natural Growth from Land Clearing
- Tree Limbs Felled by Storms
- Weeds
- Natural Land Management

### Construction Sites

- Warming Fires (clean lumber only)

### Miscellaneous

- Camp Fires
- Ceremonial Bonfires
- Cooking
- Fire Training
- Household Paper Products Only

## RESTRICTIONS

- When a fire emergency is declared, ALL open burning is prohibited.
- During fire hazard season, burning within 150 feet of any woodland area is allowed only between 6 p.m. and 6 a.m.
- From May-September, open burning is restricted in counties that have been designated nonattainment for ozone and particulate matter.
- Do not burn within 50 feet of any structure.
- Do not burn near landfills.
- Do not burn near streams or sinkholes.
- Do not burn near utility lines.

**Be kind to your children. Be courteous to your neighbors. Follow the law. Do not burn illegally!**