



10-31-03
382754-Corresp.

James C. Codell, III
Secretary of Transportation

Commonwealth of Kentucky
Transportation Cabinet

Frankfort, Kentucky 40622

October 27, 2003

Paul E. Patton
Governor

Clifford C. Linkes, P.E.
Deputy Secretary

«Mailing_Title» «First_Name» «Last_Name»«Suffix»
«Title»
«Organization»
«Address1»
«Address2»
«City», «State» «Zip»

Dear «Letter_Title» «Last_Name»:

SUBJECT: Planning Study
Lyon and Caldwell Counties
US 641, Reconstruction or Relocation from Eddyville to Fredonia

We are requesting your agency's input and comments on a planning study to determine the need and potential impacts for a proposed highway project. The Kentucky Transportation Cabinet has assembled a study team to evaluate the proposed reconstruction or relocation of US 641 from Eddyville in Lyon County to Fredonia in Caldwell County. The study is currently in the initial data-gathering stage.

We ask that you identify specific issues or concerns of your agency that could affect the development of the project. This planning study will include a scoping process for the early identification of potential alternatives, environmental issues, and impacts related to the proposed project. We believe that early identification of issues or concerns can help us develop highway project alternatives to avoid or minimize negative impacts.

We respectfully ask that you provide us with your comments by November 30, 2003, to ensure timely progress in this planning effort.

During the development of this planning study, comments will be solicited from federal, state, and local agencies, as well as other interested persons and the general public, in accordance with principles set forth in the National Environmental Policy Act (NEPA) of 1969. The Federal Highway Administration is partnering with us in these efforts.



KENTUCKY TRANSPORTATION CABINET

"PROVIDE A SAFE, EFFICIENT, ENVIRONMENTALLY SOUND, AND FISCALLY RESPONSIBLE TRANSPORTATION SYSTEM
WHICH PROMOTES ECONOMIC GROWTH AND ENHANCES THE QUALITY OF LIFE IN KENTUCKY"

"AN EQUAL OPPORTUNITY EMPLOYER M/F/D"

«Mailing_Title» «First_Name» «Last_Name»«Suffix»

Page 2

October 27, 2003

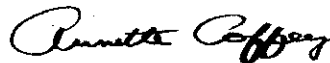
Other Transportation Cabinet offices or consultants working on behalf of the Transportation Cabinet may also contact you seeking more detailed data or information to assist them in completing their environmental studies for this phase of the project.

We have enclosed a project brochure which includes the following information for your review and comment:

- A draft statement of Study Purpose and Project Goals
- Project Location Map
- Year 2003 Traffic and Level of Service
- Year 2025 Traffic and Level of Service
- Accident Information by Accident Severity
- Environmental Footprint

We appreciate any input you can provide concerning this project. Please direct any comments, questions, or requests for additional information to Jim Wilson of the Division of Planning at 502/564-7183 or at Jimmy.Wilson@mail.state.ky.us. Please address all written correspondence to Annette Coffey, P.E., Director, Division of Planning, Kentucky Transportation Cabinet, 125 Holmes Street, Frankfort, KY 40622.

Sincerely,



Annette Coffey, P.E.
Director
Division of Planning

AC:JCW:NH
Enclosure

c: Jose Sepulveda (w/e)
Glenn Jilek (w/e)
Mary Murray (w/e)
Dan Bozarth
Craig Morris
Marc Williams - WSA
D. Wayne Mosley
Edward Merryman
Tim Choate
Everett Green
Allen Thomas
Kevin McClearn
Steve Hoefler
David Waldner
Richard Davis
Doug Taylor

OTHER PROJECTS

The proposed project addressed in the planning study would connect to another segment of US 641 from Fredonia to Marion that is currently in the design phase. That proposed project would begin on the south side of Marion in Crittenden County, follow a parallel path east of existing US 641, and terminate northwest of Fredonia. The proposed route is being designed as a four-lane roadway with partial control of access (i.e., at-grade intersections at a spacing of no less than 1,200 feet). Construction of two lanes on a four-lane right-of-way is being considered, with the remaining two lanes to be constructed in the future.

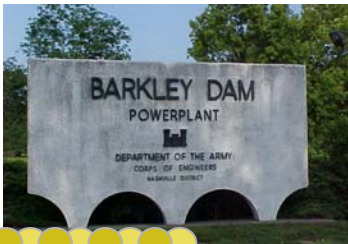


KY 62 / US 641 intersection.

ENVIRONMENTAL DATA

Some environmental issues include:

- Quarry operation in Fredonia
- Wildlife management status in areas where signs are posted
- Impact on and access to farmland



Power plant entrance along US 62 in Lyon County.



View of Barkley Lake along I-24 near Eddyville.



Prime farmland along KY 91 in Caldwell County.



New Bethel Church adjacent to US 641, south of Fredonia.

PUBLIC & AGENCY INPUT

Four public meetings are being held during the course of this study. These are intended to provide information and gain input on the proposed project regarding major issues, potential impacts, and possible alternates. Efforts are also included to coordinate with and get input from local officials, public agency representatives, and others who have a special interest in the project.

The first two public meetings, one each in Eddyville and Fredonia, are to inform the public about the project and request input on preliminary project issues. The second two meetings, also in Eddyville and Fredonia, are to present information and get input on the proposed alternatives.

To assist in keeping the public and agencies informed, information will be added to the KYTC's Division of Planning website:

<http://www.kytc.state.ky.us/planning/index2.asp>

This website will be updated on a regular basis as new information becomes available.

CONTACT INFORMATION



Address written comments to:
Annette Coffey, P.E.
 or
Daryl Greer, P.E.
 Kentucky Transportation Cabinet
 Division of Planning
 125 Holmes Street
 Frankfort, KY 40622

Or you may contact by phone:
Jimmy Wilson
Project Manager
 Kentucky Transportation Cabinet
 Division of Planning
 (502) 564-7183
jimmy.wilson@mail.state.ky.us

You may also look for project information at:
www.kytc.state.ky.us/planning/index2.asp





Reconstruction/Relocation of From Eddyville to Fredonia



LYON & CALDWELL COUNTIES

The Kentucky Transportation Cabinet (KYTC) is undertaking an alternatives planning study for the proposed reconstruction/relocation of US 641 from Eddyville in Lyon County to Fredonia in Caldwell County. No funds are available at this time for the design or construction of this project.

The planning study will (1) analyze existing conditions (including transportation, environmental, and socioeconomic issues), (2) estimate future traffic demand, and (3) identify and evaluate potential alternatives for the proposed project. Throughout the planning process, comments, concerns, suggestions, and insight from the general public and local officials will be documented and considered.

The existing US 641 corridor between Eddyville and Fredonia is a two-lane roadway with 10- to 12-foot lanes and varying shoulder widths and types. The posted speed limit is 35 mph in urban areas and ranges from 45 mph to 55 mph in rural areas. US 641 carries an average daily traffic (ADT) volume between 3,080 and 3,400 vehicles per day and provides access south between Fredonia and US 62, I-24, and the Wendell H. Ford (Western Kentucky) Parkway.

PRELIMINARY

project Goals

The following were identified as preliminary goals for the project:

- Provide improved regional access along a reconstructed highway or an alternate route that will:
 - Allow the designation of the route for the legal operation of 102-inch wide trucks between Eddyville and Fredonia;
 - Provide improved access to the National Truck Network and National Highway System to support economic development initiatives in the region; and
 - Provide improved access from north of and in the vicinity of Eddyville to regional recreational and tourist areas, including Lake Barkley and Kentucky Lake.

PROJECT ISSUES

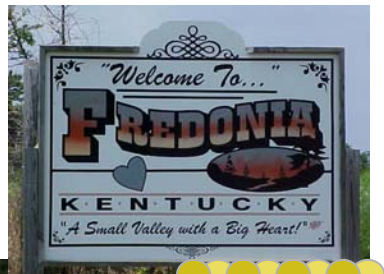
There are a number of issues that will be explored as part of this planning study. Some of these issues include:

- Access for 102-inch wide trucks
- Connectivity between other major roadways
- Serving the site of a proposed industrial park, southeast of Fredonia
- Safety and capacity concerns
- Recreation and tourism access
- Other highway projects in the area

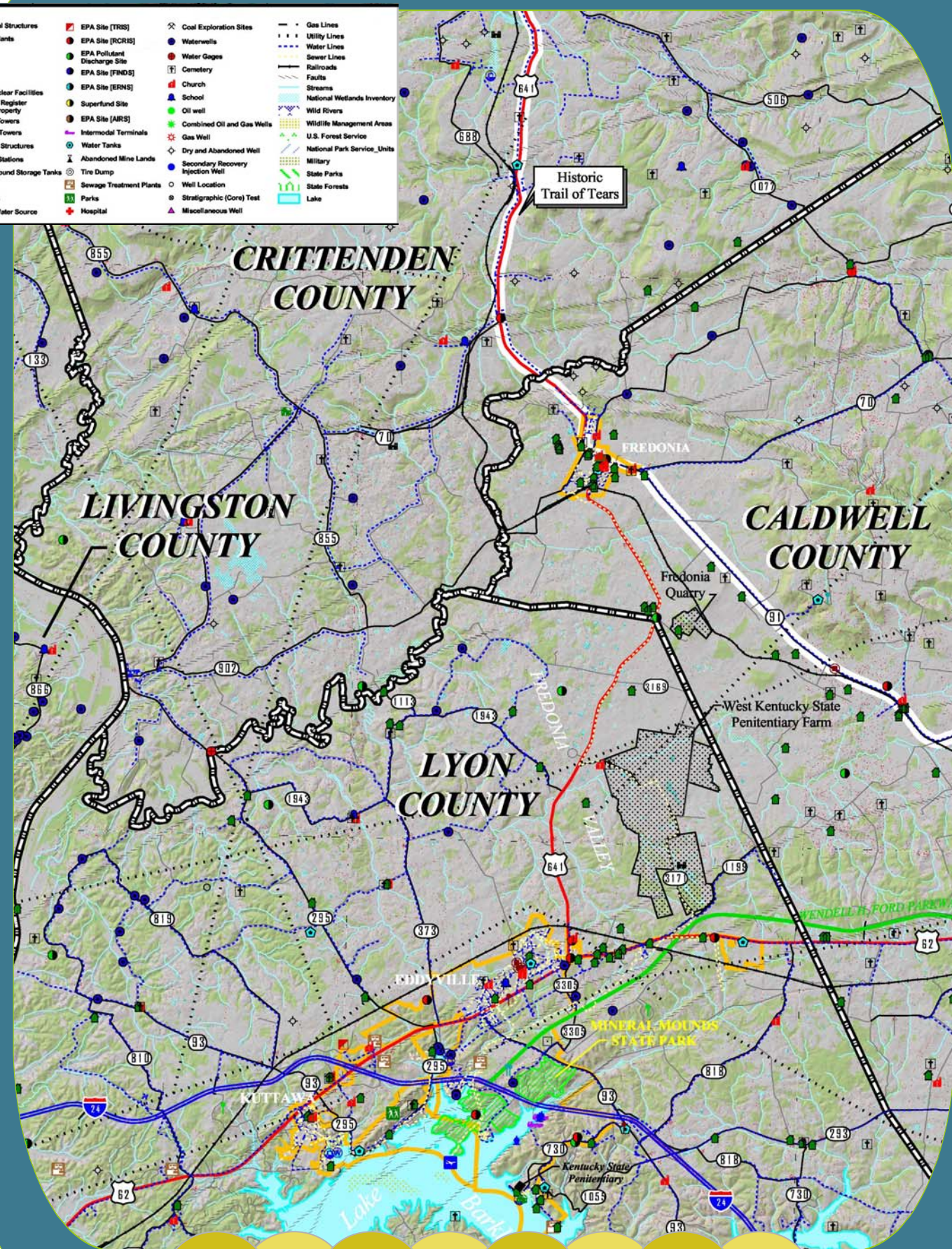
Typical section along US 641 in Lyon & Caldwell Counties.



Entrance to Fredonia.

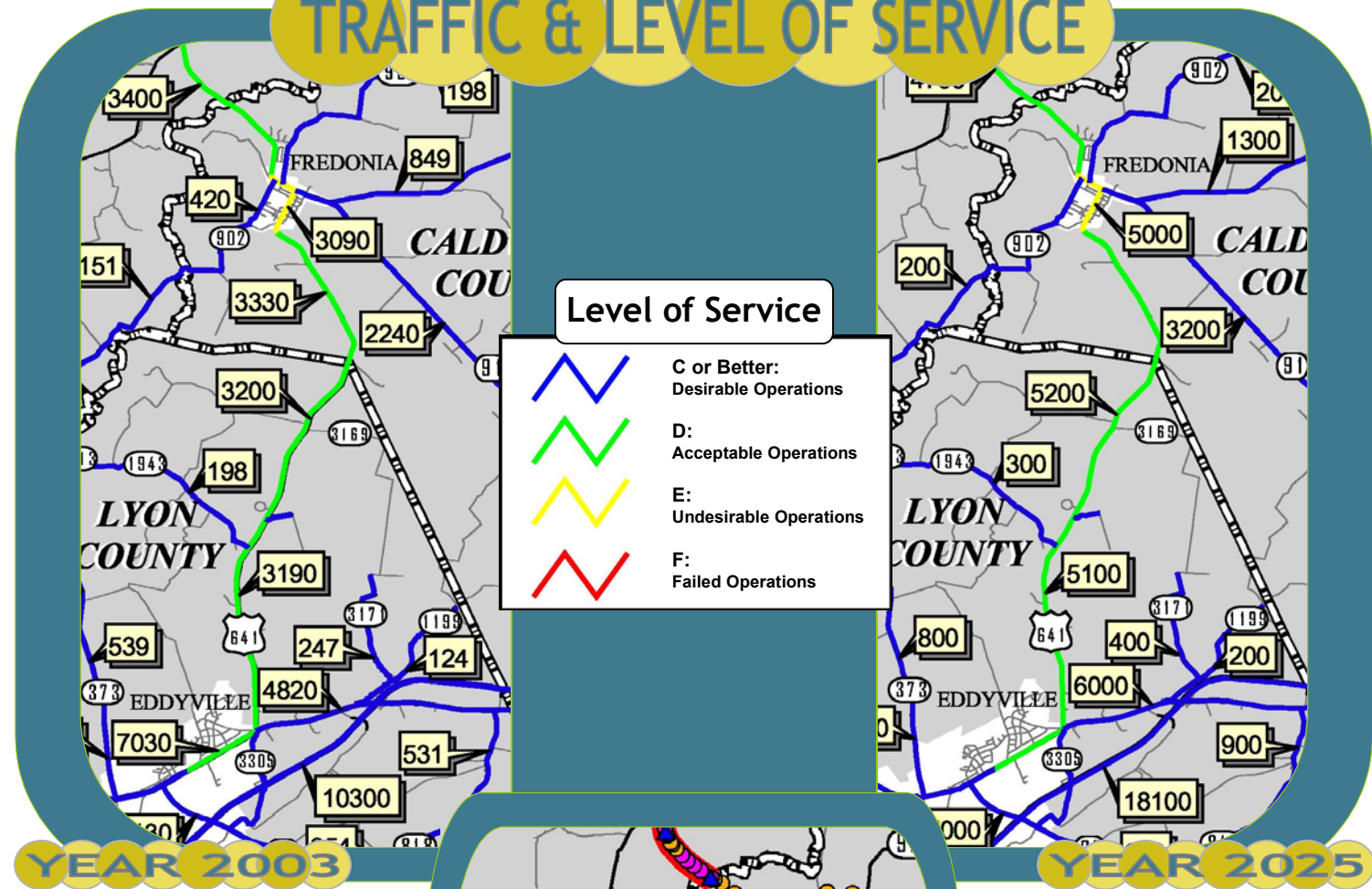


- Historical Structures
- Power Plants
- Ports
- Locks
- Dams
- NRC Nuclear Facilities
- National Register Listed Property
- Paging Towers
- Cellular Towers
- Antenna Structures
- Amtrak Stations
- Underground Storage Tanks
- Airport
- Landfills
- Public Water Source
- EPA Site (TRIS)
- EPA Site (RCRIS)
- EPA Pollutant Discharge Site
- EPA Site (FINDS)
- EPA Site (ERNS)
- Superfund Site
- EPA Site (ARIS)
- Intermodal Terminals
- Water Tanks
- Abandoned Mine Lands
- Sewage Treatment Plants
- Parks
- Hospital
- Coal Exploration Sites
- Waterwells
- Water Gages
- Cemetery
- Church
- School
- Oil well
- Combined Oil and Gas Wells
- Gas Well
- Dry and Abandoned Well
- Secondary Recovery Injection Well
- Well Location
- Stratigraphic (Core) Test
- Miscellaneous Well
- Gas Lines
- Utility Lines
- Sewer Lines
- Railroads
- Faults
- Streams
- National Wetlands Inventory
- Wild Rivers
- Wildlife Management Areas
- U.S. Forest Service
- National Park Service Units
- Military
- State Parks
- State Forests
- Lake



ENVIRONMENTAL OVERVIEW

TRAFFIC & LEVEL OF SERVICE



- Fatal
- Injury
- Property Damage Only
- High Vehicle Crash Spot-0.1 Mile
- Potential High Vehicle Crash Segment Critical Rate (0.9 - 0.99)
- High Vehicle Crash Segment Critical Rate (≥ 1.0)



VEHICLE CRASH INFO BY SEVERITY



Ms. LaVerne Reid
District Manager
Airports District Office, Federal Aviation
Administration
3385 Airways Blvd., Suite 302
Memphis, TN 38116

Mr. Hayes Dent
Executive Director
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236 Sharkey Avenue, Suite 400
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Mr. Ann R. Latta
Acting Commissioner
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10th, floor, Capital Plaza Tower, 500 Mero St.
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Mr. William Straw, Ph.D.
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Federal Emergency Management Agency, Region IV
3003 Chamblee-Tucker Road
Atlanta, GA 30341-4130

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President
Kentuckians for Better Transportation
10332 Bluegrass Parkway
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Secretary
Kentucky Health Services Cabinet
275 East Main
Frankfort, KY 40601

Mr. Bob Arnold
Executive Director
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Frankfort, KY 40601

American Association of Truckers
P.O. Box 487
Benton, KY 42025

Mr. Allen D. Youngman
Adjutant General
Department of Military Affairs
Boone Nat'l Guard Ctr., 100 Minuteman Pky.
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Mr. George Crothers
Director, Office of State Archaeology
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211 Lafferty Hall
Lexington, KY 40506-0024

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905 Nebo Road
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Commissioner
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United States Senate
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Mr. William Howard
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Mr. Kenneth W. Holt
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Disease Control, Emergency And Environmental Health
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Atlanta, GA 30341-3724
Mr. Roger Wiebusch
Bridge Administrator
United States Coast Guard, Bridge Branch
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St. Louis, MO 63103

The Honorable Mitch McConnell
United States Senator
United States Senate
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Washington, DC 20510

Colonel Robert E. Slockbower
District Engineer
U. S. Army Corps of Engineers, Louisville District
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The Honorable Ed Whitfield
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Ms. Becky Pancake
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Fredonia, KY 42411

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Hardin County Judge/Executive
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The Honorable Van Knight
Caldwell County Judge/Executive
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The Honorable J. R. Gray
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3188 Mayfield Highway
Benton, KY 42025

The Honorable Michael E. Cherry
Kentucky State Representative, 4th District
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Kentucky State Senator, 1st District
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The Honorable Paul Herron, Jr.
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The Honorable Judith Stone
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The Honorable Lee McCollum
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Dr. Lee Gold
School Superintendent
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Mr. Bill Robertson
Chairman
Planning Commission
115 Stetson Drive
Eddyville, KY 42038



**Crittenden County
Economic Development Corp.**

DIV OF PLANNING

2002 DEC -1 A 11: 34

November 26, 2003

Ms. Annette Coffey, P.E.
Director, Division of Planning
Kentucky Transportation Cabinet
125 Holmes Street
Frankfort, KY 40622

Stephen Davidson
President/CEO
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(877) 698-1788
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Gareth Hardin, V-Chair
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Michael Alexander
Michael Byford
Zac Greenwell
Gordon Guess
Victor "Pippi" Hardin
Alan Stout
Chris Sutton
Glenn Underdown

Dear Ms. Coffey:

Thank you for the opportunity to offer input and comments for the US 641 highway project from Eddyville in Lyon County to Fredonia in Caldwell County. This input is provided on behalf of the Board of Directors of the Crittenden County Economic Development Corp. (CCEDC) in Marion.

The CCEDC strongly endorses the route from Eddyville to Fredonia. The CCEDC has identified no issues or concerns that could adversely affect the development of the project. Indeed, with the forthcoming development of the 5-county Pennyriple WestPark Industrial Park on 800 acres on state-owned property adjacent to the Eddyville State Prison Farm, it is critical that the "new" 641 be in close proximity to this mega park. Please note that the five counties involved in the project are Caldwell, Crittenden, Livingston, Lyon, and Trigg.

Attracting large manufacturing companies to the park will hinge greatly on whether there is a 4-lane highway that brings industrial transportation to and from the park. Consequently, the CCEDC Board of Directors urges the KTC to consider the 641 Eddyville to Fredonia route which will link to the Fredonia to Marion route.

Please feel free to contact me, should you require further input from our organization.

Sincerely,

Stephen D. Davidson, President/CEO

Cc: Mr. Greg Moore, Chairman, CCEDC Board of Directors
Hon. Pippi Hardin, Crittenden County Judge Executive
Mr. Chris Sutton, Assistant Director, Pennyriple Area Development District

Wilson, Jimmy (KYTC)

From: JR & Yvonne Gray [grayhouse@vci.net]
Sent: Saturday, November 15, 2003 9:54 PM
To: Jimmy.Wilson@mail.state.ky.us
Subject: Planning Study--Lyon and Caldwell Counties--641 highway, Fredonia to Eddyville

Jimmy: Regarding the solicitation for input on the above referenced project, please be advised as follows regarding my most sincere beliefs:

I have no particular concerns regarding the portion of the highway in and around the close proximity of Fredonia so long as traffic flow is basically unimpeded.

My main concern is the location of the highway in the general proximity of the Western Kentucky Farm Center which is currently controlled and/or operated by the Department of Corrections.

I am sure that you have been made aware of the intent of the Commonwealth of Kentucky to make approximately 500 acres of this farm available to Lyon, Livingston, Crittenden, Caldwell and Trigg Counties, as Pennyriple Industrial Park West, with hopes of attracting a sizable industry.

A large industry at this location will hopefully spawn opportunities for feeder and/or user industries in the other industrial parks in and around Eddyville and Lyon County.

In consideration of the above, it is my well considered opinion that the new or improved roadway should be located close to the Pennyriple Industrial West Park site in order to maximize its marketability to potential industries.

For free flow of traffic and accessibility of the industrial sight, I feel that easy access should be provided to Interstate 24 and/or the Western Kentucky Parkway.

Thank you for the opportunity for input regarding this most important project.

J. R. Gray, State Representative
Sixth House District
3188 Mayfield Hwy.
Benton, KY 42025

11/17/2003



PAUL E. PATTON
GOVERNOR

CABINET FOR WORKFORCE DEVELOPMENT
OFFICE OF THE SECRETARY
CAPITAL PLAZA TOWER, 2nd FLOOR
500 MERO STREET
FRANKFORT, KENTUCKY 40601
PHONE (502) 564-6606 FAX (502) 564-7967

DIV OF PLANNING

2003 NOV 25 P 2: 28

W. H. LILE
SECRETARY

CONNECTING KENTUCKY TO EMPLOYMENT, WORKFORCE INFORMATION, EDUCATION AND TRAINING.

July 21, 2003

Ms. Annette Coffey, P.E.
Transportation Cabinet
Division of Planning
125 Holmes Street
Frankfort, KY 40622

Dear Ms. Coffey:

Re: Planning Study
Lyon and Caldwell Counties
U S 641, Eddyville to Fredonia

Thank you for the opportunity to respond to the Planning Study for US 641, from Eddyville to Fredonia. As Secretary of the Cabinet for Workforce Development, I believe that a good motor transportation route is of key importance to the goals of this agency. This agency is instrumental in working with the Economic Development Cabinet, the Education Cabinet, the Technical College System and other private and public entities in providing a well-trained workforce, thereby attracting industry and sustaining the state's economy. Such a workforce is now in existence throughout Kentucky and it grows stronger each year. However, the absence of adequate roadways, railways, waterways and air transportation systems is definitely detrimental to industrial growth and the economic development of the Commonwealth.

After reviewing the site plan for the construction of a new highway in the area described, I find that the Cabinet for Workforce Development has no objection to the project and I find no negative impact occurring upon the services provided by this agency. In fact, an improved roadway would most likely facilitate industrial development, residential development, and promote the growth of educational facilities throughout the region. I fully support the concept of a new roadway and wish you well in completing the project.



EQUAL EDUCATION AND EMPLOYMENT OPPORTUNITIES M/F/D

At this time, other than financial concerns due to the economic downturn and geographical considerations, I see no reason why the project should not be a major success for the citizens of this state. I remain available should you have additional questions. Thank you again for allowing me the opportunity for input.

Sincerely,

A handwritten signature in cursive script, appearing to read "W. H. Lile".

W. H. Lile, Secretary
Cabinet for Workforce Development

WL/



DIV OF PLANNING

DEPARTMENT OF CORRECTIONS
WESTERN KENTUCKY CORRECTIONAL COMPLEX
374 NEW BETHEL ROAD
FREDONIA, KY 42411
(270) 388-9781

NOV 11 2003 DEC -1 A 11: 33

November 12, 2003

Ms. Annette Coffey, P. E.
Director, Division of Planning
Kentucky Transportation Cabinet
125 Holmes Street
Frankfort, KY 40622

Dear Ms. Coffey:

In your correspondence dated October 27, 2003, you requested to be informed of any concerns we might have in reference to the new route for Highway 641.

Our mission is to provide, for the public, safety by maintaining custody and control of the residents housed at the Western Kentucky Correctional Complex; therefore, it would be our preference that the new highway not come any closer to the institution than the present situation.

If we may be of further assistance, please feel free to advise of such.

Respectfully,

A handwritten signature in cursive script, reading "Dale M. Watson", is written over the typed name.

Dale M. Watson
Warden



AN EQUAL OPPORTUNITY EMPLOYER M/F/D

WILDLIFE COMMISSION

right, Paducah
Bowling Green
Gailor, Louisville
Southall, Elizabethtown
Dr. James R. Rich, Taylor Mill, Chairman
Ben Frank Brown, Richmond
Doug Hensley, Hazard
Dr. Robert C. Webb, Grayson
David H. Godby, Somerset



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF FISH AND WILDLIFE RESOURCES
C. THOMAS BENNETT, COMMISSIONER

November 13, 2003

DIV OF PLANNING
2003 NOV 19 A 11:37

Annette Coffey, P.E.
Director, Division of Planning
KY Transportation Cabinet
125 Holmes Street
Frankfort, KY 40602

RE: Threatened/endangered species, critical habitat review, and potential environmental impacts for the US 641 Reconstruction, Lyon and Caldwell Counties, Kentucky.

Dear Ms. Coffey:

The Kentucky Department of Fish and Wildlife Resources (KDFWR) has received your request for the above-referenced information. The Kentucky Fish and Wildlife Information System indicates that the federally endangered Indiana bat and Gray bat are known to occur in the Fredonia 7.5 minute USGS quadrangle (see attachment). The bald eagle and pink mucket are known to occur in the Eddyville quadrangle. Please be aware that our database system is a dynamic one that only represents our current knowledge of the various species distributions.

The Kentucky Fish and Wildlife Information System (KFWIS) indicates that state threatened or endangered (T&E) species are known to occur in the Eddyville and Fredonia 7.5 minute USGS quadrangle (see attached list). Please use necessary precautions to minimize any impact this project may have on these species.

Based on this information, KDFWR makes the following recommendations.

In quadrangles in which gray bats are known to occur, any cave entrances that exist within the project area (i.e. the right-of-way and regeneration sites) should be surveyed for potential use by gray bats. Because gray bats are cave residents year-round and maternity colonies are generally found in close proximity to rivers, streams and lakes, any caves within the project area could offer potentially valuable habitat to resident gray bats. If a bat survey is necessary, please contact this office at (502) 564-7109 or the US Fish and Wildlife Service office at (502) 695-04681 for information on how to proceed.

In quadrangles in which Indiana bats are known to occur, any wooded areas that may be impacted by the proposed project should be examined for potential Indiana bat habitat. Indiana bats form maternity colonies and roost under the bark of trees in both riparian and upland areas. Therefore, disturbance of trees with exfoliating bark, dead limbs or cavities should be avoided when bat activity may occur. If a bat survey is necessary, please contact this office at (502) 564-7109 or the US Fish and Wildlife Service office at (502) 695-0468 for information on how to proceed.



Page Two
Ms. Coffey
November 13, 2003

The KDFWR recommends that you contact the appropriate US Corps of Engineers office (Louisville COE (502) 582-5452) and the Kentucky Natural Resources and Environmental Protection Cabinet, Division of Water (502) 564-3410 prior to any excavation within the waterways of Kentucky. Additionally, KDFWR recommends the following for the portions of the project that cross intermittent or perennial streams:

1. Development/excavation during a low flow period to minimize disturbance;
2. Proper placement of erosion control structures below highly disturbed areas to minimize entry of silt to the stream;
3. Replanting of disturbed areas after construction, including stream banks and right-of-ways, with native vegetation for soil stabilization and enhancement of fish and wildlife populations;
4. Return all disturbed instream habitat to its original condition upon completion of construction in the area;
5. Preservation of any tree canopy overhanging the stream;
6. Return all right-of-ways to original elevation.

I hope this information proves useful to you. If you have any questions or require additional comment, please call me at the above listed number, extension 366.

Sincerely,



Brad Pendley
Wildlife Biologist II
cc: Environmental Section File

COMMONNAME	SCIENTIFIC	COUNTYNAME	QUADNAME	FEDERAL	STATE
INDIANA BAT	Myotis sodalis	CALDWELL	FREDONIA	LE	E
PINK MUCKET	Lampsilis abrupta	LYON	EDDYVILLE	LE	E
GRAY MYOTIS	Myotis grisescens	CALDWELL	FREDONIA	LE	E
BALD EAGLE	Haliaeetus leucocephalus	LYON	EDDYVILLE	LT	E
SPOTTAIL SHINER	Notropis hudsonius	CRITTENDEN	FREDONIA	N	S
GREAT BLUE HERON	Ardea herodias	LYON	EDDYVILLE	N	S
RABBITSFOOT	Quadrula cylindrica cylindrica	LYON	EDDYVILLE	N	T
BARKING TREEFROG	Hyla gratiosa	CALDWELL	FREDONIA	N	S
CHAIN PICKEREL	Esox niger	LYON	EDDYVILLE	N	S
SEDGE WREN	Cistothorus platensis	LYON	FREDONIA	N	S
CHESTNUT LAMPREY	Ichthyomyzon castaneus	LYON	EDDYVILLE	N	S
BLACK BUFFALO	Ictiobus niger	LYON	EDDYVILLE	N	S
BARKING TREEFROG	Hyla gratiosa	LYON	FREDONIA	N	S
POCKETBOOK	Lampsilis ovata	LYON	EDDYVILLE	N	E
GREAT BLUE HERON	Ardea herodias	CRITTENDEN	FREDONIA	N	S
OSPREY	Pandion haliaetus	LYON	EDDYVILLE	N	T

HENRY C. LIST
SECRETARY



PAUL E. PATTON
GOVERNOR

DIV OF PLANNING

COMMONWEALTH OF KENTUCKY
NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION

DEPARTMENT FOR SURFACE MINING RECLAMATION & ENFORCEMENT
FRANKFORT, KENTUCKY 40601

CARL E. CAMPBELL
COMMISSIONER

2003 NOV 26 P 2:15

November 24, 2003

Annette Coffey, P.E., Director
Division of Planning
Kentucky Transportation Cabinet
125 Holmes Street
Frankfort, Kentucky 40622

RE: Planning Study
Lyon and Caldwell Counties
US 641, Reconstruction or Relocation from Eddyville to Fredonia

Dear Ms. Coffey:

Thank you for the opportunity to review and comment on the above referenced proposed highway project.

Personnel from our department's field offices have conducted a review of the information provided and have identified one active rock quarry located just east of US 641 between Eddyville and Fredonia on the Lyon and Caldwell county line. This quarry is permitted under the name of Martin Marietta Materials, Inc. (Permit Number 017-9403). The local address is 297 Fredonia Quarry Road, Fredonia, Kentucky 42411. The Latitude is 37° 10' 32" – Longitude 88° 01' 48" on the Fredonia quadrangle.

If my staff or I may be of any further assistance in this or any other matter, please do not hesitate to contact me at (502) 564-6940.

Sincerely,

Carl E. Campbell
Carl E. Campbell
Commissioner

CEC:JM:kac



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Wilson, Jimmy (KYTC)

From: Greer, Daryl (KYTC)
Sent: Wednesday, November 19, 2003 2:23 PM
To: Wilson, Jimmy (KYTC)
Cc: Tucker, Joseph (KYTC)
Subject: FW: Planning Studies

-----Original Message-----

From: Coffey, Annette (KYTC)
Sent: Wednesday, November 19, 2003 1:42 PM
To: Prewitt, Ben (KYTC)
Cc: Greer, Daryl (KYTC)
Subject: RE: Planning Studies

Thank you!

-----Original Message-----

From: Prewitt, Ben (KYTC)
Sent: Wednesday, November 19, 2003 1:41 PM
To: Coffey, Annette (KYTC)
Subject: Planning Studies

Our office finds that the proposed reconstruction/relocation of US 641 in Lyon and Caldwell Counties should not affect any public Kentucky airport. Insofar as Item #02-8102.00, in Union County, there should be no concern, unless KY 109, near the Sturgis Airport, is relocated/reconstructed.

HENRY C. LIST
SECRETARY



PAUL E. PATTON
GOVERNOR

COMMONWEALTH OF KENTUCKY
NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
DIVISION FOR AIR QUALITY
803 SCHENKEL LN
FRANKFORT KY 40601-1403

November 6, 2003

DIV OF PLANNING
2003 NOV 10 A 11:31

Ms. Annette Coffey, P.E.
Director, Division of Planning
Kentucky Transportation Cabinet
125 Holmes Street
Frankfort, Kentucky 40622

Dear Ms. Coffey:

The Division has reviewed the Planning Study for the proposed reconstruction or relocation of US 641 from Eddyville in Lyon County to Fredonia in Caldwell County. The following Kentucky Administrative Regulations apply to this proposed project:

Kentucky Division for Air Quality Regulation **401 KAR 63:010** Fugitive Emissions states that no person shall cause, suffer, or allow any material to be handled, processed, transported, or stored without taking reasonable precaution to prevent particulate matter from becoming airborne. Additional requirements include the covering of open bodied trucks, operating outside the work area transporting materials likely to become airborne, and that no one shall allow earth or other material being transported by truck or earth moving equipment to be deposited onto a paved street or roadway. Please note the attached Fugitive Emissions Fact Sheet.

Kentucky Division for Air Quality Regulation **401 KAR 63:005** states that open burning is prohibited. Open Burning is defined as the burning of any matter in such a manner that the products of combustion resulting from the burning are emitted directly into the outdoor atmosphere without passing through a stack or chimney. However, open burning may be utilized for the expressed purposes listed on the attached Open Burning Fact Sheet incorporated by reference in 401 KAR 63:005 Section 3, Prohibition of Open Burning.

Finally, the projects listed in this document must meet the conformity requirements of the Clean Air Act as amended and the transportation planning provisions of Title 23 and Title 49 of United States Code.

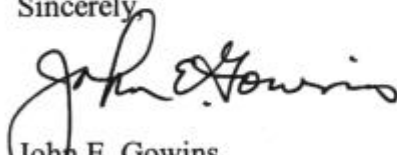


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Ms. Annette Coffey Letter
November 6, 2003
Page 2

Every effort should be made to maintain compliance with the preceding regulations and requirements. The Division also suggests an investigation into compliance with applicable regulations in the local governments. If there are any questions relating to this matter, please contact me at (502) 573-3382 extension 347.

Sincerely,

A handwritten signature in black ink, appearing to read "John E. Gowins". The signature is fluid and cursive, with the first name "John" being more prominent.

John E. Gowins
Supervisor, Evaluation Section
Program Planning & Administration Branch

JEG/jmf

Attachments

Kentucky Intergovernmental Review Process

Division for Air Quality – Fugitive Emissions Comments

The project to which this comment is attached involves construction, renovation, demolition, or some other activity, which might result in the generation of fugitive emissions. The Kentucky Division for Air Quality conditionally approves the proposed project, contingent upon conformance with regulatory requirements for fugitive emissions. The information listed below provides guidelines on Kentucky's fugitive emissions regulations:

Fugitive Emissions means the emissions of any air contaminant into the open air other than from a stack or air pollution control equipment exhaust.

Affected Facility means an apparatus, operation, road which emits or may emit fugitive emissions provided that the fugitive emissions from such facility are not elsewhere subject to an opacity standard within the administrative regulations of the Division for Air Quality.

Open Air means the air outside buildings, structures, and equipment.

Kentucky Division for Air Quality Regulation 401 KAR 63:010 states that no person shall cause, suffer, or allow any material to be handled, processed, transported, or stored; a building or its appurtenances to be constructed, altered, repaired, or demolished, or a road to be used without taking reasonable precaution to prevent particulate matter from becoming airborne. Such reasonable precautions shall include, when applicable, but not be limited to the following:

- Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operation, the grading of roads or the clearing of land.
- Application and maintenance of asphalt, oil, water, or suitable chemicals on roads materials stockpiles, and other surfaces which can create airborne dusts.
- Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty materials, or the use of water sprays or other measures to suppress the dust emission during handling. Adequate containment methods shall be employed during sandblasting or other similar operations.
- Covering at all times, when in motion, open bodied trucks transporting materials likely to become airborne.
- The maintenance of paved roadways in a clean condition.
- The prompt removal of earth or other material from a paved street, which earth or other material has been transported thereto by trucking or earth moving equipment or erosion by water.

- No person shall cause or permit the discharge of visible fugitive dust emissions beyond the lot line of the property on which the emissions originate.
- When dust, fumes, gases, mist, odorous matter, vapors, or any combination thereof escape from a building or equipment in such a manner and amount as to cause a nuisance or to violate any administrative regulation, the secretary may order that the building or equipment in which processing, handling, and storage are done be tightly closed and ventilated in such a way that all air and gases and air or gas-borne material leaving the building or equipment are treated by removal or destruction of air contaminants before discharge to the open air.
- The provisions of this administrative regulation shall not apply to agricultural practices, such as tilling of the land or application of fertilizers, which take place on a farm.
- At all times when in motion, open bodied trucks, operating outside company property, transporting materials likely to become airborne shall be covered.
- Agricultural practices, such as tillage of land or application of fertilizers, which take place on a farm shall be conducted in such a manner as to not create a nuisance to others residing in the area. Agricultural practices are not subject to the opacity standard.
- The provisions of Section 3(1) and (2) of this administrative regulation shall not be applicable to temporary blasting or construction operations.
- No one shall allow earth or other materials being transported by truck or earth moving equipment to be deposited onto a paved street or roadway.

The requirements for Fugitive Emissions may found in the following regulation:

401 KAR 63:010 Fugitive Emissions

Questions may be directed to the Division for Air Quality, Field Operations Branch, at 502-573-3382.

Kentucky Intergovernmental Review Process

Division for Air Quality – Open Burning Comments

The project to which this comment is attached involves construction, renovation, demolition, or some other activity which might result in the accumulation of materials and/or debris which is subject to disposal. The Kentucky Division for Air Quality conditionally approves the proposed project, contingent upon conformance with open burning prohibitions. Open burning is generally prohibited and the information listed below provides guidelines on Kentucky's open burning regulations:

Open burning means the burning of any matter in such a manner that the products of combustion resulting from the burning are emitted directly into the outdoor atmosphere without passing through a stack or chimney.

Kentucky Division for Air Quality Regulation 401 KAR 63:005 states that no person shall open burn. Fires may be set for the following purposes, provided that they do not violate any of the provisions of KRS Chapter 149, 150, 227, or any other law of the Commonwealth of Kentucky, including local ordinances:

- Noncommercial food preparation for human consumption.
- Recreational or ceremonial purposes.
- Comfort heating, providing excessive or unusual smoke is not created.
- Weed abatement, disease, and pest prevention.
- Prevention of a fire hazard, including the disposal of dangerous materials where no safe alternative is available.
- Bona fide instruction and training of public and industrial employees in the methods of fighting fires.
- Recognized agricultural, silvicultural, range, and wildlife management practices.
- Burning of leaves by individual homeowners except in cities with populations greater than 8,000.
- Disposal of household paper products, originating at dwellings of five (5) family units or less, which fires are maintained by an occupant of the dwelling at the dwelling, except in cities with populations greater than 8,000.
- Disposing of accidental spills leaks of crude oil, petroleum products or other organic materials, and the disposal of absorbent material used in their removal, where no other economically feasible means of disposal is available and practical and provided permission is obtained from the Cabinet prior to burning.
- Disposal of natural growth for land clearing, and trees and tree limbs felled by storms, provided that no extraneous material such as tires or heavy oil which tend to produce dense smoke are used to cause ignition or aid combustion and the burning is done on sunny days with mild winds. With respect to particulate matter, the emissions from such fires shall not be equal to or greater than 40% opacity.

The Division of Forestry advises that precautions be taken when open burning materials which can be burned. Burn only between 4:30pm and midnight, if you are within 150 feet of the woods during spring and fall fire hazard season (March 1 – May 15 & October 1 – December 15). During other months of the year, the Division for Air Quality however, advises to burn legal materials on sunny days with mild winds, in order to have conditions for good dispersion of the pollutants.

The environmental concerns relating to air quality include the toxic emissions from the combustion of asphaltic shingles, painted or treated wood, insulation on wiring, and synthetic materials such as carpeting, carpet pads, and upholstery; lead from lead based painted materials; and asbestos emissions from pipe lagging, transite siding shingles, or asbestos contained in asphaltic roofing shingles. Applicable air quality regulations include:

- | | |
|----------------|--|
| 401 KAR 63:005 | Open burning; |
| 401 KAR 63:020 | Potentially hazardous matter or toxic substances; |
| 401 KAR 63:022 | New or modified sources emitting toxic air pollutants; |
| 401 KAR 57:011 | Asbestos standards (NESHAP); and |
| 401 KAR 63:042 | Requirements for asbestos abatement entities. |

Questions may be directed to the Division for Air Quality, Field Operations Branch, at 502-573-3382.

C-17 Geotech
Blevins

A-2

MEMORANDUM

PLANNING

2003 DEC -1 A 11:28

TO: Annette Coffey, P.E.
Director
Division of Planning

FROM: William Broyles P. E.
Geotechnical Engineering
Branch Manager
Division of Materials

BY: Michael Blevins P. G. MB
Geotechnical Branch

DATE: November 26, 2003

SUBJECT: Lyon and Caldwell Counties
Planning Study
US 641, Eddyville - Fredonia

The Branch has completed a review of the study area. The project is located within the Eddyville and Fredonia Geologic Quadrangle. The study area is underlain with Quaternary Alluvium which is mainly clay and silts with minor amounts of sand and gravel along the stream valleys with a depth up to 60 feet thick. Bedrock in the study area includes the Ste. Genevieve Limestone, St. Louis Limestone, and Salem Limestone.

The Ste. Genevieve Limestone is divided into three members, the Levias Limestone Member, Rosiclare Sandstone Member and Fredonia Limestone Member. Surface streams are rarely found over this formation and sinkholes are very common as shown on the attached geologic map.

The St. Louis Limestone and Salem Limestone are chiefly Limestone Formations with minor amounts of shale occurring as interbeds. The St. Louis Limestone is divided into two members, (the upper and lower member). Sinkholes are common in the upper member of this formation. The formations are indicated on the attached map for reference.

Several faults exist in the vicinity of Eddyville. These faults trend Northeast – Southwest. The existing 641 route crosses one of the faults and any alternates will cross the same fault.

Memorandum
Annette Coffey
November 26, 2003
Page-2-

The geotechnical concerns are as follows:

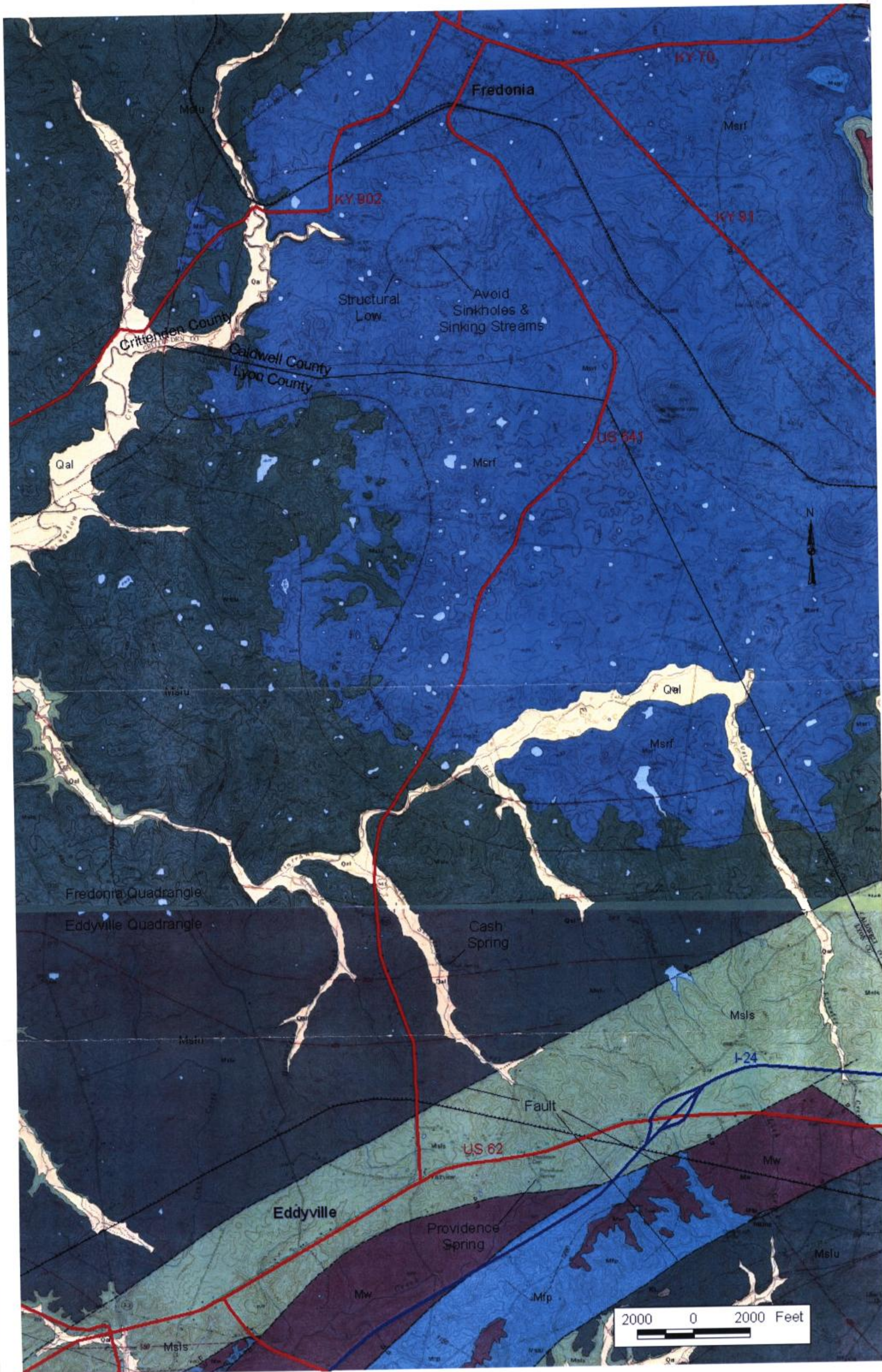
1) Due to the faulting in the vicinity of Eddyville, any bedrock encountered in the cut sections will likely contain many fractures and joints. Cut slopes in rock may be required to be flatter than normal.

2) Several springs are indicated on the geologic map. The branch recommends avoiding these. Unmapped springs may also be present and field investigations should be completed before any final alternates are chosen. The springs are located on the attached geologic map.

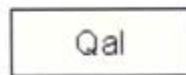
3) Many sinkholes are indicated on the attached geologic map. It is preferred to avoid as many sinkholes as possible. Mitigation measures of surface runoff into sinkholes may be required to protect ground water quality and contamination from possible hazardous spills. These may include grass lined ditches and/or retention basins.

4) A structural low exist on the Fredonia Quadrangle and has numerous sinkholes developed within the area. An unnamed surface stream flows into the sinkholes around the structural low. To avoid disturbing any sinkholes, filling over sinkholes, and prevent possible flooding of this area, all alternate corridors should avoid this area.

If there are any questions, please advise.



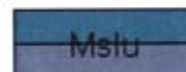
Geologic Explanation



Alluvium



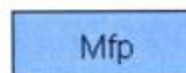
Ste. Genevieve Limestone
Rosiclare Sandstone and Fredonia
Limestone Members



upper member of St. Louis Limestone



lower member of St. Louis Limestone
and Salem Limestone



Fort Payne Formation



Warsaw Limestone



Contact

Dashed where approximately located; short dashed where inferred, indefinite or gradational; dotted where concealed



Fault

Dashed where approximately located; short dashed where inferred, dotted where concealed. U, upthrown side; D, downthrown side



Drawn on base of Bethel Sandstone. Long dashed where datum is above land surface. Arrow indicates direction of dip. Hachures indicate closed basin. Contour interval 50 feet. Contours not shown where data insufficient



Commonwealth of Kentucky
Transportation Cabinet
Frankfort, Kentucky 40622

DIV OF PLANNING

2003 OCT 28 P 2: 41

James C. Codell, III
Secretary of Transportation

Clifford C. Linkes, P.E.
Deputy Secretary

Paul E. Patton
Governor

MEMORANDUM

TO: Annette Coffey, P.E.
Director
Division of Planning

FROM: Phillip Mann
Acting Branch Manager
Permits Branch *PM m. esse*

DATE: October 28, 2003

RE: Planning Study
Lyon and Caldwell Counties
US 641, Reconstruction or Relocation from Eddyville to Fredonia

The Permits Branch has reviewed the data provided for subject study site and wish to offer the following.

1. We urge the Cabinet to classify this project and all new projects as partially controlled access facilities.
2. Assuming the project is partial control access, we encourage all possible access points be set on the plans in accordance with 603 KAR 5:120, even if they are not to be constructed at that time.
3. When buying R/W for this and all reconstruction routes, assuming the access control is partial control, new deed for all adjoining property owners need to be executed to identify the access control even if no new R/W is acquired,
4. In addition, we would like to make every effort possible to have the design speed to be the same as anticipated posted speed when the project is complete.
5. We would like to see access control fence installed with the project.
6. If the proposed roadway is to be on the N. H. S., early notification of the final line and grade is needed. This enables us to monitor outdoor advertising devices prior to road construction being completed.
7. Please notify this office if the proposed roadway is to be placed on the National Highway System. This information is needed to assist this office in regulating the installation of any outdoor advertising device.

Thank you for the opportunity to verbalize our concerns.

DPM/elc



Wilson, Jimmy (KYTC)

From: Ballard, Kim (NREPC, DEP)
Sent: Tuesday, November 18, 2003 2:05 PM
To: Wilson, Jimmy (KYTC)
Cc: Hatton, Tony (NREPC, DEP)
Subject: DOT Planning Study-Lyon & Caldwell Counties

On behalf of Tony Hatton, Acting Director:

Division of Waste Management's comments on:
Planning Study
Lyon & Caldwell Counties

Resource Conservation & Local Assistance Branch (contact Tom Heil):
Request the use of Pulverized Glass Aggregate (PGA) in roadbed construction, where feasible.

Superfund Branch (contact Fazi Sherkat):



Superfund Sites By
County For ...

Underground Storage Tank Branch (contact Lori Terry):



caldwell_lyon_dot.xls

County Name LOGAN

Incident Id	Name	Date Received	Spill Class	Incident Type	Status	Nearest Community	Latitude	Longitude	Section
17243	ROCKWELL INTERNATIONAL	02/16/2001	HAZARDOUS SUBSTANCE POLLUTANT/CONTAMINANT	PCBS	CLOSED	Russellville			STATE SUPERFUND
20212	RUSSELLVILLE 1959	02/13/1998	HAZARDOUS SUBSTANCE	GAS PIPELINES	CLOSED	RUSSELLVILLE	36.84528	-86.88722	PETROLEUM
20213	RUSSELLVILLE 2 1960	02/13/1998	HAZARDOUS SUBSTANCE	GAS PIPELINES	CLOSED	RUSSELLVILLE	36.84528	-86.88722	PETROLEUM
32959	RUSSELLVILLE BURNING	05/12/1994	POLLUTANT/CONTAMINANT	OPEN BURNING	CLOSED	RUSSELLVILLE	36.84528	-86.88722	STATE SUPERFUND
17244	RUSSELLVILLE CITY DUMP	02/16/2001			ACTIVE	Russellville			STATE SUPERFUND
47906	RUSSELLVILLE NAT. GUARD ARMORY	03/16/1998	PETROLEUM	FACILITY SPILL	CLOSED	RUSSELLVILLE	36.84528	-86.88722	PETROLEUM
17370	RUSSELLVILLE SANITATION CO. LANDFILL #071.05	02/20/2001			ACTIVE	Russellville			STATE SUPERFUND
17372	RUSSELLVILLE SANITATION CO. LANDFILL #071.06	02/20/2001			ACTIVE	Russellville			STATE SUPERFUND
17373	RUSSELLVILLE SANITATION COMPANY	02/20/2001			ACTIVE	Russellville			STATE SUPERFUND
20512	SHIFFLETT PROPERTY	01/12/1994	HAZARDOUS SUBSTANCE	ILLEGAL HAZWASTE DISPOSAL	ACTIVE	RUSSELLVILLE	36.8656	-86.8638	STATE SUPERFUND
110268	STOKER WELL	04/09/2003	HAZARDOUS SUBSTANCE	GROUNDWATER (POTABLE) OTHER	ACTIVE	RUSSELLVILLE	36.825944	-86.91269	STATE SUPERFUND
43905	TARCO	03/14/1997			CLOSED	RUSSELLVILLE	36.84528	-86.88722	PETROLEUM
17236	TVA - HOMER L. OWENS SUBSTATION CAPACITORS	02/16/2001			ACTIVE	Russellville			STATE SUPERFUND
58823	VENTRA PLASTICS	09/26/2002		FACILITY SPILL	CLOSED	RUSSELLVILLE	36.84528	-86.88722	PETROLEUM
110055	VENTRA PLASTICS	05/15/2003		FACILITY SPILL	CLOSED	RUSSELLVILLE	36.84528	-86.88722	PETROLEUM
60388	VENTRA PLASTICS	09/27/2002		FACILITY SPILL	CLOSED	RUSSELLVILLE	36.84528	-86.88722	PETROLEUM

Count of sites in LOGANCounty 34

County Name LYON

Incident Id	Name	Date Received	Spill Class	Incident Type	Status	Nearest Community	Latitude	Longitude	Section
11296	BOYDS LANDING - COAST GUARD AID	09/26/2000	POLLUTANT/CONTAMINANT	ILLEGAL HAZWASTE DISPOSAL	ACTIVE		36.9935	-88.1638	STATE SUPERFUND
51646	CWM RESOURCE MANAGEMENT	02/02/1999	HAZARDOUS SUBSTANCE	LEAKING CARGO	CLOSED	EDDYVILLE			STATE SUPERFUND
20184	EDDYVILLE 1886	02/13/1998	HAZARDOUS SUBSTANCE	GAS PIPELINES	CLOSED	EDDYVILLE	37.09444	-88.08028	PETROLEUM
11298	HAYES LANDING - COAST GUARD AID	09/26/2000	POLLUTANT/CONTAMINANT	ILLEGAL HAZWASTE DISPOSAL	ACTIVE		36.9632	-88.0377	STATE SUPERFUND
20179	KUTTAWA 1480C	02/12/1998		GAS PIPELINES	CLOSED	KUTTAWA	37.05889	-88.1325	PETROLEUM
54305	KUTTAWA FIRE/EXPLOSION	11/22/1999	HAZARDOUS SUBSTANCE	FIRE/EXPLOSION	CLOSED	KUTTAWA	37.05889	-88.1325	STATE SUPERFUND
20232	KUTTAWA KY 1480	02/12/1998	HAZARDOUS SUBSTANCE	GAS PIPELINES	CLOSED	KUTTAWA	37.05889	-88.1325	PETROLEUM
11355	LIVINGSTON - COAST GUARD AID	09/27/2000	POLLUTANT/CONTAMINANT	ILLEGAL HAZWASTE DISPOSAL	ACTIVE	KUTTAWA	37.001	-88.134	STATE SUPERFUND
20533	LYON COUNTY DRUMS	01/11/1994	POLLUTANT/CONTAMINANT	ABANDONED DRUMS	CLOSED	EDDYVILLE	37.09444	-88.08028	STATE SUPERFUND
967	MARATHON ASHLAND PETROLEUM	12/07/1999	PETROLEUM	FACILITY SPILL	CLOSED	KUTTAWA	37.05889	-88.1325	PETROLEUM
11297	MONEY CLIFF - COAST GUARD AID	09/26/2000	POLLUTANT/CONTAMINANT	ILLEGAL HAZWASTE DISPOSAL	ACTIVE		37.0312	-88.1417	STATE SUPERFUND
11586	PEGGYS	10/03/2000	POLLUTANT/CONTAMINANT	ILLEGAL HAZWASTE	ACTIVE	DRYDEN ESTATES	36.887	-88.1637	STATE SUPERFUND

Superfund Information System
Sites by County

Commonwealth of Kentucky
NREPC
DWM

County Name LYON

Incident Id Name

11299 SHELLY ISLAND - COAST GUARD AID
42223 W. KY CORRECTIONAL COMPLEX
11584 WEST ENTRANCE CANAL - COAST GUARD AID
45839 WKCC

Count of sites in LYON County 16

County Name MADISON

Incident Id Name

120723 ADRIAN DOTSON RESIDENCE
41661 ALLEN CO. SPILL
36088 BERE A ABANDONED DRUMS
17375 BLUE GRASS PLATING CO.
17377 BLUE GRASS PLATING SLUDGE PITS
37880 BOONE VARIETY
20675 BUILDERS CONCRETE BLOCK
2024 CALDWELL DISCOUNT GROCERY
17391 CHENAULT RECTIFIERS
34957 COLUMBIA GULF - BYBEE / COLUMBIA GAS AND TRANSMIS
34958 COLUMBIA GULF - DELTA KINGSTON / COLUMBIA GAS AND
34961 COLUMBIA GULF - TRANEX / COLUMBIA GAS AND TRANSMIS
47439 COX LUXON REALTY
47303 COX'S AUTO
17379 DREAMING CREEK SITE
14621 DRUM NEAR BLUE GRASS ARMY DEPOT
41026 GOODYEAR STORE #6260
41654 I-75 EXIT 90 / NORTH STAR TRANSPORT, WILLIAM SCANN
48058 K I USA
36133 KARATE CLUB DRUM
17381 KELLER INDUSTRIES - BERE A PLANT
31616 KOKOKU RUBBER
33185 KY LOCK (#10) AND DAM SITES / U. S. ARMY CORPS OF ENGINEERS
17383 MADISON SANITARY LANDFILL

Date Received	Spill Class	Incident Type	Status	Nearest Community	Latitude	Longitude	Section
09/26/2000	POLLUTANT/CONTAMINANT	DISPOSAL	ACTIVE		36.9354	-88.014	STATE SUPERFUND
10/15/1996	PETROLEUM	DISPOSAL	CLOSED	EDDYVILLE	37.09444	-88.08028	PETROLEUM
10/03/2000	POLLUTANT/CONTAMINANT	ILLEGAL HAZWASTE DISPOSAL	ACTIVE	CROSS ROAD	36.9851	-88.2335	STATE SUPERFUND
09/12/1997	PETROLEUM	OTHER	CLOSED	EDDYVILLE	37.09444	-88.08028	PETROLEUM

Date Received	Spill Class	Incident Type	Status	Nearest Community	Latitude	Longitude	Section
10/21/2003		UST (EXEMPT)	CLOSED	BEREA	37.572667	-84.28297	PETROLEUM
08/12/1996	PETROLEUM	FACILITY SPILL	CLOSED	BEREA	37.56861	-84.29639	PETROLEUM
03/20/1995	OTHER	ABANDONED DRUMS	CLOSED	BEREA	37.56861	-84.29639	STATE SUPERFUND
02/20/2001			ACTIVE	Richmond			STATE SUPERFUND
02/20/2001			ACTIVE	Richmond			STATE SUPERFUND
10/26/1995	PETROLEUM	FACILITY SPILL	CLOSED	RICHMOND	37.74778	-84.29472	PETROLEUM
01/11/1994	PETROLEUM	UST (EXEMPT)	CLOSED	RICHMOND	37.74778	-84.29472	STATE SUPERFUND
01/12/2000			CLOSED	RICHMOND	37.754444	-84.28	PETROLEUM
02/20/2001			ACTIVE	Richmond			STATE SUPERFUND
11/10/1994			ACTIVE	BYBEE	37.73306	-84.12472	STATE SUPERFUND
11/10/1994			ACTIVE	KINGSTON			STATE SUPERFUND
11/10/1994			ACTIVE	RICHMOND			STATE SUPERFUND
02/12/1998	PETROLEUM	FACILITY SPILL	CLOSED	RICHMOND	37.74778	-84.29472	PETROLEUM
01/27/1998	PETROLEUM	OIL SHEEN	CLOSED	RICHMOND	37.74778	-84.29472	PETROLEUM
02/20/2001			ACTIVE	Richmond			STATE SUPERFUND
12/21/2000			CLOSED	Richmond	37.74778	-84.29472	STATE SUPERFUND
06/21/1996	PETROLEUM	UST (EXEMPT)	CLOSED	Richmond	37.74778	-84.29472	PETROLEUM
08/11/1996			ACTIVE	RICHMOND			STATE SUPERFUND
04/06/1999	PETROLEUM	ABANDONED DRUMS	ACTIVE	Richmond			STATE SUPERFUND
03/22/1995	POLLUTANT/CONTAMINANT	TRANSPORTATION ACCIDENT	CLOSED	Richmond	37.60417	-84.31083	PETROLEUM
02/20/2001		MULTIPLE INCIDENTS	CLOSED	Richmond	37.74778	-84.29472	STATE SUPERFUND
05/13/1994	HAZARDOUS SUBSTANCE	ABANDONED DRUMS	ACTIVE	Berea			STATE SUPERFUND
04/15/1994	HAZARDOUS SUBSTANCE	OPEN DUMPING	CLOSED	RICHMOND	37.74778	-84.29472	STATE SUPERFUND
02/20/2001		SOIL CONTAMINATION	ACTIVE	RICHMOND	37.89452	-84.26529	STATE SUPERFUND
			ACTIVE	Pinola			STATE SUPERFUND

Superfund Information System
Sites by County

Commonwealth of Kentucky
NREPC
DWM

County Name BUTLER

Incident Id	Name	Date Received	Spill Class	Incident Type	Status	Nearest Community	Latitude	Longitude	Section
33675	KANE INDUSTRIES	06/13/1994	PETROLEUM	UST (EXEMPT)	CLOSED	MORGANTOWN	37.22556	-86.68361	PETROLEUM
34716	KANE INDUSTRIES	10/13/1994	PETROLEUM	UST (EXEMPT)	CLOSED	MAORGANTOWN			STATE SUPERFUND
43061	KELLWOOD APPAREL GROUP	01/08/1997	PETROLEUM	OTHER	CLOSED	MORGANTOWN	37.22556	-86.68361	STATE SUPERFUND
54011	MASON CEMETERY ROAD DRUMS	10/04/1999	HAZARDOUS SUBSTANCE	ABANDONED DRUMS	CLOSED	BUTLER CO	37.11642	-86.71849	STATE SUPERFUND
48747	MORGANTOWN DRUM	05/21/1998			CLOSED	MORGANTOWN	37.23383	-86.7067	STATE SUPERFUND

Count of sites in BUTLER County 8

County Name CALDWELL

Incident Id	Name	Date Received	Spill Class	Incident Type	Status	Nearest Community	Latitude	Longitude	Section
15116	CHEVRON DISTRIBUTION F.M. WILCOX, INC.	01/04/2001			ACTIVE	Princeton			STATE SUPERFUND
15123	CRIDER AND ROGERS LANDFILL	01/04/2001			CLOSED	Princeton			STATE SUPERFUND
35356	CRIDER AND ROGERS LANDFILL	12/29/1994	HAZARDOUS SUBSTANCE	LANDFILL	ACTIVE	PRINCETON	37.15556	-87.86667	FEDERAL SUPERFUND
34318	FISH N MORE RESTAURANT	09/06/1994	PETROLEUM	UST (EXEMPT)	CLOSED	PRINCETON	37.10917	-87.88194	STATE SUPERFUND
50301	GEORGE COLEMAN PROPERTY	09/25/1998	OTHER	OPEN DUMPING	CLOSED	PRINCETON	37.10917	-87.88194	STATE SUPERFUND
15121	I.C.G. RAILROAD DERAILMENT	01/04/2001			ACTIVE	Clackson			STATE SUPERFUND
15122	ITT GRINNELL WELDING PRODUCTS DIVISION	01/04/2001			ACTIVE	Princeton			STATE SUPERFUND
20190	MARION 1940	02/13/1998	HAZARDOUS SUBSTANCE	GAS PIPELINES	CLOSED	MARION			PETROLEUM
20191	MARION 1940C	02/13/1998	HAZARDOUS SUBSTANCE	GAS PIPELINES	CLOSED	MARION			PETROLEUM
42981	MID-STATE AUTOMOTIVE	01/02/1997	PETROLEUM	FACILITY SPILL	CLOSED	PRINCETON	37.10917	-87.88194	PETROLEUM
60848	PRINCETON HOSIERY MILL	10/05/2001		ABANDONED DRUMS	CLOSED	PRINCETON	37.110361	-87.88986	STATE SUPERFUND
37016	PRINCETON PCB CAPACITORS	06/13/1995	HAZARDOUS SUBSTANCE	ABANDONED DRUMS	CLOSED	PRINCETON	37.10917	-87.88194	STATE SUPERFUND
39902	THOMPSON STEEL PIPE COMPANY	03/22/1996	PETROLEUM	FACILITY SPILL	CLOSED	PRINCETON	37.10917	-87.88194	PETROLEUM

Count of sites in CALDWELL County 13

County Name CALLOWAY

Incident Id	Name	Date Received	Spill Class	Incident Type	Status	Nearest Community	Latitude	Longitude	Section
11320	BLOOD RIVER - COAST GUARD AID	09/26/2000	POLLUTANT/CONTAMINANT	ILLEGAL HAZWASTE DISPOSAL	CLOSED	Murray	36.6392	-88.05719	STATE SUPERFUND
15125	CALLOWAY DUMP	01/04/2001			ACTIVE	Murray			STATE SUPERFUND
50733	DIXIELAND CENTER / HAVERSTOCK, BELL & PITMAN	10/13/1998	HAZARDOUS SUBSTANCE	FACILITY SPILL	ACTIVE	MURRAY	36.61833	-88.31667	STATE SUPERFUND
47968	ECOLOGY SYSTEMS LANDFILL	03/17/1998	HAZARDOUS SUBSTANCE	LANDFILL	ACTIVE	MURRAY	36.60222	-88.19333	STATE SUPERFUND
15126	ECOLOGY SYSTEMS, INC.	01/04/2001		LANDFILL	CLOSED	Murray			STATE SUPERFUND
47414	GEORGE NICHOLS DRUMS	02/04/1998	HAZARDOUS SUBSTANCE	ABANDONED DRUMS	CLOSED	MURRAY	36.61028	-88.31472	STATE SUPERFUND
8023	KENLAKE FOODS	06/23/2000	PETROLEUM	OTHER	ACTIVE	MURRAY	36.61028	-88.31472	PETROLEUM
45373	MATTEL	08/22/1997		FACILITY SPILL	CLOSED	MURRAY	36.61028	-88.31472	PETROLEUM
48008	MATTEL	03/23/1998	OTHER	FACILITY SPILL	CLOSED	MURRAY	36.61028	-88.31472	PETROLEUM

COUNTY_CODE	COUNTY_NAME	SITE_SEQ_ID	SITE_NAME	NVL(C.STREET_ADDRESS,C.PO_ADDRESS)	CITY	ST	POSTAL_CO
17	CALDWELL	34017	FREDONIA VALLEY QUARRIES	RT 2	FREDONIA	KY	42411
17	CALDWELL	56017	TRICE HUGHES CHEVROLET INC	HWY 91 N	PRINCETON	KY	42445
17	CALDWELL	202017	ONE STOP 10	S JEFFERSON	PRINCETON	KY	42445
17	CALDWELL	203017	PARKWAY BP	312 HWY 91 N	PRINCETON	KY	42445
17	CALDWELL	757017	CALDWELL COUNTY/MAINT GARAGE	WESTERN KY PKWY N PRINCETON	PRINCETON	KY	42445
17	CALDWELL	915017	SOUTH CENTRAL PRTNKYES REAL ES	405 MARKET ST 53676	PRINCETON	KY	42445
17	CALDWELL	1002017	C & K AUTO REPAIR	970 DAWSON RD	PRINCETON	KY	42445
17	CALDWELL	1003017	TMART 536 (MINIT MART #2227)	303 W HWY 62	PRINCETON	KY	42445
17	CALDWELL	1004017	HEATONS CITGO (PRINCETON FAST LUBE) (ASHLAND)	495 MARION RD	PRINCETON	KY	42445
17	CALDWELL	1005017	CITY OF PRINCETON	310 S MCNARY ST	PRINCETON	KY	42445
17	CALDWELL	1008017	VALLEY INN RESTAURANT	CASSIDY & CRIDER ST	FREDONIA	KY	42411
17	CALDWELL	1009017	CROWTOWN STORE	800 MARION RD (HWY 91)	PRINCETON	KY	42445
17	CALDWELL	1010017	BUILD RITE LUMBER	HWY 641 S	FREDONIA	KY	42411
17	CALDWELL	1011017	HOLEMAN PROPERTY	13660 DAWSON RD	DAWSON SPRINGS	KY	42408
17	CALDWELL	1160017	PRINCETON WASTEWATER TREATMENT P	2540 CADIZ RD	PRINCETON	KY	42445
17	CALDWELL	1454017	S R 139	UNKNOWN	FARMERSVILLE	KY	42445
17	CALDWELL	1521017	U C MILK CO INC	HOPKINSVILLE & CADIZ ST	PRINCETON	KY	42445
17	CALDWELL	1576017	FREDONIA FOOD & MORE	101 CASSIDY AVE	FREDONIA	KY	42411
17	CALDWELL	1670017	J DOUGLAS OSTING DBA FARMERS D	116 E MARKET	PRINCETON	KY	42445
17	CALDWELL	1734017	JUNIOR RAY BEAVERS	300 S CAVE ST	PRINCETON	KY	42445
17	CALDWELL	1770017	CRUCES CROSSROADS	7660 FARMERSVILLE RD	PRINCETON	KY	42445
17	CALDWELL	1807017	PRINCETON ELECTRIC PLANT BOARD	304 E LEGION DR	PRINCETON	KY	42445
17	CALDWELL	2103017	CMI PRINCETON INC	HWY 128	PRINCETON	KY	42445
17	CALDWELL	2150017	THOMAS CAYCE	ROUTE 3	PRINCETON	KY	42445
17	CALDWELL	2339017	BIG O MARKET (ONE STOP #8)	501 N JEFFERSON	PRINCETON	KY	42445
17	CALDWELL	2380017	FARMERSVILLE COUNTRY STORE	4000 FARMERSVILLE RD	PRINCETON	KY	42445
17	CALDWELL	2444017	DON HANCOCK	HWY 62 W	PRINCETON	KY	42445
17	CALDWELL	2728017	IDEAL #15 (ROCKET OIL)	1000 W MAIN ST	PRINCETON	KY	42445
17	CALDWELL	2797017	FREDONIA BULK PLT (ABM 251 0121)	106 CASSIDY AVE	PRINCETON	KY	42445
17	CALDWELL	3129017	FREDONIA ASHLAND	HWY 641 & 91	FREDONIA	KY	42411
17	CALDWELL	3154017	CHAMBERS MARKET	1137 DAWSON RD	FREDONIA	KY	42411
17	CALDWELL	3306017	THE KENTUCKY STONE COMPANY	HWY 91 2 1/2 MI SE OF PRINCETON	PRINCETON	KY	42445
17	CALDWELL	3324017	KILGORE SERVICE STATION	129 E MAIN ST	PRINCETON	KY	42445
17	CALDWELL	3370017	FARMERS CROP SERVICE	HWY 62 W	PRINCETON	KY	42445
17	CALDWELL	3396017	# 1290116	DEPOT ST	PRINCETON	KY	42445
17	CALDWELL	3544017	MAX ARNOLD & SONS LLC DBA MAXFUEL #27	490 MARION RD	PRINCETON	KY	42445

17 CALDWELL	3721017 WEST KENTUCKY SUBSTATION	HWY 91 BLDG 7813	PRINCETON	KY	42445
17 CALDWELL	3915017 U-RIDE INC	HWY 91 WK PKWY	PRINCETON	KY	42445
17 CALDWELL	5114017 CALDWELL CO SCHOOLS/BUS GARAGE	119 YOUNG ST	PRINCETON	KY	42445
17 CALDWELL	5115017 FREDONIA FLEA MARKET (ELEM SCHL)	BOX 177	FREDONIA	KY	42411
17 CALDWELL	5390017 CALDWELL CO FISCAL CT	115 E MARKET ST	PRINCETON	KY	42445
17 CALDWELL	5484017 FORD LEASING DEVELOPMENT COMPANY	HWY 62 W	PRINCETON	KY	42445
17 CALDWELL	5517017 MAX FUEL #10	400 HWY 62 W	PRINCETON	KY	42445
17 CALDWELL	5774017 JERRY'S MARKET (MACS MARKET)	911 HOPKINSVILLE RD	PRINCETON	KY	42445
17 CALDWELL	5807017 MAXFUEL #28	126 E COURT SQUARE	PRINCETON	KY	42445
17 CALDWELL	6724017 ROBERT BROADBENT FARM	HWY 128	COBB	KY	42445
17 CALDWELL	6725017 ARVIN AFTERMARKET PRODUCTS DIV	HWY 62 W	PRINCETON	KY	42445
17 CALDWELL	6739017 PRINCETON B331010	US 62	PRINCETON	KY	42445
17 CALDWELL	6797017 C A WOODALL	HWY 91	PRINCETON	KY	42445
17 CALDWELL	6826017 BILL LEWIS SERVICE STATION	700 WASHINGTON ST	PRINCETON	KY	42445
17 CALDWELL	6827017 LARUES PIT STOP	21212 MARION RD	FREDONIA	KY	42411
17 CALDWELL	6837017 SOUTH SIDE PETRO	326 S JEFFERSON ST	PRINCETON	KY	42445
17 CALDWELL	7212017 AKRIDGE FARM SUPPLY	55 WYATT ST DORRAH ST	FREDONIA	KY	42411
17 CALDWELL	7214017 ABM 251 003 0597	KY HWY 91 & 70 & 641	FREDONIA	KY	42411
17 CALDWELL	8521017 FLETCHER PROPERTY (KY DELIVERY	314 RAILROAD ST	PRINCETON	KY	42445
17 CALDWELL	8524017 BARNES STORE INC	RT 5 9945 HWY 293 N	PRINCETON	KY	42445
17 CALDWELL	8536017 BAYS COUNTRY STORE	375 SHORT 70 RD	PRINCETON	KY	42445
17 CALDWELL	8539017 HOPSONS STORE	RT 3 HWY 139	PRINCETON	KY	42445
17 CALDWELL	8544017 SAMS SHELL & CARWASH (MOGAS)	309 LIGON DR	PRINCETON	KY	42445
17 CALDWELL	8545017 MAX FUEL #14 (OLIVERS CHEVRON)	206 MARION RD	PRINCETON	KY	42445
17 CALDWELL	8546017 RAYS CHEVRON	301 MAIN ST	PRINCETON	KY	42445
17 CALDWELL	8550017 D & L PROPERTIES	309 MARIAN RD HWY 91 N AT WK PKW	PRINCETON	KY	42445
17 CALDWELL	8551017 HANCOCKS MOR FOR LESS FOOD STORE	RT 2 (SAVE A LOT)	PRINCETON	KY	42445
17 CALDWELL	8821017 62 MARKET	RTE 3 HWY 62	DAWSON SPRINGS	KY	42408
17 CALDWELL	9658017 PRINCETON LAWN & GARDEN SUPPLY	201 W GREEN ST	PRINCETON	KY	42445
17 CALDWELL	9804017 THOMAS GROC & STATION	RT 4	PRINCETON	KY	42445
17 CALDWELL	9982017 THE PANTRY #351	328 S JEFFERSON ST	PRINCETON	KY	42445
17 CALDWELL	20140890 THE SADDLE SHOP	216 MCGOODWIN ST	PRINCETON	KY	42445
72 LYON	205072 EDDY CREEK MARINA	7612 ST RTE 93 S	EDDYVILLE	KY	42038
72 LYON	206072 EDDYVILLE BP	105 MAIN ST	EDDYVILLE	KY	42038
72 LYON	259072 BUZZARD ROCK RESORT & MARINA	985 BUZZARD ROCK RD	KUTTAWA	KY	42055
72 LYON	286072 WESTERN KY CORRECTIONAL COMPLEX	374 NEW BETHEL RD	FREDONIA	KY	42411
72 LYON	288072 KENTUCKY STATE PENITENTIARY	377 WATER ST	EDDYVILLE	KY	42038

72 LYON	414072 RAMEY CAMPGROUND	R 1 HWY 274/134 DRYDEN CREEK RD	EDDYVILLE	KY	42038
72 LYON	670072 LYON CO BOARD OF EDUCATION	FAIRVIEW AVE	EDDYVILLE	KY	42038
72 LYON	731072 LYON COUNTY/MAINT GARAGE	KY 373	EDDYVILLE	KY	42038
72 LYON	1001072 KUTTAWA \$4540	28 DAYS INN DR	KUTTAWA	KY	42055
72 LYON	1002072 NU-KRO	638 TRADE AVE	EDDYVILLE	KY	42038
72 LYON	1003072 WENDYS BP	29 DAYS INN DR	KUTTAWA	KY	42055
72 LYON	1004072 LYON CO AMBULANCE SERVICE	505 FAIRVIEW AVE	EDDYVILLE	KY	42038
72 LYON	1005072 COUNTRY VILLAGE FLEA MARKET	5680 US HWY 62 W	SUWANEE	KY	42055
72 LYON	1006072 CUMMINGS GROCERY	8970 HWY 93 S	EDDYVILLE	KY	42038
72 LYON	1533072 HEAD & LISA'S TACKLE BOX	5045 US HWY 62 W	KUTTAWA	KY	42055
72 LYON	1931072 KUTTAWA HARBOR INC	1709 LAKE BARKLEY DRIVE	KUTTAWA	KY	42055
72 LYON	1961072 OVERLOOK MARKET	ROUTE 2 2455 ST RT 1055	EDDYVILLE	KY	42038
72 LYON	1983072 SARATOGA BAIT & TACKLE	1860 HWY 293 N	EDDYVILLE	KY	42038
72 LYON	2479072 KUTTAWA MARKET	PO BOX 366	KUTTAWA	KY	42055
72 LYON	2973072 HUCKS TRAVEL CENTER (SWIFTY)	RTE 2 US HWY 641	KUTTAWA	KY	42055
72 LYON	3325072 EDDYVILLE TIRE	FAIRVIEW AVE	EDDYVILLE	KY	42038
72 LYON	3513072 MAXFUEL #22 (DRURYS SHORT STOP)	174 ST RTE 293	EDDYVILLE	KY	42038
72 LYON	3764072 FORMER DAVES OIL	2975 US 62 E	EDDYVILLE	KY	42038
72 LYON	3950072 EDDYVILLE FIVESTAR #3300	620 FAIRVIEW AVE	EDDYVILLE	KY	42038
72 LYON	4057072 YATES BUILDING	HWY 93 S	EDDYVILLE	KY	42038
72 LYON	4417072 PHILLIPS 66 CO 021481	US 61 & 62	EDDYVILLE	KY	42038
72 LYON	5137072 LYON COUNTY SCHOOL BUS GARAGE	101 JENKINS RD	EDDYVILLE	KY	42038
72 LYON	5246072 SOUTHERN EXCAVATING (DUNCANS)	1983 US HWY 62 E	EDDYVILLE	KY	42038
72 LYON	5678072 SHAWNEE PLASTICS INC	LAKESHORE DR	EDDYVILLE	KY	42038
72 LYON	5736072 CJ'S (T J'S JUNCTION)	8874 SR 93 S	KUTTAWA	KY	42055
72 LYON	5813072 KUTTAWA FIVESTAR #539	US 62 & 641 LAKE SHORE DR	EDDYVILLE	KY	42038
72 LYON	5970072 BLUEGRASS OIL CO/EDDYVILLE GULF	HWY 641 & 62	KUTTAWA	KY	42055
72 LYON	6831072 EDDYVILLE CITGO	666 FRANK TANNER AVE	EDDYVILLE	KY	42038
72 LYON	7213072 FREDONIA KY BULK PLANT 251	FAIRVIEW AVE	EDDYVILLE	KY	42038
72 LYON	7215072 TOM & BARBS GROCERY & BAIT	KY RT 1 HWY 93	EDDYVILLE	KY	42038
72 LYON	8526072 TARRYON RESORT	ROUTE 1	KUTTAWA	KY	42055
72 LYON	8534072 GRADY WHITE	RT BOX 100	EDDYVILLE	KY	42038
72 LYON	8548072 BILL & BILLY INC	HWY 62 & LAKE SHORE AVE	KUTTAWA	KY	42055
72 LYON	8549072 RAYMOND GUESS	HWY US 62 W	KUTTAWA	KY	42055
72 LYON	8717072 CLYDE S TILLER	ROUTE 2	EDDYVILLE	KY	42038
72 LYON	10000505 COUNTY GARAGE	1677 HWY 3305	EDDYVILLE	KY	42038



UNIVERSITY OF KENTUCKY

DIV OF PLANNING

2003 NOV -7 A 11: 35

Kentucky Geological Survey

*Research and Graduate Studies
228 Mining and Mineral Resources Building
Lexington, KY 40506-0107
Phone: (859) 257-5500
Fax: (859) 257-1147
www.uky.edu/kgs*

November 3, 2003

Annette Coffey, P.E.
Director
Division of Planning
Kentucky Transportation Cabinet
125 Holmes Street
Frankfort, KY 40622

Dear Ms. Coffey:

This letter is to summarize any geologic concerns for the planning study:
Lyon and Caldwell Counties
U.S. 641, reconstruction and relocation from Eddyville to Fredonia, Ky.

Physiographic Region

This planning study is in the Mississippian Plateau (Pennyroyal or Pennyryle) Physiographic Region, which is underlain by limestone.

Karst Potential

This planning study would encounter karst features such as sinkholes and caves.

Landslide Potential

This planning study would not encounter any pre- or post-landslide hazard.

Unconsolidated Sediments

This planning study would encounter unconsolidated sediments, such as clay, silt, sand, gravel, and chert rubble in the streams.

Resource Conflicts

This planning study might encounter resource conflicts such as prior ownership of property for quarrying or mining



Materials Suitability

This planning study would encounter the St. Louis Limestone and Fredonia Limestone Member of the Ste. Genevieve Limestone. The St. Louis might contain expansive aggregate layers that would not be suitable for construction stone. The Fredonia Limestone Member has been quarried in this area for construction stone, but does contain "soft" oolitic layers that would not be suitable for construction stone.

Fault Potential

This planning study would encounter faulted areas.

Earthquake Ground Motions

This planning study area has a probable peak ground acceleration (PGA) due to earthquake ground motion of 0.19g. There would be a low potential for liquefaction or slope failure in the unconsolidated sediments at or near streams by bedrock ground motion.

Sincerely,

A handwritten signature in black ink, appearing to read "Richard A. Smath". The signature is fluid and cursive, with the first name "Richard" being more prominent than the last name "Smath".

Richard A. Smath
Geologist

cc: Richard Wilson

United States Department of Agriculture



Natural Resources Conservation Service
771 Corporate Drive; Suite 210
Lexington, KY 40503-5479

October 30, 2003

Ms. Annette Coffey, P.E.
Director, Division of Planning
Kentucky Transportation Cabinet
125 Holmes Street
Frankfort, KY 40622

Dear Ms. Coffey:

In regards to the Planning Study for Lyon and Caldwell Counties (US 641, Relocation or Reconstruction from Eddyville to Fredonia), the USDA-Natural Resources Conservation Service (NRCS) is concerned with potential impacts that the proposed highway project might have upon prime farmland soils and additional farmlands of statewide importance. If federal dollars are to be used to convert important farmlands from agricultural uses to non-agricultural uses a Form AD-1006 (or Form NRCS-CPA-106 if the project is a corridor type project) must be submitted to the local NRCS office. These forms may be obtained from the local NRCS office and are also available as electronic forms on the web at

http://www.nrcs.usda.gov/programs/fppa/pdf_files/AD1006.PDF and
http://www.nrcs.usda.gov/programs/fppa/pdf_files/CPA106.pdf.

The contact person is:

George E. Ballard, District Conservationist
USDA-Natural Resources Conservation Service
503 Parkway Drive
Princeton, KY 42445-2217

phone: (270) 365-5533

Mr. Ballard can help in identifying important farmlands in the proposed project area.

Sincerely,

A handwritten signature in dark ink, appearing to read "David G. Sawyer".

DAVID G. SAWYER
State Conservationist

cc: George Ballard, District Conservationist, Princeton, KY
William E. Giesecke, Area Conservationist, Madisonville, KY

DIV OF PLANNING
2003 NOV -4 A 10:17



DEPARTMENT OF THE ARMY
NASHVILLE DISTRICT, CORPS OF ENGINEERS
3701 Bell Road
NASHVILLE, TENNESSEE 37214

REPLY TO
ATTENTION OF:

November 13, 2003

Regulatory Branch

SUBJECT: File No. 200301733; Initial Coordination on Proposed
Improvements to US 641 from Eddyville to Fredonia, Lyon and
Caldwell Counties, Kentucky

Ms. Annette Coffey, Director
Division of Planning
Kentucky Transportation Cabinet
125 Holmes Street
Frankfort, KY 40622

Dear Ms. Coffey:

This is in response to your October 27, 2003, request for
our agencies input and comments on the subject project.

Based upon the location map provided with your letter and my
coordination with the Corps of Engineer's Lake Barkley Resource
Manager, the proposed project would not affect lands owned or
operated by the Corps of Engineers.

Reviewing the basic plans provided, it appears that the
subject proposal may require the replacement, widening, and/or
construction of bridges and culverts. Depending upon the
particular plans, it is likely that the work can meet the
criteria for approval by Nationwide Permit #14 for the deposit of
fill material associated with road crossings. My preliminary
jurisdictional determination is that some level of Department of
the Army (DA) permit would be required for the work proposed in
your request. However, your proposed plan lacks the necessary
information sufficient for a determination which type of permit
is required.

As always, we encourage a construction plan and alignment
that avoids wetland and stream impacts if possible. When your
route is more complete, your application should include plans of
the work, locations of all crossings, any proposed mitigation,
and supporting environmental documentation.

-2-

Thank you for the opportunity to participate in your planning process. Until that time, if you have any questions or comments contact me at the above address or phone (615) 369-7504.

Sincerely,

Lisa R. Morris

Lisa R. Morris
Project Manager
Operations Division

Copy Furnished: CELRN-DE
CERLN-OP



United States Department of the Interior

FISH AND WILDLIFE SERVICE
3761 GEORGETOWN ROAD
FRANKFORT, KY 40601

DIV OF PLANNING

2003 DEC -1 A 11: 34

November 25, 2003

Ms. Annette Coffey
Division of Planning
Kentucky Transportation Cabinet
125 Holmes Street
Frankfort, Kentucky 40622

Subject: FWS #04-0236; Planning Study: US 641, Reconstruction or relocation from Eddyville to Fredonia, Lyon and Caldwell Counties, Kentucky

Dear Ms Coffey:

Thank you for your correspondence of October 27, 2003, regarding the Kentucky Transportation Cabinet's (KTC) planning study for the reconstruction or relocation of US 641 from Eddyville to Fredonia, Kentucky. Fish and Wildlife Service (Service) personnel have reviewed the information submitted and the following comments are provided in accordance with the provisions of the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661 *et seq.*) and the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*).

In general, we are concerned that highway projects frequently accelerate erosion and sedimentation in streams, resulting in adverse effects to the aquatic environment. The use of heavy equipment to move earth and existing vegetation disrupts natural drainage patterns and exposes large areas of disturbed soil to erosion. Excessive sedimentation can clog stream channels and contribute to increased flooding. It can also increase water temperatures and cause oxygen demands that can damage or destroy fish and invertebrate populations. Deposition of sediment on the channel bottom also degrades aquatic habitat by filling in substrate cavities, burying demersal eggs, and smothering bottom organisms. In addition, turbidity, as induced by accelerated erosion and sedimentation, results in further damage to aquatic systems. Increased particulate matter suspended in the water column may drive fish from the polluted area by irritating the gills, concealing forage, and/or destroying vegetation that may be essential for spawning and cover habitat for particular species. Turbidity also degrades water quality by reducing light penetration, pH and oxygen levels, and the buffering capacity of the water. Degraded water quality may continue far downstream from the point where the erosion occurs.

Prevention of excessive sedimentation can occur only through application of Best Management Practices during daily construction activities. Rigid application of your agency's construction

erosion control standards can preclude most sedimentation problems. In some cases, however, additional measures will need to be taken by on-site inspectors and construction representatives that are trained in erosion and sediment control methods. We request that you consider having an inspector on-site during all construction activities to ensure that work areas are stabilized on a daily or regular basis.

According to our records, summer roost habitat and/or winter hibernacula for the endangered Indiana bat (*Myotis sodalis*), and gray bat (*Myotis grisescens*) may exist within the proposed project area. Based on this information, we believe that: (1) forested areas in the vicinity of and on the project area may provide potentially suitable summer roosting and foraging habitat for the Indiana bat and potentially suitable foraging habitat for the gray bat (if suitable roosting sites are present); and (2) caves, rockshelters, and abandoned underground mines in the vicinity of and on the project area may provide potentially suitable winter hibernacula habitat for the Indiana bat and/or potentially suitable summer roosting and winter hibernacula habitat for the gray bat. Our belief that potentially suitable habitat may be present, and possibly occupied by one or both of these species, is based on the information provided in your correspondence, the fact that much of the project site and surrounding areas contain forested habitats that are within the natural ranges of these species, and our knowledge of the life history characteristics of these species.

The Indiana bat utilizes a wide array of forested habitats, including riparian forests, bottomlands, and uplands for both summer foraging and roosting habitat. Indiana bats typically roost under exfoliating bark, in cavities of dead and live trees, and in snags (i.e., dead trees or dead portions of live trees). Trees in excess of 16 inches diameter at breast height (DBH) are considered optimal for maternity colony roosts, but trees in excess of 9 inches DBH appear to provide suitable maternity roosting habitat. Male Indiana bats have been observed roosting in trees as small as 3 inches DBH.

Prior to hibernation, Indiana bats utilize the forest habitat around the hibernacula, where they feed and roost until temperatures drop to a point that forces them into hibernation. This "swarming" period lasts, depending on weather conditions in a particular year, from about September 15 to about November 15. This is a critical time for Indiana bats, since they are acquiring additional fat reserves and mating prior to hibernation. Research has shown that bats exhibiting this "swarming" behavior will range up to five miles from chosen hibernacula during this time. For hibernation, the Indiana bat prefers limestone caves, sandstone rockshelters, and abandoned underground mines with stable temperatures of 39 to 46 degrees F and humidity above 74 percent but below saturation.

Gray bats roost, breed, rear young, and hibernate in caves year round. They migrate between summer and winter caves and will use transient or stopover caves along the way. For hibernation, the roost site must have an average temperature of 42 to 52 degrees F. Most of the caves used by gray bats for hibernation have deep vertical passages with large rooms that function as cold air traps. Summer caves must be warm, between 57 and 77 degrees F, or have small rooms or domes that can trap the body heat of roosting bats. Summer caves are normally located close to rivers or lakes where the bats feed. Gray bats have been known to fly as far as 12 miles from their colony to feed.

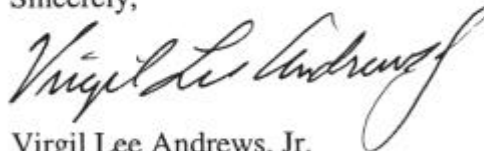
Because we have concerns relating to these species on this project and due to the lack of occurrence information available on these species relative to the proposed project area, we have the following recommendations relative to Indiana bats and gray bats.

1. Based on the presence of numerous caves, rockshelters, and underground mines in Kentucky, we believe that it is reasonable to assume that other caves, rockshelters, and/or abandoned underground mines may occur within the project area, and, if they occur, they could provide winter habitat for Indiana bats and/or summer and winter habitat for the gray bat. Therefore, we recommend that you survey the project area for caves, rockshelters, and underground mines, identify any such habitats that may exist on-site, and avoid impacts to those sites pending an analysis of their suitability as Indiana bat habitat by this office.
2. We also recommend that the KTC only remove trees within the project area between October 15 and March 31 in order to avoid impacting summer roosting Indiana bats. However, if any Indiana bat hibernacula are identified on the project area or are known to occur within 10 miles of the project area, we recommend the KTC only remove trees between November 15 and March 31 in order to avoid impacting Indiana bat "swarming" behavior.

If these recommendations cannot be incorporated as project conditions, then you should survey the project area to determine the presence or absence of the species within the project area in an effort to determine if potential impacts to these species are likely. A qualified biologist who holds the appropriate collection permits for these species must undertake such surveys, and we would appreciate the opportunity to approve the biologist's survey plan prior to the survey being undertaken and to review all survey results, both positive and negative. If any Indiana bats and/or gray bats are identified, we request written notification of such occurrence(s) and further coordination and consultation with you. Surveys would not be necessary if sufficient site-specific information was available that showed: (1) that there is no potentially suitable habitat within the project area or its vicinity or (2) that the species would not be present within the project area or its vicinity due to site-specific factors. Please provide us with a written explanation or justification if either or both of these would apply to the proposed project.

Thank you for the opportunity to comment on this proposed action. If you have any questions regarding the information which we have provided, please contact Mindi Brady at (502)/695-0468 (ext.229).

Sincerely,



Virgil Lee Andrews, Jr.
Field Supervisor



KENTUCKY TRANSPORTATION CABINET
FRANKFORT, KENTUCKY 40622
WWW.KENTUCKY.GOV

DIV OF PLANNING

2004 MAR 25 A 10: 23

ERNIE FLETCHER
GOVERNOR

MAXWELL C. BAILEY
SECRETARY

MEMORANDUM

To: Annette Coffey, P.E., Director
Division of Planning

From: David M. Waldner, P.E., Director
Division of Environmental Analysis

Date: March 23, 2004

Re: Planning Study - US 641, Reconstruction or Relocation from Eddyville to Fredonia
Lyon and Caldwell Counties, Ky. Item # 1-187.3 (this is the closest item number
to the this project which currently has no ID number)

The proposed reconstruction of US 641 from Eddyville to Fredonia, Kentucky has been evaluated by the Division of Environmental Analysis for any potential environmental challenges that would need to be addressed during the design stage. The following brief set of preliminary comments are based upon the planning study data presented, additional comments could be provided once alignments are proposed for the project:

1. The Air Quality status of the project would not be a problem; no adverse impacts anticipated.
2. There are no Noise impacts anticipated as a result of this project.
3. Stream impacts should be avoided/minimized; the potential for long channel changes is present. If unavoidable, impacts to these areas would pose mitigation issues and require permits during the design process.
4. Ecological impacts will have to be assessed with a base study.
5. Specific details concerning underground storage tanks and hazardous materials would need to be obtained once alignments are proposed.
6. A full Baseline study to determine any cultural historic impacts is warranted.
7. Due to the numerous potential archaeology sites in the area a baseline study is recommended.

Our staff appreciates the opportunity to provide early comments on projects during the planning stage. If you should have any questions regarding these comments please contact Tony Vinegar or me at 564-7250.

DMW/TV

C: Files



COMMONWEALTH OF KENTUCKY
KENTUCKY STATE POLICE
919 VERSAILLES ROAD
FRANKFORT KY. 40601

PAUL E. PATTON
GOVERNOR

PATRICK N. SIMPSON
COMMISSIONER

October 31, 2003

Annette Coffey, P.E.
Director
Division of Planning
Kentucky Transportation Cabinet
125 Holmes Street
Frankfort, Kentucky 40622

Dear Director Coffey:

I am in receipt of your correspondence concerning a planning study in Lyon and Caldwell counties.

I have forwarded your remarks to Captain Steve Humphreys, Commander of the Mayfield Post. He can be reached at 270-856-3721. Thank you for including our input during the planning stages of this development.

Sincerely,

A handwritten signature in black ink, appearing to read "Rodney Brewer", written over a horizontal line.

Rodney W. Brewer, Lt. Colonel
Director, Division of Police Services

cc: Commissioner Simpson
Commander, West Troop
Commander, Post 1



AN EQUAL OPPORTUNITY EMPLOYER M/F/D

Wilson, Jimmy (KYTC)

From: Palmer-Ball, Brainard (NREPC, KSNPC)
Sent: Thursday, November 06, 2003 10:33 AM
To: Wilson, Jimmy (KYTC)
Subject: KSNPC response to Planning Study announcement

TO: Jimmy Wilson/Annette Coffey, KTC/Division of Planning

FROM: Brainard Palmer-Ball, Jr., KSNPC

DATE: November 6, 2003

RE: Planning Study for US 641 from Eddyville to Fredonia, Caldwell/Lyon cos.

KSNPC has reviewed the Planning Study summary. A review of our natural heritage database revealed the presence of no KSNPC-listed species or unique natural areas that we believe would be directly impacted by implementation of the project. However, some preliminary issues of concern to us include 1) the general avoidance of wetland areas, 2) the area is known to be inhabited by gray bats (*Myotis grisescens* -- USFWS Endangered), especially in limited stream corridors (the area is quite karstic and there are not many surface streams), and 3) minimizing further fragmentation of limited amount of forested tracts in the area.

Wilson, Jimmy (KYTC)

From: Siria, Bruce (KYTC)
Sent: Thursday, November 20, 2003 7:41 AM
To: Woodrum, Bob (KYTC); Wilson, Jimmy (KYTC)
Subject: FW: Planning studies state wide

fyi.....

Jim, should I also send a copy of this to Nick Hall? Anybody else?

-----Original Message-----

From: Roberts, David C - (DMA) [mailto:robertsdc@bngc.dma.state.ky.us]
Sent: Tuesday, November 18, 2003 3:00 PM
To: Siria, Bruce (KYTC)
Subject: Planning studies state wide

Bruce,

After reviewing the following planning studies that were forwarded to this department for input, it has been determined that none of projects would impact The Department of Military Affairs in anyway.

Grayson and Hart Counties item # 4-8101.00
US 60 from Sturgis to Morganfield # 02-8102.00
Lyon and Caldwell Counties US 641 from Eddyville to Fredonia
Hancock County improve connection to Cannelton bridge

David C. Roberts
Assistant Director
Facilities Division
502-607-1543
Fax 502-607-1270