



Commonwealth of Kentucky  
**Transportation Cabinet**  
Frankfort, Kentucky 40622

James C. Codell, III  
Secretary of Transportation

Paul E. Patton  
Governor

Clifford C. Linkes, P.E.  
Deputy Secretary

November 21, 2003

«Mailing\_Title» «First\_Name» «Last\_Name»«Suffix»  
«Title»  
«Organization»  
«Address1»  
«Address2»  
«City», «State» «Zip»

SUBJECT: Planning Study  
Graves County  
KY 121 from 400 feet south of Harris Lane  
To KY 945  
Item No. 01-8100.00

Dear «Letter\_Title» «Last\_Name»:

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 of KY 121 from 400 feet south of Harris Lane to the intersection with KY 945 in Graves 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 environmental issues and impacts related to the proposed project. We believe that early identification of issues or concerns can help us develop improvement recommendations that avoid or minimize negative impacts.

We respectfully ask that you provide us with your comments by January 5, 2004 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, 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.



«Mailing\_Title» «First\_Name» «Last\_Name»

Page 2

November 21, 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 the following project information for your review and comment:

- A draft statement of Study Purpose and Project Goals
- Major Issues, Project Schedule and Contacts
- Project Location Map
- Year 2002 Traffic and Level of Service
- Year 2030 Traffic and Level of Service
- Vehicle Crash Information by Crash Severity
- Topographic Environmental Footprint
- Digital Orthographic Environmental Footprint

We appreciate any input you can provide concerning this project. Please direct any comments, questions, or requests for additional information to Steve Ross of the Division of Planning at 502/564-7183 or at [steve.ross@mail.state.ky.us](mailto:steve.ross@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:RSR:RC

Enclosures

c:	Jose Sepulveda (w/a)	David Smith, Qk4
	Glenn Jilek (w/a)	Wayne Mosley (w/a)
	Mary Murray (w/a)	Allen Thomas (w/a)
	Anthony Goodman (w/a)	Chris Kuntz
	Henry Hodges, Purchase	Steve Hoefler (w/a)
	ADD (w/a)	David Waldner
	Stacey Courtney, Purchase	Tim Choate
	ADD (w/a)	Johnny Wall

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Delta Regional Authority  
236 Sharkey Avenue, Suite 400  
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Acting Commissioner  
Department of Parks  
10th, floor, Capital Plaza Tower, 500 Mero St.  
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Mr. George Crothers  
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Dept. of Anthropology, University of Kentucky  
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10332 Bluegrass Parkway  
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Kentucky Department of Nat'l. Resources, Division of  
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Mr. Carl Campbell  
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Frankfort KY 40601

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Mr. Jeff Pratt  
Director  
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St. Louis MO 63103

The Honorable Jim Bunning  
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United States Senate  
316 Hart Senate Office Building  
Washington DC 20510

The Honorable Mitch McConnell  
United States Senator  
United States Senate  
361-A Russell Senate Office Building  
Washington DC 20510

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167 N. Main Street  
Memphis TN 38103-1894

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United States Representative - District 1  
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236 Cannon House Office Building  
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Kentucky State Coordinator  
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Kentucky Senate  
P.O. Box 1111  
Murray KY 42071

The Honorable Fred Nesler  
State Representative  
Kentucky House of Representatives  
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Mayfield KY 42066

The Honorable Arthur Byrn  
Mayor  
City of Mayfield  
211 East Broadway  
Mayfield KY 42066

The Honorable Tony Smith  
Judge-Executive  
Graves County Courthouse  
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Mayfield KY 42066

Mr. Brady Link  
Superintendent  
Graves County Schools  
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Mayfield KY 42066

Chief Mike Jones  
Chief  
Mayfield-Graves County Emergency Medical Services  
104 N. 6th  
Mayfield KY 42066

Sheriff John L. Davis  
Sheriff  
Graves County Sheriff's Office  
101 East South Street #3  
Mayfield KY 42066

Ms. Donna Davenport  
Executive Director  
Mayfield-Graves County Chamber of Commerce  
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Mayfield KY 42066

Mr. Gary Pyle  
Executive Director  
Mayfield-Graves County Local Development Corporation  
201 East College Street  
Mayfield KY 42066

Ms. Mary Jo Lewis  
Chief Executive Officer  
Jackson Purchase Medical Center  
1099 Medical Center Circle  
Mayfield KY 42066





**KY 121, Graves County  
From 400 feet south of Harris Lane to KY 945  
Item No. 01-8100.00**

**Draft Statement of Study Purpose**

The purpose of this study is to evaluate the need to reconstruct KY 121 in Graves County from 400 feet south of Harris Lane to KY 945.

**Draft Project Goals**

- Improve Safety

Opportunities exist to improve sight distance and intersection alignment on the study route. Although crash data analysis reveals less than critical crash rate factors, two high schools, a middle school and a planned elementary school just south of the study area combined with trucks traveling between Mayfield and Wickliffe make safety the primary focus of this study.

- Relieve congestion and improve capacity

Five-lane improvements have been made to KY 121 from the Julian M. Carroll Parkway to just north of the Graves County High School entrance. Three-lane improvements are planned for KY 121 from the north end of the five-lane section to just north of the intersection with KY 1830. Opportunities exist to improve the existing two-lane section of KY 121 north of KY 1830 to accommodate existing and projected increases in traffic levels.

- Accommodate increased truck use and promote regional connectivity

Both Wickliffe and Mayfield are home to companies that generate significant numbers of trucks that travel the study corridor. KY 121 is on the National Truck Network and is the primary connector between Mayfield and Wickliffe. A Regional Industrial Park proposed north of Mayfield on US 45, if completed, could have a significant impact on traffic levels and truck percentages in the study corridor. Opportunities exist to improve the existing two-lane section of KY 121 for truck use and regional connectivity.



## Major Project Issues

- Narrow lane and shoulder widths
- Skewed alignment and less than optimal sight distance at the KY 121/KY 440 intersection
- Skewed alignment at the KY 121/KY 1276 and KY 121/KY 945 intersections
- Congestion and capacity issues with existing and projected traffic levels
- Potential increases in truck traffic due to planned industrial park in Folsomdale
- Maintaining safety through schools zones
- Environmental issues including culturally sensitive locations such as schools, churches and cemeteries; historic and archaeological sites; water and air quality; wetlands and ponds; plant and animal life including threatened and endangered species; managed land areas; farmlands; hazardous materials concerns; traffic noise; environmental justice to low income, minority and elderly populations; and other concerns

Any future roadway improvements will consider impacts to these sensitive issues.

## Project Schedule

The current schedule as listed in the FY 2003-2008 Six Year Highway Plan for this project is:

<u>Phase</u>	<u>Fiscal Year</u>	<u>Estimated Cost</u>
Planning	FY 2003	\$200,000

Only the planning phase of this project has been approved and funded. **No** design, construction or other phases are included in the Six Year Highway Plan at this time.

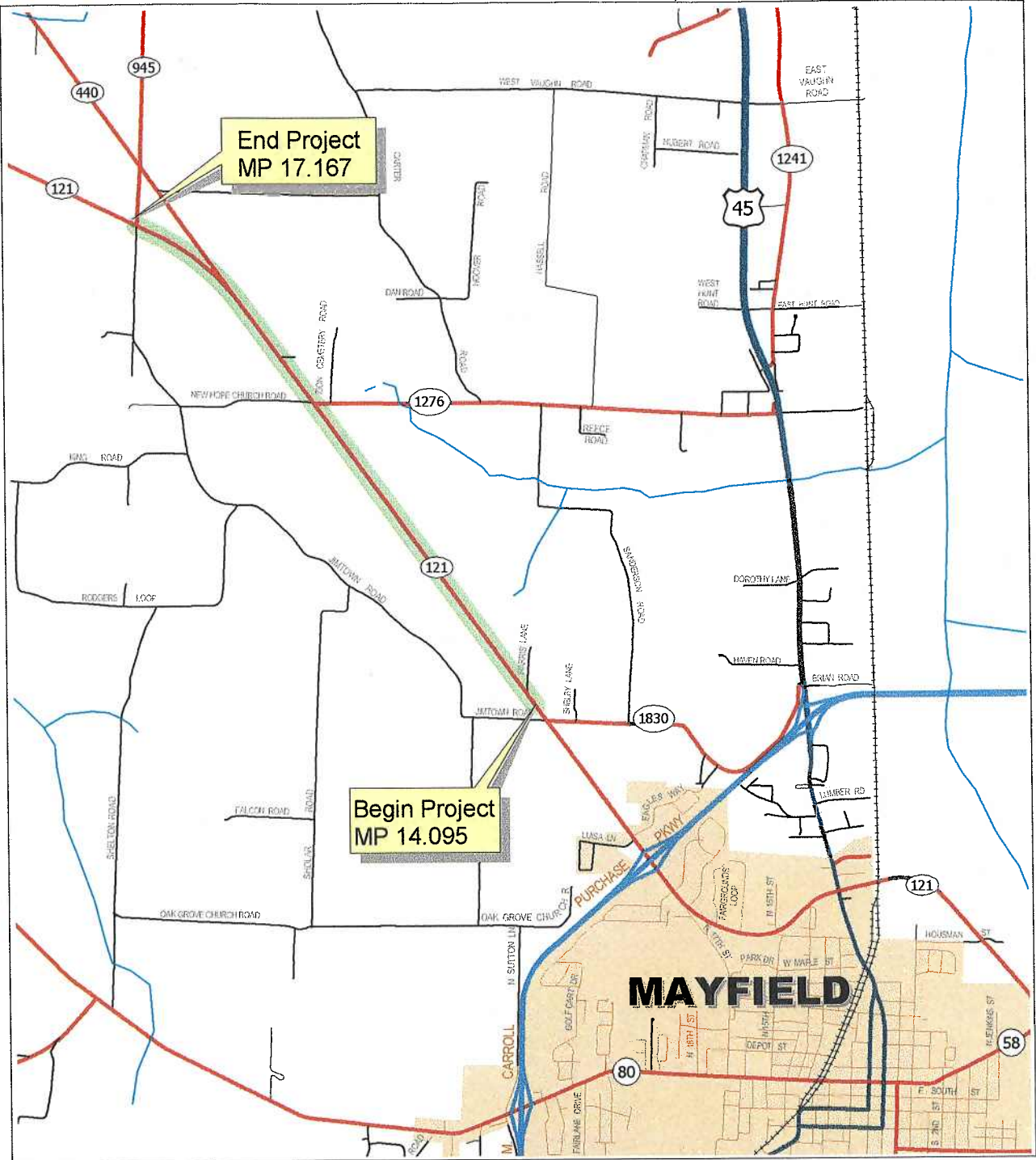
## Contacts

Address written comments to:

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

Or you may contact by phone:

Steve Ross, P.E.  
Project Manager  
Kentucky Transportation Cabinet  
Division of Planning  
(502) 564-7183











End Project  
MP 17.167

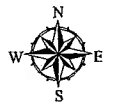
Begin Project  
MP 14.095

**MAYFIELD**

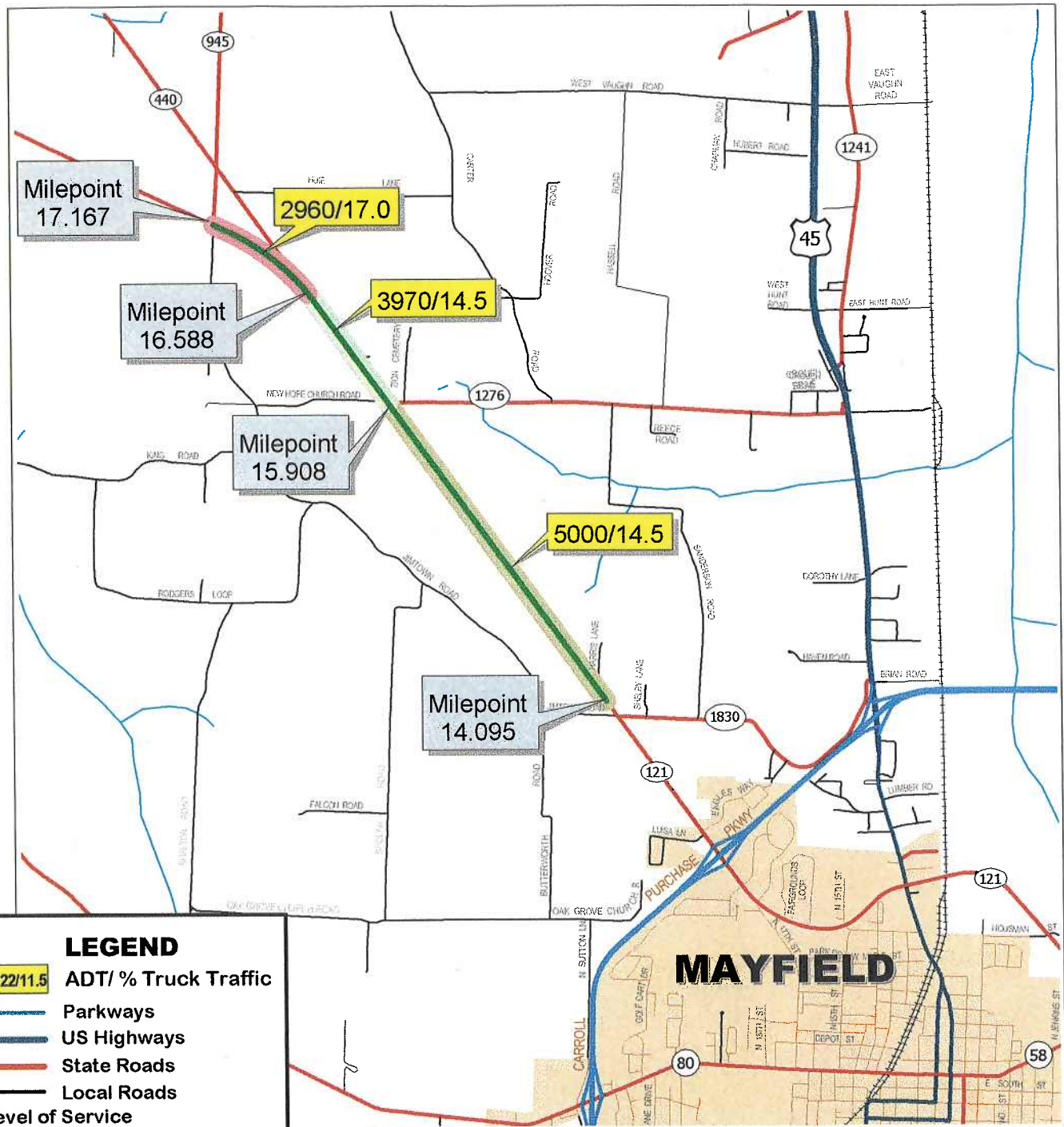
**LEGEND**

-  Project Area
-  Parkways
-  US Highways
-  State Roads
-  Local Roads
-  Streams
-  Railroad
-  Corporate Boundary

4000 0 4000 8000 Feet



**Project Location**  
 Graves County  
 Item No. 1-8100.00  
 KY 121 From 400' South  
 of Harris Lane to the  
 KY 945 Intersection



**LEGEND**

1122/11.5 ADT/ % Truck Traffic

— Parkways

— US Highways

— State Roads

— Local Roads

**Level of Service**

C or Better

D

E

F

MP 16.588 - 17.167

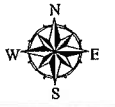
MP 15.908 - 16.588

MP 14.095 - 15.908

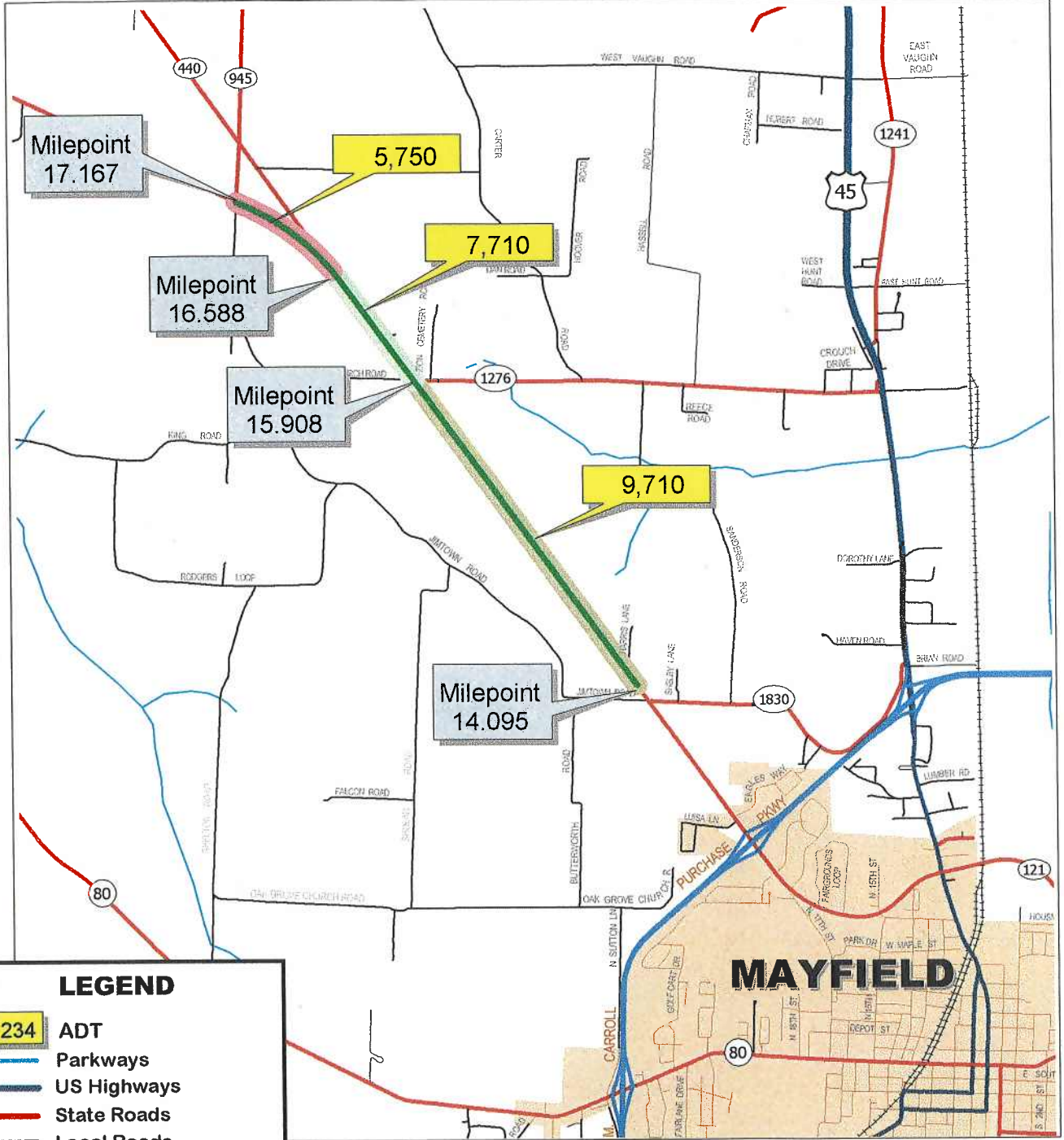
Streams

Railroad

Corporate Boundary



**Year 2002  
Traffic and Level  
of Service**  
Graves County  
Item No. 1-8100.00  
KY 121 From 400' South  
of Harris Lane to the  
KY 945 Intersection



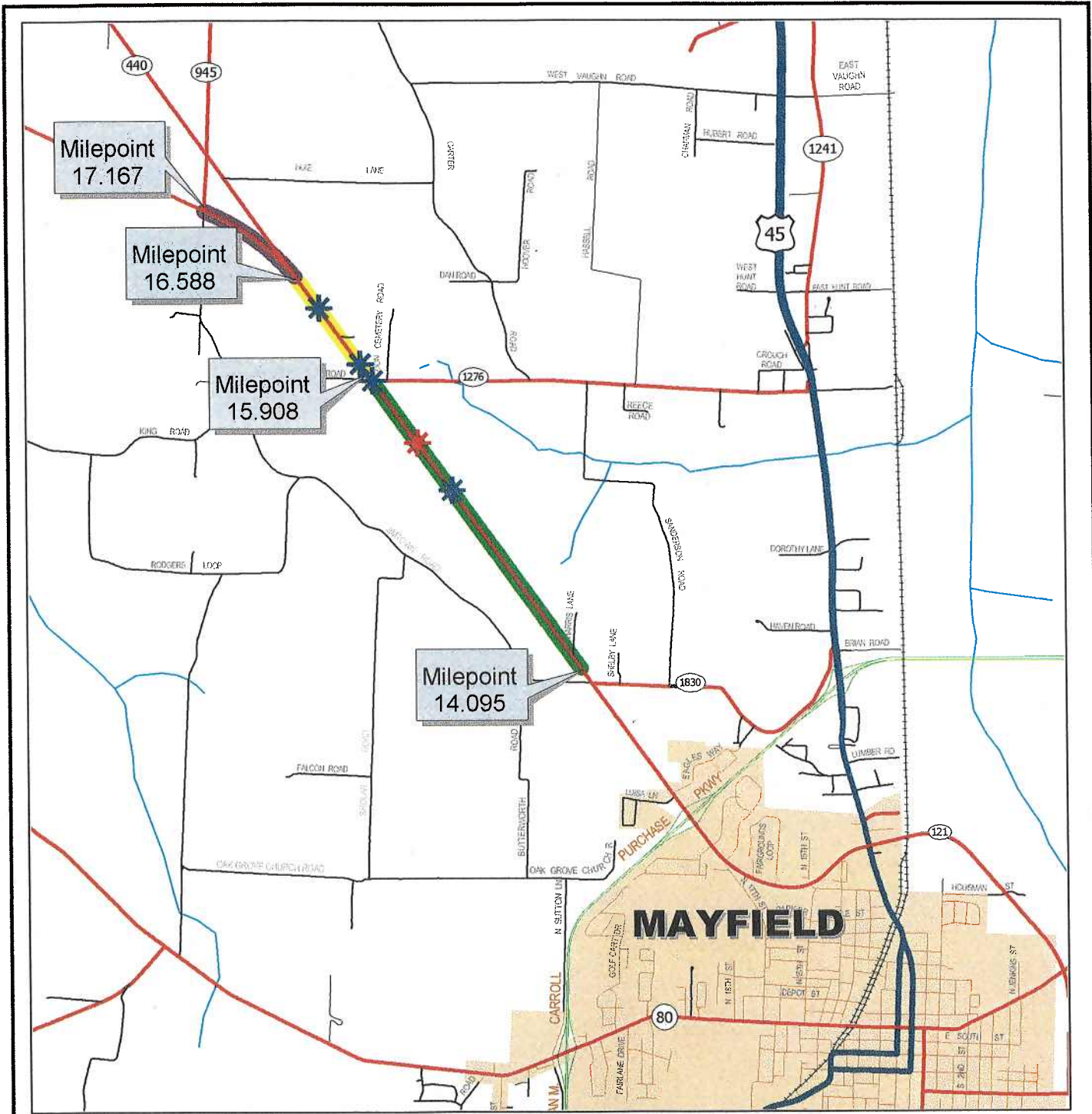
**LEGEND**

- 1234 ADT
- Parkways
- US Highways
- State Roads
- Local Roads
- Level of Service**
- C or Better
- D
- E
- F

- MP 16.588 - 17.167
- MP 15.908 - 16.588
- MP 14.095 - 15.908
- Streams
- Railroad
- Corporate Boundary








**Year 2030  
Traffic and Level  
of Service  
Graves County  
Item No. 1-8100.00  
KY 121 From 400' South  
of Harris Lane to the  
KY 945 Intersection**



4000 0 4000 8000 Feet

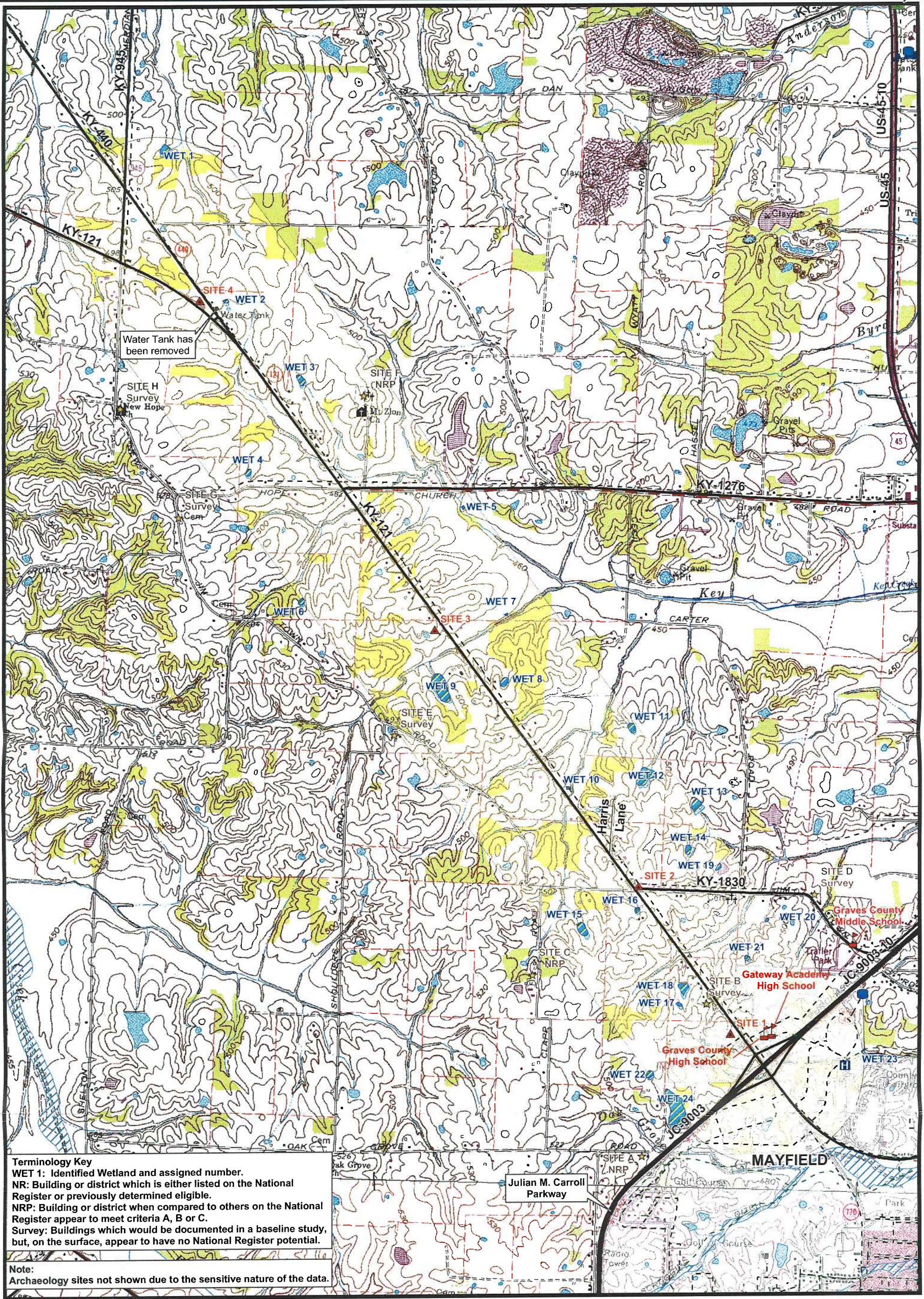
**LEGEND**

-  2 Crashes, CRF = 0.187
-  9 Crashes, CRF = 0.608
-  16 Crashes, CRF = 0.437
-  Fatal Crash
-  Injury Crash



**Vehicle Crash Information By Severity**  
 Jan. 1, 2000 - Dec. 31, 2002  
 Graves County  
 Item No. 1-8100.00  
 KY 121 From 400' South of Harris Lane to the KY 945 Intersection

There are no High Crash Spots in the study corridor.



Airport	Landfill	Public Water Source	State Park
Church	Oil Well	Water Tank	Conservation/Natural Area
Park	Gas Well	Water Treatment Plant	PROJECT STUDY AREA
Populated Place	Combined Oil and Gas	Sewers	
Cemetery	Newly Permitted Well	Package Plant	
School	Dry and Abandoned Well	Wastewater Pump Station	
Hospital	Miscellaneous Well	Wastewater Treatment Plant	
Potential Historic Location	Waterline	Stream	
HAZMAT Site	Water Well	Wetlands	
		Potential Flood Risk	

1,800 900 0 1,800 Feet

Exhibit 1 Sheet 1 of 1

**USGS Topographic Environmental Footprint**  
 KY 121  
 400' South of Harris Lane to KY-945  
 Graves County  
 KYTC Item No. 1-8100.00

VICINITY MAP



**Terminology Key**  
 WET 1: Identified Wetland and assigned number.  
 NR: Building or district which is either listed on the National Register or previously determined eligible.  
 NRP: Building or district when compared to others on the National Register appear to meet criteria A, B or C.  
 Survey: Buildings which would be documented in a baseline study, but, on the surface, appear to have no National Register potential.

**Note:**  
 Archaeology sites not shown due to the sensitive nature of the data.

- |                             |                        |                            |                           |
|-----------------------------|------------------------|----------------------------|---------------------------|
| Airport                     | Landfill               | Public Water Source        | State Park                |
| Church                      | Oil Well               | Water Tank                 | Conservation/Natural Area |
| Park                        | Gas Well               | Water Treatment Plant      | PROJECT STUDY AREA        |
| Populated Place             | Combined Oil and Gas   | Package Plant              |                           |
| Cemetery                    | Newly Permitted Well   | Wastewater Pump Station    |                           |
| School                      | Dry and Abandoned Well | Wastewater Treatment Plant |                           |
| Hospital                    | Miscellaneous Well     | Stream                     |                           |
| Potential Historic Location | Waterline              | Wetlands                   |                           |
| HAZMAT Site                 | Water Well             | Potential Flood Risk       |                           |

1,800 900 0 1,800 Feet

Exhibit 2 Sheet 1 of 1

### KYOGIS Orthographic Environmental Footprint

KY 121  
 400' South of Harris Lane to KY-945  
 Graves County  
 KYTC Item No. 1-8100.00

VICINITY MAP





**Ross, Steve (KYTC)**

---

**From:** Roberts, David C - (DMA) [robertsdc@bngc.dma.state.ky.us]  
**Sent:** Thursday, February 19, 2004 5:31 PM  
**To:** Ross, Steve (KYTC)  
**Cc:** Coffey, Annette (KYTC)  
**Subject:** Planning study/ State wide

Steve,

The following planning studies were reviewed for potential impact on any properties utilized by The Department of Military Affairs. None were found:

Graves County/ Item No. 01-8100.00  
Jackson County/ Item No. 11-113.00  
Harlan/Leslie/Perry County/ Item No. 11-137.00

A change of command occurred in January of this year making Mr. Donald C. Storm our Adjutant General. Please send all future correspondence to his attention.

Thanks

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



Reply to  
Attention of:

DEPARTMENT OF THE ARMY  
MEMPHIS DISTRICT CORPS OF ENGINEERS  
167 NORTH MAIN STREET B-202  
MEMPHIS TN 38103-1894

DIV OF PLANNING

2004 JAN 20 P 1:46

January 12, 2004

Regulatory Branch

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

Dear Ms. Coffey:

This is in response to your letter of November 21, 2003, requesting comments on a planning study for the proposed reconstruction of KY 121 from 400 feet south of Harris Lane to the intersection with KY 945 in Graves County, Kentucky (see attached map).

The only comment the Regulatory Branch has concerning the project is the need to address the stream crossings impacted by the project. Open water areas and wetlands have been adequately inventoried by the preliminary study. After the stream crossing have been documented, permitting requirements will need to be addressed for all wetlands, stream crossings, and open water areas before the project is constructed.

If you have questions, please contact Randy Clark at (901) 544-0735 .

Sincerely,

A handwritten signature in cursive script that reads "Larry D. Watson".

Larry D. Watson  
Chief  
Regulatory Branch

**LAJUANA WILCHER**  
SECRETARY



**ERNIE FLETCHER**  
GOVERNOR

COMMONWEALTH OF KENTUCKY  
**NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION CABINET**  
DEPARTMENT FOR SURFACE MINING RECLAMATION & ENFORCEMENT  
FRANKFORT, KENTUCKY 40601  
**ALLEN LUTTRELL**  
COMMISSIONER

December 24, 2003

Annette Coffey, P.E. Director  
Division of Planning  
Kentucky Transportation Cabinet  
Frankfort, KY 40601

RE: Planning Study  
Graves County  
KY 21 from, 400 feet South of Harris Lane to KY 945  
Item No. 01-8100.00

Dear Ms. Coffey:

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

Personnel from our department's field offices have not identified any specific issues or concerns regarding the proposed project at this time. However, given the dynamic nature of the stone industry and the development of the proposed highway, we will welcome the opportunity to further comment on the project in the future.

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,

A handwritten signature in black ink that reads "Allen Luttrell".

Allen Luttrell  
Commissioner

AL:jm;aw



UNIVERSITY OF KENTUCKY

**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](http://www.uky.edu/kgs)*

December 24, 2003

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

Dear Ms. Coffey:

This letter is to summarize any geologic concerns for the planning study:

Graves County  
Ky. 121 from 400 feet south of Harris Lane to Ky. 945.  
Item No. 01-8100.00

**Physiographic Region**

The planning study area is in the Jackson Purchase (Gulf Embayment) Physiographic Region, which is a typical coastal plain made up of clays, silt, sand, and gravel.

**Karst Potential**

The planning study area probably would not encounter karst features such as sinkholes and caves.

**Landslide Potential**

The planning study area would probably encounter pre- and/or post-landslide hazards.

**Unconsolidated Sediments**

The planning study area would encounter clays, silt, sand, and gravel.

**Resource Conflicts**

The planning study area probably would not encounter any resource conflicts.

**Materials Suitability**

The gravel of the continental deposits might be suitable for construction stone.

**Fault Potential**

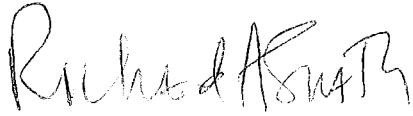
The planning study area would not encounter any faults.



**Earthquake Zone**

The planning study area has probable peak ground acceleration (PGA) due to earthquake ground motion of 0.40g. There would be a high potential for liquefaction or slope failure in the unconsolidated sediments.

Sincerely,

A handwritten signature in black ink, appearing to read "Richard A. Smath". The signature is written in a cursive, somewhat stylized font.

Richard A. Smath  
Geologist

cc Richard Wilson



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 4  
ATLANTA FEDERAL CENTER  
61 FORSYTH STREET  
ATLANTA, GEORGIA 30303-8960

December 29, 2003

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

RE: **Planning Study - Graves Co. KY 121 South of Harris Lane to KY 945  
NEPA Early Coordination**

Dear Ms. Coffey:

Thank you for your early coordination letter and attachments of November 21, 2003, regarding the scoping process for the Graves Co. KY 121 South of Harris Lane to KY 945 project. In your letter, you requested that EPA provide review and comments regarding the planning study you outlined. The purpose of this letter is to respond to that request.

The draft project goals you listed are: 1) improve traffic safety, 2) relieve congestion and improve capacity, and 3) accommodate increased truck use and promote regional connectivity. You also mentioned several major project issues, including environmental concerns. One of the concerns you mentioned was environmental justice (EJ). To assist you in your evaluation, four population maps of the project vicinity are enclosed. Coordination with the public should also include coordination with potentially impacted EJ communities. The forthcoming DEIS should clarify details of all the potential impacts, and potential measures for impact mitigation.

A rationale for rejecting alternatives should be provided in the EIS. These rationales should include environmental reasons, along with other considerations. The selected alternative should avoid/minimize adverse impacts, so that the need for mitigation of impacts will be lessened or eliminated. A critical factor of the alternatives analysis is the avoidance/minimization of adverse impacts.

We appreciate your early coordination with us, and look forward to reviewing the DEIS. If you have any questions or require technical assistance, you may contact Ramona McConney of my staff at (404) 562-9615.

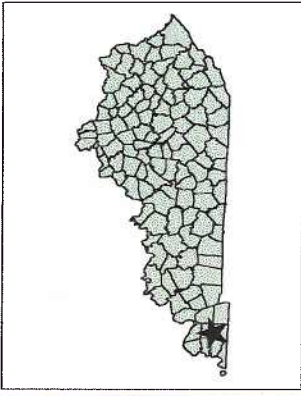
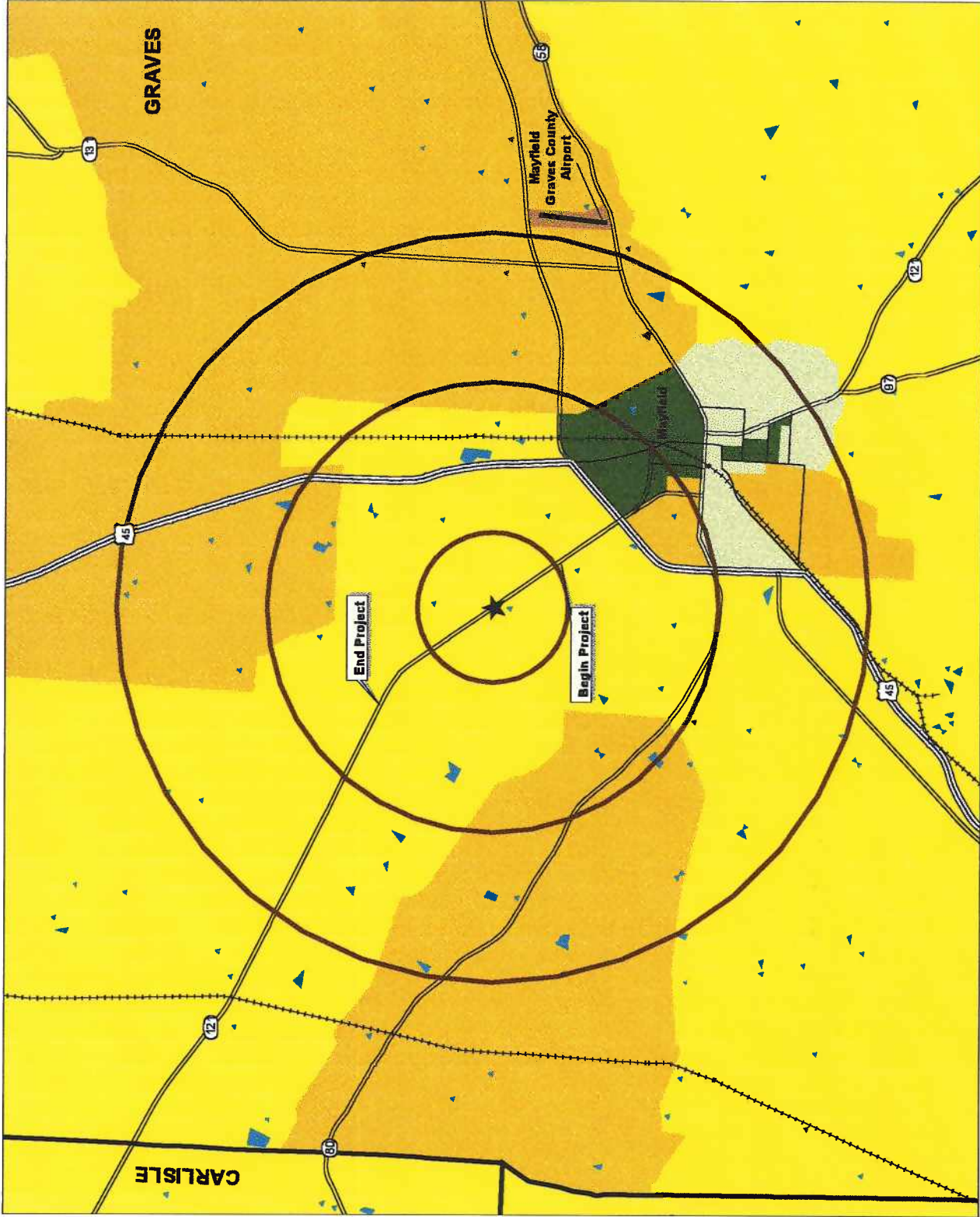
Sincerely,

A handwritten signature in black ink, appearing to read "Heinz J. Mueller".

Heinz J. Mueller, Chief  
NEPA Program Office

Enclosures

# LOW INCOME PERCENTAGES AROUND PROJECT LOCATION, KENTUCKY



- ★ Project Location
- 1, 3, 5mi. Buffer Zones
- ▬ Major Streams
- ▬ Railroads
- ▬ County Boundaries
- % Low Income
  - 0 - 10
  - 10.01 - 20
  - 20.01 - 30
  - 30.01 - 40
  - 40.01 - 50
  - >50



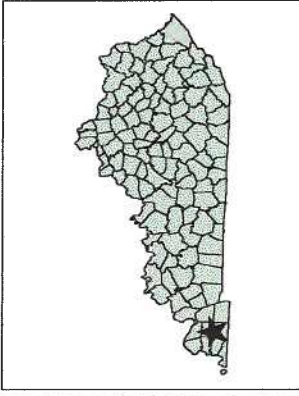
Source: 2000 U.S. Census Population and Housing Summary Tape File 3 (STF3) Data. Aggregated to Block Group Level.

Relative State Minority Threshold: 12.82%  
 Relative State Low Income Threshold (20K): 36.02%

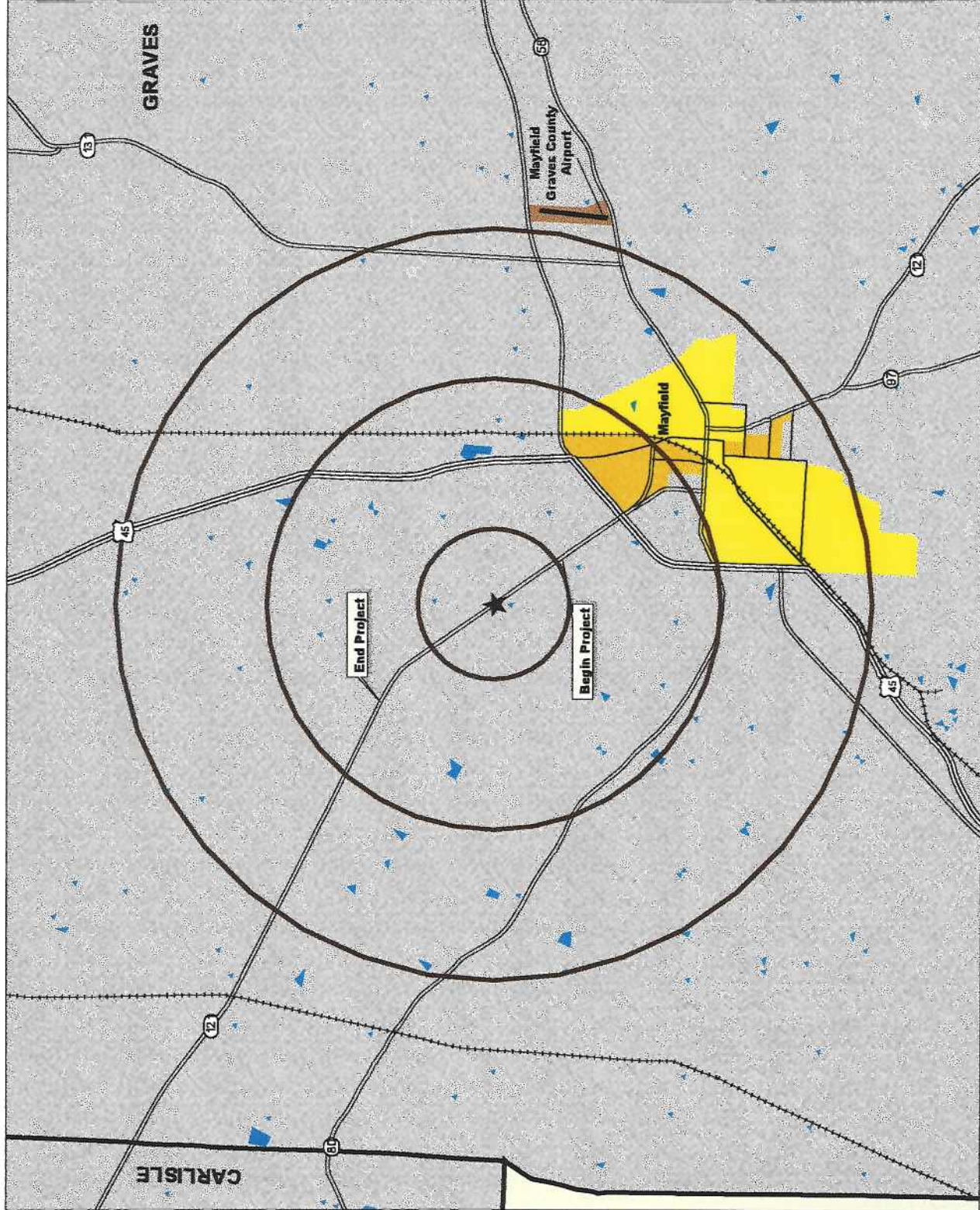


EPA REGION 4  
 OFFICE OF ENVIRONMENTAL ACCOUNTABILITY

# MINORITY PERCENTAGES AROUND PROJECT LOCATION, KENTUCKY



- ★ Project Location
- 1, 3, 5mi. Buffer Zones
- ▬ Major Streams
- ▬ Railroads
- ▬ County Boundaries
- % Minority
  - 0 - 10
  - 10.01 - 20
  - 20.01 - 30
  - 30.01 - 40
  - 40.01 - 50
  - >50



Source: 2000 U.S. Census Population and Housing Summary Tape File 3 (STF3) Data. Aggregated to Block Group Level.

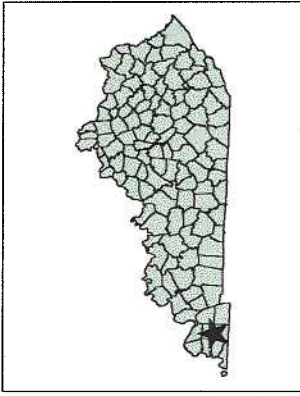
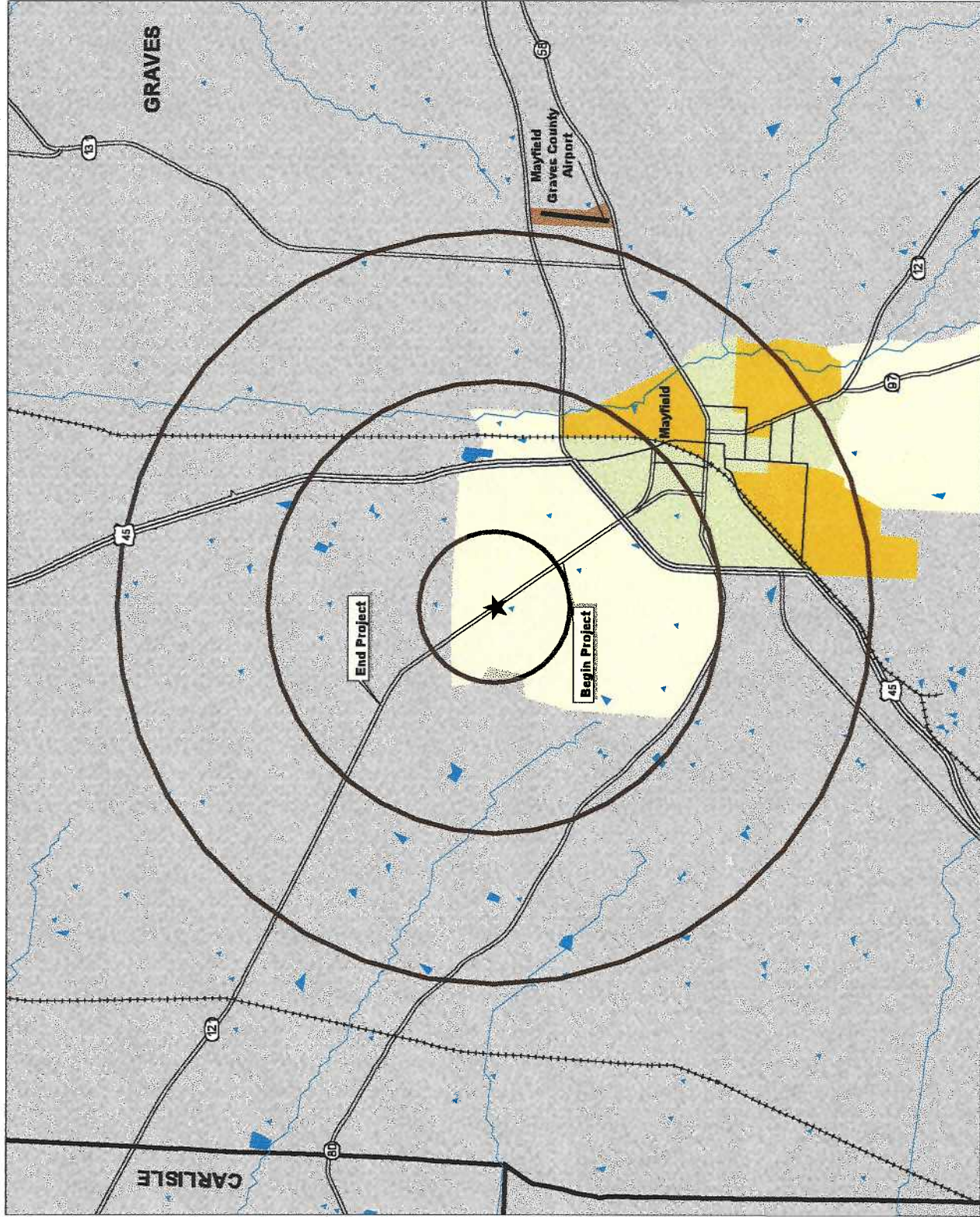
Relative State Minority Threshold: 12.82%  
 Relative State Low Income Threshold (20K): 36.02%



EPA REGION 4  
 OFFICE OF ENVIRONMENTAL ACCOUNTABILITY



# POPULATION DENSITY AROUND PROJECT LOCATION, KENTUCKY



- ★ Project Location
- 1, 3, 5mi. Buffer Zones
- ▬ Major Streams
- ▬ Railroads
- ▬ County Boundaries
- ▬ Indian Lands
- Population Density (per sq-mi)
  - 0 - 100
  - 101 - 250
  - 250 - 500
  - 501 - 1000
  - 1001 - 5000
  - >5000



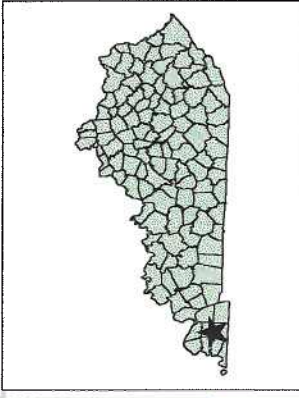
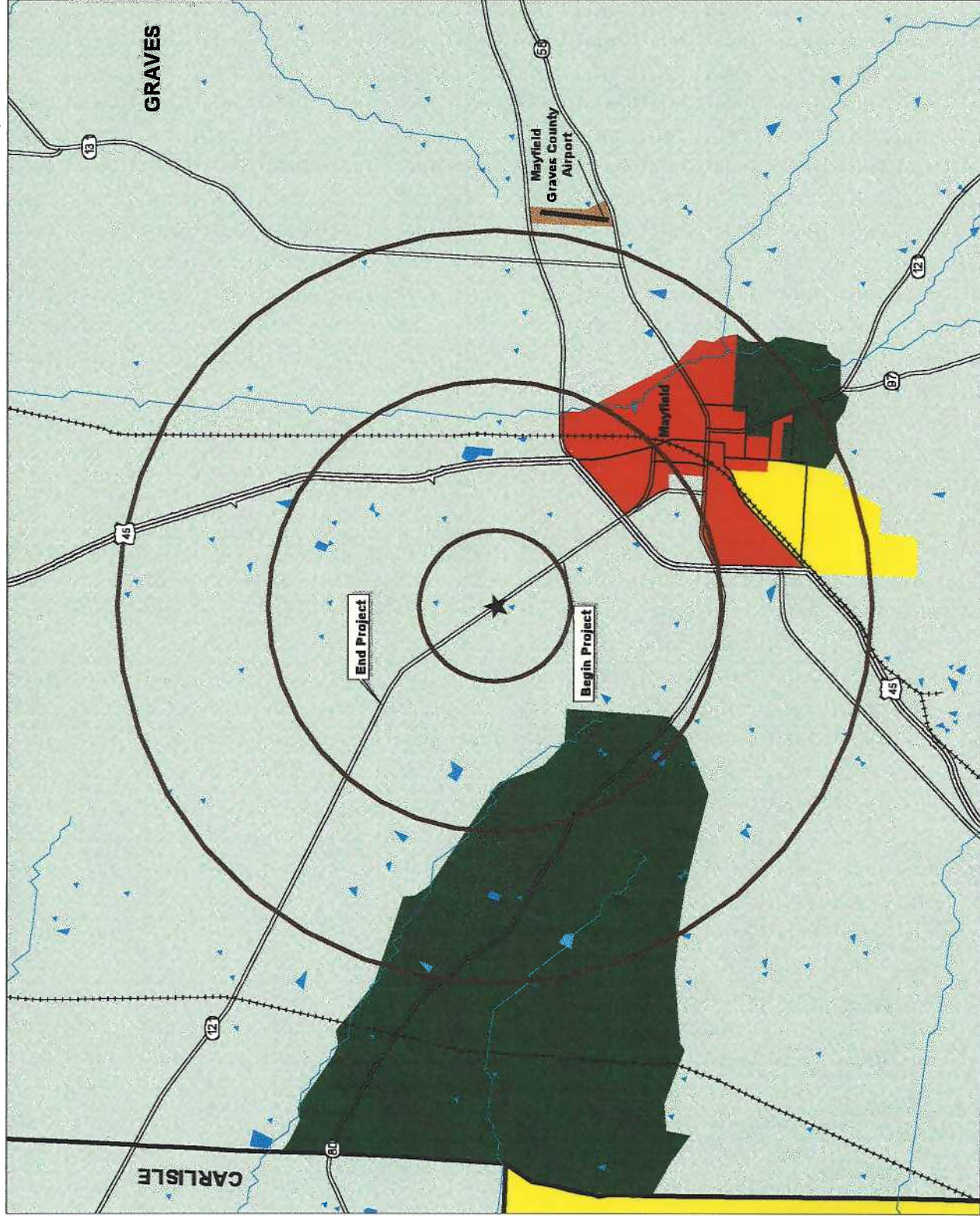
Source: 2000 U.S. Census Population and Housing Summary Tape File 3 (STF3) Data. Aggregated to Block Group Level.

Relative State Minority Threshold: 12.82%

Relative State Low Income Threshold (20K): 36.02%



# POTENTIAL EJ AREAS AROUND PROJECT LOCATION, KENTUCKY



- ★ Project Location
- 1, 3, 5mi. Buffer Zones
- ▬ Major Streams
- ▬ Railroads
- ▬ County Boundaries
- ▬ Indian Lands
- ▬ Potential EJ Areas
- ▬ Low Income
- ▬ Minority
- ▬ Minority/Low Income
- ▬ Non-EJ Areas



Source: 2000 U.S. Census Population and Housing Summary Tape File 3 (STF3) Data. Aggregated to Block Group Level.

Relative State Minority Threshold: 12.82%

Relative State Low Income Threshold (20K): 36.02%



EPA REGION 4  
OFFICE OF ENVIRONMENTAL ACCOUNTABILITY



Dave  
Stuckert  
PW

Commonwealth of Kentucky  
**Transportation Cabinet**  
Frankfort, Kentucky 40622

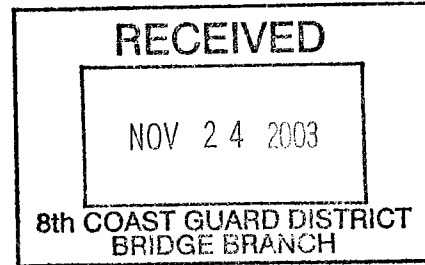
James C. Codell, III  
Secretary of Transportation

Paul E. Patton  
Governor

Clifford C. Linkes, P.E.  
Deputy Secretary

November 21, 2003

Mr. Roger Wiebusch  
Bridge Administrator  
United States Coast Guard, Bridge Branch  
1222 Spruce Street  
St. Louis, MO 63103



SUBJECT: Planning Study  
Graves County  
KY 121 from 400 feet south of Harris Lane  
To KY 945  
Item No. 01-8100.00

Dear Mr. Wiebusch:

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 of KY 121 from 400 feet south of Harris Lane to the intersection with KY 945 in Graves 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 environmental issues and impacts related to the proposed project. We believe that early identification of issues or concerns can help us develop improvement recommendations that avoid or minimize negative impacts.

We respectfully ask that you provide us with your comments by January 5, 2004 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, 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.

**EDUCATION PAYS**  
Pursuant to the Coast Guard Authorization Act of 1982, it has been determined this is not a waterway over which the Coast Guard exercises jurisdiction for bridge administration purposes. A Coast Guard bridge permit is not required.

KENTUCKY TRANSPORTATION CABINET  
"PROVIDE A SAFE, EFFICIENT, ENVIRONMENTALLY SOUND, AND ECONOMICALLY SOUND TRANSPORTATION SYSTEM WHICH PROMOTES ECONOMIC GROWTH AND ENHANCES THE QUALITY OF LIFE IN KENTUCKY."  
"AN EQUAL OPPORTUNITY EMPLOYER"

ROGER WIEBUSCH  
Bridge Administrator  
Eighth Coast Guard District (obr)

12/18/03  
(Date)

United States Department of Agriculture



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

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

December 29, 2003

Dear Ms. Coffey:

In regards to the Planning Study for Graves County (KY 121 from 400 feet south of Harris Lane to KY 945, Item No. 01-8100.00), 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](http://www.nrcs.usda.gov/programs/fppa/pdf_files/AD1006.PDF) and [http://www.nrcs.usda.gov/programs/fppa/pdf\\_files/CPA106.pdf](http://www.nrcs.usda.gov/programs/fppa/pdf_files/CPA106.pdf).

The contact person is:

Ron B. Froedge, District Conservationist  
USDA-Natural Resources Conservation Service  
59 Construction Road  
Mayfield, KY 42066-6754

phone: (270) 247-9529

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

Sincerely,

A handwritten signature in black ink that reads "D. G. Sawyer acting for".

DAVID G. SAWYER  
State Conservationist

cc: Ron B. Froedge, District Conservationist, Mayfield, KY  
William E. Giesecke, Area Conservationist, Madisonville, KY



# United States Department of the Interior

FISH AND WILDLIFE SERVICE  
3761 GEORGETOWN ROAD  
FRANKFORT, KY 40601

DIV OF PLANNING

2003 DEC 19 A 10:32

December 17, 2003

Ms. Annette Coffey  
Kentucky Transportation Cabinet  
Division of Planning  
125 Holmes Street  
Frankfort, Kentucky 40601

Subject: FWS #04-0317; Planning Study; KY 121 to KY 945, Graves County, Kentucky  
KTC Item No. 01-8100.00

Dear Ms. Coffey:

Thank you for your correspondence of November 21, 2003, regarding the proposed reconstruction of KY 121 from 400 feet south of Harris Lane to the intersection with KY 945 in Graves County, Kentucky, as shown on the attachments to your correspondence. Fish and Wildlife Service (Service) personnel have reviewed the information submitted, and we offer the following comments.

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.

Upon review of the proposed projects, we find that the information provided is insufficient to determine if the proposed actions will require U.S. Army Corps of Engineers' permits. Since permit applications could more thoroughly reveal the extent of construction activities affecting aquatic resources, we will provide additional comments during the 404 review process should the project necessitate Corps' permits. However, we would likely have no objection to the issuance of permits if any necessary stream channel work is held to a minimum and Best Management Practices are utilized and enforced, effectively controlling erosion, sedimentation, and other potential hazards. The following conditions are specifically recommended:

1. Erosion and sediment control measures, including but not limited to the following, should be implemented on all vegetatively denuded areas:
  - a. Preventive planning: A well-developed erosion control plan which entails a preliminary investigation, detailed contract plans and specifications, and final erosion and sediment control contingency measures should be formulated and made a part of the contract.
  - b. Diversion channels: Channels should be constructed around the construction site to keep the work site free of flow-through water.
  - c. Silt barriers: Appropriate use should be made of silt fences, hay bale and brush barriers, and silt basins in areas susceptible to erosion.
  - d. Temporary seeding and mulching: All cuts and fill slopes, including those in waste sites and borrow pits, should be seeded as soon as possible.
  - e. Limitation of in-stream activities: In-stream activities, including temporary fills and equipment crossings, should be limited to those absolutely necessary.
2. Channel excavations required for pier placement should be restricted to the minimum necessary for that purpose. Overflow channel excavations should be confined to one side of the channel, leaving the opposite bank and its riparian vegetation intact.
3. All fill should be stabilized immediately upon placement.
4. Streambanks should be stabilized with riprap or other accepted bioengineering technique(s).
5. Existing transportation corridors should be used in lieu of temporary crossings where possible.
6. Good water quality should be maintained during construction.

Efficient management practices can minimize adverse impacts associated with construction. It is important that these and other measures be monitored and stringently enforced. This will aid in preserving the quality of the natural environment.

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 the KTC 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 accomplished, 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 justification or explanation if either 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





DIV OF PLANNING

2003 DEC 17 P 2:17

The Secretary for Health Services  
COMMONWEALTH OF KENTUCKY  
275 EAST MAIN STREET  
FRANKFORT, KENTUCKY 40621-0001  
(502) 564-7042

ERNIE FLETCHER  
GOVERNOR

JAMES W. HOLSINGER, JR., M.D., PH.D.  
SECRETARY

December 15, 2003

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

Dear Ms. Coffey:

This is in response to your request to review a planning study to determine the need and potential impacts for a proposed highway project in Graves County. Please be advised, this project will not impact the operations of the Cabinet for Health Services.

If I may be of further assistance to you, please feel free to contact this office.

Sincerely,

Ellen M. Heslen  
Deputy Secretary

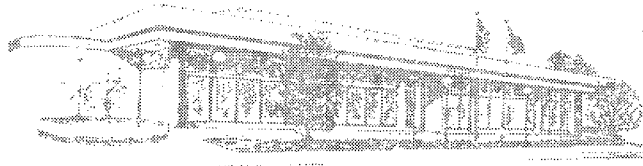
*"...promoting and safeguarding the health and wellness of all Kentuckians."*



EQUAL OPPORTUNITY EMPLOYER M/F/D

# CITY OF MAYFIELD

*Office of the Mayor*  
211 East Broadway  
Mayfield, Kentucky 42066



Phone: (270) 247-1981  
Fax: (270) 247-2485  
E-mail: [abyrn@cityofmayfield.org](mailto:abyrn@cityofmayfield.org)

December 8, 2003

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

Dear Ms. Coffey:

As the Mayor of the City of Mayfield, I would like to offer the following comments on a planning study that is being used to determine the need and potential impacts for a proposed highway project that affects our community. The project is the proposed reconstruction of KY 121 from 400 feet south of Harris Lane to the intersection with KY 945 here in Graves County.

I believe this proposed construction would relieve congestion and improve capacity in this area. This point can be proven in the recently completed improvements on KY 121 from the Julian M. Carroll Parkway to just north of the Graves County High School entrance.

Also, I am convinced that this improvement would accommodate increased truck use and promote regional connectivity. Both Wickliffe and Mayfield are home to companies that generate significant numbers of trucks that travel the study corridor. KY 121 is on the National Truck Network and is the primary connector between Mayfield and Wickliffe. A Regional Industrial Park proposed north of Mayfield on US 45, if completed, could have a significant impact on traffic levels and truck percentages in the study corridor.

Please use these points as you continue to gather data for the study of this proposed improvement. If I can offer any other assistance, please do not hesitate to call.

Sincerely,

Arthur Byrn, Mayor  
City of Mayfield, Kentucky

2003 DEC 15 A 11: 09  
DIV OF PLANNING

**FISH & WILDLIFE COMMISSION**

Mike Boatwright, Paducah  
Tom Baker, Bowling Green  
Allen K. Gailor, Louisville  
Ron 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

December 2, 2003

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

Re: Threatened/Endangered Species and Critical Habitat Review: KY121 Reconstruction,  
Item No. 01-8100.00, Graves County, 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 (KFWIS) indicates that no federally threatened or endangered species are known to occur in the Hickory 7.5 minute USGS quadrangle. The KFWIS indicates that state threatened or endangered (T&E) species are known to occur in the Hickory 7.5 minute USGS quadrangle, but are not found in the vicinity of this project. Please be aware that our database system is a dynamic one that only represents our current knowledge of the various species distributions.

Due to the nature of the project, KDFWR does not anticipate impacts to critical habitat or fish and wildlife.

I hope this information will be helpful to you. Should you require additional information, please contact me at (502) 564-7109, ext. 366.

Sincerely,

A handwritten signature in cursive script that reads "Brad Pendley".

Brad Pendley  
Wildlife Biologist

cc: Environmental Section File

2003 DEC -4 P 2: 29  
DIV OF PLANNING



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

December 3, 2003

DIV OF PLANNING  
2003 DEC -4 P 2:28

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 highway project on KY 121 from 400 feet south of Harris Lane to the intersection with KY 945 in Graves County, Item Number 01-8100.00. 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  
December 3, 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 that reads "John E. Gowins". The signature is written in a cursive style with a large, looping initial "J".

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**

P-12-03 DIV OF PLANNING  
2003 DEC -3 P 2:46

**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:** December 2, 2003

**SUBJECT:** Graves County  
FD04 040 0121 012 - 017 P  
KY. 121, From 400 Feet South of Harris Lane to Ky. 945.  
Item 01-8100.00  
Mars # 73350 01 P  
Planning Study

At your request, the Branch has completed a review of the project. The project is located on the Hickory Geologic Quadrangle. The area is underlain by Alluvium, Loess, Continental Deposits and the Claiborne Formation.

The Alluvium is composed of sand, silt and gravel and has a thickness of 0-35 feet. The Loess consist mainly of silt and is highly erosive, the thickness varies and may be up to 14 feet. Continental Deposits consist of sands, gravel and clay up to 100 feet in thickness. The Claiborne Formation consists of sand and clay and can be approximately 103 feet thick. The formation is also considered erosive. The material of the Claiborne will be the least encountered, as it is outcrops only in a few areas mainly in and along stream beds.

Listed below are the branches concerns for the project area:

1) A large portion of the project will encounter Loess and Continental Deposits, which are highly erosive. Cut slopes in these materials may require flatter slopes (2 ½:1 or flatter) especially in areas with high water tables. Slope protection may be required in some case to prevent erosion. The Loess deposits cover quite a large area of the quadrangle and any corridor chosen in the study area will likely encounter these deposits. Embankment fill slopes may require flatter than normal slopes for fills higher than 15 to 20 feet in height. Sub-grade stabilization will be required throughout the project.

**Memorandum**  
**Annette Coffey, P.E.**  
**December 2, 2003**  
**Page-2-**

2) The project is located in Seismic Risk Zone 3 which is considered as a high risk for earthquake damage. Structures should be designed accordingly.

If there are any questions, please advise.



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

DIV OF PLANNING  
2003 DEC 11 P 3: 06

PAUL E. PATTON  
GOVERNOR

PATRICK N. SIMPSON  
COMMISSIONER

December 4, 2003

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

Dear Ms. Coffey:

I am in receipt of your correspondence concerning a planning study on reconstructing KY 121 from 400 feet south of Harris Lane to the intersection with KY 945 in Graves County.

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 W. Brewer".

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

RB:DH:mls

cc: Patrick N. Simpson, Commissioner  
Major Dean Hayes, West Troop Commander  
Captain Steve Humphreys, Commander, Post 1



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HENRY C. LIST  
SECRETARY



ERNIE FLETCHER  
GOVERNOR

**NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION CABINET**

**DEPARTMENT FOR NATURAL RESOURCES**

DIVISION OF FORESTRY

LEAH W. MACSWORDS, DIRECTOR

627 COMANCHE TRAIL

FRANKFORT, KENTUCKY 40601

December 10, 2003

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

Dear Ms. Coffey:

Re: Planning Study, Graves County  
KY 121 From 400 Feet South of Harris Lane to KY 945  
Item No. 01-8100.00

I asked the local district forester, Randy Hjetland, to examine this proposal and the area in concern. He reports that if the project stays within or adjacent to the current right-of-way, the Division of Forestry would have no immediate concerns. If portions of KY 121 were rerouted, some concerns would be the listed wetland and loss of forestland.

Thank you for the opportunity to comment.

Sincerely,

A handwritten signature in black ink, appearing to read "Leah W. MacSwords".

Leah W. MacSwords  
Director

LWM:RH:fap

2003 DEC 11 P 3:06  
DIV OF PLANNING



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DIV OF PLANNING

2003 DEC -2 P 2: 35

James C. Codell, III  
Secretary of Transportation

Commonwealth of Kentucky  
**Transportation Cabinet**  
Frankfort, Kentucky 40622

Paul E. Patton  
Governor

Clifford C. Linkes, P.E.  
Deputy Secretary

**MEMORANDUM**

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

**FROM:** Phillip Mann *PM*  
Acting Branch Manager *m:elc*  
Permits Branch

**DATE:** December 2, 2003

**RE:** Graves County Study Team of KY 121 from 400 feet south of Harris Lane to KY 945  
Item No. 01-8100-00

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 where possible.
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. 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.
4. We would like to see access control fence installed with the project in the partial control access portion.
5. Please notify this office if the proposed roadway is to be placed on the National Highway System. This information is needed to assist us in regulating the installation of any outdoor advertising device.
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



**Ross, Steve (KYTC)**

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**From:** Greer, Daryl (KYTC)  
**Sent:** Tuesday, November 25, 2003 12:25 PM  
**To:** Ross, Steve (KYTC)  
**Subject:** FW: KY 121 and Harris Lane in Graves County

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

**From:** Coffey, Annette (KYTC)  
**Sent:** Tuesday, November 25, 2003 12:01 PM  
**To:** Greer, Daryl (KYTC)  
**Subject:** FW: KY 121 and Harris Lane in Graves County

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

**From:** Prewitt, Ben (KYTC)  
**Sent:** Tuesday, November 25, 2003 11:58 AM  
**To:** Annette Coffey  
**Cc:** Arthur Pace  
**Subject:** KY 121 and Harris Lane in Graves County

The Aeronautics Division views the subject, potential projects as unlikely to affect the Mayfield-Graves County Airport, or any other public use Kentucky airport.

**Ross, Steve (KYTC)**

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**From:** Palmer-Ball, Brainard (NREPC, KSNPC)  
**Sent:** Wednesday, November 26, 2003 8:44 AM  
**To:** Ross, Steve (KYTC)  
**Subject:** KSNPC response to planning study announcement

TO: Steve Ross/Annette Coffey, KTC/Division of Planning

FROM: Brainard Palmer-Ball, Jr., KSNPC

DATE: November 26, 2003

RE: Planning Study for KY 121 NW of Mayfield, Graves Co.

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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