

APPENDIX D
RESOURCE AGENCY LETTERS



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

October 23, 2003

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

Dear «Letter_Title» «Last_Name»:

SUBJECT: Planning Study
Union County
US 60, From Sturgis to Morganfield
Item No. 02-8102.00

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 widening and/or relocation reconstruction of US 60 in Union County from KY 109 in Sturgis to KY 56 in Morganfield. 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 December 12, 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.

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:

- Purpose, Issues, Schedule, and Project Goals
- County Map & Project Location
- General Information
- Level of Service Calculations
- Exhibit 1 Year 2002 Traffic and Level of Service
- Exhibit 2 Year 2030 Traffic and Level of Service
- Crash Analysis
- Exhibit 3 High Accident Segments
- USGS Topographic Environmental Footprint
- KYOGIS Orthophoto Environmental Footprint

We appreciate any input you can provide concerning this project. Please direct any comments, questions, or requests for additional information to Daryl Greer or Joseph Tucker of the Division of Planning by phone at (502) 564-7183 or by email at daryl.greer@mail.state.ky.us or joseph.tucker@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:DJG:JLT:RC

Enclosures

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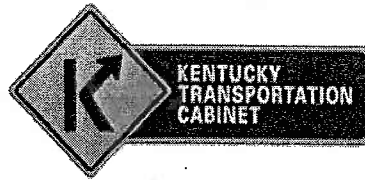
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**PROGRAMMING STUDY
PURPOSE, ISSUES, SCHEDULE, AND PROJECT GOALS
UNION COUNTY, US 60
FROM STURGIS TO MORGANFIELD
ITEM No. 02-8102.00**

STUDY PURPOSE

The purpose of this Alternatives Study is to evaluate US 60 from Sturgis to Morganfield and determine possible alternatives to improve safety and traffic flow. The study is intended to help define the location and purpose of the project and better meet federal requirements regarding consideration of environmental issues as defined in the National Environmental Policy Act (NEPA). Items involved with this study include:

- Define project goals;
- Identify the beginning and ending points of the project as well as possible design criteria;
- Discuss project needs and issues with public officials, government agencies, and other groups with a special interest in the project;
- Identify known environmental concerns; and
- Listen to and share information with the public.

ISSUES

The most imperative needs on this section of roadway pertain to system connectivity. Several locations west of the study area have been improved or are scheduled for improvements. Other issues are as follows:

- The current route would operate at a less than desirable Level of Service in the design year of 2030, and with the possibility of many large scale projects including I-66 and I-69, increased traffic may produce considerable congestion.
- Many areas along the route have horizontal and vertical curves that do not meet current design guidelines. Several intersections throughout the study area have less than preferred sight distance.
- Many points of interest such as schools and the county hospital are located along the route.




STUDY CORRIDOR



COUNTY MAP & PROJECT LOCATION
UNION COUNTY, US 60
ITEM NO. 02-8102.00

Union County
US 60
From Sturgis to Morganfield

General Information

County: Union
Route: US 60 **Beg MP:** 5.671 **End MP:** 16.300
Item No: 8102
Description: Programming Study for US 60 from Sturgis to Morganfield.

Area Development District (ADD): Green River ADD
Bike Route: No
Coal Haul Route: Yes
Defense Highway: No
Highway District: District 2
Functional Classification: Rural Minor Arterial
National Truck Network: Yes
National Highway System (NHS): No
Number of Bridges: 2 (Lengths 134 and 107 feet)
Pavement type: Mixed
Scenic Byway: No
State System: State Primary (Other)
Truck Weight Class: AAA (80,000 lb. Gross load limit)
Type of Road: Undivided Highway
Type of Terrain: Rolling

Level of Service Calculations

Begin Milepoint	End Milepoint	2002 Average Daily Traffic	Annual Growth Rate	2030 Average Daily Traffic	% Trucks	Lane Width (Feet)	Shoulder Width (Feet)	2002 Level of Service	2030 Level of Service No Improvements.
5.671	5.848	6630	2.4%	12900	6.4%	12	0	C	D
5.848	6.200	6980	2.4%	13600	6.4%	12	0	C	D
6.200	7.197	6130	2.4%	11900	6.4%	12	3	C	D
7.197	10.515	5360	2.4%	10400	6.4%	11	3	C	D
10.515	13.289	6520	2.4%	12700	6.4%	11	3	C	D
13.289	15.412	4500	2.4%	8700	6.4%	11	3	C	D
15.412	16.265	4500	2.4%	8700	6.4%	12	3	C	D
16.265	16.300	8520	2.4%	16600	6.4%	14	0	D	E

Milepoint Descriptions

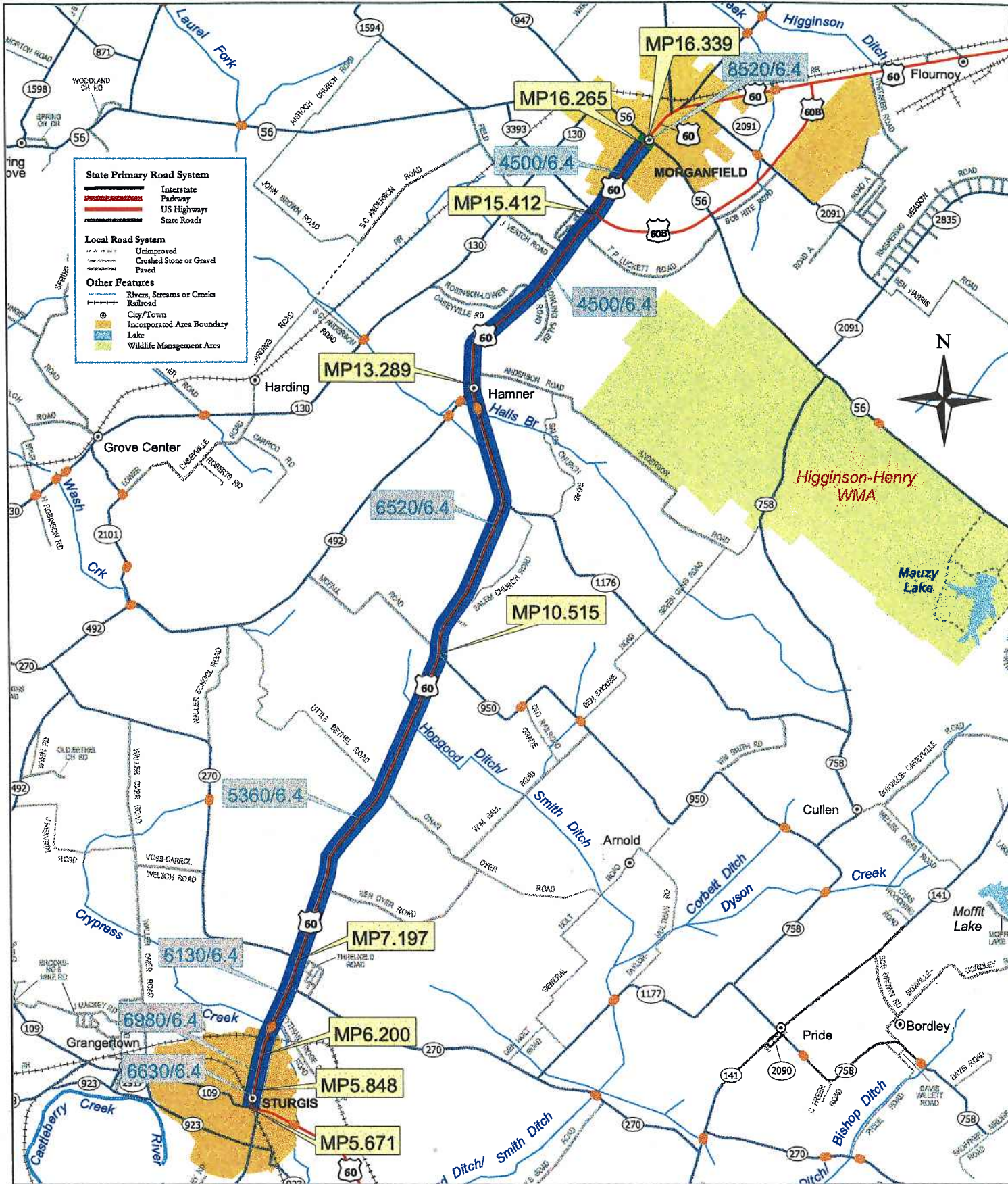
5.671	KY 109 (Main Street in Sturgis)
5.848	7th Street
6.200	12th Street
7.197	KY 270 West
10.515	KY 950/ McFall Road
13.289	KY 492 (Hamner-Henshaw Road)
15.412	US 60 Bypass
16.265	O'Bannon Drive
16.300	Truitt Street

Note:

Level of Service (LOS) is used to describe traffic conditions and includes consideration of speeds, travel time, freedom to maneuver, traffic interruptions, comfort, and convenience. LOS is given letter designations from A to F with LOS A representing free flow conditions and LOS F representing severe congestion. Typically, a minimum LOS D is acceptable in urban areas and LOS C in rural areas.

Exhibit 1 on the next page shows a visual representation of the current LOS on US 60 between Sturgis and Morganfield.

Exhibit 2 shows a visual representation of the projected LOS in the year 2030 on an unimproved US 60 between Sturgis and Morganfield.



2002 LOS

- C or better
- D

1 0 1 2 Miles

2002 ADT/TRUCK %

MP0.000 MILE POINT



**EXHIBIT 1
YEAR 2002
TRAFFIC AND LEVEL
OF SERVICE**
Union County, US 60
From Sturgis to
Morganfield
Item No. 02-8102.00

State Primary Road System

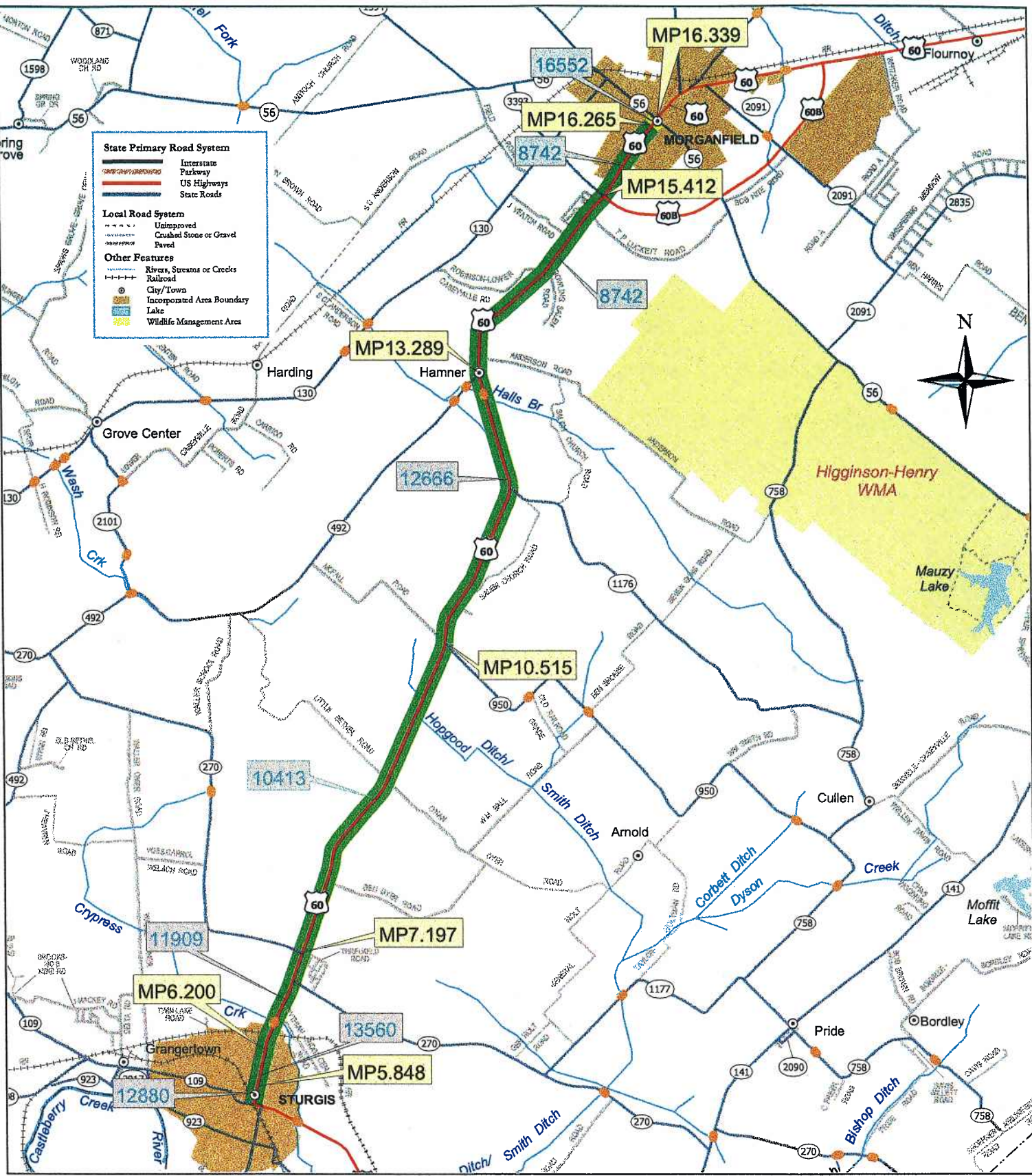
- Interstate
- Parkway
- US Highways
- State Roads

Local Road System

- Unimproved
- Crushed Stone or Gravel
- Paved

Other Features

- Rivers, Streams or Creeks
- Railroad
- City/Town
- Incorporated Area Boundary
- Lake
- Wildlife Management Area



2030 LOS

- D
- E

2030 ADT

MP0.000 MILE POINT



**EXHIBIT 2
YEAR 2030
TRAFFIC AND LEVEL
OF SERVICE**

Union County
US 60
From Sturgis to
Morganfield
Item No. 02-8102.00

Crash Analysis							
Begin Milepoint	End Milepoint	Average Daily Traffic	Crashes				Critical Rate Factor
			Fatal	Injury	Property Damage Only	Total	
January 1, 2000 to December 31, 2002 Crash Data for Segments							
5.671	5.847	6630	0	1	4	5	0.599
5.848	6.199	6980	0	1	5	6	0.430
6.200	7.196	6130	0	3	10	13	0.466
7.197	10.514	5360	0	14	15	29	0.429
10.515	13.288	6520	1	17	25	43	0.627
13.289	15.411	4500	1	17	36	54	1.348
15.412	16.264	4500	0	11	26	37	1.902
16.265	16.300	8520	0	4	9	13	3.552
January 1, 2000 to December 31, 2002 Crash Data for Spots							
16.000	16.300	4980	0	10	28	38	3.843
14.800	15.100	4500	0	7	19	26	2.817
14.300	14.600	4500	0	4	5	9	0.975

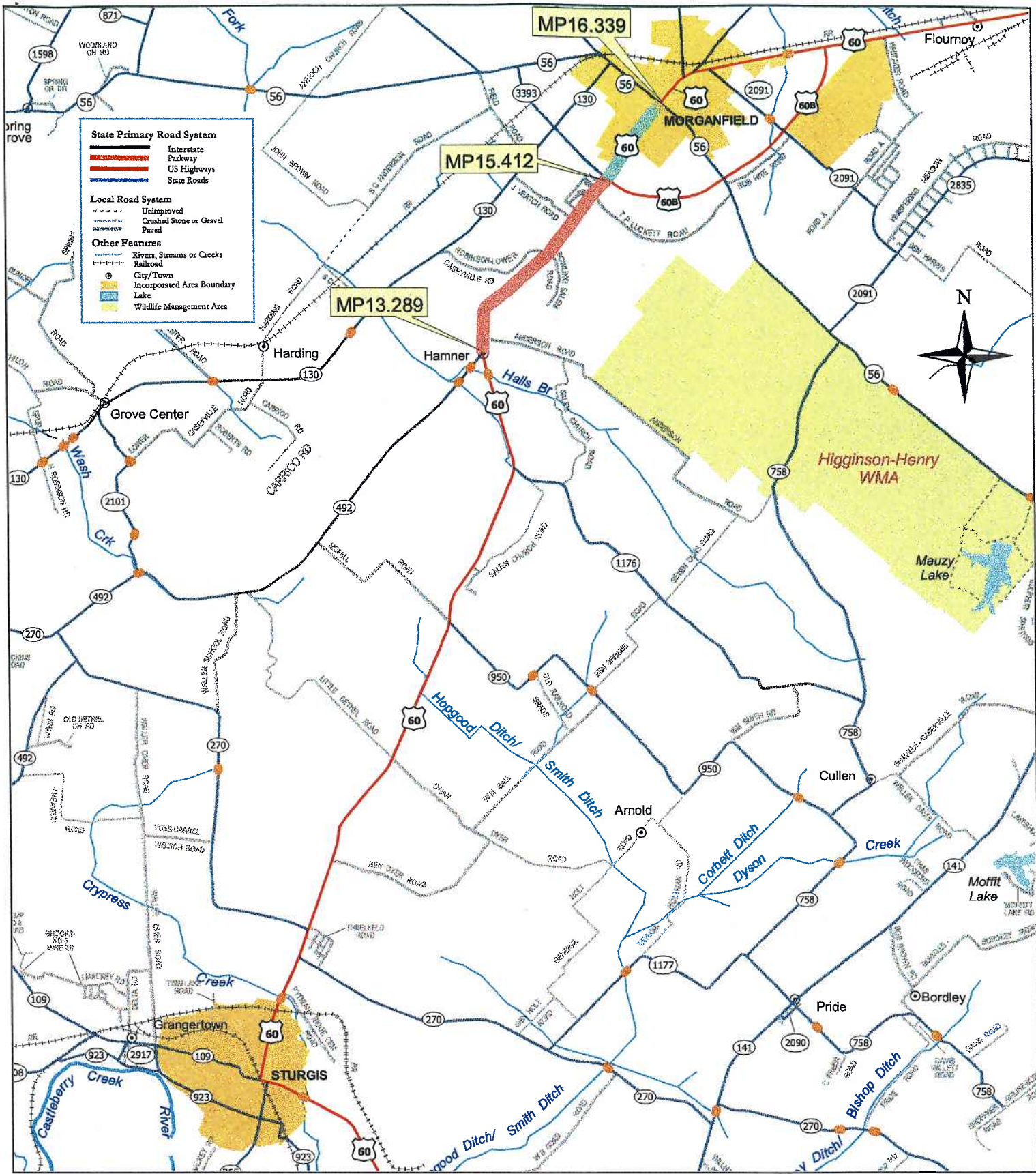
Milepoint Descriptions

5.671	KY 109 (Main Street in Sturgis)
5.848	7th Street
6.200	12th Street
7.197	KY 270 West
10.515	KY 950/ McFall Road
13.289	KY 492 (Hamner-Henshaw Road)
15.412	US 60 Bypass
16.265	O'Bannon Drive
16.300	Truitt Street

Note:

When a spot or segment has a Critical Rate Factor (CRF) greater than 1.00, it indicates that crashes at that location may not be occurring randomly.

Exhibit 3 on the next page shows a visual representation of the high accident segments of US 60 between Sturgis and Morganfield.



State Primary Road System

- Interstate
- Parkway
- US Highways
- State Roads

Local Road System

- Unimproved
- Crushed Stone or Gravel
- Paved

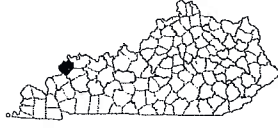
Other Features

- Rivers, Streams or Creeks
- Railroad
- City/Town
- Incorporated Area Boundary
- Lake
- Wildlife Management Area

HIGH ACCIDENT SEGMENTS	
	CRF 1.348
	CRF 1.902
	CRF 3.552

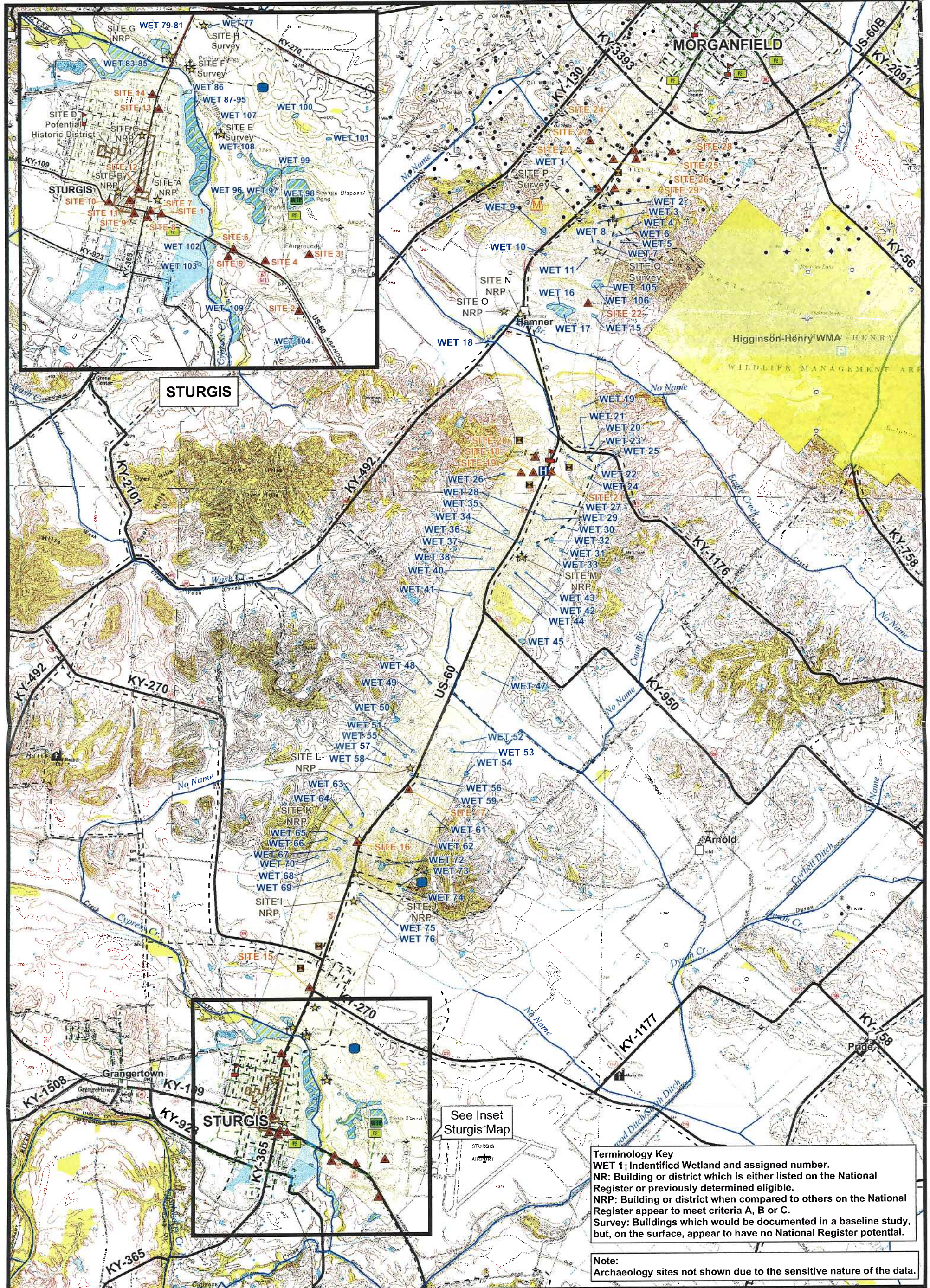
1 0 1 2 Miles

MP0.000 MILE POINT



**EXHIBIT 3
HIGH ACCIDENT
SEGMENTS**

Union County
US 60
From Sturgis to
Morganfield
Item No 02-8102.00



STURGIS

MORGANFIELD



See Inset Sturgis 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.



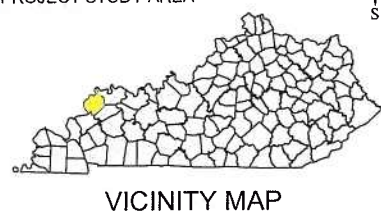
- Airport
- Church
- Park
- Populated Place
- Cemetery
- School
- Hospital
- Potential Historic Location
- Potential Historic District
- HAZMAT Site
- Landfill
- Oil Well
- Gas Well
- Combined Oil and Gas
- Newly Permitted Well
- Dry and Abandoned Well
- Miscellaneous Well
- Waterline
- Water Well
-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

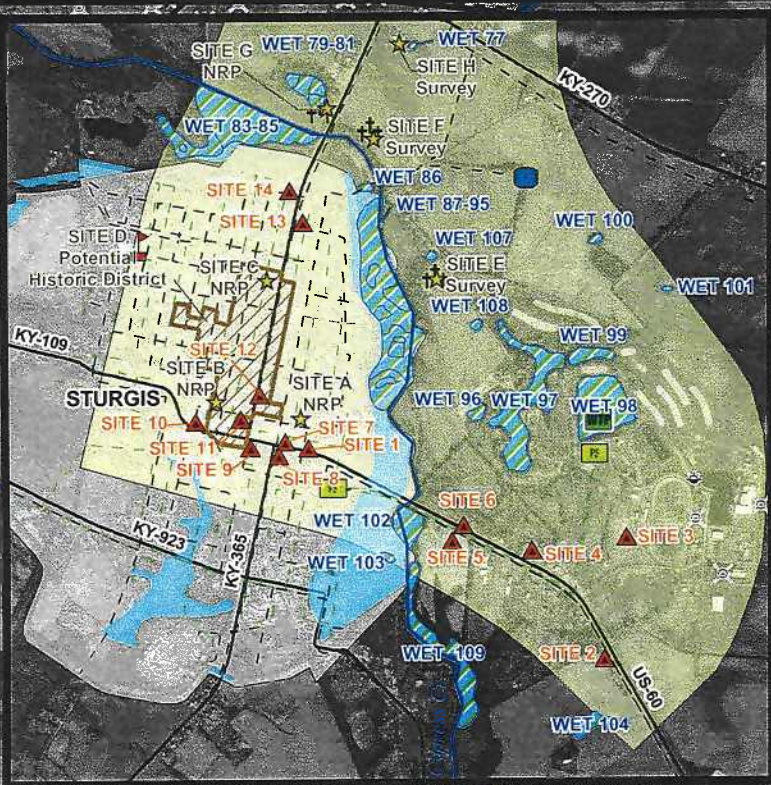
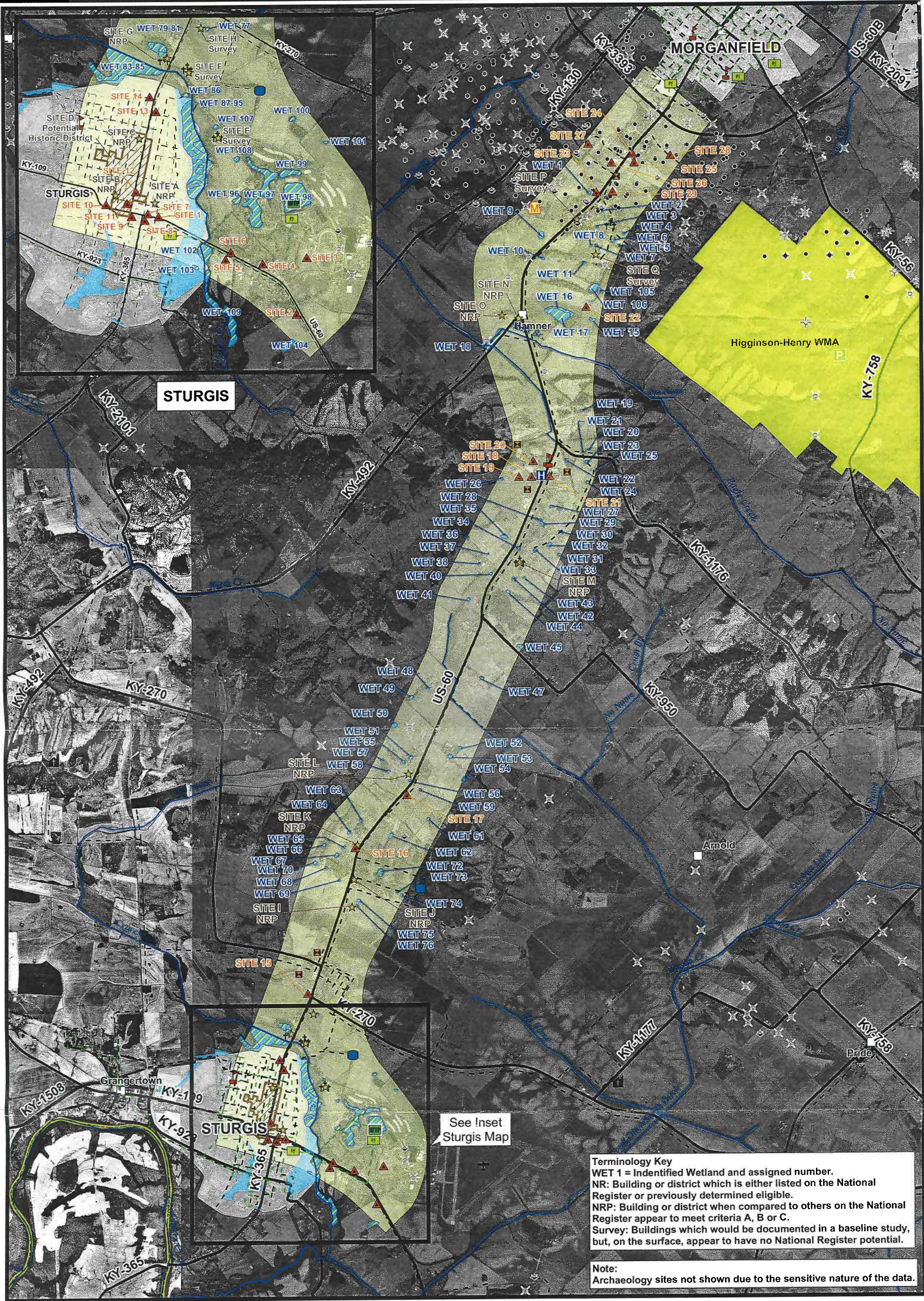
4,000 2,000 0 4,000 Feet



Exhibit 1 Sheet 1 of 1

USGS Topographic Environmental Footprint
 US 60
 Sturgis to Morganfield
 Union County
 KYTC Item No. 2-8102.00





STURGIS

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

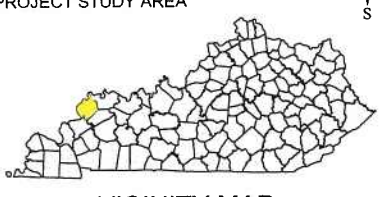
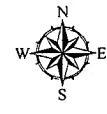
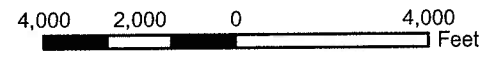


Exhibit 2 Sheet 1 of 1
KYOGIS Orthophoto Environmental Footprint
 US 60
 Sturgis to Morganfield
 Union County
 KYTC Item No. 2-8102.00



DIV OF PLANNING

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

2003 NOV 25 P 2: 27 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
Union County
US 60, From Sturgis to Morganfield

Thank you for the opportunity to respond to the Planning Study for US 60 from Sturgis to Morganfield, Kentucky. 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.

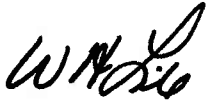
After reviewing the site plan for the construction of a new highway in the area described, I find that the Cabinet for Workforce Development has no objection to the project and I find no negative impact occurring upon the services provided by this agency. An improved roadway would most likely facilitate 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.



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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 black ink, appearing to read 'W. H. Lile', written in a cursive style.

W. H. Lile, Secretary
Cabinet for Workforce Development

WL/



DIV OF PLANNING

2003 SEP 17 A 10:37

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

Date: September 12, 2003

Re: Environmental Overview
US 60 – construct 4 lanes from Sturgis to Morganfield
Union County, Kentucky Item # 2-8102.00

The proposed project for US 60 located in the above-listed county 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 study data presented; additional comments could be provided if/when site visits are conducted:

1. The Air Quality status of the project likely would not be a problem; the project appears to be outside of the area requiring conformity. The planning study should clearly state that the project originates from the latest conforming STIP.
2. Streams, flood prone areas and wetlands appear to be present throughout the area; plans are required in order to provide a detailed assessment of a need for permit. Impacts to these areas should be avoided. These areas would pose mitigation issues if impacted. Avoidance and/or minimization during the design process are recommended. A base study for wetlands will also be required.
3. There is a potential for agricultural/chemical runoff to enter the groundwater system via sinkholes within proximity of the project. An assessment of the immediate area near the sinkholes may be warranted.



Annette Coffey
September 12, 2003
Page 2

4. Specific details concerning unknown HAZMAT and storage tanks would need to be obtained through a thorough site assessment.
5. Potential section 4(f) and section 106 issues exist in the project corridor. Several potential National Register sites will require a full baseline study; impacts to these resources should be avoided/minimized.
6. The project could have relocations and should be discussed later in future environmental documents. Farmland impacts and drainage concerns could be substantial if the existing land use should change.
7. USFWS coordinations for endangered species will be required. A biological assessment for the Indiana Bat and Gray Bat will be required.

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 D. Taylor (D2) D. Greer (Planning)

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

October 30, 2003

Dear Ms. Coffey:

In regards to the Planning Study for **Union County** (US 60, from Sturgis to Morganfield, Item No. 02-8102.00), 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 and http://www.nrcs.usda.gov/programs/fppa/pdf_files/CPA106.pdf.

The contact person is:

Lester O. Carrithers, District Conservationist
USDA-Natural Resources Conservation Service
332 East Waverly Street
Morganfield, KY 42437-1104

phone: (270) 389-1981

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

Sincerely,

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

DAVID G. SAWYER
State Conservationist

cc: Lester O. Carrithers, District Conservationist, Morganfield, KY
William E. Giesecke, Area Conservationist, Madisonville, KY

2003 NOV -4 A 10: 17
DIV OF PLANNING



DIV OF PLANNING

2003 OCT 31 A 9:49

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

MEMORANDUM

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

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

DATE: October 30, 2003

RE: Planning Study
Union County
US 60, From Sturgis to Morganfield

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 RW 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 RW 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





UNIVERSITY OF KENTUCKY

DIV OF PLANNING

2003 NOV -7 A 11: 28

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 geologic concerns for the planning study:

Union County
U.S. 60, from Sturgis to Morganfield Ky.
Item No. 02-8102.00

Physiographic Region

The planning study area is in the Western Kentucky Coal Field. It is underlain by sandstone, siltstone, shale, coal, underclay, limestone, gravel, sand, silt, and clay.

Karst Potential

The planning study might encounter some karst features, such as sinkholes and caves, in or near limestone units.

Landslide Potential

The planning study might encounter pre- or post-landslide hazards.

Unconsolidated Sediments

The planning study would encounter unconsolidated sediments such as gravel, sand, silt, and clay.

Resource Conflicts

The planning study might encounter resource conflicts such as prior ownership of property for coal or limestone mining.

Underground Mining

This planning study might encounter areas where coal has been mined below the surface.



Oil Wells

This planning study would encounter the Morganfield South Oil Field, which would have a number of oil wells.

Materials Suitability

The planning study might encounter material for use as construction stone.

Fault Potential

The planning study would encounter several concealed faulted areas.

Earthquake Ground Motions

The planning study area has 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 caused by earthquake bedrock ground motion.

Sincerely,

A handwritten signature in black ink that reads "Richard A. Smath". The signature is written in a cursive, slightly slanted style.

Richard A. Smath
Geologist

cc
Richard Wilson

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

2003 NOV 10 A 11:30
DIV OF PLANNING

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 widening and/or relocation reconstruction of US 60 in Union County from KY 109 in Sturgis to KY 56 in Morganfield, Item Number 02-8102.00. 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
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,



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.

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.

Greer, Daryl (KYTC)

From: Palmer-Ball, Brainard (NREPC, KSNPC)
Sent: Thursday, November 06, 2003 10:29 AM
To: Greer, Daryl (KYTC); Tucker, Joseph (KYTC)
Subject: KSNPC response to Planning Study announcement

TO: Daryl Greer/Joseph Tucker/Annette Coffey, KTC/Division of Planning

FROM: Brainard Palmer-Ball, Jr., KSNPC

DATE: November 6, 2003

RE: Planning Study for US 60 from Sturgis to Morganfield, Union Co.

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.



DIV OF PLANNING

2003 NOV 12 P 2: 26

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

PAUL E. PATTON
GOVERNOR

PATRICK N. SIMPSON
COMMISSIONER

November 7, 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 from US 60 in Union County from KY 109 in Sturgis to KY 56 in Morganfield.

I have forwarded your remarks to Captain Jerry Nauert, Commander of the Henderson Post. He can be reached at (270) 826-3312. Thank you for including our input during the planning stages of this development.

Sincerely,

A handwritten signature in black ink that reads "Rodney 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 Jerry Nauert, Commander, Post 16



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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

November 12, 2003

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

Re: Threatened/Endangered species and critical habitat review; US Highway 60
Expansion, Item No. 02-8102.00, Union 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 indicates that both state and federally threatened or endangered species are known to occur in Union County, KY (See attached lists). However, KDFWR does not anticipate any adverse impacts on T&E species. Please be aware that our database system is a dynamic one that only represents our current knowledge of the various species distributions.

KDFWR has determined that potential negative impacts to the aquatic resources can occur in the project area and offers the following recommendations:

- 1) crossing should be designed and constructed to accommodate high flow conditions;
- 2) development in or near streams only during low flow periods to minimize disturbances;
- 3) culverts should be placed even with substrate to allow aquatic organisms to move freely within stream channel;
- 4) proper placement of erosion control structures below disturbed areas to minimize entry of silt to stream;
- 5) 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;
- 6) return of disturbed instream habitat to its original condition upon completion of construction in the area;
- 7) avoidance of tree canopy overhanging streams; and
- 8) return all right-of-ways to original elevation.



Arnold L. Mitchell Bldg. #1 Game Farm Road Frankfort, Ky 40601
An Equal Opportunity Employer M/F/D

2003 NOV 14 P 2:22

DIV OF PLANNING

Page Two Ms. Coffey
November 12, 2003

It appears the proposed area for the project may include wetland areas. KDFWR recommends that you look at the appropriate US Department of the Interior National Wetlands Inventory Map to determine where the proposed project may impact these wetlands. The appropriate US Army Corps of Engineers office and the Kentucky Division of Water should be contacted before any construction takes place in jurisdictional wetlands. Additionally, KDFWR will recommend at least 2:1 mitigation for any permanent loss or degradation of wetland acreage. Any planning should include measures designed to reduce or eliminate impacts to these areas. If impacts cannot be avoided, mitigation should be properly designed and proposed to offset these losses.

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 black ink, appearing to read "Brad Pendley", with a long, sweeping underline.

Brad Pendley
Wildlife Biologist

cc: Environmental Section File

Species Information

Viewable/Downloadable Maps

Download GIS Data

KFWIS FTP Site

Links

Species Information

Federal Threatened and Endangered Species observations for selected counties

Linked life history provided courtesy of [NatureServe Explorer](#).
[US Status Definitions](#) [Kentucky Status Definitions](#)

List **Federal Threatened and Endangered Species** observations in **1** selected county.

Selected county is: UNION.
5 records are listed.

Page 1 of 1

Scientific Name	Common Name	Class	County	US Status	KY Status	Reference
<i>ALOSA ALABAMAE</i>	ALABAMA SHAD	OSTEICHTHYES	UNION	C	E	Reference
<i>HALIAEETUS LEUCOCEPHALUS</i>	BALD EAGLE	AVES	UNION	LT	E	Reference
<i>POTAMILUS CAPAX</i>	FAT POCKETBOOK	BIVALVIA	UNION	LE	E	Reference
<i>MYOTIS SODALIS</i>	INDIANA BAT	MAMMALIA	UNION	LE	E	Reference
<i>STERNA ANTILLARUM ATHALASSOS</i>	INTERIOR LEAST TERN	AVES	UNION	LE	E	Reference



Last Updated - 03/27/03

Species Information

Species Information

State Threatened and Endangered Species observations for selected counties

Viewable/Downloadable Maps

Linked life history provided courtesy of [NatureServe Explorer](#).
[US Status Definitions](#) [Kentucky Status Definitions](#)

Download GIS Data

List **State Threatened and Endangered Species** observations in **1** selected county.
Selected county is: UNION.
25 records are listed.

KFWIS FTP Site

Page 1 of 1

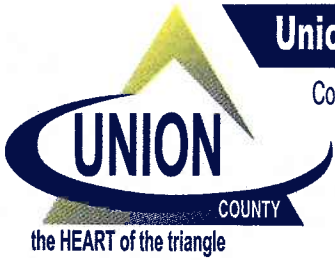
Links

Scientific Name	Common Name	Class	County	US Status	KY Status	Ref
<i>ALOSA ALABAMAE</i>	ALABAMA SHAD	OSTEICHTHYES	UNION	C	E	Ref
<i>FULICA AMERICANA</i>	AMERICAN COOT	AVES	UNION	N	H	Ref
<i>LITHASIA ARMIGERA</i>	ARMORED ROCKSNAIL	GASTROPODA	UNION	N	S	Ref
<i>HALIAEETUS LEUCOCEPHALUS</i>	BALD EAGLE	AVES	UNION	LT	E	Ref
<i>VIREO BELLII</i>	BELL'S VIREO	AVES	UNION	N	S	Ref
<i>NYCTICORAX NYCTICORAX</i>	BLACK-CROWNED NIGHT-HERON	AVES	UNION	N	T	Ref
<i>ANAS DISCORS</i>	BLUE-WINGED TEAL	AVES	UNION	N	E	Ref
<i>ICHTHYOMYZON CASTANEUS</i>	CHESTNUT LAMPREY	CEPHALASPIDOMORPHI	UNION	N	S	Ref
<i>NERODIA ERYTHROGASTER NEGLECTA</i>	COPPERBELLY WATERSNAKE	REPTILIA	UNION	N	S	Ref
<i>JUNCO HYEMALIS</i>	DARK-EYED JUNCO	AVES	UNION	N	S	Ref
<i>POTAMILUS CAPAX</i>	FAT POCKETBOOK	BIVALVIA	UNION	LE	E	Ref
<i>CORVUS OSSIFRAGUS</i>	FISH CROW	AVES	UNION	N	S	Ref
<i>ARDEA HERODIAS</i>	GREAT BLUE HERON	AVES	UNION	N	S	Ref
<i>ARDEA ALBA</i>	GREAT EGRET	AVES	UNION	N	E	Ref
<i>MYOTIS SODALIS</i>	INDIANA BAT	MAMMALIA	UNION	LE	E	Ref
<i>STERNA</i>	INTERIOR					

<u>ANTILLARUM ATHALASSOS</u>	INTERIOR LEAST TERN	AVES	UNION	LE	E	Ref
<u>EMPIDONAX MINIMUS</u>	LEAST FLYCATCHER	AVES	UNION	N	E	Ref
<u>ICTINIA MISSISSIPPIENSIS</u>	MISSISSIPPI KITE	AVES	UNION	N	S	Ref
<u>CIRCUS CYANEUS</u>	NORTHERN HARRIER	AVES	UNION	N	T	Ref
<u>ANAS CLYPEATA</u>	NORTHERN SHOVELER	AVES	UNION	N	E	Ref
<u>PANDION HALIAETUS</u>	OSPREY	AVES	UNION	N	T	Ref
<u>SITTA CANADENSIS</u>	RED- BREASTED NUTHATCH	AVES	UNION	N	E	Ref
<u>PASSERCULUS SANDWICHENSIS</u>	SAVANNAH SPARROW	AVES	UNION	N	S	Ref
<u>TOXOLASMA TEXASIENSIS</u>	TEXAS LILLIPUT	BIVALVIA	UNION	N	E	Ref
<u>NYCTANASSA VIOLACEA</u>	YELLOW- CROWNED NIGHT- HERON	AVES	UNION	N	T	Ref



Last Updated - 03/27/03



Union County Economic Development Foundation, Inc.

Courthouse - 100 West Main Street P.O. Box 374 Morganfield, Kentucky 42437 (270) 389-9600 (877) 459-1593 Toll Free (270) 389-0944 Fax

DIV OF PLANNING

2003 NOV 18 A 9: 38

17 November 2003

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

RE: Union County Planning Study – U S 60

Director Coffey,

Thank you for the opportunity to comment on the referenced planning study.

The only comment we have on the information received is that we believe the U S 60 improvement should start at the Morganfield U S 60 Bypass (MP15.412) and end at the 270 E intersection on the Sturgis section.

Thank you for your consideration.

Sincerely,

Jerry R. Ruark
Executive Director

Greer, Daryl (KYTC)

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.

Greer, Daryl (KYTC)

From: Siria, Bruce (KYTC)
Sent: Thursday, November 20, 2003 8:43 AM
To: Hall, Nick (KYTC-D02); Greer, Daryl (KYTC)
Subject: FW: Planning studies state wide

-----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

HENRY C. LIST
SECRETARY



PAUL E. PATTON
GOVERNOR

DIV OF PLANNING

COMMONWEALTH OF KENTUCKY
NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION CABINET
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
Union County
US 60, from Sturgis to Morganfield, Item Number 02-8102.00

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 blue ink that reads "Carl E. Campbell" with a stylized flourish at the end.

Carl E. Campbell
Commissioner

CEC:JM:kac



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C-17 Geotechnical
Wilson

A-2

MEMORANDUM

DIV OF PLANNING

P-10-2003

TO: Annett Coffey, P.E. 2003 DEC -1 A 11: 28
Director
Division of Planning

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

BY: R.T. Wilson, P.G. *R.T. Wilson*
Geotechnical Branch

DATE: November 26, 2003

SUBJECT: Union County
FD04 113 0060 D
US 60 Sturgis to Morganfield
Preliminary Geotechnical Review
Item 2-8102.00

Personnel from this office for the subject project have completed a preliminary geologic review.

The proposed corridor is located on the middle and upper Pennsylvanian age series of rocks and Pleistocene silts and clays. The Sturgis and Carbondale formations consist of alternating layers sandstones, shales and coals.

Rock strata dips to the northeast at a rate of 250 feet per mile. The Rough Creek Fault System is present south of Morganfield and will cross the corridor perpendicular to the study area, by limiting cut and fill heights stability problems associated with faulting will be manageable.

Abandon multiple seam coal mines are between US 60 and KY 56 in the Kentucky No. 9 and Kentucky No. 11 at a depth of 150' to 300' adjacent to Morganfield. Additionally, abandon coal mine is present from Sturgis city limits to near Dyer Road north of town at a depth of 150' to 500'. Mine subsidence problems are possible with in the study area. Structures whether on soil or rock should be designed for a yielding foundation.

Numerous oil and gas wells are located on this project near the Rough Creek fault. In addition, water injection wells to enhance oil recovery are also present. It is not possible to avoid crossing this area. Therefore, care needs to be exercised in avoiding

these injection and recovery wells, which prevents damaging this entire oil/gas recovery operation.

This project is in earthquake seismic zone III, which in an area of heavy property damage.

GEOTECHNICAL CONSIDERATIONS...

- 1/. Soil depth range from 5' in the rolling hills to 50' in the bottoms.
- 2/. The average soil stripping depth is estimated to be 3" and a soil shrinkage of 3% is suggested. A rock swell factor is estimated to be 5%.
- 3/. A CBR value of 3 is recommended for soil subgrade, therefore, chemical stabilization of the subgrade is likely.
- 4/. Cut slopes in the shales and sandstones will be stable on ½:1 presplit with a 15' overburden bench at the bottom of the rock disintegration zone. The RDZ is estimated to extend 10' to 20' below groundline in the cut sections.
- 5/. Soil overburden in cut sections should be stable on a 2:1 slope; however, the soil is highly erodible.
- 6/. Special shale compaction may be required where Non-durable shale is used for embankment construction.
- 7/. Embankment benches will be necessary in side hill conditions. Limestone rock (2' minimum) should be placed on the benches for drainage.
- 8/. For estimating quantities an overall 2:1 slope should be used in cut and embankment sections.

BILLY RAY SMITH
COMMISSIONER



OFFICE TELEPHONE
(502) 564-4696
FAX: (502) 564-2133
TTY: (502) 564-2075

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF AGRICULTURE
500 MERO STREET, 7TH FLOOR
FRANKFORT, KY 40601

December 1, 2003

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

SUBJECT: Planning Study
Union County
US 60 from Sturgis to Morganfield

Ms. Coffey:

In response to the planning study in Union County, the Department of Agriculture is interested in the impact that the proposed highway project will have on agriculture in Union County. The agricultural industry is important to all of Kentucky, especially the rural areas such as Union County.

Changes in agriculture not only affect farmers directly, but they also trickle throughout the entire economy making impacts on many other businesses. This fact makes it sensible to give land that is considered prime and statewide unique special consideration. Alternatives that disrupt the least amount of farmland should be seriously considered since agriculture is vital to the overall well-being of Union County and its citizens.

Feel free to contact me for any additional information.

Sincerely,

A handwritten signature in blue ink that reads "Ira Linville".

Ira Linville
Executive Director
Office of Environmental Services

2003 DEC -3 A 10:27
DIV OF PLANNING



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www.kyagr.com

Tucker, Joseph (KYTC)

From: Greer, Daryl (KYTC)
Sent: Tuesday, December 02, 2003 3:56 PM
To: Tucker, Joseph (KYTC)
Subject: FW: DOT Planning Study-Union County



union_dot.xls



Superfund Sites By
County For ...

Let me know if the attachments didn't come through - there are two, a pdf and

spreadsheet.

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

From: Ballard, Kim (NREPC, DEP)
Sent: Tuesday, December 02, 2003 3:52 PM
To: Greer, Daryl (KYTC)
Cc: Hatton, Tony (NREPC, DEP)
Subject: DOT Planning Study-Union County

On behalf of Tony Hatton, Acting Director
Division of Waste Management's comments on:
Planning Study
Union County

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):

Underground Storage Tank Branch (contact Lori Terry):

Enforcement Branch (contact Barbara Cornett):
Enforcement Branch has 3 facilities which have Highway 60 in Union county as the address. They are:

Facility Name	Program	Status
Earle C. Clements Job Corp Center	Petroleum releases	Case closed
Larry's Top Cat Service	UST	Case closed
Union County Methodist Hospital	UST	Case closed

COUNTY_CODE	COUNTY_NAME	SITE_SEQ_ID	SITE_NAME	NVL(C.STREET_ADDRESS,C.PO_ADDRESS)	CITY	ST	POSTAL_CO
113	UNION	26113	MORGANFIELD AIRPORT	ROAD E	MORGANFIELD	KY	42437
113	UNION	67113	UNION COUNTY JAIL	100 W MAIN ST (COURT ST)	MORGANFIELD	KY	42437
113	UNION	123113	SONOCO PRODUCTS COMPANY	MORGANFIELD INDUSTRIAL PK	MORGANFIELD	KY	42437
113	UNION	265113	HAGAN MOTOR SERVICE	HWY 60 & MAPLE ST	WAVERLY	KY	42462
113	UNION	657113	UNION CO METHODIST HOSPITAL	4604 US HWY 60 W	MORGANFIELD	KY	42437
113	UNION	755113	UNION COUNTY/MAINT GARAGE	BEAVER DAM RD	MORGANFIELD	KY	42437
113	UNION	1001113	LARRYS TOP CAT SERV 61-0978078	809 US 60 N	MORGANFIELD	KY	42437
113	UNION	1003113	QUICK STOP MART (KWIK STOP)	969 HWY 60 W	MORGANFIELD	KY	42437
113	UNION	1004113	BUDS COUNTRY CORNER	8052 ST RD 141	MORGANFIELD	KY	42437
113	UNION	1005113	THE PIT STOP	14 ST RT 2835	UNION	KY	42437
113	UNION	1006113	WILLIAM F POLK TRUST PROPERTY	353 W MAIN ST	MORGANFIELD	KY	42437
113	UNION	1007113	CAR VALET SERVICE INC	556 W MAIN ST	MORGANFIELD	KY	42437
113	UNION	1008113	JR FOOD MART #702	401 N MORGAN	MORGANFIELD	KY	42437
113	UNION	1009113	CITY OF MORGANFIELD STREET DEPT	W WAVERLY ST	MORGANFIELD	KY	42437
113	UNION	1011113	THORNTONS AUTO PARTS & SALES NC	10554 ST RD 56 W	STURGIS	KY	42459
113	UNION	1012113	FORMER NORTH MAIN DX	HWY 60 N	STURGIS	KY	42459
113	UNION	1013113	MORGANS GAS & OL INC PROPERTY	409 N COURT ST	MORGANFIELD	KY	42437
113	UNION	1014113	BILL FARTHING PROPERTY	RR 3 BOX 6 HWY 60 S	STURGIS	KY	42459
113	UNION	1015113	WILLIAM HARRIS PROPERTY	UNIONTOWN 4852 SR 130 N	UNIONTOWN	KY	42461
113	UNION	1016113	VAUGHNS GARAGE	14961 HWY 60	SULLMAN	KY	42460
113	UNION	1017113	GIRTEN PROPERTY	103 MLL ST	UNIONTOWN	KY	42461
113	UNION	1018113	STURGIS WASTE WATER TREATMENT PL	4TH & KING ST	STURGIS	KY	42459
113	UNION	1019113	HUCKS FOOD STORE #291	600 HWY 60 N	MORGANFIELD	KY	42437
113	UNION	1020113	HUCKS FOOD STORE #302	620 N MAIN ST	STURGIS	KY	42459
113	UNION	1052113	WABASH ELEVATOR CO	MADISON ST	UNIONTOWN	KY	42461
113	UNION	1054113	QUICK STOP #30	9384 HWY 60 N	STURGIS	KY	42459
113	UNION	1155113	SOUTHERN STATES MORGANFIELD COOP	304 N TOWNSEND ST	MORGANFIELD	KY	42437
113	UNION	1157113	LINDLES IGA	12TH & MAIN	STURGIS	KY	42459
113	UNION	1213113	HUDSON OIL (RON HUDSON)	HWY 60 E	SULLMAN	KY	42460
113	UNION	1572113	EARL C CLEMENTS JOB CORP	EARL C CLEMENTS JOB CORPS	MORGANFIELD	KY	42437
113	UNION	1578113	TURNERS CONOCO SERVICE CENTER	255 N MORGAN ST	MORGANFIELD	KY	42437
113	UNION	1710113	IDEAL MARKET#22	425 N MORGAN	MORGANFIELD	KY	42437
113	UNION	1794113	C & C FORD MERCURY	103 E 5TH ST	STURGIS	KY	42459
113	UNION	1868113	JOSEPH W SPRAGUE	ROUTE 5	MORGANFIELD	KY	42437
113	UNION	1880113	SHELLER-GLOBE CORP	HWY 60 E	MORGANFIELD	KY	42437
113	UNION	1893113	STURGIS MARATHON	5TH & MONROE	STURGIS	KY	42459
113	UNION	1934113	J & J SERVICE CTR (J&B SERVICE)	1425 N MAIN ST	STURGIS	KY	42459
113	UNION	1940113	STURGIS STANDARD	315 E 5TH ST	STURGIS	KY	42459
113	UNION	1953113	UNION FERTILIZER CO INC	518 N MORGAN	MORGANFIELD	KY	42437
113	UNION	2012113	MORGANS GAS & OL INC	HWY 60 N	MORGANFIELD	KY	42437
113	UNION	2152113	UNION CO AIR BOARD	HWY 60 W	STURGIS	KY	42459
113	UNION	2486113	STURGIS WASTE WATER TREATMENT	INDUSTRIAL PARK STURGIS AIRPORT	STURGIS	KY	42459
113	UNION	2526113	MORGANFIELD BUS GARAGE	252 N BRADYST	MORGANFIELD	KY	42437
113	UNION	2527113	STURGIS BUS GARAGE	524 W 10TH ST	STURGIS	KY	42459
113	UNION	2622113	HIGGS CAR VALET	251 N MORGAN	MORGANFIELD	KY	42437
113	UNION	2688113	YOUNG & CONWAY	115 AIRLINE RD	MORGANFIELD	KY	42437
113	UNION	2824113	UNITED TECHNOLOGES AUTOMOTIVE	WHY 60 E	MORGANFIELD	KY	42437
113	UNION	2943113	MORGAN CONCRETE INC	HWY 109 W	STURGIS	KY	42459
113	UNION	3453113	RICKETTS DITCHING CO INC	ROUTE 4	MORGANFIELD	KY	42437
113	UNION	3478113	HENDERSON UNDN RURAL ELECTRIC	STURGIS AIRPORT	STURGIS	KY	42459
113	UNION	3886113	GAS PLUS	408 N MORGAN ST	MORGANFIELD	KY	42437
113	UNION	4113113	PYRO MINING COMPANY	PO BOX 289	STURGIS	KY	42489
113	UNION	4221113	RAYLOC	HWY 60 E	MORGANFIELD	KY	42437
113	UNION	5134113	GREENWELL EXCAVATING INC	192 HOUSEBRIDGE RD	WAVERLY	KY	42462
113	UNION	5393113	UNION CO GAS & OL	5TH & MLL ST	UNIONTOWN	KY	42461
113	UNION	5456113	UNIONTOWN SERVICE CENTER	204 MLL ST	UNIONTOWN	KY	42461
113	UNION	5475113	FERGYS MARKET	330 UPPER MAN ST	UNIONTOWN	KY	42461
113	UNION	5561113	FORMERLY CORKS CAR CARE	131 N MORGAN ST	MORGANFIELD	KY	42437
113	UNION	6167113	JUMPIN JACKS FOOD MART#414	5284 HWY 60 N	WAVERLY	KY	42461
113	UNION	6618113	PHILS PICK EM UP	US HWY 60 N	MORGANFIELD	KY	42437
113	UNION	8271113	HAMILTON NO 1	HWY 871	MORGANFIELD	KY	42437
113	UNION	8272113	HAMILTON NO 2 MINE	HWY 360	MORGANFIELD	KY	42437
113	UNION	8273113	OHIO NO 11 MINE	HWY 360	UNIONTOWN	KY	42461
113	UNION	8375113	FOEMAN SHELTON DISTR INC	HWY 60 W	MORGANFIELD	KY	42437
113	UNION	8376113	COUNTRY CORNER (JOHNSON)	10437 STATE ROUTE 56 W	STURGIS	KY	42459
113	UNION	8378113	J & J ASHLAND	1425 MAN	STURGIS	KY	42459
113	UNION	8379113	PEABODY CAMP TERMINAL	KY HWY 360	UNIONTOWN	KY	42461
113	UNION	8518113	ROBERT GREENWELL	334 N MORGAN ST	MORGANFIELD	KY	42437
113	UNION	8520113	SIMPSONS	ROUTE 2	STURGIS	KY	42459
113	UNION	8639113	GIPSON INC	US HWY 60 E	WAVERLY	KY	42462
113	UNION	8640113	HAYES OIL CO	10926 HWY 109	STURGIS	KY	42459
113	UNION	9228113	PEABODY COAL CO CAMP 1 MNE	MCCLURE CHAPEL RD	MORGANFIELD	KY	42437
113	UNION	9229113	PEABODY COAL CO CAMP 2 MNE	HWY 141	WAVERLY	KY	42462
113	UNION	9230113	PEABODY COAL CO CAMP 9 PREP PLAN	HWY 141	WAVERLY	KY	42462
113	UNION	9231113	PEABODY COAL CO CAMP 11 MNE	HWY 141	WAVERLY	KY	42462
113	UNION	9995113	THE PANTRY #721	11096 HWY 109	STURGIS	KY	42459
113	UNION	10000556	GATEWAY ONE STOP (FORMERLY R & C STORE)	10300 HWY 56 W	STURGIS	KY	42459
113	UNION	20150662	COUNTY PLAZA	10355 ST RT 56 W	STURGIS	KY	42459

County Name TRIGG

Incident Id	Name	Date Received	Spill Class	Incident Type	Status	Nearest Community	Latitude	Longitude	Section
35483	WEST CADIZ BP	01/13/1995		UST (EXEMPT)	CLOSED	CADIZ	36.865	-87.83528	STATE SUPERFUND

Count of sites in TRIGG County 10

County Name TRIMBLE

Incident Id	Name	Date Received	Spill Class	Incident Type	Status	Nearest Community	Latitude	Longitude	Section
20142	BEDFORD RELEASE	09/13/1996	HAZARDOUS SUBSTANCE	GAS PIPELINES	CLOSED	BEDFORD	38.5925	-85.31778	PETROLEUM
42905	KENTUCKY TRANSPORTATION CABINET	12/30/1996		OPEN DUMPING	CLOSED	BEDFORD	38.5925	-85.31778	STATE SUPERFUND
17857	LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY GEN	03/01/2001			ACTIVE	Wises Landing			STATE SUPERFUND
36353	MILTON-MADISON BRIDGE	04/12/1995	HAZARDOUS SUBSTANCE	LEAD ABATEMENT	CLOSED	BEDFORD			STATE SUPERFUND
57644	MINTON PROPERTY	06/28/2001	PETROLEUM	UST (EXEMPT)	CLOSED	MILTON	38.700278	-85.37222	PETROLEUM

Count of sites in TRIMBLE County 5

County Name UNION

Incident Id	Name	Date Received	Spill Class	Incident Type	Status	Nearest Community	Latitude	Longitude	Section
57197	CAMP BRECKINRIDGE	06/19/2001		OTHER	ACTIVE	MORGANFIELD	37.66163	-87.85656	FEDERAL SUPERFUND
54695	HAGAN FARM	03/01/2002	PETROLEUM	FACILITY SPILL	ACTIVE	HITESVILLE	37.751111	-87.80789	PETROLEUM
34298	HART GAS & OIL	08/25/1994	PETROLEUM	AST (ABOVE GROUND STORAGE TANK)	CLOSED	MORGANFIELD	37.6691	-87.9277	PETROLEUM
17860	ISLAND CREEK COAL CO.	03/01/2001			ACTIVE	Morganfield			STATE SUPERFUND
17858	ISLAND CREEK COAL CO. - OHIO #11	03/01/2001			ACTIVE	Uniontown			STATE SUPERFUND
43899	KURTZ PROPERTY	03/14/1997	PETROLEUM	UST (EXEMPT)	ACTIVE	MORGANFIELD	37.68333	-87.91667	PETROLEUM
37042	MERCER PROPERTY	06/19/1995		UST (EXEMPT)	CLOSED	SULLIVAN	37.4975	-87.94528	PETROLEUM
45372	MORGANFIELD INDUSTRIAL PARK, TRACTS 1 AND 2	07/29/1997	OTHER	OTHER	CLOSED	MORGANFIELD	37.69236	-87.85043	FEDERAL SUPERFUND
17915	PYRO MINING CO.	03/02/2001			ACTIVE	Sturgis			STATE SUPERFUND
40038	ROUTE 871 WASTE	04/04/1996		ABANDONED DRUMS	CLOSED	MORGANFIELD	37.68333	-87.91667	STATE SUPERFUND
39709	SHELLER GLOBE	03/18/1996		FACILITY SPILL	CLOSED	MORGANFIELD	37.68333	-87.91667	STATE SUPERFUND
64000	STURGIS AIRPORT INDUSTRIAL PARK	11/26/2001		OTHER	ACTIVE	STURGIS	37.54667	-87.98389	FEDERAL SUPERFUND
17916	SUN OIL CO. - CAMP BRECKINRIDGE	03/02/2001			ACTIVE	Morganfield			STATE SUPERFUND
17917	SUN OIL CO. - CP BRECKINRIDGE OFF. WAREHOUSE	03/02/2001			ACTIVE	Morganfield			STATE SUPERFUND
42147	TROVER CLINIC PROPERTY	10/05/1996	POLLUTANT/CONTAMINANT	OIL/BRINE	ACTIVE	MORGANFIELD	37.66952	-87.9304	PETROLEUM
48278	UNION LOST DRUM	04/23/1998		ABANDONED DRUMS	CLOSED	MORGANFIELD	37.68333	-87.91667	STATE SUPERFUND
105693	UNITED COMMUNITY BANK (FORMER NORTH MAIN STREET DX)	08/22/2002	PETROLEUM	UST (EXEMPT)	CLOSED	STURGIS	37.54667	-87.98389	PETROLEUM
43255	UNITED TECHNOLOGIES AUTOMOTIVE	01/24/1997		FACILITY SPILL	CLOSED	MORGANFIELD	37.68333	-87.91667	STATE SUPERFUND
17862	WAVERLY DUMP (OLD)	03/01/2001			ACTIVE	Waverly			STATE SUPERFUND
14423	WAVERLY DUMP, CITY OF	12/15/2000	OTHER	LANDFILL	ACTIVE	Waverly	37.71111	-87.81722	STATE SUPERFUND

Count of sites in UNION County 20

HENRY C. LIST
SECRETARY



PAUL E. PATTON
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 4, 2003

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

Dear Ms. Coffey:

Re: Planning Study, Union County
U.S. 60, From Sturgis to Morganfield
Item No. 02-8102.00

2003 DEC -5 P 3:29
DIV OF PLANNING

We found no potential situation which would adversely affect any unique or high quality woodlands along this route. Although we observed no unusually large "specimen" trees, there are several large trees of native species that will be removed during construction. These open grown trees are rapidly disappearing from the landscape in our area, and we would hope that some effort would be made to include native tree species where possible to restore the environmental as well as aesthetic values of the new roadway.

As always, we remain concerned about the loss of agricultural land and sedimentation into the numerous road ditches and cross ditches adjacent to the existing road. We believe the potential exists for sedimentation problems because of the amount of cut and fill that will be required in portions of the route.

Sincerely,

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

Leah W. MacSwords
Director

LWM:DW:fap

c Dan Williamson



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Sturgis Chamber Of Commerce

P.O. Box 125
Sturgis, Kentucky 42459

December 10, 2003

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

RE: Planning Study
Union County
US 60 from Sturgis to Morganfield
Item NO. 02-8102.00

Dear Ms Coffeey;

The Sturgis Chamber of Commerce is in full support of the state's original plans for a four lane US Highway 60 improvement from Sturgis to Morganfield, as well as a by-pass around Sturgis. This needed improvement is reflected in the May 10, 2000, Strategic Development Plan for the City of Sturgis. Sturgis is fortunate to have the third largest, airport in the state of Kentucky with two active 5000 foot runways. The Sturgis Airport grounds host our Sturgis Industrial Park, the 44,000 square foot Dr. John A Arnold Convention Center and Arena, horse barns, the Little Sturgis Rally, and the Union County Fair. The Little Sturgis Rally contributes millions of dollars annually to the economy of Western Kentucky.

Improvements to US 60 will only enhance our ability for industrial growth and continued tourism growth. Our small downtown in Sturgis is beginning to grow and with the improvements to US 60 will continue its economic growth and development.

Sincerely,



Paul M Hart, President
Sturgis Chamber of Commerce

City of Sturgis

524 N Adams Street
PO Box 98
Sturgis KY 42459
Phone: 270-333-2166
Fax: 270-333-2724

Thomas Cowan
Mayor

James A. Fleming
City Clerk/Treasurer

December 10, 2003

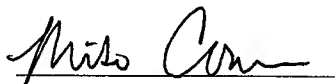
Annette Coffey, P.E.
Director, Division of Planning
Commonwealth of Kentucky
Transportation Cabinet
125 Holmes Street
Frankfort Kentucky 40622

Dear Ms. Coffey;

The City of Sturgis, KY supports the commonwealth's original plan for a four-lane improvement of US Highway 60 from Sturgis to Morganfield, and the by-pass around Sturgis. Sturgis has several distinct landmarks, and third largest airport in Kentucky with two active 5,000 foot runways, the 44,000 square foot Dr. John A. Arnold Convention Center and Arena, and is the home of the Little Sturgis Rally and the Union County Fair.

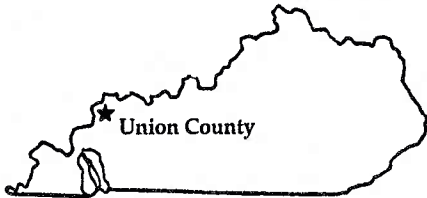
The City of Sturgis eagerly awaits the implementation of these projects since it can only improve growth and economic development.

Sincerely,



Mike Cowan, Mayor
City of Sturgis

UNION COUNTY PLANNING COMMISSION



Post Office Box 1
Morganfield, Kentucky 42437-1508
Tel. (270) 389-2093

DIV OF PLANNING

2003 DEC 15 A 11: 09

December 10, 2003

Ms. Annette Coffey, P.E., Director
Division of Planning
Transportation Cabinet
125 Holmes Street
Frankfort, Kentucky 406622

Re: U.S. Highway 60 Planning Study

Dear Ms. Coffey:

Please be advised that the Union County Planning Commission will discuss the details of a proposed four lane U.S. Highway 60 improvement from the Morganfield Bypass to the City of Sturgis at their meeting on Monday, December 15, 2003 in conjunction with the Transportation Element of the Union County Comprehensive Plan and County zoning in the near future. The Comprehensive Plan supports the development of a four-lane thoroughfare in Union County to reduce access and traffic congestion on heavily traveled roads and enhance our economic development potential.

The Planning Commission has expressed past support for four-lane bypasses on U.S. Highway 60 at Morganfield and Waverly in conjunction with a four-lane U.S. 60 improvement from Henderson. The four-lane improvement from Morganfield to Sturgis would continue that thoroughfare development in accordance with the original plan for widening U.S. 60. We support a more efficiently functioning U.S. 60 linking Union County to adjoining counties. Thank you.

Sincerely,

A handwritten signature in cursive script that reads "Bruce Danhauer".

Bruce Danhauer, Chairperson
Union County Planning Commission

Pc: Honorable Larry Joe Jenkins, County Judge/Executive



DIV OF PLANNING

2003 DEC 17 A 8: 38

Centers for Disease Control
and Prevention (CDC)
Atlanta GA 30333

December 12, 2003

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

Re: Item No. 02-8102.00

Dear Ms. Coffey:

This is in response to your letter of October 24, 2003 requesting our agency's input and comments on a planning study to determine the need and potential impacts of a proposed highway project. The planning study in Union County will evaluate US 60, from Sturgis to Morganfield. We are responding on behalf of the Department of Health and Human Services (DHHS), U.S. Public Health Service.

While we have no project specific comments to offer at this time, we do recommend that the topics listed below be considered during the NEPA process along with other necessary topics, and addressed if appropriate. Mitigation plans which are protective of the environment and public health should be described in the DEIS wherever warranted.

AREAS OF POTENTIAL PUBLIC HEALTH CONCERN:

I. Air Quality

- dust control measures during project construction, and potential releases of air toxins potential process air emissions after project completion
- compliance with air quality standards

II. Water Quality/Quantity

- special consideration to private and public potable water supply, including ground and surface water resources
- compliance with water quality and waste water treatment standards
- ground and surface water contamination (e.g. runoff and erosion control)
- body contact recreation

III. Wetlands and Flood Plains

- potential contamination of underlying aquifers
- construction within flood plains which may endanger human health
- contamination of the food chain

IV. Hazardous Materials/Wastes

- identification and characterization of hazardous/contaminated sites
- safety plans/procedures, including use of pesticides/herbicides; worker training
- spill prevention, containment, and countermeasures plan

V. Non-Hazardous Solid Waste/Other Materials

- any unusual effects associated with solid waste disposal should be considered

VI. Noise

- identify projected elevated noise levels and sensitive receptors (i.e. residential, schools, hospitals) and appropriate mitigation plans during and after construction

VII. Occupational Health and Safety

- compliance with appropriate criteria and guidelines to ensure worker safety and health

VIII. Land Use and Housing

- special consideration and appropriate mitigation for necessary relocation and other potential adverse impacts to residential areas, community cohesion, community services
- demographic special considerations (e.g. hospitals, nursing homes, day care centers, schools)
- consideration of beneficial and adverse long-term land use impacts, including the potential influx of people into the area as a result of a project and associated impacts
- potential impacts upon vector control should be considered

IX. Environmental Justice

- federal requirements emphasize the issue of environmental justice to ensure equitable environmental protection regardless of race, ethnicity, economic status or community, so that no segment of the population bears a disproportionate share of the consequences of environmental pollution attributable to a proposed project. (Executive Order 12898)

While this is not intended to be an exhaustive list of possible impact topics, it provides a guide for typical areas of potential public health concern which may be applicable to this project. Any health related topic which may be associated with the proposed project should receive consideration when developing the draft and final EISs. Please furnish us with one copy of the draft document when it becomes available for review.

Sincerely yours,



Paul Joe, DO, MPH

Medical Officer

National Center for Environmental Health (F16)

Centers for Disease Control & Prevention



United States Department of the Interior

FISH AND WILDLIFE SERVICE

3761 GEORGETOWN ROAD
FRANKFORT, KY 40601

December 12, 2003

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

Subject: FWS #04-0287; US 60 Planning Study, Union County
KTC Item No. 02-8102.00

DIV OF PLANNING
2003 DEC 19 A 10:32

Dear Ms. Coffey:

Thank you for your correspondence of October 24, 2003, regarding the proposed widening and/or relocation reconstruction of US 60 in Union County from KY 109 in Sturgis to KY 56 in Morganfield, 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 for the endangered Indiana bat (*Myotis sodalis*) may exist within the proposed project site. 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 (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. Our belief that potentially suitable habitat may be present, and possibly occupied by this species, is based on information provided in your correspondence, that fact that the project site and surrounding area may contain forested habitats that are within the natural ranges of these species, and our knowledge of the life history characteristics of this species.

The Indiana bat uses 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.

Because we have concerns relating to this 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.

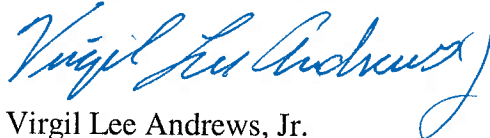
1. Based on the presence of numerous caves, rockshelters, and underground mines in Kentucky, we believe that it is reasonable to assume that other caves, rockshelters, and/or abandoned underground mines may occur within the project area, and, if they occur, they could provide winter habitat for Indiana bats. 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 you 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

We request your written acceptance of these recommendations as project conditions. However, 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 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 written notification if either or both of these are applicable to the proposed project area.

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

Sincerely,

A handwritten signature in blue ink that reads "Virgil Lee Andrews, Jr." The signature is written in a cursive style with a large, sweeping flourish at the end.

Virgil Lee Andrews, Jr.
Field Supervisor

U.S. Department of
Homeland Security

United States
Coast Guard



Commander
Eighth Coast Guard District

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16591.1/Cypress Creek,
Hopgood Ditch, Halls
Branch
March 24, 2004

Ms. Annette Coffey, P.E.
Director, Division of Planning
Kentucky Transportation Cabinet
State Office Building
Frankfort, KY 40622

Subj: PLANNING STUDY, UNION COUNTY, U.S. 60, STURGIS TO MORGANFIELD,
ITEM NO. 02-8102.00

Dear Ms. Coffey:

We have reviewed the information provided in your letter of October 24, 2003 and determined that the subject project will not involve bridges over navigable waters of the United States, therefore a Coast Guard bridge permit is not required for this project.

We appreciate the opportunity to comment on the project.

Sincerely,

A handwritten signature in black ink, appearing to read "R. Wiebusch".

ROGER K. WIEBUSCH
Bridge Administrator
By direction of the District Commander