

APPENDIX G
RESOURCE AGENCY RESPONSES

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 - b) Division of Waste Management
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- 11) Kentucky State Police
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- 15) Kentucky Transportation Cabinet, Division of Construction
- 16) Kentucky Transportation Cabinet, Geotechnical Branch
- 17) Kentucky Geological Survey

U.S. Department of
Homeland Security

United States
Coast Guard



Commander
Eighth Coast Guard District

1222 Spruce Street
St. Louis, MO 63103-2832
Staff Symbol: dwb
Phone: (314)269-2378
Fax: (314)269-2737
Email:

RECEIVED

SEP 20 2007

16591.1/KY 100
September 14, 2007

Mr. Daryl Greer
Director, Division of Planning
Kentucky Transportation Cabinet
Frankfort, KY 40622

Subj: KY 100 IMPROVEMENT PROJECT, ALLEN AND SIMPSON COUNTIES

Dear Mr. Greer:

Please refer to your correspondence of August 31, 2007. We have determined that the proposed improvements will involve work over the Buck, Drake, Smyrna, Lick, and Ramble Creeks. Pursuant to the Coast Guard Authorization Act of 1982, the subject project does 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 blue ink, appearing to read "RK Wiebusch".

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



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

OCT 19 2007

October 10, 2007

Mr. Daryl J. Greer, P.E.
Director, Division of Planning
Kentucky Transportation Cabinet
200 Metro Street
Frankfort, KY 40622

Dear Mr. Greer:

This is in response to your Advance Notification for the Planning Study, Allen and Simpson Counties, KY 100 Improvements from KY 622 in Simpson County to US 31E in Allen County. We are responding on behalf of the Department of Health and Human Services (DHHS), U.S. Public Health Service.

We understand that KY 100 is presently a rural two-lane major collector that will link employment, education, governmental, health, and recreational service centers in Allen and Simpson Counties. We are pleased to see that one of the primary goals of this project is to improve safety and traffic flow in this corridor and commend your desire to reduce crash-related injuries. Injury prevention is also a specific concern for us. While the area is presently rural, we believe that as the project alternatives are developed, consideration should be given to forecasted population growth along this corridor. Appropriate transportation infrastructure for future development along this corridor will help ensure reduced injuries for drivers, transit users, bicyclists, and pedestrians for years to come.

Although we have no other 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 for the purpose of improving 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 mitigation of potential releases of air toxins 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
- ground and surface water contamination (e.g. runoff)
- compliance with water quality and wastewater treatment standards

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

- measures regarding solid waste generation, reduction, and 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 -- Community and Neighborhood Impacts

- special consideration and planning for pedestrian infrastructure, including sidewalks that are continuous, accessible, safe, and aesthetically pleasing.
- adequate pedestrian crossings that are convenient and easily identified by motorists
- sufficiently marked, continuous lanes and infrastructure needs for bicyclists
- ADA accessibility compliance for all project areas
- 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
- demographic special considerations (e.g. hospitals, nursing homes, day care centers, schools)
- special consideration and appropriate mitigation for necessary relocation and other potential adverse impacts to residential areas, community cohesion, community services

IX. Environmental Justice

- identify minority groups in study area
- economic and health characteristics of study area residents and workers
- federal requirements emphasize the issue of environmental justice to ensure equitable environmental protection regardless of race, ethnicity, or economic status, so that no segment of the population bears a disproportionately high or adverse share of the human health or environmental effects 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,



Andrew L. Dannenberg, MD, MPH
Associate Director for Science
Division of Emergency and Environmental Health Services
National Center for Environmental Health
Centers for Disease Control and Prevention



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OCT 10 2007

COMMERCE CABINET
KENTUCKY HERITAGE COUNCIL

Ernie Fletcher
Governor

The State Historic Preservation Office
300 Washington Street
Frankfort, Kentucky 40601
Phone (502) 564-7005
Fax (502) 564-5820
www.kentucky.gov
October 3, 2007

George Ward
Secretary

Donna M. Neary
Executive Director and
State Historic Preservation Officer

Mr. Daryl Greer, Director
Division of Planning
Kentucky Transportation Cabinet
200 Mero Street, 5th Floor
Frankfort, KY 40622

**Re: Planning Study, KY 100 Improvements from KY 622 in Simpson County to US 31 E in Allen County
(Item No. 3-8303.00)**

Dear Mr. Greer:

The State Historic Preservation Office has received a request for comments regarding the above-referenced planning study. There are many cultural resources within the project area, including surveyed sites as well as many historic resources that have yet to be evaluated to be professional architectural historians. Additionally, there are a number of previously recorded archeological sites within the project corridor, and most of this area has never been surveyed by professional archaeologists.

Dependent upon the funding source, whether federally-funded or subject to Corps of Engineers permits, the Section 106 Review Process must be completed. A full survey of both archaeological and cultural resources should be conducted and submitted to this office for review, via the KYTC Central Office Division of Environmental Analysis.

We look forward to reviewing the archaeological and cultural resource reports. If you have questions regarding these comments, please contact Janie-Rice Brother of my staff at (502) 564-7005, extension 121.

Sincerely,

Donna M. Neary, Executive Director
Kentucky Heritage Council and
State Historic Preservation Officer

Cc: David Waldner, KYTC-DEA
Amanda Abner, KYTC-DEA

Richie Farmer, Commissioner
32 Fountain Place
Frankfort, KY 40601



Kentucky
Department of
Agriculture

A Consumer Protection And Service Agency

Phone: (502) 564-5126
Fax: (502) 564-5016
E-mail: richie.farmer@ky.gov

RECEIVED
SEP 11 2007
RECEIVED

September 10, 2007

Mr. Daryl Greer, P.E.
Director, Division of Planning
Kentucky Transportation Cabinet
200 Mero Street, Station W5-05-01,
Frankfort, KY 40622

Re: Planning Study
Allen and Simpson Counties
KY 100 Improvements from KY 622 in Simpson County
To US 31E in Allen County
Item No. 3-8303.00

Dear Mr. Greer:

Please be advised that this agency has no specific concerns or issues concerning the above-noted project.

Sincerely,


Ann Stewart
Staff Assistant



www.kyagr.com



RECEIVED

OCT 10 2007

ENVIRONMENTAL AND PUBLIC PROTECTION CABINET

Ernie Fletcher
Governor

DEPARTMENT FOR ENVIRONMENTAL PROTECTION
300 FAIR OAKS LANE
FRANKFORT, KENTUCKY 40601
PHONE (502) 564-2150
FAX (502) 564-4245
www.dep.ky.gov

Teresa J. Hill
Secretary

Cheryl A. Taylor
Commissioner

October 9, 2007

Mr. Daryl J. Greer, P.E., Director
Division of Planning
Kentucky Transportation Cabinet
200 Mero Street
Frankfort, KY 40622

Re: Planning Study Allen and Simpson Counties KY 100 Improvements from KY 622 in
Simpson County to US 31E in Allen County Item No. 3-8303.00 (SERO 2007-21)

Dear Mr. Greer,

The Environmental and Public Protection Cabinet serves as the state clearinghouse for review of environmental documents generated pursuant to the National Environmental Policy Act (NEPA). Within the Cabinet, the Commissioner's Office in the Department for Environmental Protection coordinates the review for Kentucky state agencies.

The Kentucky agencies listed on the attached sheet have been provided an opportunity to review the above referenced report. Responses were received from 5 of the reviewing agencies. Comments were received from the Kentucky Divisions of Waste Management, and Air Quality, the Kentucky Nature Preserves Commission, the Department of Natural Resources, and the Department of Fish and Wildlife Resources.

If you should have any questions, please contact me at (502) 564-2150, ext. 112.

Sincerely,

Larry C. Taylor
State Environmental Review Officer

Enclosures

COMMONWEALTH OF KENTUCKY STATE ENVIRONMENTAL REVIEW PROCESS

Project Number: SERO 2007 -21

Initial Coordination Effort

Project Title:

Planning Study Allen and Simpson Counties KY 100 Improvements from KY 622
in Simpson County to US 31E in Allen County Item No. 3-8303.00

The following Commonwealth of Kentucky agencies make up the State Environmental Review Process. Their response is listed below. Agencies that did not receive the document for review or did not respond are also noted.

REVIEWING AGENCIES:

RESPONSE:

Division of Water.....	No Response Received
Division of Waste Management.....	COMMENTS ATTACHED
Division for Air Quality.....	COMMENTS ATTACHED
Department for Public Health.....	Not Sent for Review
Cabinet for Economic Development.....	Not Sent for Review
Division of Forestry.....	Not Sent for Review
Department of Parks.....	Not Sent for Review
Department of Agriculture.....	Not Sent for Review
Nature Preserves Commission.....	COMMENTS ATTACHED
Kentucky Heritage Council.....	No Response Received
Division of Conservation.....	No Response Received
Department for Natural Resources.....	COMMENTS ATTACHED
Department of Fish and Wildlife Resources....	COMMENTS ATTACHED
Transportation Cabinet.....	Not Sent for Review
Department for Military Affairs.....	Not Sent for Review

Division of Waste Management Comments

Project Number: SERO 2007-21

All solid waste generated by this project must be disposed at a permitted facility. If underground storage tanks are encountered they must be properly addressed. If asbestos, lead paint, and/or other contaminants are encountered during this project, they must be properly addressed.

Division for Air Quality Comments

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 Fugitive Emissions Fact Sheet located at http://www.air.ky.gov/homepage_repository/e-Clearinghouse.htm.

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 Open Burning Fact Sheet located at http://www.air.ky.gov/homepage_repository/e-Clearinghouse.htm.

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.

The Division also suggests an investigation into compliance with applicable local government regulations.

Kentucky State Nature Preserve Commission Comments

Taylor, Larry (EPPC DEP COM)

From: Palmer-Ball, Brainard (EPPC OOS KNPC)
Sent: Wednesday, October 03, 2007 10:44 AM
To: Taylor, Larry (EPPC DEP COM)
Cc: Phil_DeGarmo@fws.gov; 'Mike_Floyd@fws.gov'
Subject: KSNPC response to SERO project

TO: Larry Taylor, EPPC, DEP

FROM: Brainard Palmer-Ball, Jr., KSNPC

DATE: October 3, 2007

RE: KY 100 improvements in Allen and Simpson counties

KSNPC has reviewed SERO 2007-21 (KY 100 project in Allen and Simpson cos.) and notes the presence of several KSNPC-listed species within the project area that could be impacted and that should be considered in planning. Most are aquatic species residing in tributaries to the Barren River such as Drakes Creek and Trammel Creek. Also, the federally threatened gray myotis is found throughout the project area and likely utilizes stream corridors extensively for foraging. Due to the presence of all of these species utilizing the aquatic resources of the project area, minimizing physical impacts to streams at crossings and water quality downstream from proposed crossings should be of paramount importance during the planning stage. This project would also be a very good one for the utilization of bridges at stream crossings with designs that afford roosting use by gray myotis.

Department of Fish and Wildlife Resources Comments



**KENTUCKY DEPARTMENT OF FISH & WILDLIFE RESOURCES
COMMERCE CABINET**

Ernie Fletcher
Governor

#1 Sportsman's Lane
Frankfort, Kentucky 40601
Phone (502) 564-3400
1-800-858-1549
Fax (502) 564-0506
fw.ky.gov

George Ward
Secretary

Dr. Jonathan W. Gassett
Commissioner

September 28, 2007

Department for Environmental Protection
Commissioner's Office
Attn: Larry Taylor
14 Reilly Road
Frankfort, KY 40601

RE: Planning Study
Allen & Simpson Counties
KY 100 Improvements from KY 622 in Simpson County to US 31E in Allen County
KYTC Item No. 3-8303.00

Dear Mr. Taylor:

The Kentucky Department of Fish and Wildlife Resources (KDFWR) have received your request for the above-referenced information. The Kentucky Fish and Wildlife Information System indicate that the federally endangered gray bat, *Myotis grisescens* and Indiana bat, *Myotis sodalis* are known to occur within close proximity to the project area. Please be aware that our database system is a dynamic one that only represents our current knowledge of the various species distributions.

- The Indiana bat utilizes a wide array of habitats, including riparian forests, upland forest, and fencerows 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. Trees in excess of 4 inches DBH may provide adequate roosting habitat. Removal of suitable Indiana bat roost trees due to construction of the proposed project should be completed 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 applicant only remove trees between November 15 and March 31 in order to avoid impacting Indiana bat "swarming" behavior.
- In areas where bats are known to occur, cave entrances, mine portals, and/or rock shelters that exist within the project area should be surveyed for potential use by such species as gray bats and Indiana bats. KDFWR recommends avoiding those areas that provide adequate habitat for bats.
- The proposed project is located within the Barren River (05110002) eight-digit Hydrologic Unit Code (HUC). The Barren River eight-digit HUC is designated in Kentucky's State Wildlife Action Plan (SWAP) as a "Mussel Priority Conservation Area" and a "Fish and Lamprey Conservation Area" due to the potential presence of several "Species of Greatest Conservation Need" located within Trammell Creek, the Middle Fork of Drakes Creek, and Sulphur Fork Creek. To minimize impacts to the aquatic resources located within the project area strict erosion control measures should be developed and implemented prior to construction to minimize siltation into streams and karst areas located within the project area. Such



erosion control measures may include, but are not limited to silt fences, staked straw bales, brush barriers, sediment basins, and diversion ditches. Erosion control measures will need to be installed prior to construction and should be inspected and repaired regularly as needed. To compensate for unavoidable impacts to streams, we recommend that possible stream mitigation sites be identified on-site or within the Barren River eight-digit HUC. Restoration of those sites should incorporate natural stream channel design along with the restoration of its associated riparian areas.

For more information on how to proceed with the threatened/endangered species surveys please contact the US Fish and Wildlife Service Kentucky Field Office at (502) 695-0468.

It appears that the proposed project has the potential to impact wetland habitats. KDFWR recommends that you look at the appropriate US Department of Interior National Wetland Inventory Map (NWI) and the appropriate county soil surveys to determine where the proposed project may impact wetlands. Additionally, field verification may be needed to determine the extent and quality of wetland habitats within the project area. Any planning should include measures designed to eliminate and/or reduce impacts to wetland habitats. If impacts cannot be avoided, mitigation should be properly designed and proposed to offset the losses. KDFWR will recommend, at a minimum, a 2:1 mitigation ratio for any permanent loss or degradation of wetland habitats.

KDFWR recommends that you contact the appropriate US Army Corps of Engineers office and the Kentucky Division of Water prior to any work within the waterways or wetland habitats of Kentucky. Additionally, KDFWR recommends the following for the portions of the project that impact streams:

- Avoidance of impacts to intermittent and perennial streams if it is feasible.
- Channel changes located within the project area should incorporate natural stream channel design.
- If culverts are used, the culvert should be designed to allow the passage of aquatic organisms.
- Culverts should be designed so that degradation upstream and downstream of the culvert does not occur.
- Development/excavation during low flow period to minimize disturbances.
- Proper placement of erosion control structures below highly disturbed areas to minimize entry of silt into area streams and karst areas.
- Replanting of disturbed areas after construction, including stream banks, with native vegetation for soil stabilization and enhancement of fish and wildlife populations. We recommend a 100 foot forested buffer along each stream bank.
- Return all disturbed instream habitat to a stable condition upon completion of construction in the area.
- Preservation of any tree canopy overhanging any streams within the project area.

I hope this information proves helpful to you. If you have any questions or require additional information, please call me at (800) 852-0942 Extension 366.

Sincerely,

Doug Dawson

Doug Dawson
Wildlife Biologist III

Cc: Environmental Section File

Department for Natural Resources Comments



ENVIRONMENTAL AND PUBLIC PROTECTION CABINET

Ernie Fletcher
Governor

Department for Natural Resources
2 Hudson Hollow
Frankfort, Kentucky 40601
Phone: (502) 564-6940
Fax: (502) 564-5698
www.eppc.ky.gov
www.dnr.ky.gov

Teresa J. Hill
Secretary

Susan C. Bush
Commissioner

October 1, 2007

Mr. Larry Taylor
Department for Environmental Protection
Commissioner's Office
14 Reilly Road
Frankfort, KY 40622

Subject: Planning Study
Allen and Simpson Counties
KY 100 Improvements from KY 622
in Simpson County to US 31E in Allen County
SERO 2007-21 Item No. 3-8303.00

Dear Mr. Taylor:

Thank you for the opportunity to comment on the planning study project located in Simpson and Allen Counties referenced in your communication of August 31, 2007. The Department for Natural Resources has reviewed records for the proposed planning study for the above project.

The Division of Forestry states that the Lloyd Wildlife Management Area (WMA) lies within the study area. There are approximately 366 acres of forestland located on the WMA, making it one of the largest contiguous forested blocks in the area. Another feature adding to the uniqueness of WMA is a small "old growth" forest located just north of Highway 491. These "old growth" forests are very rare throughout Kentucky. For these reasons, the Lloyd Wildlife Management Area should be protected as a unique environmental area.

The Division of Mine Reclamation reports a limestone quarry located within one-half mile of the project on KY 1332 in Allen County. Please see the attached map for location and permit number.

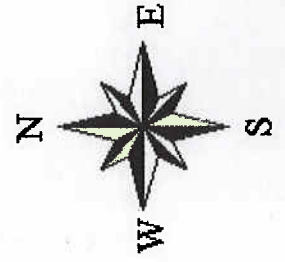
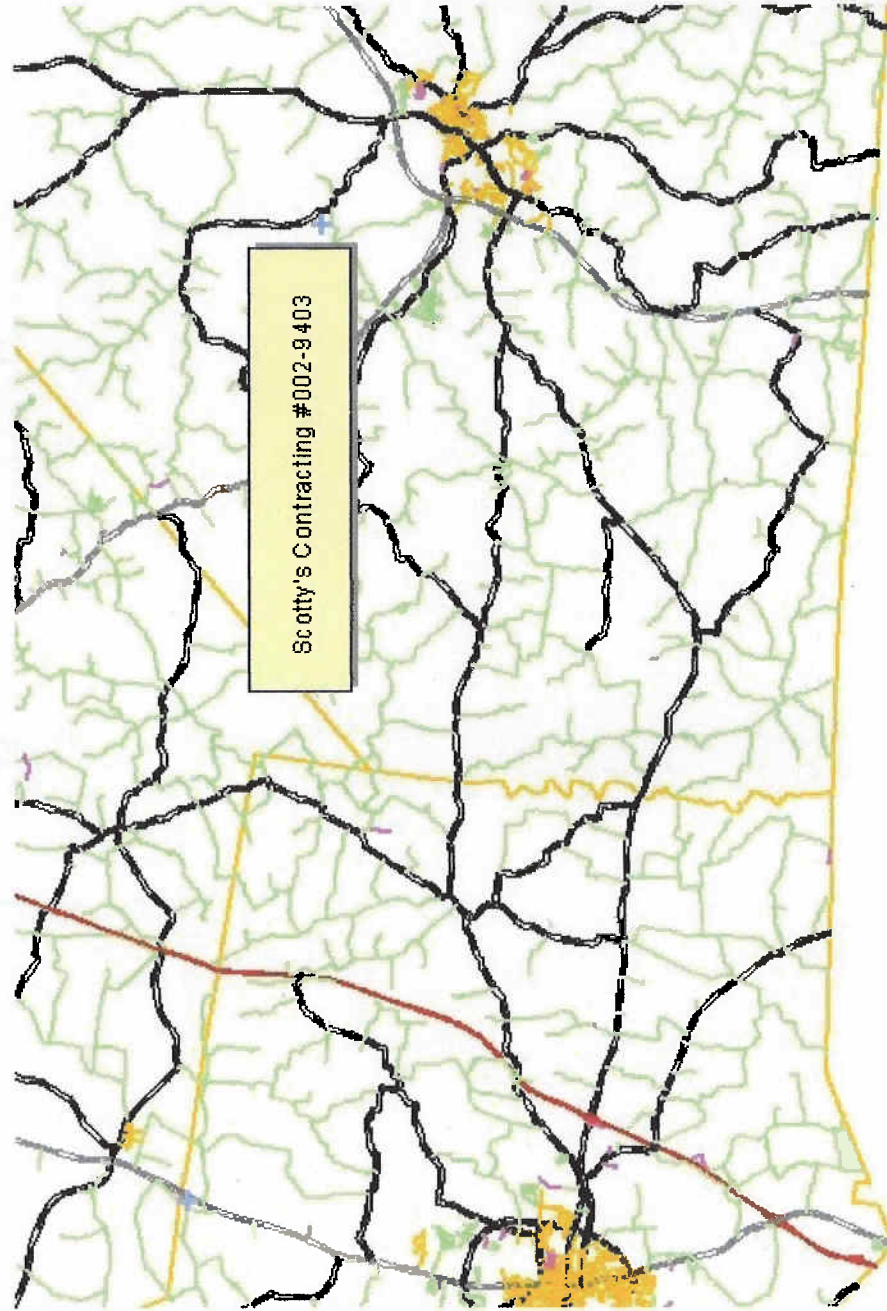
Finally, the Division of Oil and Gas Conservation confirms that this is an area of oil and gas activity. Enclosed is map of the area showing several oil and gas wells obtained from the Kentucky Mine Mapping Web site, <http://minemaps.ky.gov>. The Kentucky Geological Survey can provide an overlay with the wells plotted for this area.

Should you have additional questions or concerns, please Linda Potter in my office at (502) 564-6940.

Sincerely,

Susan Bush
Commissioner

Portal View 1



12 Miles



Kentucky Mine Mapping Initiative: Available Maps IMS Viewer - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites

Address <http://minemaps.ky.gov/website/availablemaps/viewer.htm?ActiveLayer=county&Query=NAME=WARREN&QueryZoom=Yes>

Go Settings

Check Autolink Bookmarks Popups okay

Available Mine Maps

Kentucky Mine Mapping Initiative

Layers

All Layers

Scanned Mine Maps

Oil/Gas Wells

Oil well

Combustible oil and gas well

Gas well

Dry and abandoned well

Secondary recovery well (nodont well)

Well location

Miscellaneous well

STR

Base Map

Base Imagery

Refresh Map

Help:

A closed group, click to open.

An open group, click to close.

A map layer.

A hidden group/layer, click to make visible.

A visible group/layer, click to hide.

A visible layer, but not at this scale.

A partially visible group, click to make visible.

An inactive layer, click to make active.

Counties

Selection cleared.

Map

WARREN

ALLEN SPRINGS

ADOLPHUS

SIMPSON

HICKORY FLAT

SCOTTSDALE

PETROLEUM

DRAKE

McElroy Ford

Gold City

Mount Aetna

Chapel Hill

Rock Hill

Portsmouth

Adams

Highland

Hickory Flat

McElroy Ford

Enhanced Ford

Enter Coordinates

Coal Seam Index

Kentucky Mine Mapping Initiative

Map: 4711211.83, 3437809.38 -- Image: 30, 65 -- ScaleFactor: 101.27705117639355

Internet

Witt, Thomas (KYTC)

From: Wilson, Jimmy (KYTC)
Sent: Thursday, October 11, 2007 2:05 PM
To: Witt, Thomas (KYTC)
Subject: FW: MCAFEE E-MAIL SCAN ALERT!~FW: SERO 2007-021

From: Greer, Daryl (KYTC)
Sent: Wednesday, October 10, 2007 11:16 AM
To: Ross, Steve (KYTC); Wilson, Jimmy (KYTC)
Subject: FW: MCAFEE E-MAIL SCAN ALERT!~FW: SERO 2007-021

Attachment to follow....

From: Taylor, Larry (EPPC DEP COM)
Sent: Wednesday, October 10, 2007 11:08 AM
To: Greer, Daryl (KYTC)
Subject: MCAFEE E-MAIL SCAN ALERT!~FW: SERO 2007-021

Attachment file : SERO 2007-021.doc; 10-05-07.doc
Scanner Detected: Suspicious Extensions (Virus)
Action taken : Moved (Clean failed because the virus could be new)

Daryl,

I sent a letter to you in the last couple of days on the Planning Study for Improvements on KY 100. I received the attached comments from the Division of Water after sending the letter.

Larry C. Taylor

Environmental Scientist IV

Office of the Commissioner

Department for Environmental Protection

14 Reilly Road

Frankfort, KY 40601

(502) 564-2150 x. 112

(502) 564-4245 (fax)

From: Murphy, Joel (EPPC DEP DOW)
Sent: Tuesday, October 09, 2007 4:13 PM

To: Taylor, Larry (EPPC DEP COM)
Subject: SERO 2007-021

Joel Murphy

Environmental Technologist III

Project and Administration Section

Kentucky Division of Water

(502) 564-3410 ext. 661

Witt, Thomas (KYTC)

From: Wilson, Jimmy (KYTC)
Sent: Thursday, October 11, 2007 2:06 PM
To: Witt, Thomas (KYTC)
Subject: MCAFEE E-MAIL SCAN ALERT!~FW: SERO 2007-021

Attachment file : SERO 2007-021.doc; 10-05-07.doc

Scanner Detected: Suspicious Extensions (Virus)

Action taken : Moved (Clean failed because the virus could be new)

From: Greer, Daryl (KYTC)
Sent: Wednesday, October 10, 2007 11:16 AM
To: Ross, Steve (KYTC); Wilson, Jimmy (KYTC)
Subject: FW: SERO 2007-021

From: Taylor, Larry (EPPC DEP COM)
Sent: Wednesday, October 10, 2007 11:08 AM
To: Greer, Daryl (KYTC)
Subject: FW: SERO 2007-021

Witt, Thomas (KYTC)

From: Wilson, Jimmy (KYTC)
Sent: Thursday, October 11, 2007 3:18 PM
To: Witt, Thomas (KYTC)
Subject: FW: SERO 2007-021

Attachments: SERO 2007-021.doc

From: Greer, Daryl (KYTC)
Sent: Wednesday, October 10, 2007 11:16 AM
To: Ross, Steve (KYTC); Wilson, Jimmy (KYTC)
Subject: FW: SERO 2007-021

From: Taylor, Larry (EPPC DEP COM)
Sent: Wednesday, October 10, 2007 11:08 AM
To: Greer, Daryl (KYTC)
Subject: FW: SERO 2007-021



SERO
007-021.doc (29 KB)

Planning Study for Improvements to KY 100

Endorsement:

A request for review of the Planning Study for improvements to KY 100 in Allen and Simpson Counties, Kentucky was received on September 10, 2007. The Division of Water (DOW) completed this review and found that the information provided warranted an endorsement of this project. Below are the comments that were received.

Water Quality Branch:

Trammel Fork will be affected by this project. Trammel Fork is listed as a Coldwater Habitat, Exceptional Water, and Reference Reach Stream. The Department of Transportation should be made aware of these listings.

Groundwater Branch:

Allen and Simpson counties are located in a karst region, characterized by thin soil mantles, sinkholes, sinking streams, and soluble limestone. As a consequence, the infiltration of surface water into the subsurface can be rapid and groundwater flow through solutionally-enlarged conduits can likewise be rapid. For example, groundwater flow in Kentucky karst has been recorded as high as 1,300 feet per hour. Such rapid and unfiltered flow of surface water into the subsurface can pollute groundwater. Therefore, the Division of Water recommends that experienced karst hydrogeologists review the area to ensure that groundwater will not be adversely affected by this project.

To protect the area's groundwater, the measures found in the following should be adhered to: KYTC Best Management Practices, the Kentucky Department of Highways Standard Specifications, and the KYTC Generic Groundwater Protection Plan. If, during construction, these measures are found to be inadequate, KYTC is strongly encouraged to consult with the Kentucky Geological Survey and the Division of Water in the development of any measures that may be necessary. In particular, newly-developed and innovative "rain garden" technology could be applied to protect and beautify transportation corridors in karst and other environmentally sensitive areas.

Water Resources Branch:

No stream construction permit required.



RECEIVED

OCT 09 2007

ENVIRONMENTAL AND PUBLIC PROTECTION CABINET

Ernie Fletcher
Governor

Department for Environmental Protection
Division for Air Quality
803 Schenkel Lane
Frankfort, Kentucky 40601-1403

Teresa J. Hill
Secretary

October 1, 2007

Mr. Daryl J. Greer, P.E.
Director, Division of Planning
Kentucky Transportation Cabinet
200 Mero Street, 5th Floor
Frankfort, Kentucky 40622

Dear Mr. Greer:

The Division has reviewed the planning study for evaluating proposed improvements to KY 100 in Allen and Simpson Counties from KY 622 east of Franklin to US 31E in Scottsville, Item Number 3-8303.00. 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 Fugitive Emissions Fact Sheet located at http://www.air.ky.gov/homepage_repository/e-Clearinghouse.htm.

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. Open burning may be utilized for the expressed purposes listed on the Open Burning Fact Sheet located at http://www.air.ky.gov/homepage_repository/e-Clearinghouse.htm. Although, vegetative matter accumulated by land clearing is included as a permissible method of disposal, the Division encourages the use of chipping and grinding in order to avoid excessive particulate emissions in the immediate vicinity of the project.

Mr. Daryl Greer
Page 2
October 1, 2007

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.

The Division also suggests an investigation into compliance with applicable local government regulations.

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 Joe Forgacs at (502) 573-3382 extension 309.

Sincerely,

A handwritten signature in dark ink, appearing to read "John S. Lyons".

JS John S. Lyons
Director

JSL/jmf



RECEIVED

OCT 11 2007

ENVIRONMENTAL AND PUBLIC PROTECTION CABINET

Ernie Fletcher
Governor

Division of Conservation
375 Versailles Road
Frankfort, Kentucky 40601
Phone (502) 573-3080
Fax (502) 573-1692
www.conservation.ky.gov

Teresa J. Hill
Secretary

Stephen A. Coleman
Director

October 9, 2007

Mr. Daryl Greer, P.E.
Director, Division of Planning
Kentucky Transportation Cabinet
200 Mero Street, 5th Floor
Frankfort, KY 40622

Subject: Planning Study for KY 100 Improvements in Simpson and Allen Counties

Dear Mr. Greer:

As requested, the Division of Conservation has reviewed the planning study to improve KY 100 beginning at the intersection of KY 100/KY 622 in Simpson County and ending at the intersection of KY 100/US 31E in Allen County. We would like to provide the following comments and express concerns that may be helpful in this initial data-gathering stage.

There are no agricultural districts or agricultural conservation easements established in the project area, therefore land enrolled in the Agricultural District Program or PACE Program will not have to be mitigated by the Department of Transportation.

We would like to see the issue of the loss of farmland addressed. Both prime farmland and farmland of statewide importance could be impacted by this project. Every year pressure imposed by utility right-of-ways, urban expansion, and new roads reduce the land available for agricultural use in the Commonwealth. There are three documents that could be utilized to identify these farmland designations: the *Soil Survey Allen County* (NRCS 1989), *Soil Survey of Simpson County* (NRCS 1985) and *Important Farmland Soils of Kentucky* (NRCS 1981). All documents are available through this office. The soil survey information for both counties can also be downloaded at the following web sites: <http://soildatamart.nrcs.usda.gov/> or <http://websoilsurvey.nrcs.usda.gov>.

One other concern we would like to comment on is the control of erosion and sedimentation during and after earth-disturbing activities once this project begins. We recommend best management practices (BMPs) be utilized to prevent nonpoint source water pollution. This would protect the water quality and aquatic habitat of the perennial and intermittent streams that this project could impact.

Mr. Daryl Greer, P.E.

October 9, 2007

Page Two

The manual, *Best Management Practices for Construction Activities*, contains information on the kinds of BMPs most appropriate for this project and is available through the Allen or Simpson County Conservation Districts, the Kentucky Division of Water, or this office. Also, an electronic version of the *Kentucky Erosion Prevention and Sediment Control Field Guide* is available online at <http://www.water.ky.gov/sw/nps/Publications.htm>

We appreciate the opportunity to comment on this project. If you have any questions, please contact this office any time.

Sincerely,

A handwritten signature in dark ink, appearing to read "Stephen A. Coleman". The signature is fluid and cursive, with the first name "Stephen" and last name "Coleman" clearly distinguishable.

Stephen A. Coleman, Director
Kentucky Division of Conservation

SAC/MD/aeh



RECEIVED

OCT 02 2007

ENVIRONMENTAL AND PUBLIC PROTECTION CABINET

Ernie Fletcher
Governor

Department for Natural Resources
2 Hudson Hollow
Frankfort, Kentucky 40601
Phone: (502) 564-6940
Fax: (502) 564-5698
www.eppc.ky.gov
www.dnr.ky.gov

Teresa J. Hill
Secretary

Susan C. Bush
Commissioner

October 1, 2007

Mr. Daryl Greer, P.E.
Director of the Division of Planning
Kentucky Transportation Cabinet
200 Mero Street
Frankfort, KY 40622

Subject: Planning Study
Allen and Simpson Counties
KY 100 Improvements from KY 622
in Simpson County to US 31E in Allen County
Item No. 3-8303.00

Dear Mr. Greer:

Thank you for the opportunity to comment on the planning study project located in Simpson and Allen Counties referenced in your communication of August 31, 2007. The Department for Natural Resources has reviewed records for the proposed planning study for the above project.

The Division of Forestry states that the Lloyd Wildlife Management Area (WMA) lies within the study area. There are approximately 366 acres of forestland located on the WMA, making it one of the largest contiguous forested blocks in the area. Another feature adding to the uniqueness of WMA is a small "old growth" forest located just north of Highway 491. These "old growth" forests are very rare throughout Kentucky. For these reasons, the Lloyd Wildlife Management Area should be protected as a unique environmental area.

The Division of Mine Reclamation reports a limestone quarry located within one-half mile of the project on KY 1332 in Allen County. Please see the attached map for location and permit number.

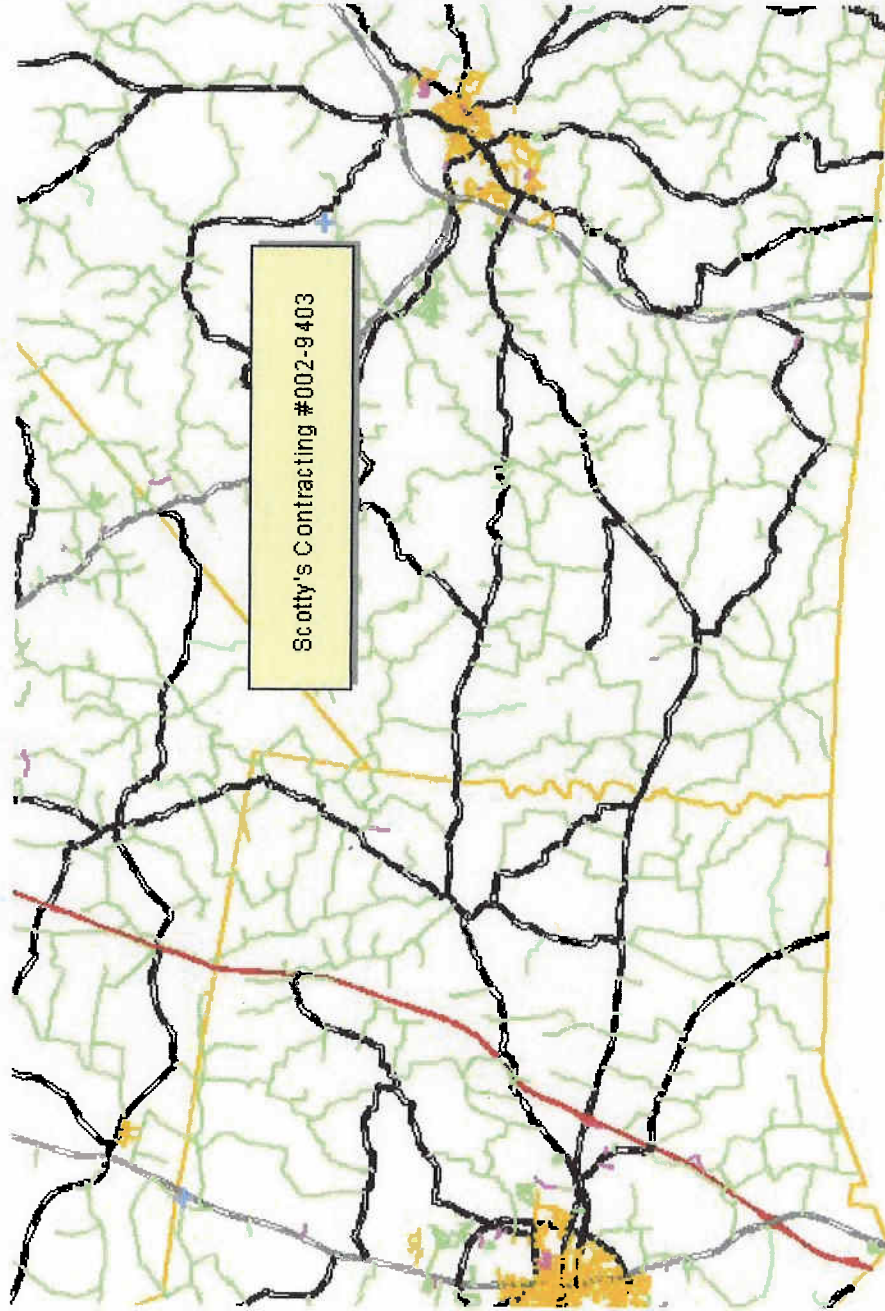
Finally, the Division of Oil and Gas Conservation confirms that this is an area of oil and gas activity. Enclosed is map of the area showing several oil and gas wells obtained from the Kentucky Mine Mapping Web site, <http://minemaps.ky.gov>. The Kentucky Geological Survey can provide an overlay with the wells plotted for this area.

Should you have additional questions or concerns, please Linda Potter in my office at (502) 564-6940.

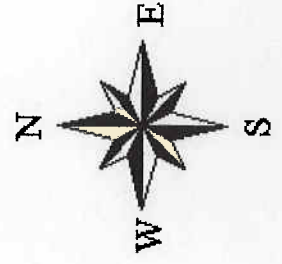
Sincerely,

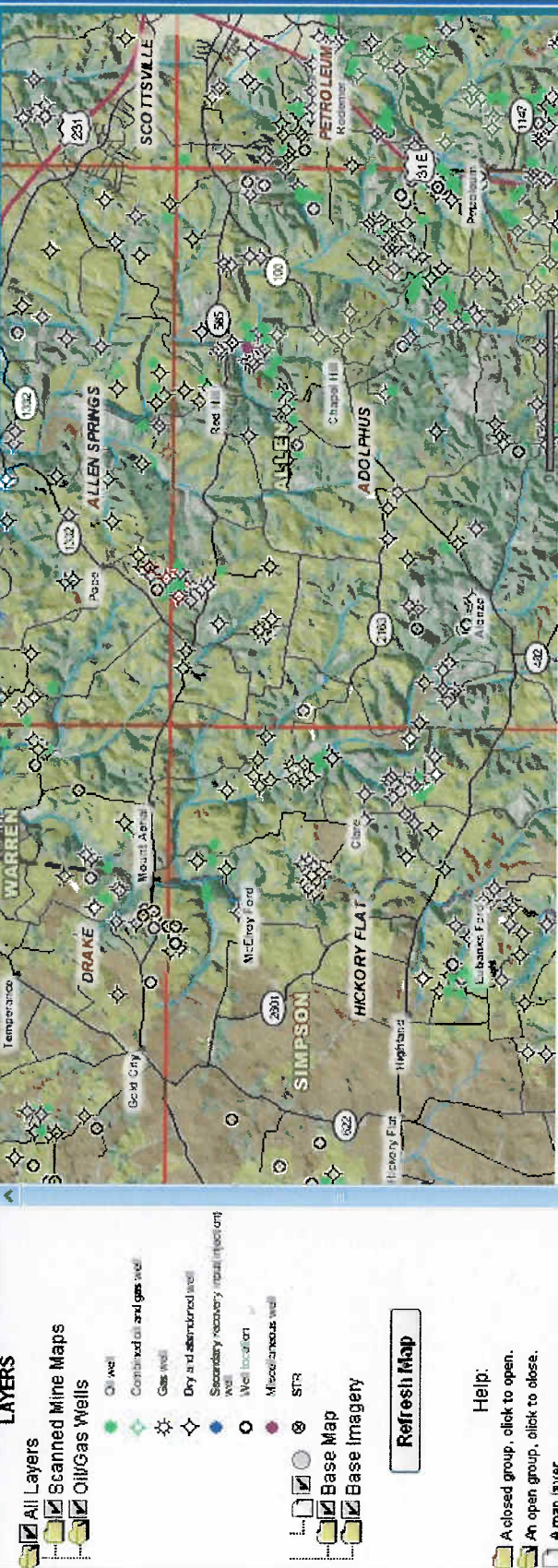
Susan Bush
Commissioner

Portal View 1



- + NonCoal Quarry
- Road
- Interstate
- Parkway
- US Highway
- State Highway
- City
- County
- Other
- Private
- County





Witt, Thomas (KYTC)

From: Gilbert, George (EPPC DEP DWM)
Sent: Thursday, September 20, 2007 10:00 AM
To: Witt, Thomas (KYTC)
Cc: Scott, R. Bruce (EPPC DEP DWM); Gruzesky, Ron (EPPC DEP DWM); Cooley, Tony (EPPC DEP DWM); Webb, April (EPPC DEP DWM); Tan, Wilson (EPPC DEP DWM); Sherkat, Fazi (EPPC DEP DWM); Daniell, Robert (EPPC DEP DWM); McGuffey, Robbie (EPPC DEP DWM); Maybriar, Jon (EPPC DEP DWM)
Subject: KY 100 Study Simpson County
Attachments: FW: KY 100 Road Study Simpson County; FW: KY 100 Road Study Simpson County; RE: KY 100 Road Study Simpson County; FW: KY 100 Road Study Simpson County

Here are the comments from the operating branches of the Division of Waste Management in EPPC. The fourth e-mail is from Hazardous Waste. Please contact me if you have any questions.

Sincerely,

George F. Gilbert, P.E.

Environmental Engineer Consultant

Director's Office

Division of Waste Management

Department for Environmental Protection

Environmental and Public Protection Cabinet

14 Reilly Rd.

Frankfort KY 40601

(502) 564-6716

(502) 564-8158, ext. 217 Direct Dial

(502) 598-9860 Mobile

(502) 564-4049 FAX

george.gilbert@ky.gov

Witt, Thomas (KYTC)

From: Daniell, Robert (EPPC DEP DWM)
Sent: Friday, September 07, 2007 12:52 PM
To: Gilbert, George (EPPC DEP DWM)
Cc: Baase, Dawn (EPPC DEP DWM); Terry, Lori (EPPC DEP DWM)
Subject: FW: KY 100 Road Study Simpson County

FYI...nothing we can find on the UST front.....

Rob Daniell, Manager
Underground Storage Tank Branch
81 C. Michael Davenport Blvd.
Frankfort, KY 40601
(502) 564-5981

From: Baase, Dawn (EPPC DEP DWM)
Sent: Friday, September 07, 2007 11:22 AM
To: Daniell, Robert (EPPC DEP DWM)
Cc: Terry, Lori (EPPC DEP DWM)
Subject: RE: KY 100 Road Study Simpson County

Rob,

I don't believe we have anything that would effect this one.

Dawn Langford Baase
AEI Section, USTB
Division of Waste Management
81 C. Michael Davenport Blvd
Frankfort, KY 40601
phone: 502-564-5981 ext. 250
fax: 502-564-5047

From: Daniell, Robert (EPPC DEP DWM)
Sent: Friday, September 07, 2007 10:31 AM
To: Baase, Dawn (EPPC DEP DWM)
Cc: Terry, Lori (EPPC DEP DWM)
Subject: FW: KY 100 Road Study Simpson County

Dawn, here's another one from George. Please see what you can find...thanks.

Rob Daniell, Manager
Underground Storage Tank Branch
81 C. Michael Davenport Blvd.
Frankfort, KY 40601

10/1/2007

(502) 564-5981

From: Gilbert, George (EPPC DEP DWM)

Sent: Friday, September 07, 2007 9:46 AM

To: Sherkat, Fazi (EPPC DEP DWM); Webb, April (EPPC DEP DWM); Gruzesky, Ron (EPPC DEP DWM); Daniell, Robert (EPPC DEP DWM); Maybriar, Jon (EPPC DEP DWM)

Cc: McGuffey, Robbie (EPPC DEP DWM)

Subject: KY 100 Road Study Simpson County

Please review the attachments and send me your sites and comments by COB Fri., Sept. 14. Thanks.

Sincerely,

George F. Gilbert, P.E.

Environmental Engineer Consultant

Director's Office

Division of Waste Management

Department for Environmental Protection

Environmental and Public Protection Cabinet

14 Reilly Rd.

Frankfort KY 40601

(502) 564-6716

(502) 564-8158, ext. 217 Direct Dial

(502) 598-9860 Mobile

(502) 564-4049 FAX

george.gilbert@ky.gov

10/1/2007

Witt, Thomas (KYTC)

From: Sherkat, Fazi (EPPC DEP DWM)
Sent: Friday, September 07, 2007 3:14 PM
To: Gilbert, George (EPPC DEP DWM)
Cc: Fisher, Tina (EPPC DEP DWM); Scott, R. Bruce (EPPC DEP DWM); Bryant, Allan (EPPC DEP DWM); Maybriar, Jon (EPPC DEP DWM)
Subject: FW: KY 100 Road Study Simpson County
Attachments: KY 100 ltr docs.pdf; KY 100 Env Map.pdf; Simpson County Sites.xls

George,

Attached is the list of the SF sites in Simpson County. I have talked to Tina to see if she is okay to generate these reports from TEMPO. For that matter, anyone else can also take the few easy steps below to generate the report for DOT inquiries. Fazi

1. Select Standard Reports under Report Too bar
2. Highlight ReportTool.exe and click Open
3. In login screen reenter your password (first name)
4. In report Screen select Superfund Site Counts with Details Report and double click it
5. Al County will appear under Parameter
6. Select =(Equal) under Operator dropdown menu
7. Select the count of interest under value dropdown menu and click ADD Condition and finally click Run Report

From: Gilbert, George (EPPC DEP DWM)
Sent: Friday, September 07, 2007 9:46 AM
To: Sherkat, Fazi (EPPC DEP DWM); Webb, April (EPPC DEP DWM); Gruzesky, Ron (EPPC DEP DWM); Daniell, Robert (EPPC DEP DWM); Maybriar, Jon (EPPC DEP DWM)
Cc: McGuffey, Robbie (EPPC DEP DWM)
Subject: KY 100 Road Study Simpson County

Please review the attachments and send me your sites and comments by COB Fri., Sept. 14. Thanks.

Sincerely,

George F. Gilbert, P.E.

Environmental Engineer Consultant
 Director's Office
 Division of Waste Management
 Department for Environmental Protection
 Environmental and Public Protection Cabinet
 14 Reilly Rd.
 Frankfort KY 40601
 (502) 564-6716
 (502) 564-8158, ext. 217 Direct Dial
 (502) 598-9860 Mobile
 (502) 564-4049 FAX

george.gilbert@ky.gov

Selected Rep AI County = 'Simpson'

AI ID	AI Name	SI County	Facility Group	Not/Com#	SI Description	Regulatory Desc	Site Status	Closure Option	Closure Dt	SI Long.	SI Lat.	SI Addr Line 1	SI Addr Line 2	SI City	SI St	SI Zip
3970	MAHLE Engine Components USA	Simpson	AAZZ1: 34481		FRANKLIN CAST IRON FACILITY / DANA CORPORATION	State Superfund	Active			-86.56250	36.73681	721 BLACKJACK ROAD		Franklin	KY	40202
3972	Franklin WWTP	Simpson	AAZZ1: 11774		Franklin WWTP (Closed: Changed 11/1/06 to Option C-Re	State Superfund	Closed	Option C Restored	11/01/2006	-86.57722	36.72194	HWY 100		Franklin	KY	42314
3975	Covalence Specialty Adhesives LI	Simpson	AAZZ1: 20544		POLYKEN (KENDALL)	State Superfund	Active			-86.57500	36.75694	2320 BOWLING GREEN RD, US 31W NORTH		Franklin	KY	42134
3980	Pilot Travel Center 46	Simpson	AAZZ1: 42118		SPEEDWAY SPILL / EMRO MARKETING (Closed: Restor	Petroleum Cleanup	Closed	Option C Restored	08/09/2002	-86.57000	36.73000	2929 SCOTTSVILLE RD		Franklin	KY	42134
3981	Triple M Land Farms Inc	Simpson	AAZZ1: 17853		TRIPLE M LAND FARMS, INC.	State Superfund	Active					NONE				
3982	Tyco Electronics Corp	Simpson	AAZZ1: 15394		TYCO ELECTRONICS (Closed: Restored)	Petroleum Cleanup	Closed	Option C Restored	12/27/2001	-86.57722	36.72222	ROBEY STREET		Franklin	KY	42134
6440	Franklin Landfill	Simpson	AAZZ2: 17851		(closed: referred to SW 4-07-07) FRANKLIN SANITARY LA	State Superfund	Closed	Referred	04/07/2007	-86.54694	36.73360	Dimore rd		Simpson	KY	42135
39913	Lawmac Environmental	Simpson	AAZZ1: 30441		S. C. JOHNSON WAX (DRACKETT)	State Superfund	Active			-86.57694	36.73056	104 CLAIRE AVE		Franklin	KY	42134
43365	Franklin Residential Landfill	Simpson	AAZZ1: 17845		FRANKLIN OLD LANDFILL, CITY OF	State Superfund	Active					NONE				
52260	Newport Pumping Station	Simpson	AAZZ1: 17848		NEWPORT PUMPING STATION	State Superfund	Active					NONE				
52262	James Gumm Property	Simpson	AAZZ1: 17852		GUMM PROPERTY, JAMES	State Superfund	Active					NONE				
52265	James B Downing & Co of KY Inc	Simpson	AAZZ1: 17846		DOWNING JAMES B. & CO. OF KY, INC.	State Superfund	Active					NONE				
52879	Texas Gas - Simpson Co	Simpson	AAZZ1: 20205		FRANKLIN 2 1917 (Closed: Restored)	Petroleum Cleanup	Closed	Option C Restored	10/20/1998	-86.57722	36.72222	NONE				
52886	Fuel Centers	Simpson	AAZZ1: 38689		FUEL CENTERS (Closed: Unfounded)	Petroleum Cleanup	Closed	Unfounded	10/28/1999	-86.57722	36.72222	NONE				
52926	Schneider Trucking	Simpson	AAZZ1: 39863		SCHNEIDER TRUCKING (Closed: No Action Necessary)	Petroleum Cleanup	Closed	Option A No Action	08/13/1996	-86.57722	36.72222	NONE				
53055	Coastal Express	Simpson	AAZZ1: 50834		WESTPOINT / COASTAL EXPRESS (Closed: No Action N	Petroleum Cleanup	Closed	Option A No Action	11/25/1998	-86.57722	36.72222	NONE				
53645	Old South Diner	Simpson	AAZZ1: 34319		OLD SOUTH DINER (Closed: Restored)	State Superfund	Closed	Option C Restored	08/12/1994	-86.57722	36.72222	NONE				
66580	Bayles Bros Grocery	Simpson	AAZZ2: Exempt that		USTB referral to SFB	Petroleum Cleanup	Active			-86.50000	36.72000	Bayles Bros. Grocery	3805 Adairville Roa	Franklin	KY	42134
70454	Black Jack Rd Drum	Simpson	AAZZ1: Abandoned		Waste Paint Drum off Blackjack Rd	State Superfund	Closed	Option C Restored	01/21/2005	-86.57661	36.72336	Black Jack Road		Franklin	KY	42431
76758	Albert Elliot Rd Abandoned Contai	Simpson	AAZZ1: Historical O		Several containers abandoned along roadside	State Superfund	Closed	Option C Restored	03/15/2006	-86.64750	39.82853	Albert Elliot Road		South Union	KY	42283
79352	Express Lube	Simpson	AAZZ1: Waste oil di		Express Lube illegally discharging waste oil	Petroleum Cleanup	Active			-86.34251	36.42640	1100 South Main Street		Franklin	KY	42134

Total Number

21

Witt, Thomas (KYTC)

From: Gruzesky, Ron (EPPC DEP DWM)
Sent: Wednesday, September 19, 2007 10:29 AM
To: Gilbert, George (EPPC DEP DWM)
Subject: RE: KY 100 Road Study Simpson County

Sorry, I though I copied you on Tony Cooley's e-mail that there were no historic landfills along the route....

Ron Gruzesky, P.E.
Manager, Solid Waste Branch
Kentucky Dept. for Environmental Protection
502/564-6716 ext. 240

From: Gilbert, George (EPPC DEP DWM)
Sent: Wednesday, September 19, 2007 9:46 AM
To: Gruzesky, Ron (EPPC DEP DWM)
Subject: FW: KY 100 Road Study Simpson County

I have everybody's response but SWB. Can you give me comments by COB Thur?

From: Gilbert, George (EPPC DEP DWM)
Sent: Friday, September 07, 2007 9:46 AM
To: Sherkat, Fazi (EPPC DEP DWM); Webb, April (EPPC DEP DWM); Gruzesky, Ron (EPPC DEP DWM); Daniell, Robert (EPPC DEP DWM); Maybriar, Jon (EPPC DEP DWM)
Cc: McGuffey, Robbie (EPPC DEP DWM)
Subject: KY 100 Road Study Simpson County

Please review the attachments and send me your sites and comments by COB Fri., Sept. 14. Thanks.

Sincerely,

George F. Gilbert, P.E.
Environmental Engineer Consultant
Director's Office
Division of Waste Management
Department for Environmental Protection
Environmental and Public Protection Cabinet
14 Reilly Rd.
Frankfort KY 40601
(502) 564-6716
(502) 564-8158, ext. 217 Direct Dial
(502) 598-9860 Mobile
(502) 564-4049 FAX

10/1/2007

george.gilbert@ky.gov

10/1/2007

Witt, Thomas (KYTC)

From: Tan, Wilson (EPPC DEP DWM)
Sent: Wednesday, September 19, 2007 3:22 PM
To: Gilbert, George (EPPC DEP DWM)
Cc: Jump, John (EPPC DEP DWM); Webb, April (EPPC DEP DWM)
Subject: FW: KY 100 Road Study Simpson County
Attachments: KY 100 ltr docs.pdf; KY 100 Env Map.pdf

George,

I like to let you know that DWM has no comments regarding the road study. Sorry for the delay. Thanks.

Wilson

From: Gilbert, George (EPPC DEP DWM)
Sent: Friday, September 07, 2007 9:46 AM
To: Sherkat, Fazi (EPPC DEP DWM); Webb, April (EPPC DEP DWM); Gruzesky, Ron (EPPC DEP DWM); Daniell, Robert (EPPC DEP DWM); Maybriar, Jon (EPPC DEP DWM)
Cc: McGuffey, Robbie (EPPC DEP DWM)
Subject: KY 100 Road Study Simpson County

Please review the attachments and send me your sites and comments by COB Fri., Sept. 14. Thanks.

Sincerely,

George F. Gilbert, P.E.
Environmental Engineer Consultant
Director's Office
Division of Waste Management
Department for Environmental Protection
Environmental and Public Protection Cabinet
14 Reilly Rd.
Frankfort KY 40601
(502) 564-6716
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(502) 598-9860 Mobile
(502) 564-4049 FAX

george.gilbert@ky.gov

10/1/2007



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OCT 03 2007

KENTUCKY DEPARTMENT OF FISH & WILDLIFE RESOURCES
COMMERCE CABINET

Ernie Fletcher
Governor

#1 Sportsman's Lane
Frankfort, Kentucky 40601
Phone (502) 564-3400
1-800-858-1549
Fax (502) 564-0506
fw.ky.gov

George Ward
Secretary

Dr. Jonathan W. Gassett
Commissioner

September 28, 2007

Daryl J. Greer, P. E.
Director
Division of Planning
Kentucky Transportation Cabinet
200 Mero Street
Frankfort, KY 40622

RE: Planning Study
Allen & Simpson Counties
KY 100 Improvements from KY 622 in Simpson County to US 31E in Allen County
KYTC Item No. 3-8303.00

Dear Mr. Greer:

The Kentucky Department of Fish and Wildlife Resources (KDFWR) have received your request for the above-referenced information. The Kentucky Fish and Wildlife Information System indicate that the federally endangered gray bat, *Myotis grisescens* and Indiana bat, *Myotis sodalis* are known to occur within close proximity to the project area. Please be aware that our database system is a dynamic one that only represents our current knowledge of the various species distributions.

- The Indiana bat utilizes a wide array of habitats, including riparian forests, upland forest, and fencerows 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. Trees in excess of 4 inches DBH may provide adequate roosting habitat. Removal of suitable Indiana bat roost trees due to construction of the proposed project should be completed 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 applicant only remove trees between November 15 and March 31 in order to avoid impacting Indiana bat "swarming" behavior.
- In areas where bats are known to occur, cave entrances, mine portals, and/or rock shelters that exist within the project area should be surveyed for potential use by such species as gray bats and Indiana bats. KDFWR recommends avoiding those areas that provide adequate habitat for bats.
- The proposed project is located within the Barren River (05110002) eight-digit Hydrologic Unit Code (HUC). The Barren River eight-digit HUC is designated in Kentucky's State Wildlife Action Plan (SWAP) as a "Mussel Priority Conservation Area" and a "Fish and Lamprey Conservation Area" due to the potential presence of several "Species of Greatest Conservation Need" located within Trammell Creek, the Middle Fork of Drakes Creek, and Sulphur Fork Creek. To minimize impacts to the aquatic resources located within the project area strict erosion control measures should be developed



and implemented prior to construction to minimize siltation into streams and karst areas located within the project area. Such erosion control measures may include, but are not limited to silt fences, staked straw bales, brush barriers, sediment basins, and diversion ditches. Erosion control measures will need to be installed prior to construction and should be inspected and repaired regularly as needed. To compensate for unavoidable impacts to streams, we recommend that possible stream mitigation sites be identified on-site or within the Barren River eight-digit HUC. Restoration of those sites should incorporate natural stream channel design along with the restoration of its associated riparian areas.

For more information on how to precede with the threatened/endangered species surveys please contact the US Fish and Wildlife Service Kentucky Field Office at (502) 695-0468.

It appears that the proposed project has the potential to impact wetland habitats. KDFWR recommends that you look at the appropriate US Department of Interior National Wetland Inventory Map (NWI) and the appropriate county soil surveys to determine where the proposed project may impact wetlands. Additionally, field verification may be needed to determine the extent and quality of wetland habitats within the project area. Any planning should include measures designed to eliminate and/or reduce impacts to wetland habitats. If impacts cannot be avoided, mitigation should be properly designed and proposed to offset the losses. KDFWR will recommend, at a minimum, a 2:1 mitigation ratio for any permanent loss or degradation of wetland habitats.

KDFWR recommends that you contact the appropriate US Army Corps of Engineers office and the Kentucky Division of Water prior to any work within the waterways or wetland habitats of Kentucky. Additionally, KDFWR recommends the following for the portions of the project that impact streams:

- Avoidance of impacts to intermittent and perennial streams if it is feasible.
- Channel changes located within the project area should incorporate natural stream channel design.
- If culverts are used, the culvert should be designed to allow the passage of aquatic organisms.
- Culverts should be designed so that degradation upstream and downstream of the culvert does not occur.
- Development/excavation during low flow period to minimize disturbances.
- Proper placement of erosion control structures below highly disturbed areas to minimize entry of silt into area streams and karst areas.
- Replanting of disturbed areas after construction, including stream banks, with native vegetation for soil stabilization and enhancement of fish and wildlife populations. We recommend a 100 foot forested buffer along each stream bank.
- Return all disturbed instream habitat to a stable condition upon completion of construction in the area.
- Preservation of any tree canopy overhanging any streams within the project area.

I hope this information proves helpful to you. If you have any questions or require additional information, please call me at (800) 852-0942 Extension 366.

Sincerely,

Doug Dawson

Doug Dawson
Wildlife Biologist III

Cc: Environmental Section File





RECEIVED

OCT 01 2007

KENTUCKY STATE POLICE

Ernie Fletcher
Governor

919 Versailles Road
Frankfort, Kentucky 40601
www.kentucky.gov

John (Jack) Adams
Commissioner

September 27, 2007

Daryl J. Greer, P.E.
Director, Division of Planning
Kentucky Transportation Cabinet
200 Mero Street, 5th Floor
Frankfort, KY 40622

RE: Planning Study:
KY 100 Improvements/Allen & Simpson Counties

Dear Mr. Greer:

KY 100 has been a roadway that concerns the Kentucky State Police due to the number of crashes that occur. We have identified KY 100 in Allen and Simpson Counties as a "High Crash Roadway". We have utilized directed patrol and selective enforcement in an effort to reduce crashes on KY 100.

I would provide the following statistics for 2007 year to date:

- KY 100 Allen County MPO.000 – 12.654
16 Crashes
- KY 100 Simpson County MP 16.340 – 19.115
6 Crashes

Traffic volume will continue to increase due to population growth and increased industrial development in the area. KY 100 is the primary East – West route for both counties. Also, due to its intersection with I-65, KY 100 has significant commercial vehicle traffic that will continue to increase.

Page Two
Correspondence
September 27, 2007

There are also areas along the roadway where the shoulder drops steeply away and could contribute to a crash. The proposed project would serve to improve the safety of travelers on this roadway.

If I may be of further assistance, please feel free to contact me.

Capt. Bill Payton 4/24
Captain Bill Payton, Unit 24
Commander, Post Three
Kentucky State Police
3119 Nashville Road
Bowling Green, KY 42102-0068

BP:lc
COLC0056

RECEIVED

SEP 26 2007



JUSTICE AND PUBLIC SAFETY CABINET

Ernie Fletcher
Governor

Kentucky Vehicle Enforcement
Frankfort, Kentucky 40601

BG Norman E. Arflack
Secretary

Gregory G. Howard
Commissioner

September 25, 2007

Mr. Daryl J. Greer, P.E.
Division of Planning
Transportation Cabinet
200 Mero Street, 5th Floor
Frankfort, KY 40622

Dear Mr. Greer:

We are in receipt of your letter requesting any input that Kentucky Vehicle Enforcement might have in regards to a planning study in Allen and Simpson counties, KY 100 improvements from KY 622 in Simpson County to US 31E in Allen County, item no. 3-8303.00.

After having my staff research the matter, we do not see any concerns as it relates to our agency. In fact, we occasionally receive calls about KY 100 because it is considered a non-designated highway which only allows truck with dimensions no greater than 8 feet wide and 65 feet overall length. The call is usually about a citation the company has received because they are not aware of the restrictions and there are no signs restricting the route.

If you need any further information, please do not hesitate to let us know.

Sincerely,

A handwritten signature in blue ink, appearing to read "Gregory G. Howard".

Gregory G. Howard
Commissioner
Department of Kentucky Vehicle Enforcement



RECEIVED

SEP 19 2007

Ernie Fletcher
Governor

TRANSPORTATION CABINET

Frankfort, Kentucky 40622
www.kentucky.gov

Bill Nighbert
Secretary

Marc Williams
Commissioner of Highways

MEMORANDUM

TO: Daryl J. Greer, P.E.
Director
Division of Planning

FROM: Cass T. Napier, P.E. *CTN*
Branch Manager
Permits

DATE: September 17, 2007

RE: Allen & Simpson Counties
KY 100, Franklin to Scottsville
Item No. 3-8303.00

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

Thank you for the opportunity to verbalize our concerns.

CTN/pm



RECEIVED

OCT 01 2007

Ernie Fletcher
Governor

TRANSPORTATION CABINET

Frankfort, Kentucky 40622
www.kentucky.gov

Bill Nighbert
Secretary

Crystal Murray Ducker
Deputy Secretary

INTRA-DEPARTMENTAL MEMO

TO: Daryl J. Greer, P.E.
Director
Division of Planning

FROM: Tiffani Jackson
Bicycle and Pedestrian Coordinator
Office of Special Programs

DATE: September 28, 2007

SUBJECT: Comments on Planning study of KY 100 from KY 622 to US 31E

After reviewing the project information for the planning study of KY 100, I have the following comments that I feel should be taken into consideration when identifying improvements for this stretch of roadway:

- Any improvements made to KY 100 should incorporate the safety needs of bicyclists and pedestrians that may travel the road. After studying the enclosed maps and seeing that small communities, churches and schools either lie on or near KY 100, having safe bicycle and pedestrian accommodations will give the community another option for transportation to and from their destinations.
- KY 100 is in close proximity to two KYTC designated bike routes (Southern Lakes and Mammoth Cave). Currently there is a varying shoulder width of approximately 2-4 feet. My recommendation is to incorporate a minimum of 4 ft of paved shoulder width (after any rumble strips that are installed) to accommodate any cyclists that may choose to use the road to travel between Allen and Simpson Counties. This shoulder width may also serve as a way for pedestrians to safely travel the roadway if sidewalks are not available.
- Incorporate proper signage for both bicyclists and pedestrians who may be traveling this roadway.


Tiffani Jackson



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Ernie Fletcher
Governor

TRANSPORTATION CABINET


Frankfort, Kentucky 40622
www.kentucky.gov

Bill Nighbert
Secretary

Marc Williams
Commissioner of Highways

MEMORANDUM

TO: Daryl J. Greer, P.E.
Director
Division of Planning

FROM: Greta Smith, P.E.
Director
Division of Construction 

DATE: October 1, 2007

SUBJECT: Planning Study
Allen & Simpson Counties
KY 100 Improvements from KY 622 in Simpson County
to US 31E in Allen County
Item No. 3-8303.00

In reply to your request for comments from the Division of Construction pertaining to the subject Planning Study, representatives from Central Office Construction and District 3 Construction have made an inspection of the subject corridor.

Because of the narrow typical section of the present corridor, it is critical that enough easement is given to properly maintain one lane of traffic for the duration of the construction phases. A total closure of this route would prove detrimental to the traveling public and their good-will towards the Cabinet.

Thank you for the opportunity to review this planning study.

MEMORANDUM

P-015-2007

TO: Daryl Greer, P.E.
Director
Division of Planning

FROM: William Broyles, PE
Geotechnical Engineering
Branch Manager
Division of Structural Design

BY: Michael Blevins, P.G.
Geotechnical Branch

DATE: October 18, 2007

SUBJECT: Allen & Simpson County
KY 100 Improvements From KY 622 in
Simpson County to 31E in Allen County
Item # 03-8303.00
E-Mars # 7968901D
Planning Study

GEOLOGIC OVERVIEW

The Geotechnical Branch has completed a review of the Geologic Quadrangle Maps for Hickory Flat, Adolphus and Petroleum. The Study area is underlain by Quaternary Alluvium and bedrock of the Mississippian System, which include the St. Louis Limestone, Salem and Warsaw Limestones and the Fort Payne Formation.

The alluvium is mainly encountered along the major stream valleys and consists of poorly sorted gravel, sand, silt and clay ranging from 0-30 feet in thickness across the study area.

The St. Louis Limestone consists of limestone and siltstone. The limestone contains numerous balls and nodules of chert and is at times silty and argillaceous in zones. The siltstone occurs as beds or lenses 6 inches thick up to 3 feet thick and is calcareous and dolomitic. The formation should be suitable for most roadway applications. Sinkholes are common in this formation and the majority of the surface drainage is through the subsurface.

The Salem & Warsaw Formation is mainly limestone and siltstone interbedded. The limestone is thick bedded and is commonly cross-bedded. The siltstone is massive to thin bedded and argillaceous. Sinkholes may be encountered but are not as common as in the St. Louis Limestone. The formation should be suitable for most roadway applications.

Memorandum
Daryl Greer
October 18, 2007
Page-2-

The Fort Payne is made up of siltstone, shale and limestone; is interbedded and varies widely in proportion throughout the formation. Some parts of the formation may be suitable for roadway applications. Sinkholes may be encountered but are not common.

These formations are shown on the attached Geologic quadrangle map.

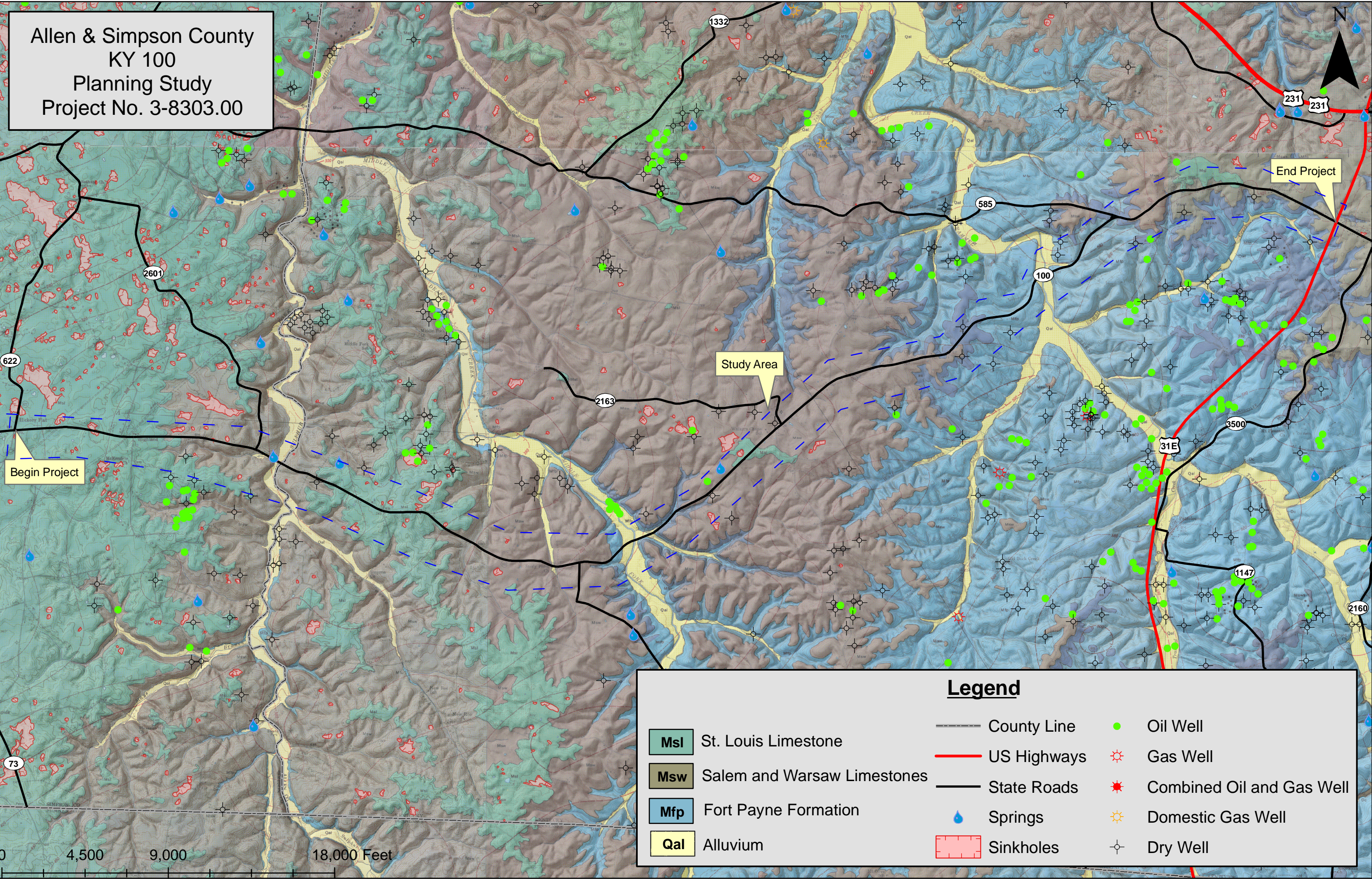
Oil and gas wells are indicated throughout all three quadrangles. The locations should be research further for potential impacts if new alignments are chosen.

CONCERNS

The Branch does not have any major concerns at this time. Sinkholes may be the only concern.

If there are any questions, please advise.

Allen & Simpson County
KY 100
Planning Study
Project No. 3-8303.00



Study Area

Begin Project

End Project

Legend

- | | | |
|--|-------------|---------------------------|
| Msl St. Louis Limestone | County Line | Oil Well |
| Msw Salem and Warsaw Limestones | US Highways | Gas Well |
| Mfp Fort Payne Formation | State Roads | Combined Oil and Gas Well |
| Qal Alluvium | Springs | Domestic Gas Well |
| | Sinkholes | Dry Well |

0 4,500 9,000 18,000 Feet

Kentucky Geological Survey
Research
228 Mining & Mineral Resources Bldg.
Lexington, KY 40506-0107
Phone: (859) 257-5500
Fax: (859) 257-1147
www.uky.edu/kgs

October 4, 2007

Daryl J. Greer, P.E.
Director, Division of Planning
Kentucky Transportation Cabinet
200 Mero St.
Frankfort, KY 40622

Dear Mr. Greer:

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

Allen and Simpson Counties.

Ky. 100 Improvements from Ky. 622 in Simpson County to
U.S. 31E in Allen County.

Item No. 03-8303.00

Physiographic Region

The study area is in the Mississippian Plateau (Pennyroyal or Pennyrile) physiographic region, which is underlain by limestone, siltstone, shale, chert, clay, silt, sand, and rock fragments.

Land-Use Planning Map

For good geologic (with physical parameters) overview for the study area, refer to the county land-use planning map at www.uky.edu/KGS.

On the home page, click on GIS and Maps.

On this page, click on County Land-Use Planning Maps.

On this page, click on the county of interest on the index map. A viewable and downloadable pdf of the county land-use map will be displayed.

Karst Potential

The study area (more to the western end) might encounter karst features such as sinkholes and caves.

Landslide Potential

The study area would not encounter any pre- or post-landslide hazard.

Unconsolidated Sediments

The study area would not encounter unconsolidated sediments such as clay, silt, sand, gravel, and chert rubble in the streams.

Resource Conflicts

The study area should not encounter resource conflicts such as prior ownership of property for quarrying or mining, but might encounter oil and gas wells.

Materials Suitability

The thicker limestones in the study area might be a suitable for road construction. Some limestones may be clayey and dolomitic in composition, which would cause the limestone to expand when wet. Chert within the limestone will decrease the suitability of the limestone for use as road gravel.

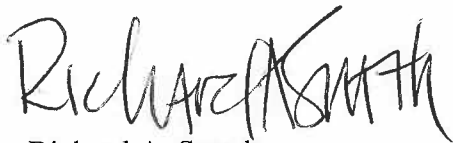
Fault Potential

The study area would not encounter faulted areas.

Earthquake Ground Motions

The study area has a probable peak ground acceleration (PGA) due to earthquake ground motion of 0.09g. There would be a minimal potential for liquefaction or slope failure in the unconsolidated sediments at or near streams by bedrock ground motion.

Sincerely,

A handwritten signature in black ink, appearing to read "Richard A. Smath". The signature is stylized with a large, looped "R" and a cursive "Smath".

Richard A. Smath
Geologist