

Appendix A

Environmental Overview





Environmental Overview

I-71 / I-264 Interchange Planning Study

KYTC Item 5-557.00

Jefferson County

June 2021

Front Cover:

Top Photo – SB I-71 at I-264 Interchange

Bottom Photo – Residential Area, South of and Adjacent to I-71 / I-264 Interchange

Table of Contents

EXECUTIVE SUMMARY ..... ES i

1 – INTRODUCTION 1

2 – PROJECT DESCRIPTION 1

3 – NATURAL ENVIRONMENT 2

Environmental Setting 2

Streams and Wetlands 2

Threatened and Endangered Species 3

4 – HUMAN ENVIRONMENT 6

Air Quality 6

Noise 6

Socioeconomic 8

Environmental Justice Analysis 8

Land Use and Zoning 8

Neighborhoods and Community Facilities 9

Farmland 9

Hazardous Materials / Underground Storage Tanks (USTs) 10

Cultural Resources 11

Section 4(f) and Section 6(f) Resources 12

5 – REFERENCES 13

Tables

Table ES 1 – Environmental Constraints Summary.....ES iii

Table 1 – Streams in the Interchange Area 2

Table 2 – Federally Listed Threatened or Endangered Species 3

Table 3 – 2020 KYTC Noise Abatement Criteria Activity Categories 6

Table 4 – Minority and Low-Income Percentages of Census Tracts in the Study Area 8

Table 5 – EDR Hazardous Materials Sites 10

Figures

Figure 1 – Environmental Constraints

Appendices

Appendix A – Natural Resources Coordination

Appendix B – EDR Database Search

EXECUTIVE SUMMARY

This Environmental Overview (EO) is part of the I-71 / I-264 interchange planning study which encompasses a study area including the I-71 / I-264 interchange and points north and south approximately one quarter mile in each direction in Jefferson County. The planning study area lies within the I-71 mainline widening project (05-557.00). Information derived from the interstate widening project has been used to develop this EO and to provide an environmental footprint and documentation for the planning study. Within the I-71 mainline widening project, the I-71 / I-264 interchange is proposed only for milling and overlay. Design of the interchange will occur as a separate project from the overall I-71 mainline widening.

This EO documents the environmental features currently known to exist within the study area for the I-71 / I-264 interchange planning study. Data collected for this summary is based on the review of existing GIS datasets, state and federal agency databases, literature research, archival data, and a limited field survey. Site reconnaissance and desktop research were performed to identify and locate areas of importance or concern that lie within the study area. Figure 1 shows the study area and key environmental constraints summarized in this Executive Summary.

Environmental Considerations

The following information summarizes potential environmental issues that may require consideration as part of the development of new alignments or interchange configurations.

NATURAL ENVIRONMENT

The interchange area contains two unnamed intermittent and two ephemeral streams that run adjacent to, perpendicular to, and/or through culverts underneath the existing interstate. The streams are poor quality with erosional banks and embeddedness. No mapped wetlands are present in the interchange area.

Several listed species with potential to occur in the study area were identified during early coordination with the US Fish and Wildlife Service. Species included three mammals (bats), one plant, and 10 mussel species. No critical habitats are within the study area. Known summer 1 tree habitat for the Indiana bat and northern long-eared bat is found in the study area. Gray bat summer foraging habitat is also found along the intermittent stream flowing along the southern extent of the study area. No other endangered species habitat is found in the interchange area.

HUMAN ENVIRONMENT

A project within the study area will not create environmental concerns related to Environmental Justice, changes in land use or zoning, direct impacts to community facilities (e.g., schools, churches, parks), 6(f) resources, or farmland. Direct small-scale impacts to adjoining neighborhoods could occur depending on which alternative concept is chosen. Indirect, short-term impacts may occur to neighborhoods and community facilities as a result of construction activities. Improvements to existing infrastructure will occur on or adjacent to the interstate and the interchange. These activities will result in unavoidable disruption of travel to those living or

working in or adjacent to the interstate and to all travelers who utilize this interstate corridor during construction activity.

The interchange improvement project is a “Project with Low Potential MSAT (Mobile Source Air Toxics) Effects” since the design year traffic is less than 140,000 to 150,000 AADT. The study area is also in attainment for all transportation criteria air quality pollutants except for the 8-hour Ozone (2015) standard. The future design project would need to be included in a conforming TIP and STIP for it to receive federal funding.

Based on the noise analysis results from the I-71 widening project (5-557.00) identifying noise impacts above Noise Abatement Criteria, noise impacts would be anticipated in the interchange planning study area. As such, a traffic noise analysis will likely be necessary for the interchange project as part of the environmental documentation necessary during the design phase of the project.

A review of the Environmental Data Resources, Inc. (EDR) database search was conducted. Based on the review, eight sites are within the existing right-of-way or sufficiently close to that boundary to be of consideration. Of these sites, five are from the state spill and/or release related (SPILLS) database and three are spills recorded from the State Leads List (KY SHWS). No underground storage tanks (USTs) were identified in the study area.

Previous hazardous materials spills identified at eight locations in the study area do indicate that any construction contractor should prepare a contingency plan to address the removal/disposal of any petroleum/hazardous contaminated soils that could be encountered during construction activities.

Two NRHP listed and eligible historic properties (JF-534 and JF-2645) are located within the study area. Both historic properties are also Section 4(f) resources and would require 4(f) analyses should an adverse effect or use of these properties be necessary. Archaeological resources are not anticipated within the study area and no phase I survey would be expected unless any design affects the two historic properties or extends outside of existing right-of-way.

Table ES 1 – Environmental Constraints Summary

Environmental Category	Environmental Constraint
Natural Environment	
Streams	Two intermittent and two ephemeral unnamed streams within existing right-of-way in the interchange area
Wetlands	None
Floodplains	Southwest portion of the interchange area is within a designated floodplain
Threatened & Endangered Species	Within Indiana bat and northern Long-Eared bat Summer 1 priority habitat area; three bats, one plant, and eight mussels were listed by the USFWS for the study area; no habitat for plant or mussels
Geology	Outer Bluegrass Physiographic region underlain by limestone
Human Environment	
Air Quality	Project with Low Potential MSAT; project will need to be in conformity by inclusion in TIP and STIP
Noise	Noise impacts anticipated; traffic noise analysis to be completed in future for preliminary design alternative(s)
Environmental Justice	None – Minority and low-income populations low compared to state and county %
Land Use	No change in land use
Neighborhoods	Project adjacent to Indian Hills, Riverwood, Glenview, Glenview Hills, Northfield, and Glenview Manor
Community Facilities and Services	None
Farmland	None
Hazardous Materials/USTs	None
Historic Structures	JF-534 - NRHP Listed; JF-2645 – NRHP Eligible
Archaeology	No Phase I recommended (unless ground disturbance outside of existing right-of-way in specified areas)
Section 4(f) Properties	No publicly owned parks or wildlife management areas Two NRHP listed or eligible sites in study area
Section 6 (f) Properties	No publicly owned parks in study area

1 – INTRODUCTION

This Environmental Overview (EO) documents the environmental features known to exist within the study area for the I-71 / I-264 interchange planning study. The I-71 / I-264 interchange cannot accommodate peak traffic volumes due to the limited number of lanes and driver tendencies. Congestion and traffic delays in the area are anticipated to become more significant with volumes that are projected to increase over the next five years. The primary need for this project is to implement improvements to better accommodate future peak traffic volumes.

Data collected for this EO is based on the review of existing GIS datasets, state and federal agency databases, literature research, archival data, and a limited windshield survey. Site reconnaissance and desktop research were performed to identify and locate areas of importance or concern that lie within the study area.

2 – PROJECT DESCRIPTION

The I-71 / I-264 interchange planning study encompasses a study area including the I-71 / I-264 interchange and points north and south approximately one quarter mile in each direction in Jefferson County. The planning study area as shown on Figure 1 lies within the I-71 mainline widening project (KYTC Item 5-557.00). The larger I-71 mainline project extends for more than six miles from Zorn Avenue in the south to I-265 in the north. Information derived from the interstate widening project has been used to develop this EO and to provide an environmental footprint and documentation for the planning study. Figure 1 also shows the key environmental constraints located within the study area.



Photo 1 – I-71 NB entrance ramp from EB I-264 in Study Area, Northfield Neighborhood on right

3 – NATURAL ENVIRONMENT

Environmental Setting

The study area is located in north central Kentucky, north of Downtown Louisville in the northern portion of Jefferson County. The project is located in the Outer Bluegrass physiographic region, which is characterized by deep valleys, with little flat land, and composed of interbedded Ordovician limestones and shales. Elevations in the study area gradually increase from south to north, ranging from approximately 462 feet above mean sea level (amsl) near the culvert at intermittent stream under I-71 to around 580 feet amsl at the northern termini near I-264 NB on ramp. The roadway is generally in a cut through the interchange area with the adjacent residences above the roadway in the NW, NE, and SE quadrants while the SW quadrant is generally below or level with the residences.

Streams and Wetlands

Aquatic resources in the study area demonstrate the effects of urbanization and modification through development. The interchange area contains two unnamed intermittent and two ephemeral streams that run adjacent to, perpendicular to, and/or through culverts underneath the existing interstate. These streams are highly impacted with eroded banks and substrate embeddedness. No mapped wetlands are present in the interchange area.

Impacts to steams and associated floodplains, and wetlands must be considered with any project. Minimizing impacts to aquatic features is a requirement for any permits that may be required from the US Army Corps of Engineers (USACE) or the Kentucky Division of Water (KDOW). Additionally, any impacts to floodplains must also be minimized to avoid raising base flood elevations. Generally, roadway construction requires strict adherence to erosion and sediment control best management practices to minimize sedimentation and related impacts to these resources and the habitat that they provide.

The study area contains two intermittent and two ephemeral streams within the existing I-71/I-264 interchange.

Table 1 – Streams in the Interchange Area

Stream Name	Length of Stream in Interchange Area (ft)	FEMA Floodplain
Intermittent 1	1587	Yes
Intermittent 2	1838	No
Ephemeral 1	356	Yes
Ephemeral 2	563	Yes

Wetlands

Wetlands are defined by the USACE as areas that include three criteria: wetland hydrology, hydrophytic vegetation, and hydric soils. Areas must meet all three criteria to be classified as a

wetland. No wetlands identified on NWI mapping and topographic mapping are located within and directly adjacent to the existing right-of-way of the interchange area.



Photo 2 – Intermittent 2 south of Interchange

Threatened and Endangered Species

Information obtained through the US Fish and Wildlife Service's (USFWS) Information for Planning and Consultation (IPaC) resulted in the identification of several listed species with potential to occur in the study area (Appendix A). Species included three mammals (bats), one plant, and 10 mussel species. No critical habitats are within the study area. Known summer 1 habitat for the Indiana bat and northern long-eared bat is found in the study area. A complete list of these species is shown in the table below.

Table 2 – Federally Listed Threatened or Endangered Species

Species Common Name	Species Scientific Name	Federal Status*	Habitat Present
Mammals			
Indiana bat	*Myotis sodalis*	E	YES
Northern long-eared bat	*Myotis septentrionalis*	T	YES
Gray bat	*Myotis grisescens*	E	YES
Plants			
Running buffalo clover	*Trifolium stoloniferum*	E	NO
Mussels			
Clubshell	*Pleurobema clava*	E	NO

Species Common Name	Species Scientific Name	Federal Status*	Habitat Present
Fanshell	*Cyprogenia stegaria*	E	NO
Northern Riffleshell	*Epioblasma torulosa rangiana*	E	NO
Orangefoot pimpleback	*Plethobasus cooperianus*	E	NO
Purple Cat's Paw	*Epioblasma obliquata obliquata*	E	NO
Rabbitsfoot	*Quadrula cylindrica cylindrica*	T	NO
Ring Pink	*Obovaria retusa*	E	NO
Rough Pigtoe	*Pleurobema plenum*	E	NO
Sheepnose	*Plethobasus cyphus*	E	NO
Spectaclecase	*Cumberlandia monodonta*	E	NO

E = Endangered, T=Threatened

Indiana Bat and Northern Long-eared Bat

These federally listed species require distinct habitat types during the winter and summer months. Winter habitat is restricted to suitable underground hibernacula typically consisting of caves located in karst areas; however, these species also hibernate in cave-like locations, including abandoned mines. Summer habitat for the Indiana and northern long-eared bats consists of a variety of forested habitats utilized for roosting, foraging, and commuting. These habitats consist of forested blocks and linear features that consist of dense or loose aggregates of trees with variable amounts of canopy closure. Typical foraging habitat includes closed to semi-open forested habitats, where bats forage along forest edges and the tree canopy. Commuting habitat is used to travel between roosting and foraging areas and typically includes forest edges and linear features, including riparian corridors and fencerows.

No karst features or mine portals were observed within the study area; subsequently, no Indiana or northern long-eared bat winter habitat is present. Riparian corridors and forested blocks that provide foraging habitat are located within the study area especially along the two unnamed intermittent streams and median areas of the interchange. The forested blocks adjacent to these streams provide additional foraging and commuting habitat. One of the intermittent streams and two ephemeral streams in the interchange area run perpendicular to the interstate and continue beneath the roadway through culverts. The other intermittent stream runs parallel to the interstate at the southern portion of the interchange.

Suitable Indiana bat and northern long eared bat known summer roosting habitat was identified within the study area. The study area is located within known summer 1 habitat of Indiana bat and northern long-eared bat (USFWS KFO August 2019). Once the project is designed and an alignment is chosen, the proposed impacts in acres of known occupied summer Indiana bat and northern long-eared bat habitat will need to be determined.



Photo 3 – NB I-71 at interchange showing tree habitat for bats, Intermittent stream 1 floodplain on right

Gray Bat

This federally listed species roosts in caves, abandoned mines, or other cave-like structures year-round, utilizing different features during the winter and summer. Gray bats have also been known to use bridges and culverts as roosting habitat. Foraging habitat for the gray bat includes forested areas along rivers, streams, lakes, and reservoirs. Commuting habitat for this species primarily consists of wooded corridors used to travel between roosting and foraging habitat. The study area was assessed for karst features that could be used as roosting habitat by the gray bat.

No karst features, mine portals, suitable highway overpasses and/or suitable bridges were observed within the study area; therefore, no gray bat winter habitat or summer roosting habitat is present. Gray bat foraging habitat is present in the study area especially along the intermittent stream in the southern portion of the interchange which runs parallel to I-264 just outside of the study area.

Running Buffalo Clover

This federally listed species requires periodic disturbance and a somewhat open habitat. It cannot tolerate full-sun, full-shade, or severe disturbance. Historically running buffalo clover was found in rich soils in the ecotone between open forest and prairie. Currently, the species is found in partially shaded woodlots, mowed areas (lawns, parks, cemeteries), and along streams and trails. Based on the in-office review of mapping and the field review, no habitat for running buffalo clover was found in the study area (existing right-of-way) as the area was maintained (mowed) interstate with associated bottomland forests of mixed age and young age species providing total shaded habitats.

Mussel Species (All 10)
These federally listed mussel species require medium to large rivers to live and reproduce. The Ohio River, found just outside of the study area, was likely the reason for the listing of these mussel species. The streams in the study area are not large enough to provide suitable habitat for the listed mussel species. Due to the lack of streams of suitable size to support such aquatic species, suitable habitat for the 10 listed mussel species is NOT present in the study area.

4 – HUMAN ENVIRONMENT

Air Quality

The interchange improvement project is a "Project with Low Potential MSAT (Mobile Source Air Toxics) Effects" since the design year traffic is less than 140,000 to 150,000 AADT. The study area is also in attainment for all transportation criteria air quality pollutants with the exception of the 8-hour Ozone (2015) standard. The Louisville, KY-IN EPA area was designated nonattainment (Marginal) for the 8-hour Ozone (2015) standard on June 4, 2018 (83 FR 25776). Because of this designation, inclusion of the I-71 / I-264 interchange project in the Louisville/Jefferson County KY-IN (KIPDA) Metropolitan Planning Organization (MPO) Transportation Improvement Program (TIP) and State Implementation Plan (SIP) will demonstrate that the project conforms to the state and local plans to demonstrate progress in reducing ozone.

The related I-71 widening project (KYTC Item 5-557.00) is in conformity. It is listed as KIPDA ID 2611 in the FY 2020-FY 2025 TIP, adopted February 2020. The project is also listed in the 2018 Statewide Transportation Improvement Program (STIP), Fiscal Years 2019 – FY 2022, page 57 of 114 (September 2018).

Noise

FHWA noise abatement criteria (NAC) are broken into seven activity categories (A through G) by description of land use and evaluation location (exterior or interior). These activity categories are detailed in the table below.

Table 3 – 2020 KYTC Noise Abatement Criteria Activity Categories

Activity Category	Description of Activity Category	Activity Criteria Leq(h)*	Evaluation Location
A	Lands on which serenity and quiet are of extraordinary significance and serve and important public need and where the preservation of those qualities is essential if the area is to continue its intended purpose	57	Exterior
B**	Residential	67	Exterior
C**	Active sport areas, amphitheaters, auditoriums, campgrounds, cemeteries, day care centers, hospitals, libraries, medical facilities, parks, picnic areas, places of worship, playgrounds, public meeting rooms, public or nonprofit institutional structures, radio studios, recording	67	Exterior

Activity Category	Description of Activity Category	Activity Criteria Leq(h)*	Evaluation Location
	studios, recreation areas, Section 4(f) sites, schools television studios, trails, and trail crossings.		
D	Auditoriums, day cares centers, hospitals, libraries, medical facilities, places of worship, public meeting rooms, public or nonprofit institutional structures, radio studios, recording studios, schools, and television studios	52	Interior
E**	Hotels, motels, offices, restaurants/bars, and other developed lands, properties or activities not included in A-D or F	72	Exterior
F	Agriculture, airports, bus yards, emergency services, industrial, logging, maintenance facilities, manufacturing, mining, rail yards, retail facilities, shipyards, utilities (water resources, water treatment, electrical), and warehousing	----------	----------
G	Undeveloped lands that are not permitted	----------	----------

*The Leq(h) Activity Criteria values are for impact determinations only and are not design standards for noise abatement measures.
**Includes undeveloped lands permitted for this activity category.

Noise analysis was completed for the I-71 widening project (KYTC Item 5-557.00). The analysis includes traffic noise monitoring at several locations throughout the I-71 widening project corridor including two noise monitoring locations within the I-71/I-264 interchange study area. Another project at the US 42 interchange (KYTC Item 5-804.00), to the east of the planning area, already includes a proposed noise barrier in the northeast quadrant of the interchange (Figure 1). Based on the noise analysis results from the I-71 widening project identifying noise impacts above NAC, additional noise impacts would be anticipated in the planning study area and additional noise barrier analyses will be necessary. As such, a traffic noise analysis will be completed for the interchange project as part of the environmental documentation necessary for that project.



Photo 4 – Noise Monitoring Site for the I-71 Widening project within the interchange area

Socioeconomic

Environmental Justice Analysis

Executive Order 12898, *Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations*, seeks to ensure that minority and low-income populations do not bear a disproportionate share of high and adverse human health or environmental impacts by identifying and addressing the impacts a project may have on these communities. An Environmental Justice Analysis was completed to determine whether and to some extent where potential Environmental Justice populations occur within or adjacent to the study area. The analysis was completed in accordance with the *KYTC Guidance for Environmental Justice Analysis* (September 2014) as prepared by KYTC in coordination with the Federal Highway Administration (FHWA). The Guidance was deviated from to the extent necessary to use more recent data, *i.*e., 2014-2018 American Community Survey data.

The study area includes portions of two census tract boundaries (Figure 1). The table below shows the percentages of the population that are either minority or low-income as compared to percentages for the state and county. Data in the table show that minority and low-income percentages in the census tracts are markedly lower as compared to percentages for the county or state.

Table 4 – Minority and Low-Income Percentages of Census Tracts in the Study Area

Geographic Boundary	Minority %	Low Income %
State	15.2	17.9
Jefferson County	32.1	14.8
Census Tract 75.01	6.2	2.2
Census Tract 75.02	9.6	6.4

Source: 2014-2018 American Community Survey 5-Year Estimates, site accessed April 2, 2020.

Land Use and Zoning

Land use characterizations and zoning designations of the study area are based on a review of aerial imagery, property valuation administrator information, data available from the Louisville/Jefferson County Information Consortium (LOJIC), and a windshield survey.

For areas outside of existing rights-of-way, residential use is by far the predominant land use in the study area with several neighborhood areas being located adjacent to the interstate right-of-way. Residential use is primarily single-family residences. No commercial uses are in the study area.

Zoning within the study area is consistent with the land use as described above. Based on zoning information available through LOJIC, zoning is residential throughout the study area.

Future design of interchange improvements is not anticipated to require any changes to land use or zoning designations within the study area.

Neighborhoods and Community Facilities

Several named neighborhoods, municipalities, or places as indicated on LOJIC data, are located within or adjacent to the study area (Figure 1). Those neighborhoods, from south to north, are Indian Hills, Riverwood, Glenview, Glenview Hills, Northfield, and Glenview Manor. No schools, colleges/universities, police departments, fire departments, churches, parks, or other community facilities are in or adjacent to the study area.

Neighborhoods and community facilities considerations primarily involve short-term delays and limited access during construction. Impacts from any project involving the I-71/I-264 interchange will be indirect and temporary as a result of construction of the project. Because the project involves improvements to existing infrastructure, construction activity, by necessity, will occur on or adjacent to the interstate and its interchanges and intersecting roadways. These activities will result in unavoidable disruption of travel to those not only living or working in or adjacent to the interstate, but to all travelers along this interstate route during construction. A formal Traffic Control Plan should be prepared for any project involving the interchange to maintain adequate access to these neighborhoods and any surrounding community facilities and services.

Farmland

The Farmland Protection Policy Act (FPPA) of 1981 (7 U.S.C. 4201 and 7 CFR Ch. VI Part 658) is intended to minimize conversion of farmland through consideration of impacts and alternative actions. The FPPA applies to activities where federal funds are involved and an irreversible conversion of prime, unique, or state and locally important farmland to non-agricultural use occurs. Some lands are exempt. Those lands may include lands not considered farmland such as land that has been previously developed (e.g. US Census urban areas or existing rights-of-way) or is committed to urban development or water storage. The entire study area is within an urbanized boundary and is developed; therefore, the study area does not contain any farmland protected under the FPPA.



Photo 5 – EB I-264 near Entrance Ramp to NB I-71. Northfield Neighborhood on right, Proposed Noise Wall location (KYTC Item 5-804.00)

Hazardous Materials / Underground Storage Tanks (USTs)

The Environmental Data Resources, Inc. (EDR) database search was conducted to determine if there was potential to encounter hazardous materials or underground storage tanks in the interchange area. The EDR database search included sites within a study area boundary (ranging from approximately 180 feet to 1,800 feet from the existing roadway) surrounding the existing interchange (Figure 1) and then extended an additional one mile from that boundary to include additional sites. The databases searched included federal, state, local, tribal, and EDR proprietary databases. The EDR environmental database report is in Appendix B.

The EDR database, online database, and windshield survey reviews resulted in the identification of eight sites within the study review area. All eight sites are within the existing right-of-way or sufficiently close to that boundary to be of consideration. Of these sites, five are from the state spill and/or release related (SPILLS) database and three are spills recorded from the State Leads List (KY SHWS). The sites are listed in the table below.

Table 5 – EDR Hazardous Materials Sites

Site Name	Location	Database*	Figure #	EDR Map #
Saint Matthews, KY	I-71 South Bound @I-264	KY SPILLS	1	51
MS Carriers Cathode Ray Tube Spill	Junction of I-71 S and I-264 W	KY SHWS	2	N55
Louisville, KY	I-71 NB at I-264	KY SPILLS	3	N58
Harrods Creek, KY	I-71 South Ramp to I-264 West (on bridge over I 264 EB)	KY SPILLS	4	N59
Statewide Transport I-71 Spill I-71 & I-264	I-71 and I-264	KY SHWS	5	56
Transcorp International Spill	I-264 WB and I-71 SB	KY SHWS	6	76
Louisville, KY	I-71 NB just past exit ramp to I-264 EB	KY SPILLS	7	52
Louisville, KY	I-71 NB @ 6 mm under bridge to Lime Kiln Lane	KY SPILLS	8	40

No underground storage tanks (USTs) were identified in the study area. Bridges are located in the study area and could be either removed, refurbished, or repainted as a result of the project. Bridges could also be widened. The following considerations shall be included through the future construction phase of the project:

- Eight EDR sites were identified in the study area. The selected construction contractor should consider preparing a contingency plan to address the removal/disposal of any petroleum/hazardous contaminated soils that could be encountered during future road construction activities.
- If the project design changes and project limits extend beyond the existing right-of-way, the study area should be re-evaluated to determine if any sites/properties of concern should be investigated further before construction activities commence.

- If any bridges or other structures are to be demolished and/or renovated as part of the project, they will require an asbestos inspection and abatement if asbestos bridge/building materials are identified.



Photo 6 – SB I-71 at exit ramp to WB I-264, Northfield Neighborhood on left, Glenview Hills Neighborhood on right

Cultural Resources

Historic resources are protected under Section 106 of the National Historic Preservation Act. Cultural historic sites are also considered Section 4(f) resources if listed on or eligible for listing on the National Register of Historic Places (NRHP) (See *Section 4(f) and Section 6(f) Resources* section below for additional information regarding 4(f) resources).

Corn Island Archaeology, Inc. (Corn Island) completed a cultural historic survey for the I-71 widening project including a large portion of the interchange to determine the presence of above-ground resources within an Area of Potential Effect (APE) within the study area that may be listed in or eligible for listing in the NRHP. The APE for the widening project was 250 feet either side of the existing roadway centerline.

A NRHP listed property (JF-534) is located partly within the study area in the northwest portion of the interchange (Figure 1). A NRHP eligible site (JF-2645) is located within the interchange area to the northeast. Much of the study area, particularly closest to the interchange and with the exception of the areas northeast of the interchange (Northfield Neighborhood), have structures which were built since 1975 and are less than 50 years old.



Photo 7 – Façade of NRHP eligible JF-2645

Corn Island prepared an archaeological overview of the study area of the I-71 / I-264 interchange planning study. They researched existing conditions pertinent to documented archaeological resources within the study area and assessed the potential for undiscovered resources. The background research indicated that only a small portion of the study area has been subjected to previous archaeological survey. One previously recorded site, the Nicoson Site (15JF591), which has been recorded with the Office of State Archaeology, lies within the study area. This has been identified as disturbed and recommended ineligible for listing in the NRHP. No cemeteries have been recorded within the study area.

Most of the area of potential effect for the project is within disturbed right-of-way, and a full Phase I archaeological survey would not be anticipated. If, however, any ground disturbance is planned in areas that have not been previously surveyed, are less than 15 percent slope (except for rock outcrops that may contain rockshelters), are more than 10 m (32.8 feet) from the shoulder, and lie within one of the areas of interest (defined as locations of possible archaeological resources identified as a result of map and aerial imagery review), an evaluation of disturbance and documentation and assessment of the resource may be warranted. In addition, should additional right-of-way be necessary, an archaeological survey may be required, depending on setting and conditions.

Section 4(f) and Section 6(f) Resources

Section 4(f) of the Department of Transportation Act of 1966, as amended in 1983 (49 U.S.C. Section 303) was enacted to preserve publicly owned land used for recreation, wildlife, and waterfowl refuges. Section 4(f) properties are publicly owned parks, wildlife management areas, historic resources that are listed on or eligible for listing in the NRHP and archaeological sites that are listed on or eligible for listing in the NRHP and warrant preservation in place. Section 4(f) resources in the study area include the listed NRHP properties discussed previously in the Cultural Resources section along with publicly owned parks. No publicly owned parks or wildlife management areas (WMA) are located within the study area.

The two NRHP listed and eligible sites identified above would also be section 4(f) resources. Avoidance of impacts resulting in an adverse effect would be recommended and anticipated for the interchange project by staying within exiting right-of-way.

Public parks and trails can also be subject to Section 6(f) of the Land and Water Conservation Act (LWCF) of 1965 (16 U.S.C. 4601-4). The Act, commonly referred to as Section 6(f), established a funding source for both federal acquisition of park and recreations land and matching grants to state and local governments for recreation planning, acquisition and development. Section 6(f) prohibits the conversion of property acquired or developed with Section 6(f) grants to a non-recreational purpose without the approval of the National Park Service. No properties within the study area have received Section 6(f) grant funds.

5 – REFERENCES

Environmental Protection Agency. Air Topics Website, Nonattainment and Maintenance Areas in the United States. https://www.epa.gov/environmental-topics/air-topics. Site accessed May 2020.

Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, 3 CFR, Vol. 59, No. 32. February 16, 1994.

Kentucky Transportation Cabinet. *Hazardous Material & UST – Environmental Desktop Review, I-71 Widening from Zorn Ave to I-265 (6.53 Miles), KYTC Item No. 5-0557.00, Jefferson County, Kentucky*. May 6, 2020.

Kentucky Transportation Cabinet. *Socioeconomic Analysis, I-71 Widening from Zorn Ave to I-265 (6.53 Miles), KYTC Item No. 5-0557.00, Jefferson County, Kentucky*. April 27, 2020.

Kentucky Transportation Cabinet, Division of Environmental Analysis. *KYTC Guidance for Environmental Justice Analysis*. September 2014.

Kentucky Transportation Cabinet, Division of Environmental Analysis. *Noise Analysis and Abatement Policy*. July 1, 2020. https://transportation.ky.gov/EnvironmentalAnalysis/Pages/Noise.aspx

Kentucky Transportation Cabinet, Division of Environmental Analysis. *How to Address Transportation Air Quality in NEPA Documents*. December 22, 2020. https://transportation.ky.gov/EnvironmentalAnalysis/Pages/Air-Quality.aspx

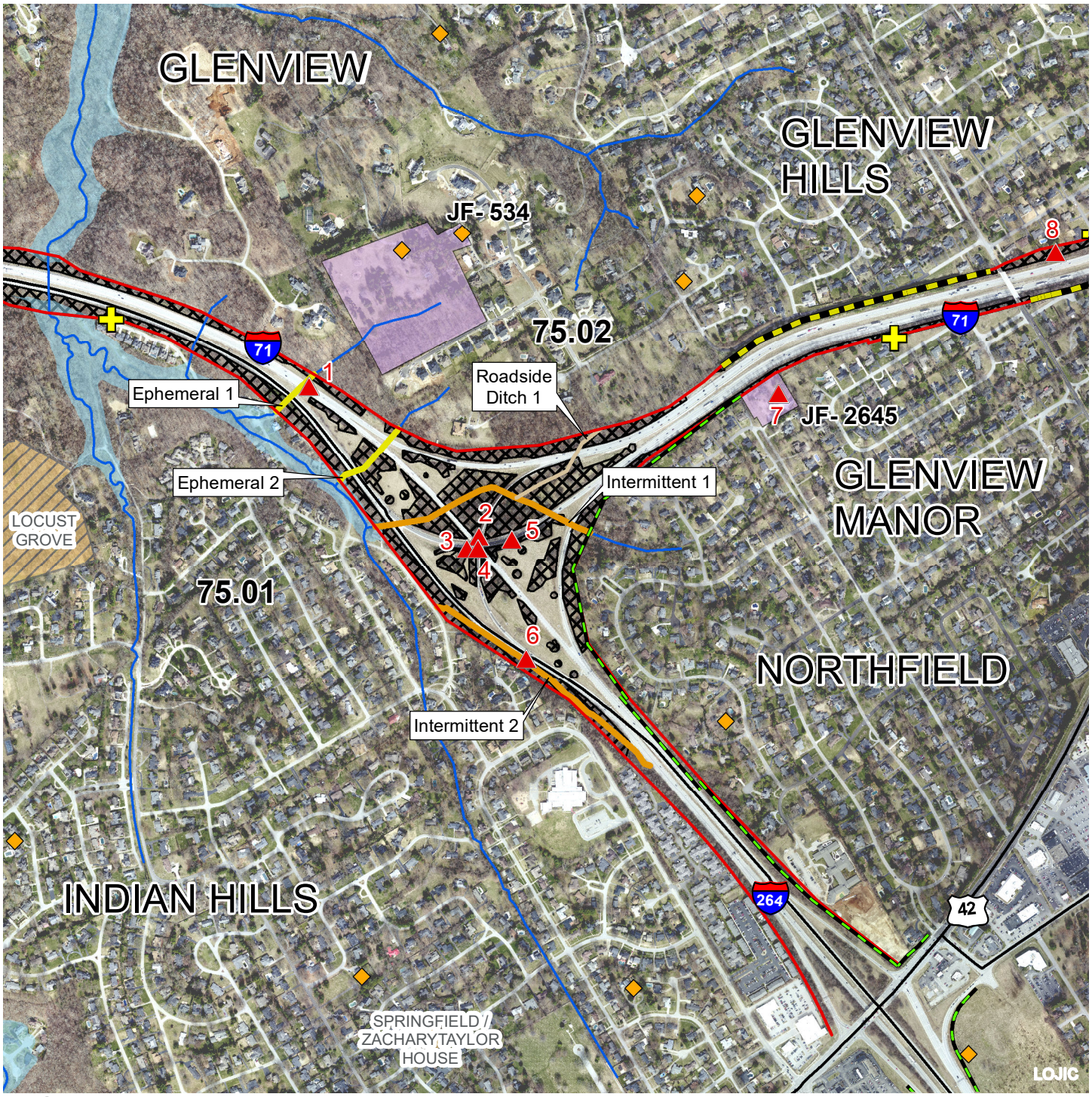
Kentucky Transportation Cabinet, Division of Environmental Analysis. *FHWA Updated Interim Guidance on Mobile Source Air Toxic Analysis in NEPA Documents*. October 18, 2016. https://transportation.ky.gov/EnvironmentalAnalysis/Pages/Air-Quality.aspx

Kentucky Transportation Cabinet, Division of Program Management. 2018 Statewide Transportation Improvement Program (STIP), Fiscal Years 2019 – FY 2022 (September 2018).

Kentuckiana Regional Planning and Development Agency (KIPDA), Louisville/Jefferson County, KY-IN Metropolitan Planning Area. FY 2020 – FY 2025 Transportation Improvement Program. Adopted February 2020.

Louisville/Jefferson County Information Consortium (LOJIC). https://www.lojic.org/. Site Accessed April/May 2020.

Figure



LEGEND

- UST/Hazmat Sites
- Noise Monitoring Location
- I-71 Proposed Noise Wall (5-557)
- US 42 Proposed Noise Walls (5-804)
- Existing Right-Of-Way
- Ditch
- Intermittent Stream
- Ephemeral Stream
- Streams
- Wetlands (NWI)
- 100 Yr Flood Plain (FEMA)
- Known Summer 1 Indiana Northern Long-eared Bat Habitat
- Historic Property (LOJIC)
- National Register of Historic Places - Listed and Eligible
- Historic Landmark (LOJIC)
- Census Tracts 2010

DATA SOURCE: Esri, LOJIC, FEMA, KHC, USGS, USFWS, NRCS, KY GeoNet, Maxar 2019 Imagery, US Census Bureau

0 Feet 1,000

ENVIRONMENTAL CONSTRAINTS

I-71 / I-264 INTERCHANGE AREA

PATH: J:\KY\KYTC\D5\I71WIDENING\7.2_WORK_IN_PROGRESS\MAP_DOCS\DRAFT\WORKMAP_MCB_210111.MXD - USER: ASTOUT - DATE: 1/15/2021

Appendix A – Natural Resources Coordination

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Kentucky Ecological Services Field Office
J C Watts Federal Building, Room 265
330 West Broadway
Frankfort, KY 40601-8670
Phone: (502) 695-0468 Fax: (502) 695-1024
http://www.fws.gov/frankfort/

In Reply Refer To: August 12, 2020
Consultation Code: 04EK1000-2020-SLI-1635
Event Code: 04EK1000-2020-E-04557
Project Name: I-71 / I-264 Interchange Planning Study, KYTC Item 05-557.00

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

Your concern for the protection of endangered and threatened species is greatly appreciated. The purpose of the Endangered Species Act (ESA) of 1973, as amended (16 U.S.C. 1531 et seq.) (ESA) is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. The species list attached to this letter fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the ESA to provide information as to whether any proposed or listed species may be present in the area of a proposed action. This is not a concurrence letter; additional consultation with the Service may be required.

The Information in Your Species List:

The enclosed species list identifies federal trust species and critical habitat that may occur within the boundary that you entered into IPaC. For your species list to most accurately represent the species that may potentially be affected by the proposed project, the boundary that you input into IPaC should represent the entire “action area” of the proposed project by considering all the potential “effects of the action,” including potential direct, indirect, and cumulative effects, to federally-listed species or their critical habitat as defined in 50 CFR 402.02. This includes effects of any “interrelated actions” that are part of a larger action and depend on the larger action for their justification and “interdependent actions” that have no independent utility apart from the action under consideration (e.g.; utilities, access roads, etc.) and future actions that are reasonably certain to occur as a result of the proposed project (e.g.; development in response to a new road). If your project is likely to have significant indirect effects that extend well beyond the project footprint (e.g., long-term impacts to water quality), we highly recommend that you

coordinate with the Service early to appropriately define your action area and ensure that you are evaluating all the species that could potentially be affected.

We must advise you that our database is a compilation of collection records made available by various individuals and resource agencies available to the Service and may not be all-inclusive. This information is seldom based on comprehensive surveys of all potential habitats and, thus, does not necessarily provide conclusive evidence that species are present or absent at a specific locality. New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list.

Please note that “critical habitat” refers to specific areas identified as essential for the conservation of a species that have been designated by regulation. Critical habitat usually does not include all the habitat that the species is known to occupy or all the habitat that may be important to the species. Thus, even if your project area does not include critical habitat, the species on the list may still be present.

Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the ESA, the accuracy of this species list should be verified after 90 days. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and associated information. To re-access your project in IPaC, go to the IPaC web site (https://ecos.fws.gov/ipac/), select “Need an updated species list?”, and enter the consultation code on this letter.

ESA Obligations for Federal Projects:

Under sections 7(a)(1) and 7(a)(2) of the ESA and its implementing regulations (50 CFR 402 et seq.), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

If a Federal project (a project authorized, funded, or carried out by a federal agency) may affect federally-listed species or critical habitat, the Federal agency is required to consult with the Service under section 7 of the ESA, pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at: http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). Recommended contents of a Biological Assessment are described at 50 CFR 402.12. For projects other than major construction activities, the Service suggests that a biological evaluation

similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat.

ESA Obligations for Non-federal Projects:

Proposed projects that do not have a federal nexus (non-federal projects) are not subject to the obligation to consult under section 7 of the ESA. However, section 9 of the ESA prohibits certain activities that directly or indirectly affect federally-listed species. These prohibitions apply to all individuals subject to the jurisdiction of the United States. Non-federal project proponents can request technical assistance from the Service regarding recommendations on how to avoid and/or minimize impacts to listed species. The project proponent can choose to implement avoidance, minimization, and mitigation measures in a proposed project design to avoid ESA violations.

Additional Species-specific Information:

In addition to the species list, IPaC also provides general species-specific technical assistance that may be helpful when designing a project and evaluating potential impacts to species. To access this information from the IPaC site (https://ecos.fws.gov/ipac/), click on the text “My Projects” on the left of the black bar at the top of the screen (you will need to be logged into your account to do this). Click on the project name in the list of projects; then, click on the “Project Home” button that appears. Next, click on the “See Resources” button under the “Resources” heading. A list of species will appear on the screen. Directly above this list, on the right side, is a link that will take you to pdfs of the “Species Guidelines” available for species in your list. Alternatively, these documents and a link to the “ECOS species profile” can be accessed by clicking on an individual species in the online resource list.

Next Steps:

Requests for additional technical assistance or consultation from the Kentucky Field Office should be submitted following guidance on the following page http://www.fws.gov/frankfort/PreDevelopment.html and the document retrieved by clicking the “outline” link at that page. When submitting correspondence about your project to our office, please include the Consultation Tracking Number in the header of this letter. (There is no need to provide us with a copy of the IPaC-generated letter and species list.)

Attachment(s):

- Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Kentucky Ecological Services Field Office
J C Watts Federal Building, Room 265
330 West Broadway
Frankfort, KY 40601-8670
(502) 695-0468

Project Summary

Consultation Code: 04EK1000-2020-SLI-1635

Event Code: 04EK1000-2020-E-04557

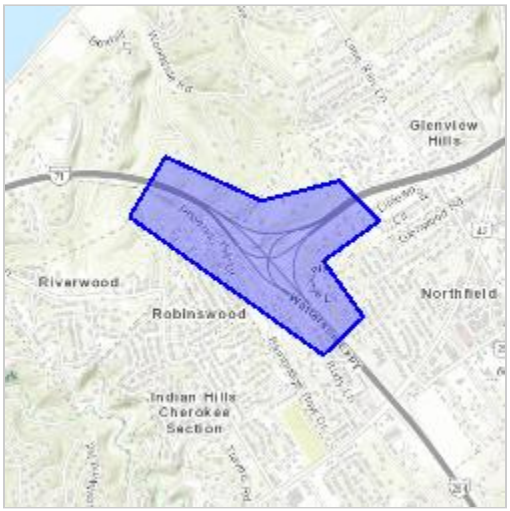
Project Name: I-71 / I-264 Interchange Planning Study, KYTC Item 05-557.00

Project Type: TRANSPORTATION

Project Description: Planning study for interchange improvements

Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/place/38.28874056218376N85.64688575337613W



Counties: Jefferson, KY

Endangered Species Act Species

There is a total of 14 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Note that 13 of these species should be considered only under certain conditions.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

---

1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME	STATUS

Gray Bat *Myotis grisescens* — Endangered

No critical habitat has been designated for this species.

This species only needs to be considered under the following conditions:

- The project area includes potential gray bat habitat.

Species profile: https://ecos.fws.gov/ecp/species/6329

General project design guidelines:
https://ecos.fws.gov/ipac/guideline/design/population/21/office/42431.pdf

Indiana Bat *Myotis sodalis* — Endangered

There is **final** critical habitat for this species. Your location is outside the critical habitat.

This species only needs to be considered under the following conditions:

- The project area includes known 'summer 1' habitat.

Species profile: https://ecos.fws.gov/ecp/species/5949

General project design guidelines:
https://ecos.fws.gov/ipac/guideline/design/population/1/office/42431.pdf

Northern Long-eared Bat *Myotis septentrionalis* — Threatened

No critical habitat has been designated for this species.

This species only needs to be considered under the following conditions:

- The specified area includes areas in which incidental take would not be prohibited under the 4(d) rule. For reporting purposes, please use the "streamlined consultation form," linked to in the "general project design guidelines" for the species.

Species profile: https://ecos.fws.gov/ecp/species/9045

General project design guidelines:
https://ecos.fws.gov/ipac/guideline/design/population/10043/office/42431.pdf

Clams

NAME	STATUS
Clubshell *Pleurobema clava*	Endangered

Population: Wherever found; Except where listed as Experimental Populations
No critical habitat has been designated for this species.
This species only needs to be considered under the following conditions:
- The species may be affected by projects that significantly impact, directly or indirectly, the following rivers: Barren, Green, Licking, or Ohio.

Species profile: https://ecos.fws.gov/ecp/species/3789
General project design guidelines:
https://ecos.fws.gov/ipac/guideline/design/population/352/office/42431.pdf

Fanshell *Cyprogenia stegaria* — Endangered

No critical habitat has been designated for this species.
This species only needs to be considered under the following conditions:
- The species may be affected by projects that significantly impact, directly or indirectly, the following rivers: Barren, Green, Licking, Ohio, Rolling Fork Salt, or Tennessee.

Species profile: https://ecos.fws.gov/ecp/species/4822
General project design guidelines:
https://ecos.fws.gov/ipac/guideline/design/population/368/office/42431.pdf

Northern Riffleshell *Epioblasma torulosa rangiana* — Endangered

No critical habitat has been designated for this species.
This species only needs to be considered under the following conditions:
- The species may be affected by projects that significantly impact, directly or indirectly, the following rivers: Green, Licking, or Ohio.

Species profile: https://ecos.fws.gov/ecp/species/527
General project design guidelines:
https://ecos.fws.gov/ipac/guideline/design/population/374/office/42431.pdf

Orangefoot Pimpleback (pearlymussel) *Plethobasus cooperianus* — Endangered

No critical habitat has been designated for this species.
This species only needs to be considered under the following conditions:
- The species may be affected by projects that significanlty impact, directly or indirectly, the following rivers: Green, Ohio, Salt, or Tennessee.

Species profile: https://ecos.fws.gov/ecp/species/1132
General project design guidelines:
https://ecos.fws.gov/ipac/guideline/design/population/340/office/42431.pdf

Purple Cat's Paw (=purple Cat's Paw Pearlymussel) *Epioblasma obliquata obliquata* — Endangered

Population: Wherever found; Except where listed as Experimental Populations
No critical habitat has been designated for this species.
This species only needs to be considered under the following conditions:
- The species may be affected by projects that significantly impact, directly or indirectly, the following rivers: Green, Licking, or Ohio.

Species profile: https://ecos.fws.gov/ecp/species/5602
General project design guidelines:
https://ecos.fws.gov/ipac/guideline/design/population/323/office/42431.pdf

NAME	STATUS

Rabbitsfoot *Quadrula cylindrica cylindrica* — Threatened

There is **final** critical habitat for this species. Your location is outside the critical habitat.

This species only needs to be considered under the following conditions:

- The species may be affected by projects that significantly impact, directly or indirectly, the following rivers: Barren, Cumberland (below the falls), Green, Ohio, Rolling Fork Salt, South Fork Kentucky, or Tennessee.

Species profile: https://ecos.fws.gov/ecp/species/5165

General project design guidelines:
https://ecos.fws.gov/ipac/guideline/design/population/3645/office/42431.pdf

Ring Pink (mussel) *Obovaria retusa* — Endangered

No critical habitat has been designated for this species.

This species only needs to be considered under the following conditions:

- The species may be affected by projects that significantly impact, directly or indirectly, the following rivers: Barren, Cumberland (below the falls), Green, Ohio, or Tennessee.

Species profile: https://ecos.fws.gov/ecp/species/4128

General project design guidelines:
https://ecos.fws.gov/ipac/guideline/design/population/341/office/42431.pdf

Rough Pigtoe *Pleurobema plenum* — Endangered

No critical habitat has been designated for this species.

This species only needs to be considered under the following conditions:

- The species may be affected by projects that significantly impact, directly or indirectly, the following rivers: Barren, Green, Licking, or Ohio.

Species profile: https://ecos.fws.gov/ecp/species/6894

General project design guidelines:
https://ecos.fws.gov/ipac/guideline/design/population/338/office/42431.pdf

Sheepnose Mussel *Plethobasus cyphyus* — Endangered

No critical habitat has been designated for this species.

This species only needs to be considered under the following conditions:

- The species may be affected by projects that significantly impact, directly or indirectly, the following rivers: Barren, Green, Kentucky, Licking, Ohio, Salt, or Tennessee.

Species profile: https://ecos.fws.gov/ecp/species/6903

General project design guidelines:
https://ecos.fws.gov/ipac/guideline/design/population/7816/office/42431.pdf

Spectaclecase (mussel) *Cumberlandia monodonta* — Endangered

No critical habitat has been designated for this species.

This species only needs to be considered under the following conditions:

- The species may be affected by projects that significantly impact, directly or indirectly, the following rivers: Barren, Cumberland (below the falls), Green, Little South Fork of the Cumberland, Ohio, or Tennessee.

Species profile: https://ecos.fws.gov/ecp/species/7867

General project design guidelines:
https://ecos.fws.gov/ipac/guideline/design/population/4490/office/42431.pdf

Flowering Plants

NAME	STATUS
Running Buffalo Clover *Trifolium stoloniferum*	Endangered

No critical habitat has been designated for this species.
Species profile: https://ecos.fws.gov/ecp/species/2529
Species survey guidelines:
https://ecos.fws.gov/ipac/guideline/survey/population/1041/office/42431.pdf
Habitat assessment guidelines:
https://ecos.fws.gov/ipac/guideline/assessment/population/1041/office/42431.pdf

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

ANDY BESHEAR
GOVERNOR

REBECCA W. GOODMAN
SECRETARY

ZEB WEESE
EXECUTIVE DIRECTOR

ENERGY AND ENVIRONMENT CABINET
OFFICE OF KENTUCKY NATURE PRESERVES

300 SOWER BOULEVARD
FRANKFORT, KENTUCKY 40601
TELEPHONE: 502-573-2886
TELEFAX: 502-564-7484

December 17, 2019

Rebecca Colvin
HDR Engineering, Inc.
2517 Sir Barton Way
Lexington, KY 40509

Project:	I-71 Widening - Zorn Avenue to I-265, KYTC Item 5-557.00; 10187955
Project ID:	20-0083
Project Type:	Standard (*customers will be invoiced), 1 mile buffer ($120 fee)
Site Acreage:	478.01
Site Lat/Lon:	38.291696 / -85.640369
County:	Jefferson
USGS Quad:	ANCHORAGE; JEFFERSONVILLE
Watershed HUC12:	Beargrass Creek; Lentzier Creek-Ohio River

Dear Rebecca Colvin,

This letter is in response to your data request for the project referenced above. We have reviewed our Natural Heritage Program Database to determine if any of the endangered, threatened, or special concern plants and animals or exemplary natural communities monitored by the Office of Kentucky Nature Preserves occur within your general project area. Your project does pose a concern at this time, therefore please see the attached reports for more detailed information.

I would like to take this opportunity to remind you of the terms of the data request license, which you agreed upon in order to submit your request. The license agreement states "Data and data products received from the Office of Kentucky Nature Preserves, including any portion thereof, may not be reproduced in any form or by any means without the express written authorization of the Office of Kentucky Nature Preserves." The exact location of plants, animals, and natural communities, if released by the Office of Kentucky Nature Preserves, may not be released in any document or correspondence. These products are provided on a temporary basis for the express project (described above) of the requester, and may not be redistributed, resold or copied without the written permission of the Biological Assessment Branch (300 Sower Blvd - 4th Floor, Frankfort, KY, 40601. Phone: 502-782-7828).

Please note that the quantity and quality of data collected by the Kentucky Natural Heritage Program are dependent

on the research and observations of many individuals and organizations. In most cases, this information is not the result of comprehensive or site-specific field surveys; many natural areas in Kentucky have never been thoroughly surveyed and new plants and animals are still being discovered. For these reasons, the Kentucky Natural Heritage Program cannot provide a definitive statement on the presence, absence, or condition of biological elements in any part of Kentucky. Heritage reports summarize the existing information known to the Kentucky Natural Heritage Program at the time of the request regarding the biological elements or locations in question. They should never be regarded as final statements on the elements or areas being considered, nor should they be substituted for on-site surveys required for environmental assessments. We would greatly appreciate receiving any pertinent information obtained as a result of on-site surveys.

If you have any questions, or if I can be of further assistance, please do not hesitate to contact me.

Sincerely,

Nour Salam
Geoprocessing Specialist

Standard Occurrence Report
KNP monitored species within 1 Miles of Project Area

EO ID	Scientific Name	Common Name	GRank	SRank	SPROT	USESA	STWG	Last Obs Date	Precision	EO Rank	Lat / Lon	Directions	Habitat
7234	*Alosa alabamae*	Alabama Shad	G2G3	S1	E	SOMC	Y	1987-pre	G	H	38.2509 / -85.8355	Ohio River at Louisville.	Anadromous species that ascends large rivers and tributaries to spawn over coarse sand and gravel swept by moderate current (Pflieger 1975, Smith 1979, Burr and Warren 1986, Barkuloo et al. 1993, Etnier and Starnes 1993).
16248	*Arabidopsis lyrata ssp. lyrata*	Lyre-leaf Rockcress	G5	S1S2	E						38.1872 / -85.6598	"Edge of woods near Louisville"	
21129	*Cave*		GU	SNR	N			No Date	S	E		Sensitive Element - Contact KSS at ksscaves.com	
21140	*Cave*		GU	SNR	N			No Date	S	E		Sensitive Element - Contact KSS at ksscaves.com	
4410	*Centronyx henslowii*	Henslow's Sparrow	G4	S3B	S	SOMC	Y	1997-08-11	M	E	38.3268 / -85.5978	At the jct of Chamberlain Lane and Brownsboro Road nr Sleepy Hollow (001A); ca 1.0 mi W of Sleepy Hollow Bridge (001B); Chamberlain Lane, N of Wolf Pen Branch Road (001C); nr Worthington (001D); E side of Schuler Lane, w/in 0.5 mi of jct Brownsboro Road (	Open fields & meadows with relatively thick/dense grass interspersed with weeds or shrubby vegetation.
8425	*Cyprogenia stegaria*	Fanshell	G1Q	S1	E	LE	Y	No Date	G	X	38.217 / -85.857	Ohio River at Louisville.	Medium to large streams and rivers with moderate to strong current in coarse sand and gravel and depth ranging from shallow to deep (Goodrich and Van Der Schalie 1944, Neel and Allen 1964, Parmalee 1967, Johnson 1980, Gordon and Layzer 1989).
10580	*Cyprogenia stegaria*	Fanshell	G1Q	S1	E	LE	Y	No Date	G	E	38.4396 / -85.6011	OHIO RIVER, ALONG INDIANA BORDER.	Medium to large streams and rivers with moderate to strong current in coarse sand and gravel and depth ranging from shallow to deep (Goodrich and Van Der Schalie 1944, Neel and Allen 1964, Parmalee 1967, Johnson 1980, Gordon and

Standard Occurrence Report
KNP monitored species within 1 Miles of Project Area

EO ID	Scientific Name	Common Name	GRank	SRank	SPROT	USESA	STWG	Last Obs Date	Precision	EO Rank	Lat / Lon	Directions	Habitat
													Layzer 1989).
6490	*Epioblasma obliquata*	Catspaw	G1	S1	E	LE,XN	Y	No Date	G	E	38.4396 / -85.6011	OHIO RIVER, ALONG INDIANA BORDER.	
5690	*Faxonius jeffersoni*	Louisville Crayfish	G1	S1	E	SOMC	Y	Pre-1967	G	E	38.2114 / -85.8655	CONFINED TO SOUTH SHORE OF OHIO RIVER, BULLITT AND JEFFERSON COUNTIES.	Flat cobble and boulder strewn streams; in bedrock streams it is dependent on fissures and cracks. In pools, large substrates are needed. It also uses trash and manmade retaining wall (Couch, personal communication, 2009). One of the overall limiting f
9880	*Faxonius jeffersoni*	Louisville Crayfish	G1	S1	E	SOMC	Y	2000-06-13	S	C	38.3092 / -85.6317	GOOSE CREEK CA 1.2 AIR MI SE OF OHIO RIVER CONFLUENCE.	Flat cobble and boulder strewn streams; in bedrock streams it is dependent on fissures and cracks. In pools, large substrates are needed. It also uses trash and manmade retaining wall (Couch, personal communication, 2009). One of the overall limiting f
10001	*Faxonius jeffersoni*	Louisville Crayfish	G1	S1	E	SOMC	Y	1976-10-21	M	H	38.2723 / -85.6675	Tributary to Muddy Fork of Beargrass Creek, 1 mi E of Louisville. (On US 42 at Hubbards Lane). Location Note: US-42 at Hubbards Lane is at mainstem Muddy Fork Beargrass Creek, not a trib; originally mapped at (381607N 853931W) location is on trib, 0.3 mi	Flat cobble and boulder strewn streams; in bedrock streams it is dependent on fissures and cracks. In pools, large substrates are needed. It also uses trash and manmade retaining wall (Couch, personal communication, 2009). One of the overall limiting f
13139	*Faxonius jeffersoni*	Louisville Crayfish	G1	S1	E	SOMC	Y	2007-05	S	C	38.2742 / -85.6967	Muddy Fork Beargrass Creek, Jefferson County: between Mellwood Avenue and I-71, 1.35 km NW of Mockingbird Valley	Flat cobble and boulder strewn streams; in bedrock streams it is dependent on fissures and cracks. In pools, large substrates are needed. It also uses trash and manmade retaining wall (Couch, personal communication, 2009). One of the overall limiting f
13149	*Faxonius jeffersoni*	Louisville Crayfish	G1	S1	E	SOMC	Y	2007 or 2008	G	BC	38.3286 / -85.59	Wolf Pen Branch, Jefferson County	Flat cobble and boulder strewn streams; in bedrock streams it is dependent on fissures and cracks. In

EO ID	Scientific Name	Common Name	GRank	SRank	SPROT	USESA	STWG	Last Obs Date	Precision	EO Rank	Lat / Lon	Directions	Habitat
													pools, large substrates are needed. It also uses trash and manmade retaining wall (Couch, personal communication, 2009). One of the overall limiting f
1455	*Ixobrychus exilis*	Least Bittern	G4G5	S1S2B	T		Y	1935-05-20	M	X	38.2881 / -85.6778	Caperton Swamp, just NE of Louisville.	Tall vegetation in marshes, primarily freshwater, less commonly in coastal brackish marshes and mangrove swamps. Preference for marshes with scattered bushes or other woody growth. Infrequently in marshes
2636	*Lampsilis abrupta*	Pink Mucket	G2	S1	E	LE	Y	No Date	G	X	38.217 / -85.857	Ohio River at Louisville.	Large rivers in habitats ranging from silt to boulders, but apparently more commonly from gravel and cobble. Collected from shallow and deep water with current velocity ranging from zero to swift (Ahlstedt 1983, Bogan and Parmalee 1983, Buchanan 1980), bu
15543	*Lanius ludovicianus*	Loggerhead Shrike	G4	S3S4B,S4N	S	SOMC	Y	1940-12-23	S	NR	38.2923 / -85.5825	Goose Creek Rd in Jefferson Co., KY	
15544	*Lanius ludovicianus*	Loggerhead Shrike	G4	S3S4B,S4N	S	SOMC	Y	1942-06-10	S	NR	38.3156 / -85.5616	Near Worthington, Jefferson Co.	
9174	*Lophodytes cucullatus*	Hooded Merganser	G5	S2B,S3S4N	T		Y	2007-05-13	M	BC	38.2881 / -85.6778	Caperton Swamp just E of Louisville; approx 300 yards from the Ohio River, and unmapped location listed as Louisville fresh marsh [interpretted to be Caperton Swamp].	Streams, lakes, swamps, marshes, and estuaries; winters mostly in freshwater but also regularly in estuaries and sheltered bays (B83COM01NA).
2942	*Myotis grisescens*	Gray Myotis	G4	S2	T	LE	Y	2000-07-20	S	E	38.3169 / -85.6417	Goose Creek, ca 1.2 air mi SE of its confl w/ Ohio River [N of end of Orion Road] (072A) and Goose Creek at Little Goose Creek (072B).	Primarily use caves throughout the year, although they move from one cave to another seasonally. Males and young of the year use different caves in summer than females. Smaller colonies also occasionally roost under bridge structures.

Standard Occurrence Report
KNP monitored species within 1 Miles of Project Area

EO ID	Scientific Name	Common Name	GRank	SRank	SPROT	USESA	STWG	Last Obs Date	Precision	EO Rank	Lat / Lon	Directions	Habitat
4591	*Myotis sodalis*	Indiana Bat	G2	S1S2	E	LE	Y	1999-07-28	S	E	38.3092 / -85.6325	Goose Creek at Little Goose Creek (143A) and Goose Creek at Orion Rd (143B).	Primarily use caves for hibernacula, although they are occasionally found in old mine portals. During summer, colonies are found behind slabs of exfoliating bark of dead trees, often in bottomland or floodplain habitats, but also in upland situations.
10111	*Myotis sodalis*	Indiana Bat	G2	S1S2	E	LE	Y	1991-07-17	S	NR	38.2956 / -85.6561	Tributary to the Ohio River, off Woodside Rd ca 0.75 air mi S of its jct w/ River Rd.	Primarily use caves for hibernacula, although they are occasionally found in old mine portals. During summer, colonies are found behind slabs of exfoliating bark of dead trees, often in bottomland or floodplain habitats, but also in upland situations.
6566	*Nicrophorus americanus*	American Burying Beetle	G3	SX	X	LE		1926-09-13	C	X	38.1842 / -85.6585	LOUISVILLE. AVOCA.	American burying beetles have been found in a variety of habitats, but the preferred habitat may be mature forests. Carrion availability, especially the appropriate physical size of carrion, in a given area is suspected to be more important than vegetati
5575	*Nyctanassa violacea*	Yellow-crowned Night-heron	G5	S2B	T		Y	1955-06-14	M	X	38.2881 / -85.6778	Near Caperton Swamp, Louisville.	Marshes, swamps, lakes, lagoons, and mangroves.
4044	*Nycticorax nycticorax*	Black-crowned Night-heron	G5	S1S2B	T		Y	1948	M	X	38.3101 / -85.6662	Six-Mile Island upstream from Louisville.	Marshes, swamps, wooded streams, mangroves, shores of lakes, ponds, lagoons; salt water, brackish, and freshwater situations.
17204	*Nycticorax nycticorax*	Black-crowned Night-heron	G5	S1S2B	T		Y	2019-08-10	S	E	38.2903 / -85.6810	Approximately 25 m Southeast of River Rd from about 0.1 mi Northeast on River Rd from intersection with Indian Hills Trail.	Marshes, swamps, wooded streams, mangroves, shores of lakes, ponds, lagoons; salt water, brackish, and freshwater situations.
3642	*Obovaria retusa*	Ring Pink	G1	S1	E	LE	Y	No Date	G	E	38.4396 / -85.6011	OHIO RIVER, ALONG INDIANA BORDER.	Large river species that inhabits gravel and sand bars (Bogan and Parmalee 1983, Goodrich and Van Der Schalie 1944, Neel and

EO ID	Scientific Name	Common Name	GRank	SRank	SPROT	USESA	STWG	Last Obs Date	Precision	EO Rank	Lat / Lon	Directions	Habitat
													Allen 1964, Stansbery 1976).
8834	*Obovaria retusa*	Ring Pink	G1	S1	E	LE	Y	No Date	G	X	38.217 / -85.857	Ohio River at Louisville.	Large river species that inhabits gravel and sand bars (Bogan and Parmalee 1983, Goodrich and Van Der Schalie 1944, Neel and Allen 1964, Stansbery 1976).
8935	*Peucaea aestivalis*	Bachman's Sparrow	G3	S1B	E	SOMC	Y	1948-04-10	M	X	38.2708 / -85.6639	Indian Hills, just E of Louisville.	Early successional areas with scattered saplings (often pines), bushes, or understory, brushy or overgrown hillsides, overgrown fields with thickets and brambles.
862	*Pleurobema clava*	Clubshell	G1G2	S1	E	LE	Y	No Date	G	E	38.4396 / -85.6011	OHIO RIVER, ALONG INDIANA BORDER.	This species is an inhabitant of small streams and rivers (Goodrich and Van Der Schalie 1944; Ortmann 1919,1925), although in Kentucky it is known from moderately large rivers. Often deeply buried in the substrate and consequently difficult to find (Watte
884	*Pleurobema clava*	Clubshell	G1G2	S1	E	LE	Y	1966-06-02	G	H	38.217 / -85.857	Ohio River at Louisville.	This species is an inhabitant of small streams and rivers (Goodrich and Van Der Schalie 1944; Ortmann 1919,1925), although in Kentucky it is known from moderately large rivers. Often deeply buried in the substrate and consequently difficult to find (Watte
5001	*Pleurobema rubrum*	Pyramid Pigtoe	G2G3	S1	E	SOMC	Y	1966-06-02	G	X	38.217 / -85.857	Ohio River at Louisville.	Inhabits medium to large rivers and usually occurs in sand or gravel bottoms in deep waters (Ahlstedt 1984, Murray and Leonard 1962, Parmalee et al. 1982).
5064	*Podilymbus podiceps*	Pied-billed Grebe	G5	S1B,S4N	E		Y	1935-05-20	M	X	38.2881 / -85.6778	Caperton Swamp, just NE of Louisville.	Lakes, ponds, sluggish streams, and marshes; also in brackish bays and estuaries in migration and when not breeding.

Standard Occurrence Report
KNP monitored species within 1 Miles of Project Area

EO ID	Scientific Name	Common Name	GRank	SRank	SPROT	USESA	STWG	Last Obs Date	Precision	EO Rank	Lat / Lon	Directions	Habitat
1175	*Potamilus capax*	Fat Pocketbook	G2	S2	T	LE	Y	1988-04-14-pre	G	H	38.2904 / -85.6887	(Ohio River) at Jeffersonville, Ind.	Occurs in medium to large-sized rivers often around island and back channels, and sometimes in ditches, in mud (ooze); mixed sand, mud, and clay; or fine silt and mud in flowing water at depths of a few inches up to eight feet (Parmalee 1967, Ahlstedt and
5812	*Rallus elegans*	King Rail	G4	S1B	E		Y	1931-05-24	M	X	38.2881 / -85.6778	Caperton Swamp, just NE of Louisville.	Freshwater marshes and swamps, locally in brackish marshes.
6375	*Riparia riparia*	Bank Swallow	G5	S3B	S		Y	1942-07-12	M	X	38.3101 / -85.6662	Bank of Six-Mile Island in Ohio River.	Open and partly open situations, frequently near flowing water (B83COM01NA).
7464	*Spatula discors*	Blue-winged Teal	G5	S1S2B	T			1939	M	X	38.2881 / -85.6778	Small bottomland swamp just E of Louisville [Capterton Swamp].	Marshes, ponds, sloughs, lakes and sluggish streams. In migration and when not breeding, in both freshwater and brackish situations (B83COM01NA).
3566	*Speyeria idalia*	Regal Fritillary	G3?	SX	X	SOMC		1954-07-25	C	X	38.1888 / -85.6764	LOUISVILLE. [Jefferson County]	Tall-grass prairie in midwest, but is found in other open grassy situations elsewhere. Damp meadows or pastures with boggy or marshy areas in the east, but dry mountain pastures are also selected in some areas. It is restricted to the Upper Austral and Tr
1373	*Thryomanes bewickii*	Bewick's Wren	G5	SHB	H	SOMC	Y	1975-05-06	M	H	38.2845 / -85.6655	Starmont Road, E Louisville, Jefferson Co.	Brushy areas, thickets and scrub in open country, open and riparian woodland. Found in rural towns and farmsteads.
11616	*Trifolium stoloniferum*	Running Buffalo Clover	G3	S2S3	T	LE		2012-05-24	S	C	38.2939 / -85.6446	Plts are in old road bed off of Glenview Ave which is accessed from River Rd.	Old trails, traces, and roads; grazed bottomlands, streambanks, lawns, shoals, and cemeteries with native vegetation, prairies, well-drained and mesic soils, and filtered to partial light.
2894	*Tyto alba*	Barn Owl	G5	S3	S		Y	1953-08-14	M	H	38.2626 / -85.5308	Nr Worthington (023B) and at Anchorage (023A).	Open and partly open country in a wide variety of situations, often around

Standard Occurrence Report
KNP monitored species within 1 Miles of Project Area

EO ID	Scientific Name	Common Name	GRank	SRank	SPROT	USESA	STWG	Last Obs Date	Precision	EO Rank	Lat / Lon	Directions	Habitat
													human habitation (B83COM01NA). In northern winter often roosts in dense conifers; also roosts in nest boxes if available (A85MAR01NA).
7055	*Vallisneria americana*	Eelgrass	G5	S2S3	S			1995-09-04	S	D	38.2875 / -85.6875	OHIO RIVER AT COX PARK ALONG THE SHORE.	Shallow quiet waters and shores.

Managed Areas within 1 Miles of Project Area

MA ID	Managed Area Name	Unit Type	Owner Name	Managing Institution
718	*Blankenbaker Corner*	Private Preserve	River Fields, Inc.	River Fields, Inc.
723	*Caperton Shoreline*	Private Preserve	River Fields, Inc.	River Fields, Inc.
676	*Caperton Swamp*	Local Park/Preserve	Louisville Metro Government	Louisville Metro Parks
701	*Clifton Heights*	Local Park/Preserve	Louisville Metro Government	Louisville Metro Parks
740	*LeMaster/Signature*	Private Preserve	River Fields, Inc.	River Fields, Inc.
708	*Locust Grove*	Historic Site	Louisville Metro Government	Louisville Metro Parks
750	*Mockingbird Corner*	Private Preserve	River Fields, Inc.	River Fields, Inc.
753	*Ramada Inn*	Private Preserve	River Fields, Inc.	River Fields, Inc.
336	*Six Mile Island State Nature Preserve*	State Nature Preserve	Office of Kentucky Nature Preserves	Office of Kentucky Nature Preserves
409	*Surrey Hills Woods Registered Natural Area*	Registered Natural Area	Private Individual	
694	*Twin Park*	Local Park/Preserve	Louisville Metro Government	Louisville Metro Parks
508	*Wolf Pen Branch Mill Farm*	Private Preserve	River Fields, Inc.	River Fields, Inc.

Areas of Significant Biodiversity within 1 Miles of Project Area

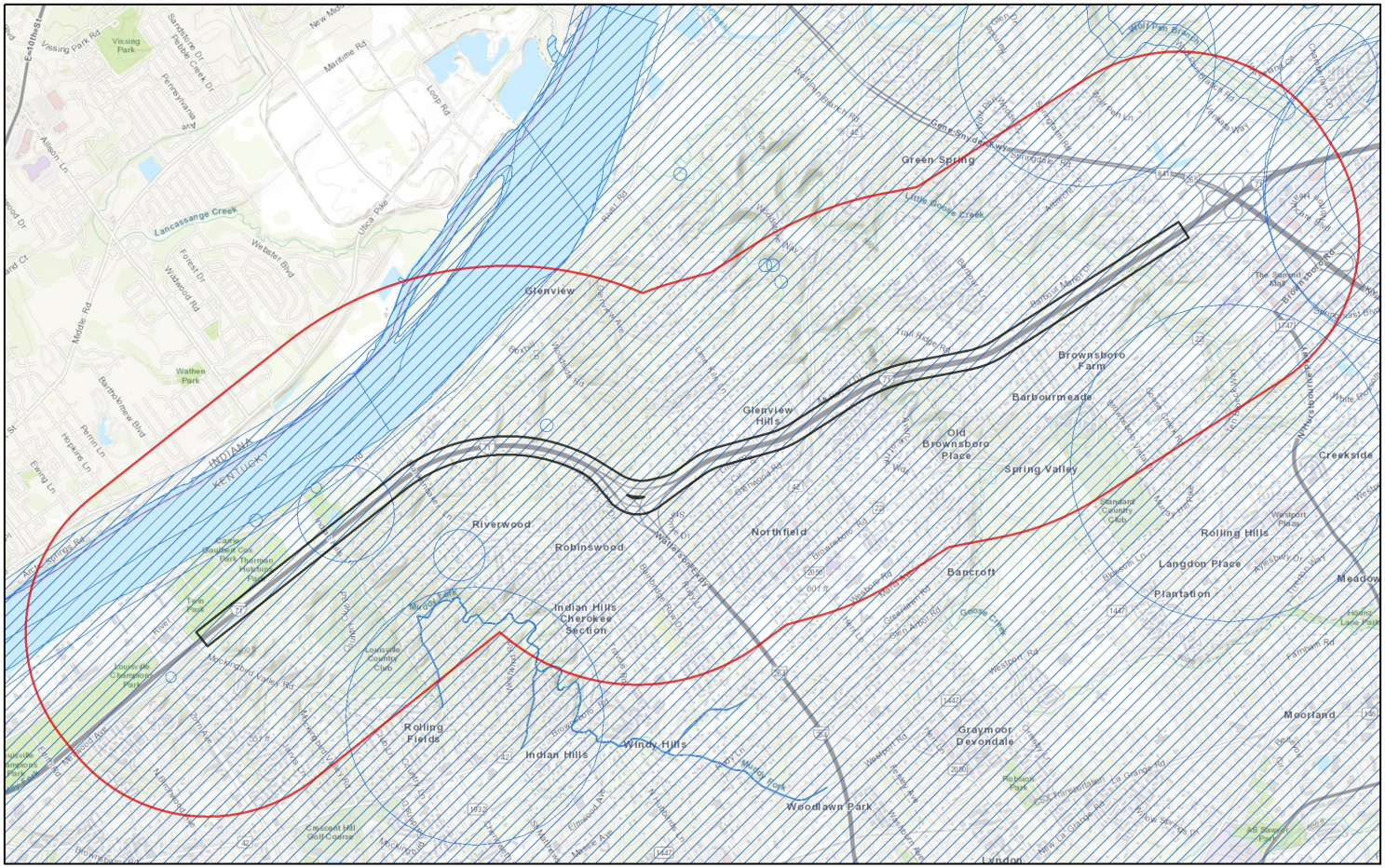
Site ID	Site Name
101	*Six-mile Island*
467	*Surrey Hills Woods*

Bat Habitats within 1 Miles of Project Area

Habitat	Species	USFWS
OUTER-TIER	*M. sodalis*	*Contact USFWS at (502) 695-0468 or KentuckyES@fws.gov*
SUMMER 1	*M. septentrionalis*	*Contact USFWS at (502) 695-0468 or KentuckyES@fws.gov*
SUMMER 1	*M. sodalis*	*Contact USFWS at (502) 695-0468 or KentuckyES@fws.gov*

THESE DATA ARE VALID ONLY ON THE DATE ON WHICH THE REPORT WAS GENERATED.
THESE DATA MAY ONLY BE USED FOR THE PROJECT NAMED ABOVE.

I-71 Widening - Zorn Avenue to I-265, KYTC Item 5-557.00



December 17, 2019

- Project Boundary
- Buffered Project Boundary
- Element Occurences

1:51,130

0 0.425 0.85 1.7 mi

0 0.5 1 2 km

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri

Appendix B – EDR Database Search

I- 71 Widening Zorn Ave to I-265
I-71 Widening Zorn Ave to I-265
Louisville, KY 40222

Inquiry Number: 5862144.5s
November 15, 2019

EDR Area / Corridor Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION	PAGE
Executive Summary	ES1
Mapped Sites Summary	2
Key Map	4
Map Findings Summary	5
Focus Maps	9
Map Findings	47
Orphan Summary	OR-1
Government Records Searched/Data Currency Tracking	GR-1

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2019 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

SUBJECT PROPERTY INFORMATION

ADDRESS

I-71 WIDENING ZORN AVE TO I-265
LOUISVILLE, KY 40222

TARGET PROPERTY SEARCH RESULTS

The Target Property was identified in the following databases.

Page Numbers and Map Identifcations refer to the EDR Area/Corridor Report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS list

SEMS: Superfund Enterprise Management System

A review of the SEMS list, as provided by EDR, and dated 07/19/2019 has revealed that there is 1 SEMS site within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
BS XPRESS DIAZINON S	***INTERSECTION OF I-71***	***B5 / 8***	***48***
Site ID: 0407635			
EPA Id: KYN000407635			

Federal ERNS list

ERNS: Emergency Response Notification System

A review of the ERNS list, as provided by EDR, and dated 09/09/2019 has revealed that there are 2 ERNS sites within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
Not reported	I-71 SOUTHBOUND AT K	B6 / 8	50
Not reported	2402 FALLSVIEW RD	O61 / 12	87
Incident Date Time: 1996-05-09 18:35:00			
NRC Report #: 340616			

State- and tribal - equivalent CERCLIS

KY SHWS: State Leads List

A review of the KY SHWS list, as provided by EDR, and dated 09/23/2019 has revealed that there are 5 KY SHWS sites within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
BS EXPRESS DIAZINON Facility Id: 55593 Facility Status: Closed	I-71 AT I-265	4 / 8	48
JONES ASSOCIATES Facility Id: 52663 Facility Status: Closed	4501 SPRINGDALE RD	H24 / 8	62
PETROLEUM EXPRESS 11 Facility Id: 109075 Facility Status: Closed	I-71 N MM4	48 / 12	81
MS CARRIERS CATHODE Facility Id: 126254 Facility Status: Closed	JUNCTION OF I-71 S A	N55 / 13	84
STATEWIDE TRANSPORT Facility Id: 52937 Facility Status: Closed	I-71 & I-264	56 / 13	84

ADDITIONAL ENVIRONMENTAL RECORDS

Records of Emergency Release Reports

KY SPILLS: State spills

A review of the KY SPILLS list, as provided by EDR, and dated 08/13/2019 has revealed that there are 19 KY SPILLS sites within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
Not reported Facility Status: Env. Closed Inc ID: 187878		A1 / 8	46
Not reported Facility Status: Env. Closed Inc ID: 185389		A2 / 8	46
Not reported Facility Status: Env. Closed Inc ID: 2260489		A3 / 8	47
Not reported Facility Status: Env. Closed Inc ID: 2251675		B9 / 8	51
Not reported Facility Status: Env. Closed		10 / 8	52

Inc ID: 200584		
Not reported Facility Status: Env. Closed Inc ID: 2338017	E16 / 8	57
Not reported Facility Status: Env. Closed Inc ID: 2336457	E17 / 8	58
Not reported Facility Status: Env. Closed Inc ID: 2296180	28 / 8	64
Not reported Facility Status: Env. Closed Inc ID: 184914	29 / 8	64
Not reported Facility Status: Referred to Program Inc ID: 2365055	30 / 7	65
Not reported Facility Status: Env. Closed Inc ID: 197884	31 / 8	66
Not reported Facility Status: Env. Closed Inc ID: 175356	39 / 6	76
Not reported Facility Status: Env. Closed Inc ID: 2332018	40 / 13	76
Not reported Facility Status: Env. Closed Inc ID: 2348113	51 / 12	82
Not reported Facility Status: Env. Closed Inc ID: 2301545	52 / 13	82
Not reported Facility Status: Env. Closed Inc ID: 2332315	N58 / 13	85
Not reported Facility Status: Env. Closed Inc ID: 2252143	N59 / 13	86
Not reported Facility Status: Env. Closed Inc ID: 2267484	60 / 11	86
Not reported Facility Status: Env. Closed Inc ID: 2357063	66 / 17	90

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 06/24/2019 has revealed that there are 2 RCRA NonGen / NLR sites within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
NORTON BROWNSBORO HO EPA ID:: KYR000050575	4950 NORTON HEALTHCA	D14 / 8	55
BEECH SPRING FARM EPA ID:: KYD985113760	***3600 BARBOUR LANE***	***J36 / 7***	***72***

PRP: Potentially Responsible Parties

A review of the PRP list, as provided by EDR, and dated 08/20/2019 has revealed that there is 1 PRP site within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
BS XPRESS DIAZINON S	***INTERSECTION OF I-71***	***B5 / 8***	***48***

ICIS: Integrated Compliance Information System

A review of the ICIS list, as provided by EDR, and dated 11/18/2016 has revealed that there is 1 ICIS site within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
***DIAZINON SPILL (*** FRS ID:: 110015759357	***EXIT 9A OF I-71***	***K38 / 7***	***75***

FINDS: Facility Index System/Facility Registry System

A review of the FINDS list, as provided by EDR, and dated 05/03/2019 has revealed that there are 20 FINDS sites within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
SPRINGDALE BAPTIST C Registry ID:: 110045030257	4601 SPRINGDALE RD	C7 / 8	50
NORTON HEATHCARE Registry ID:: 110045163283	4950 NORTON HEALTHCA	D11 / 8	52
NORTON BROWNSBORO HO Registry ID:: 110037482088 Registry ID:: 110070226671	***4950 NORTON HEALTHCA***	***D13 / 8***	***54***
J ROBERT WESTERMAN R Registry ID:: 110045043902	8507 RUNNING SPRING	18 / 8	58
US WORLDMEDS HEADQUA Registry ID:: 110056146308	***4441 SPRINGDALE RD***	***G22 / 8***	***61***
JONES ASSOCIATES	4501 SPRINGDALE RD	H23 / 8	62

Registry ID:: 110045098853			
REBECCA JONES RESID Registry ID:: 110045301687	8302 RUNNING SPRING	I27 / 7	63
BETZ SPECIALITY & CU Registry ID:: 110038284629	3504 TRAIL RIDGE RD	32 / 7	66
BEECH SPRING FARM Registry ID:: 110003242615 Registry ID:: 110055633925	***3600 BARBOUR LANE***	***J36 / 7***	***72***
DIAZINON SPILL (Registry ID:: 110015759357	***EXIT 9A OF I-71***	***K38 / 7***	***75***
GLENVIEW TRUST Registry ID:: 110070159154	***5900 US 42***	***L41 / 13***	***77***
CHARLIE & ELISE BROW Registry ID:: 110045181030	2702 POPLAR HILL CT	43 / 12	78
GLENVIEW PARK SECTIO Registry ID:: 110045306717	***GLENVIEW AVE & CABIN***	***M44 / 13***	***79***
GLENVIEW PARK SECTIO Registry ID:: 110043247974	GLENVIEW AVE & CABIN	M46 / 13	80
SUNRISE ASSISTED LIV Registry ID:: 110045251954	6700 OVERLOOK DR	47 / 13	80
Not reported Registry ID:: 110020910460	LIME KILN RD. UND. G	50 / 13	81
WINDING CREEK SUBD Registry ID:: 110045090842	PHOENIX HILL DR	53 / 12	83
JAMES DERRICK ADAMS Registry ID:: 110045070016	4205 RIVIERA DR	54 / 12	83
J KINGSLEY STRATTON Registry ID:: 110045020044	2401 FALLSVIEW RD	O57 / 12	85
I 71 - JEFFERSON CO Registry ID:: 110044901194	***I-71***	***P64 / 11***	***88***

ECHO: Enforcement & Compliance History Information

A review of the ECHO list, as provided by EDR, and dated 07/06/2019 has revealed that there are 8 ECHO sites within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
NORTON BROWNSBORO HO Registry ID: 110037482088	***4950 NORTON HEALTHCA***	***D13 / 8***	***54***
NORTONS BROWNSBORO H Registry ID: 110070226671	4950 NORTON HEALTHCA	D15 / 8	57
US WORLDMEDS HEADQUA Registry ID: 110056146308	***4441 SPRINGDALE RD***	***G22 / 8***	***61***
BEECH SPRING FARM Registry ID: 110055633925 Registry ID: 110003242615	***3600 BARBOUR LANE***	***J36 / 7***	***72***
DIAZINON SPILL (BS X	EXIT 9A OF I-71	K37 / 7	74

Registry ID: 110015759357			
GLENVIEW TRUST	***5900 US 42***	***L41 / 13***	***77***
Registry ID: 110070159154			
GLENVIEW PARK SECTIO	***GLENVIEW AVE & CABIN***	***M44 / 13***	***79***
Registry ID: 110043247974			
I 71 - JEFFERSON CO	***I-71***	***P64 / 11***	***88***
Registry ID: 110044901194			

KY LEAD: Environmental Lead Program Report Tracking Database

A review of the KY LEAD list, as provided by EDR, and dated 01/27/2017 has revealed that there is 1 KY LEAD site within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
Not reported Facility Id: 765	6406 GLENWOOD ROAD	49 / 13	81

KY NPDES: Permitted Facility Listing

A review of the KY NPDES list, as provided by EDR, and dated 09/04/2019 has revealed that there are 13 KY NPDES sites within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
SPRINGDALE CHURCH Facility Status: INACTIVE KY DES #: KYR105597	4601 SPRINGDALE RD	C8 / 8	50
NORTON BROWNSBORO HO Facility Status: INACTIVE Facility Status: Effective KY DES #: KYR109389 KY DES #: KYR10M476	4950 NORTON HEALTHCA	D12 / 8	53
STETTEN RESIDENCE Facility Status: INACTIVE KY DES #: KYG400207	4512 OLD SPRINGDALE	F19 / 8	59
SUMMIT RIDGE Facility Status: INACTIVE KY DES #: KYR105185	4508 SPRINGDALE RD	F20 / 8	59
US WORLDMEDS HEADQUA Facility Status: Terminated KY DES #: KYR10H791	4441 SPRINGDALE RD	G21 / 8	60
JONES RESIDENCE Facility Status: INACTIVE KY DES #: KYG402071	8302 RUNNING SPRING	I26 / 7	63
BEECH SPRING FARM SU Facility Status: Terminated KY DES #: KYR10G940	3600 BARBOUR LN	J33 / 7	67
BEECH SPRING FARM SE Facility Status: INACTIVE	3600 BARBOUR LN	J34 / 7	67

Facility Status: ACTIVE
KY DES #: KYR106718
KY DES #: KYR107158
KY DES #: KYR107782
KY DES #: KYR108070
KY DES #: KYR108931
**Additional key fields are available in the Map Findings section*

OVERLOOK AT BEECH SP Facility Status: Terminated KY DES #: KYR10H724	3600 BARBOUR LN	J35 / 7	72
GLENVIEW TRUST Facility Status: Effective KY DES #: KYR10M098	5900 US 42	L42 / 13	77
GLENVIEW PARK SECTIO Facility Status: ACTIVE KY DES #: KYR10F404	GLENVIEW AVE & CABIN	M45 / 13	79
I 71 - JEFFERSON CO Facility Status: Terminated KY DES #: KYR10F904	I-71	P63 / 11	87
RECONSTRUCTION OF TH Facility Status: Terminated KY DES #: KYR10K149	I-71	P65 / 11	89

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Auto: EDR Exclusive Historical Auto Stations

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there is 1 EDR Hist Auto site within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
RED BALL TRANSMISSIO	2400 PHOENIX HILL DR	62 / 12	87

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

KY RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

A review of the KY RGA HWS list, as provided by EDR, has revealed that there is 1 KY RGA HWS site within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
JONES ASSOCIATES	4501 SPRINGDALE RD	H25 / 8	62

EXECUTIVE SUMMARY

Facility ID: 52663

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Page Numbers and Map Identifcations refer to the EDR Area/Corridor Report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

A review of the SEMS-ARCHIVE list, as provided by EDR, and dated 07/19/2019 has revealed that there is 1 SEMS-ARCHIVE site within approximately 0.5 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
LOUISVILLE VETERANS	***800 ZORN AVENUE***	***SSE 1/8 - 1/4 (0.176 mi.)***	***W88 / 17***	***123***

Federal RCRA generators list

RCRA-SQG: RCRA - Small Quantity Generators

A review of the RCRA-SQG list, as provided by EDR, and dated 06/24/2019 has revealed that there are 3 RCRA-SQG sites within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
COSTCO WHOLESALE #63 EPA ID:: KYR000044735	5020 NORTON HEALTHCA	SSE 0 - 1/8 (0.003 mi.)	Q67 / 8	90
LOWE'S OF N.E. LOUIS EPA ID:: KYR000049577	4930 NORTON HEALTHCA	SSE 0 - 1/8 (0.040 mi.)	S74 / 8	105
LOUISVILLE VETERANS EPA ID:: KY0360090005	***800 ZORN AVENUE***	***SSE 1/8 - 1/4 (0.176 mi.)***	***W88 / 17***	***123***

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

A review of the RCRA-VSQG list, as provided by EDR, and dated 06/24/2019 has revealed that there is 1 RCRA-VSQG site within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
CABELA'S LOUISVILLE EPA ID:: KYR000058180	5100 NORTON HEALTHCA	SSE 1/8 - 1/4 (0.161 mi.)	V86 / 8	120

State- and tribal - equivalent CERCLIS

KY SHWS: State Leads List

A review of the KY SHWS list, as provided by EDR, and dated 09/23/2019 has revealed that there are 22 KY SHWS sites within approximately1 mile of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
TRANSCORP INTERNATIO Facility Id: 130921 Facility Status: Closed	I-264 WB AND I-71 SB	SSE 0 - 1/8 (0.067 mi.)	76 / 13	108
VA HOSPITAL Facility Id: 2250 Facility Status: Closed	***800 ZORN AVE***	***SSE 1/8 - 1/4 (0.176 mi.)***	***W90 / 17***	***161***
FLOOD OF 1997 Facility Id: 53144 Facility Status: Closed	RIVER RD	NNW 1/8 - 1/4 (0.230 mi.)	93 / 12	171
MILLIE ANN JOHNSON P Facility Id: 52948 Facility Status: Closed	5119 DUNVEGAN ROAD	NNW 1/4 - 1/2 (0.250 mi.)	95 / 6	173
OLD BROWNSBORO CROSS Facility Id: 46537 Facility Status: Closed	***9607 BROWNSBORO RD***	***SSE 1/4 - 1/2 (0.370 mi.)***	***97 / 8***	***176***
KITTYS PRODUCE Facility Id: 52788 Facility Status: Closed	8708 BROWNSBORO ROAD	SSE 1/4 - 1/2 (0.469 mi.)	100 / 8	180
OVERSTREET AUTO SERV Facility Id: 126253 Facility Status: Closed	6500 BROWNSBORO RD	SSE 1/2 - 1 (0.520 mi.)	101 / 13	180
SIX MILE ISLAND - CO Facility Id: 52150 Facility Status: Closed	RIVER RD	N 1/2 - 1 (0.573 mi.)	102 / 5	181
HOLIDAY CLEANERS Facility Id: 51790 Facility Status: Closed	4820 US HIGHWAY 42	SSE 1/2 - 1 (0.600 mi.)	103 / 13	181
CHEVRON OFFICE BLDG Facility Id: 102700 Facility Status: Closed	4902 BROWNSBORO ROAD	SSE 1/2 - 1 (0.636 mi.)	104 / 13	182
CLAY CRALLE RESIDENC Facility Id: 113197 Facility Status: Closed	6600 MINT SPRINGS BR	N 1/2 - 1 (0.643 mi.)	105 / 2	182
SLUNG RESIDENCE Facility Id: 121605 Facility Status: Closed	172 ARROWHEAD DR	SSE 1/2 - 1 (0.655 mi.)	106 / 12	183
RIVER METALS RECYCLI	***2114 METAL LN***	***WSW 1/2 - 1 (0.697 mi.)***	***107 / 16***	***183***

Facility Id: 71752 Facility Status: Closed Facility Status: Managed				
KIRCHNER PROPERTY Facility Id: 120553 Facility Status: Closed	***518 NORTH HITE AVE.***	***SSW 1/2 - 1 (0.761 mi.)***	***108 / 17***	***185***
OPERATION BRIGHTSIDE Facility Id: 53129 Facility Status: Closed	2041 RIVER RD	WSW 1/2 - 1 (0.765 mi.)	X109 / 16	185
EDITH AVE LANDFILL Facility Id: 2025 Facility Status: Closed	***EDITH RD AT RIVER RD***	***WSW 1/2 - 1 (0.771 mi.)***	***X110 / 16***	***186***
METAL SERVICES COMME Facility Id: 120855 Facility Status: Managed	***2033 METAL LANE***	***WSW 1/2 - 1 (0.827 mi.)***	***111 / 16***	***187***
STRANGE RESIDENCE Facility Id: 120857 Facility Status: Closed	103 BLANKENBAKER LAN	S 1/2 - 1 (0.830 mi.)	112 / 19	188
CHAMPIONS PARK Facility Id: 137059 Facility Status: Managed	***2050 RIVER ROAD***	***WSW 1/2 - 1 (0.837 mi.)***	***113 / 16***	***188***
SIMS PROPERTY Facility Id: 53024 Facility Status: Closed	91 WARRIOR ROAD	SSE 1/2 - 1 (0.840 mi.)	114 / 12	189
ALLTRADE SERVICES SO Facility Id: 105266 Facility Status: Closed	***2600 LE BLANC CT. #***	***S 1/2 - 1 (0.922 mi.)***	***115 / 17***	***189***
STOLL PROPERTY Facility Id: 53424 Facility Status: Closed	3905 LIME KILN LANE	NNW 1/2 - 1 (0.988 mi.)	116 / 6	190

State and tribal landfill and/or solid waste disposal site lists

KY SWF/LF: Solid Waste Facilities List

A review of the KY SWF/LF list, as provided by EDR, and dated 09/05/2019 has revealed that there are 2 KY SWF/LF sites within approximately 0.5 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
SOUTH WIND MINING Status: Terminated Facility Id: 99938	***2611 UPPER RIVER RD***	***WSW 1/4 - 1/2 (0.345 mi.)***	***96 / 16***	***174***
RIVERGREEN BUSINESS Status: Operating Facility Id: 8278	2712 RIVER GREEN CIR	W 1/4 - 1/2 (0.422 mi.)	99 / 10	179

State and tribal registered storage tank lists

KY UST: Underground Storage Tank Database

A review of the KY UST list, as provided by EDR, and dated 08/02/2019 has revealed that there are 6 KY UST sites within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
COSTCO GASOLINE # 63 Tank Status: TAC Facility Id: 77876	5020 NORTON HEALTHCA	SSE 0 - 1/8 (0.003 mi.)	Q68 / 8	95
CONVENIENCE PLUS #1 Tank Status: TEX Tank Status: TAC Facility Id: 60510	1035 ZORN AVE	NW 0 - 1/8 (0.011 mi.)	R70 / 11	100
RIVER ROAD COUNTRY C Tank Status: TRM Facility Id: 48140	***2930 UPPER RIVER RD***	***NW 0 - 1/8 (0.114 mi.)***	***U78 / 11***	***109***
RIVER RD CHEVRON Tank Status: TAC Tank Status: TRM Facility Id: 60718	3002 RIVER RD	NW 0 - 1/8 (0.116 mi.)	T81 / 11	112
VA HOSPITAL Tank Status: TRM Tank Status: TR8 Tank Status: TAC Facility Id: 2250	***800 ZORN AVE***	***SSE 1/8 - 1/4 (0.176 mi.)***	***W90 / 17***	***161***
PRABLE PROPERTY Tank Status: TRM Facility Id: 63700	4179 RIVER RD	NNW 1/8 - 1/4 (0.204 mi.)	92 / 11	166

KY AST: Above Ground Storage Tanks

A review of the KY AST list, as provided by EDR, and dated 08/27/2019 has revealed that there are 7 KY AST sites within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
LOWE'S HOME CENTERS	4930 NORTON HEALTHCA	SSE 0 - 1/8 (0.040 mi.)	S72 / 8	104
PALAZZO BROTHERS ELE	4930 NORTON HEALTHCA	SSE 0 - 1/8 (0.040 mi.)	S73 / 8	105
RIVER ROAD COUNTRY C	2930 RIVER RD	NW 0 - 1/8 (0.114 mi.)	U80 / 11	112
MSD	2318 STANNYE DR	SSE 1/8 - 1/4 (0.159 mi.)	85 / 13	120
CABELA'S RETAIL	5100 NORTON HEALTHCA	SSE 1/8 - 1/4 (0.161 mi.)	V87 / 8	123
VETERANS HOSPITAL	800 ZORN AVE BLDG 8	SSE 1/8 - 1/4 (0.176 mi.)	W89 / 17	161
VETERANS ADMINISTRAT	800 ZORN AVE	SSE 1/8 - 1/4 (0.176 mi.)	W91 / 17	166

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

KY SWRCY: Recycling Facilities

A review of the KY SWRCY list, as provided by EDR, and dated 05/02/2019 has revealed that there is 1 KY SWRCY site within approximately 0.5 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
RIVER ROAD SHINGLE R	2901 RIVER ROAD	WNW 1/4 - 1/2 (0.410 mi.)	98 / 10	179

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 06/24/2019 has revealed that there are 5 RCRA NonGen / NLR sites within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
BP OIL STATION EPA ID:: KYD985095223	***1035 ZORN AVENUE***	***NW 0 - 1/8 (0.011 mi.)***	***R69 / 11***	***98***
RIVER ROAD COUNTRY C EPA ID:: KYD985116250	***2930 UPPER RIVER ROA***	***NW 0 - 1/8 (0.114 mi.)***	***U79 / 11***	***110***
LOUISVILLE WATER COM EPA ID:: KYD985080407	3000 UPPER RIVER ROA	NW 0 - 1/8 (0.122 mi.)	83 / 11	116
LOUISVILLE WATER COM EPA ID:: KYR000049627	3005 RIVER ROAD	NW 1/8 - 1/4 (0.141 mi.)	T84 / 11	118
BED BATH AND BEYOND EPA ID:: KYR000055871	4350 SUMMIT PLAZA DR	SSE 1/8 - 1/4 (0.240 mi.)	94 / 8	171

NJ MANIFEST: Hazardous Waste Manifest Data

A review of the NJ MANIFEST list, as provided by EDR, and dated 12/31/2018 has revealed that there is 1 NJ MANIFEST site within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
LOUISVILLE VETERANS EPA Id: KY0360090005	***800 ZORN AVENUE***	***SSE 1/8 - 1/4 (0.176 mi.)***	***W88 / 17***	***123***

NY MANIFEST: Facility and Manifest Data

A review of the NY MANIFEST list, as provided by EDR, and dated 01/01/2019 has revealed that there is 1 NY MANIFEST site within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
LOUISVILLE VETERANS	***800 ZORN AVENUE***	***SSE 1/8 - 1/4 (0.176 mi.)***	***W88 / 17***	***123***

EXECUTIVE SUMMARY

EPA ID: KY0360090005

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Auto: EDR Exclusive Historical Auto Stations

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there are 3 EDR Hist Auto sites within approximately 0.125 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
GULF B P OIL GAS STA	1035 ZORN AVE	NW 0 - 1/8 (0.011 mi.)	R71 / 11	103
ZORN AVENUE CHEVRON	3002 UPPER RIVER RD	NW 0 - 1/8 (0.109 mi.)	T77 / 11	108
ZORN AV CHEVRON SERV	3002 E RIVER RD	NW 0 - 1/8 (0.116 mi.)	T82 / 11	115

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

A review of the EDR Hist Cleaner list, as provided by EDR, has revealed that there is 1 EDR Hist Cleaner site within approximately 0.125 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
J-TOWN LAUNDERETTE	3007 ASPENWOOD WAY	SSE 0 - 1/8 (0.049 mi.)	75 / 14	108

MAPPED SITES SUMMARY

Target Property:
I-71 WIDENING ZORN AVE TO I-265
LOUISVILLE, KY 40222

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
A1 / 8			KY SPILLS	TP
A2 / 8			KY SPILLS	TP
A3 / 8			KY SPILLS	TP
4 / 8	BS EXPRESS DIAZINON	I-71 AT I-265	KY SHWS	TP
B5 / 8	BS XPRESS DIAZINON S	INTERSECTION OF I-71	SEMS, PRP	TP
B6 / 8		I-71 SOUTHBOUND AT K	ERNS	TP
C7 / 8	SPRINGDALE BAPTIST C	4601 SPRINGDALE RD	FINDS	TP
C8 / 8	SPRINGDALE CHURCH	4601 SPRINGDALE RD	KY NPDES	TP
B9 / 8			KY SPILLS	TP
10 / 8			KY SPILLS	TP
D11 / 8	NORTON HEATHCARE	4950 NORTON HEALTHCA	FINDS	TP
D12 / 8	NORTON BROWNSBORO HO	4950 NORTON HEALTHCA	KY NPDES	TP
D13 / 8	NORTON BROWNSBORO HO	4950 NORTON HEALTHCA	FINDS, ECHO	TP
D14 / 8	NORTON BROWNSBORO HO	4950 NORTON HEALTHCA	RCRA NonGen / NLR	TP
D15 / 8	NORTONS BROWNSBORO H	4950 NORTON HEALTHCA	ECHO	TP
E16 / 8			KY SPILLS	TP
E17 / 8			KY SPILLS	TP
18 / 8	J ROBERT WESTERMAN R	8507 RUNNING SPRING	FINDS	TP
F19 / 8	STETTEN RESIDENCE	4512 OLD SPRINGDALE	KY NPDES	TP
F20 / 8	SUMMIT RIDGE	4508 SPRINGDALE RD	KY NPDES	TP
G21 / 8	US WORLDMEDS HEADQUA	4441 SPRINGDALE RD	KY NPDES	TP
G22 / 8	US WORLDMEDS HEADQUA	4441 SPRINGDALE RD	FINDS, ECHO	TP
H23 / 8	JONES ASSOCIATES	4501 SPRINGDALE RD	FINDS	TP
H24 / 8	JONES ASSOCIATES	4501 SPRINGDALE RD	KY SHWS	TP
H25 / 8	JONES ASSOCIATES	4501 SPRINGDALE RD	KY RGA HWS	TP
I26 / 7	JONES RESIDENCE	8302 RUNNING SPRING	KY NPDES	TP
I27 / 7	REBECCA JONES RESID	8302 RUNNING SPRING	FINDS	TP
28 / 8			KY SPILLS	TP
29 / 8			KY SPILLS	TP
30 / 7			KY SPILLS	TP
31 / 8			KY SPILLS	TP
32 / 7	BETZ SPECIALITY & CU	3504 TRAIL RIDGE RD	FINDS	TP
J33 / 7	BEECH SPRING FARM SU	3600 BARBOUR LN	KY NPDES	TP
J34 / 7	BEECH SPRING FARM SE	3600 BARBOUR LN	KY NPDES	TP
J35 / 7	OVERLOOK AT BEECH SP	3600 BARBOUR LN	KY NPDES	TP
J36 / 7	BEECH SPRING FARM	3600 BARBOUR LANE	RCRA NonGen / NLR, FINDS, ECHO	TP
K37 / 7	DIAZINON SPILL (BS X	EXIT 9A OF I-71	ECHO	TP
K38 / 7	DIAZINON SPILL (	EXIT 9A OF I-71	ICIS, FINDS	TP
39 / 6			KY SPILLS	TP

MAPPED SITES SUMMARY

Target Property:
I-71 WIDENING ZORN AVE TO I-265
LOUISVILLE, KY 40222

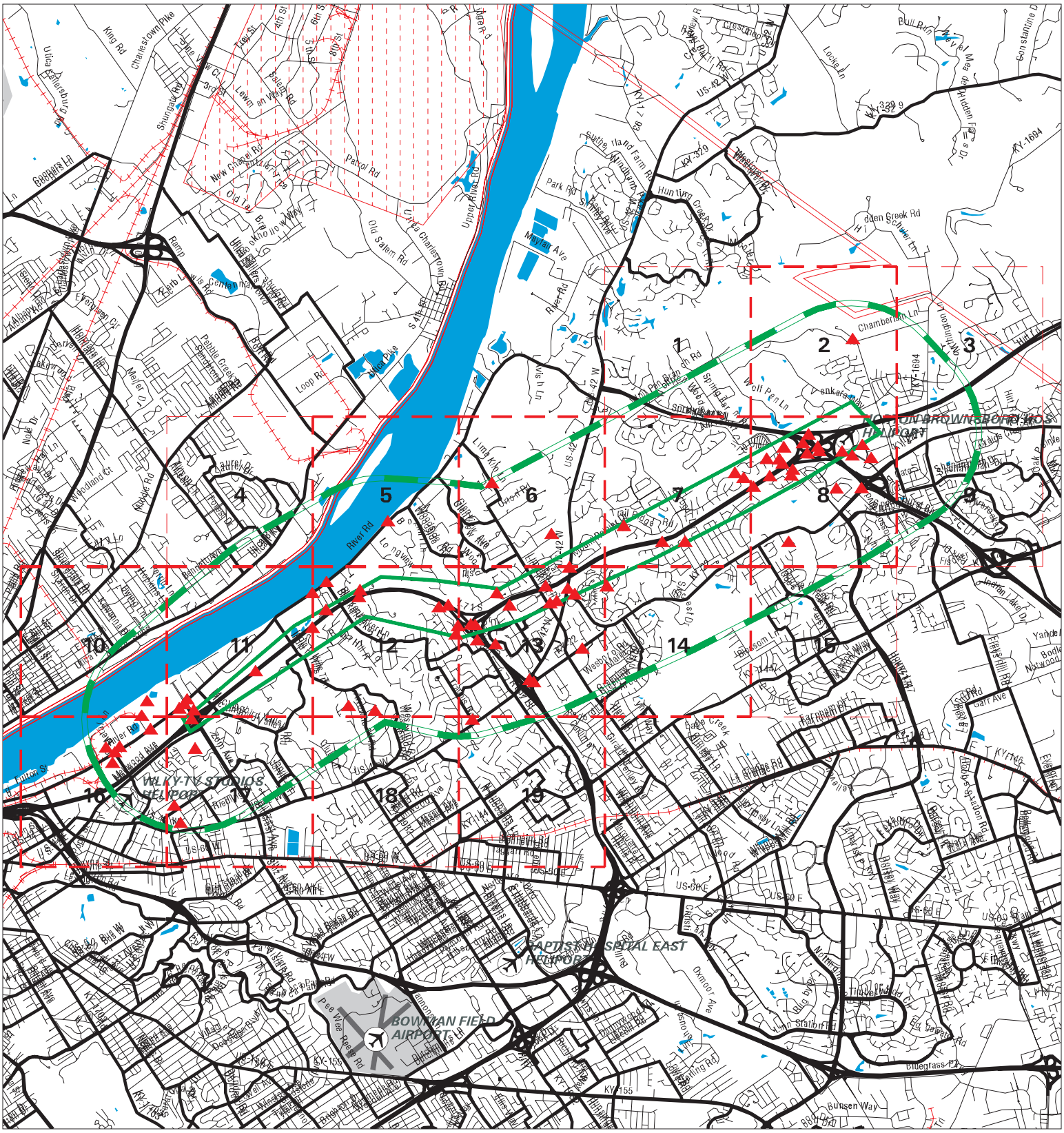
MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION		
40 / 13			KY SPILLS	TP		
L41 / 13	GLENVIEW TRUST	5900 US 42	FINDS, ECHO	TP		
L42 / 13	GLENVIEW TRUST	5900 US 42	KY NPDES	TP		
43 / 12	CHARLIE & ELISE BROW	2702 POPLAR HILL CT	FINDS	TP		
M44 / 13	GLENVIEW PARK SECTIO	GLENVIEW AVE & CABIN	FINDS, ECHO	TP		
M45 / 13	GLENVIEW PARK SECTIO	GLENVIEW AVE & CABIN	KY NPDES	TP		
M46 / 13	GLENVIEW PARK SECTIO	GLENVIEW AVE & CABIN	FINDS	TP		
47 / 13	SUNRISE ASSISTED LIV	6700 OVERLOOK DR	FINDS	TP		
48 / 12	PETROLEUM EXPRESS 11	I-71 N MM4	KY SHWS	TP		
49 / 13		6406 GLENWOOD ROAD	KY LEAD	TP		
50 / 13		LIME KILN RD. UND. G	FINDS	TP		
51 / 12			KY SPILLS	TP		
52 / 13			KY SPILLS	TP		
53 / 12	WINDING CREEK SUBD	PHOENIX HILL DR	FINDS	TP		
54 / 12	JAMES DERRICK ADAMS	4205 RIVIERA DR	FINDS	TP		
N55 / 13	MS CARRIERS CATHODE	JUNCTION OF I-71 S A	KY SHWS	TP		
56 / 13	STATEWIDE TRANSPORT	I-71 & I-264	KY SHWS	TP		
O57 / 12	J KINGSLEY STRATTON	2401 FALLSVIEW RD	FINDS	TP		
N58 / 13			KY SPILLS	TP		
N59 / 13			KY SPILLS	TP		
60 / 11			KY SPILLS	TP		
O61 / 12		2402 FALLSVIEW RD	ERNS	TP		
62 / 12	RED BALL TRANSMISSIO	2400 PHOENIX HILL DR	EDR Hist Auto	TP		
P63 / 11	I 71 - JEFFERSON CO	I-71	KY NPDES	TP		
P64 / 11	I 71 - JEFFERSON CO	I-71	FINDS, ECHO	TP		
P65 / 11	RECONSTRUCTION OF TH	I-71	KY NPDES	TP		
66 / 17			KY SPILLS	TP		
Q67 / 8	COSTCO WHOLESALE #63	5020 NORTON HEALTHCA	RCRA-SQG	18	0.003	SSE
Q68 / 8	COSTCO GASOLINE # 63	5020 NORTON HEALTHCA	KY UST	18	0.003	SSE
R69 / 11	BP OIL STATION	1035 ZORN AVENUE	RCRA NonGen / NLR, FINDS, ECHO	59	0.011	NW
R70 / 11	CONVENIENCE PLUS #1	1035 ZORN AVE	KY UST	59	0.011	NW
R71 / 11	GULF B P OIL GAS STA	1035 ZORN AVE	EDR Hist Auto	59	0.011	NW
S72 / 8	LOWE'S HOME CENTERS	4930 NORTON HEALTHCA	KY AST	210	0.040	SSE
S73 / 8	PALAZZO BROTHERS ELE	4930 NORTON HEALTHCA	KY AST	210	0.040	SSE
S74 / 8	LOWE'S OF N.E. LOUIS	4930 NORTON HEALTHCA	RCRA-SQG	210	0.040	SSE
75 / 14	J-TOWN LAUNDERETTE	3007 ASPENWOOD WAY	EDR Hist Cleaner	261	0.049	SSE
76 / 13	TRANSCORP INTERNATIO	I-264 WB AND I-71 SB	KY SHWS	354	0.067	SSE
T77 / 11	ZORN AVENUE CHEVRON	3002 UPPER RIVER RD	EDR Hist Auto	578	0.109	NW
U78 / 11	RIVER ROAD COUNTRY C	2930 UPPER RIVER RD	KY UST, KY Financial Assurance	604	0.114	NW

MAPPED SITES SUMMARY

Target Property:
I-71 WIDENING ZORN AVE TO I-265
LOUISVILLE, KY 40222

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION		
U79 / 11	RIVER ROAD COUNTRY C	2930 UPPER RIVER ROA	RCRA NonGen / NLR, FINDS, ECHO	604	0.114	NW
U80 / 11	RIVER ROAD COUNTRY C	2930 RIVER RD	KY AST	604	0.114	NW
T81 / 11	RIVER RD CHEVRON	3002 RIVER RD	KY UST	612	0.116	NW
T82 / 11	ZORN AV CHEVRON SERV	3002 E RIVER RD	EDR Hist Auto	612	0.116	NW
83 / 11	LOUISVILLE WATER COM	3000 UPPER RIVER ROA	RCRA NonGen / NLR	643	0.122	NW
T84 / 11	LOUISVILLE WATER COM	3005 RIVER ROAD	RCRA NonGen / NLR	744	0.141	NW
85 / 13	MSD	2318 STANNYE DR	KY AST	838	0.159	SSE
V86 / 8	CABELA'S LOUISVILLE	5100 NORTON HEALTHCA	RCRA-VSQG	852	0.161	SSE
V87 / 8	CABELA'S RETAIL	5100 NORTON HEALTHCA	KY AST	852	0.161	SSE
W88 / 17	LOUISVILLE VETERANS	800 ZORN AVENUE	SEMS-ARCHIVE, RCRA-SQG, DOCKET HWC, NY M	929	0.176	SSE
W89 / 17	VETERANS HOSPITAL	800 ZORN AVE BLDG 8	KY AST	929	0.176	SSE
W90 / 17	VA HOSPITAL	800 ZORN AVE	KY SHWS, KY UST	929	0.176	SSE
W91 / 17	VETERANS ADMINISTRAT	800 ZORN AVE	KY AST	929	0.176	SSE
92 / 11	PRABLE PROPERTY	4179 RIVER RD	KY UST	1077	0.204	NNW
93 / 12	FLOOD OF 1997	RIVER RD	KY SHWS	1214	0.230	NNW
94 / 8	BED BATH AND BEYOND	4350 SUMMIT PLAZA DR	RCRA NonGen / NLR	1267	0.240	SSE
95 / 6	MILLIE ANN JOHNSON P	5119 DUNVEGAN ROAD	KY SHWS	1321	0.250	NNW
96 / 16	SOUTH WIND MINING	2611 UPPER RIVER RD	KY SWF/LF, KY NPDES	1822	0.345	WSW
97 / 8	OLD BROWNSBORO CROSS	9607 BROWNSBORO RD	KY SHWS, KY NPDES	1955	0.370	SSE
98 / 10	RIVER ROAD SHINGLE R	2901 RIVER ROAD	KY SWRCY	2165	0.410	WNW
99 / 10	RIVERGREEN BUSINESS	2712 RIVER GREEN CIR	KY SWF/LF	2229	0.422	West
100 / 8	KITTYS PRODUCE	8708 BROWNSBORO ROAD	KY SHWS	2476	0.469	SSE
101 / 13	OVERSTREET AUTO SERV	6500 BROWNSBORO RD	KY SHWS	2746	0.520	SSE
102 / 5	SIX MILE ISLAND - CO	RIVER RD	KY SHWS	3026	0.573	North
103 / 13	HOLIDAY CLEANERS	4820 US HIGHWAY 42	KY SHWS	3168	0.600	SSE
104 / 13	CHEVRON OFFICE BLDG	4902 BROWNSBORO ROAD	KY SHWS	3357	0.636	SSE
105 / 2	CLAY CRALLE RESIDENC	6600 MINT SPRINGS BR	KY SHWS	3394	0.643	North
106 / 12	SLUNG RESIDENCE	172 ARROWHEAD DR	KY SHWS	3457	0.655	SSE
107 / 16	RIVER METALS RECYCLI	2114 METAL LN	KY SHWS, KY ENG CONTROLS, KY INST CONTRO	3678	0.697	WSW
108 / 17	KIRCHNER PROPERTY	518 NORTH HITE AVE.	KY SHWS, KY CDL	4020	0.761	SSW
X109 / 16	OPERATION BRIGHTSIDE	2041 RIVER RD	KY SHWS	4037	0.765	WSW
X110 / 16	EDITH AVE LANDFILL	EDITH RD AT RIVER RD	KY SHWS, KY SWF/LF, KY Financial Assuran...	4073	0.771	WSW
111 / 16	METAL SERVICES COMME	2033 METAL LANE	KY SHWS, KY INST CONTROL	4368	0.827	WSW
112 / 19	STRANGE RESIDENCE	103 BLANKENBAKER LAN	KY SHWS	4380	0.830	South
113 / 16	CHAMPIONS PARK	2050 RIVER ROAD	KY SHWS, KY INST CONTROL	4421	0.837	WSW
114 / 12	SIMS PROPERTY	91 WARRIOR ROAD	KY SHWS	4436	0.840	SSE
115 / 17	ALLTRADE SERVICES SO	2600 LE BLANC CT. #	KY SHWS, KY CDL	4869	0.922	South
116 / 6	STOLL PROPERTY	3905 LIME KILN LANE	KY SHWS	5214	0.988	NNW

Key Map - 5862144.5s



SITE NAME: I- 71 Widening Zorn Ave to I-265	CLIENT: HDR Engineering Inc
ADDRESS: I-71 Widening Zorn Ave to I-265	CONTACT: Rebecca Colvin
CITY/STATE: Louisville KY	INQUIRY #: 5862144.5s
ZIP: 40222	DATE: 11/15/19 11:40 AM

Copyright © 2019 EDR, Inc. © 2015 TomTom Rel. 2015.

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500	1	0	0	0	NR	NR	1
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	1	0	NR	NR	1
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		2	1	NR	NR	NR	3
RCRA-VSQG	0.250		0	1	NR	NR	NR	1
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP	2	NR	NR	NR	NR	NR	2
State- and tribal - equivalent CERCLIS								
KY SHWS	1.000	5	1	2	3	16	NR	27
State and tribal landfill and/or solid waste disposal site lists								
KY SWF/LF	0.500		0	0	2	NR	NR	2
State and tribal leaking storage tank lists								
KY PSTEAF	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
KY SB193	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
KY UST	0.250		4	2	NR	NR	NR	6
KY AST	0.250		3	4	NR	NR	NR	7
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
KY ENG CONTROLS	0.500		0	0	0	NR	NR	0
KY INST CONTROL	0.500		0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
KY VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
KY BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
KY SWRCY	0.500		0	0	1	NR	NR	1
KY HIST LF	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
KY CDL	TP		NR	NR	NR	NR	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
KY SPILLS	TP	19	NR	NR	NR	NR	NR	19
Other Ascertainable Records								
RCRA NonGen / NLR	0.250	2	3	2	NR	NR	NR	7
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP	1	NR	NR	NR	NR	NR	1
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP	1	NR	NR	NR	NR	NR	1
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP	20	NR	NR	NR	NR	NR	20
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
ECHO	TP	8	NR	NR	NR	NR	NR	8
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
KY AIRS	TP		NR	NR	NR	NR	NR	0
KY ASBESTOS	TP		NR	NR	NR	NR	NR	0
KY COAL ASH	0.500		0	0	0	NR	NR	0
KY DRYCLEANERS	0.250		0	0	NR	NR	NR	0
KY Financial Assurance	TP		NR	NR	NR	NR	NR	0
KY LEAD	TP	1	NR	NR	NR	NR	NR	1
NJ MANIFEST	0.250		0	1	NR	NR	NR	1
NY MANIFEST	0.250		0	1	NR	NR	NR	1
KY NPDES	TP	13	NR	NR	NR	NR	NR	13
KY UIC	TP		NR	NR	NR	NR	NR	0
MINES MRDS	TP		NR	NR	NR	NR	NR	0

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125	1	3	NR	NR	NR	NR	4
EDR Hist Cleaner	0.125		1	NR	NR	NR	NR	1

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

KY RGA HWS	TP	1	NR	NR	NR	NR	NR	1

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
KY RGA LF	TP		NR	NR	NR	NR	NR	0
- Totals --		75	17	15	6	16	0	129

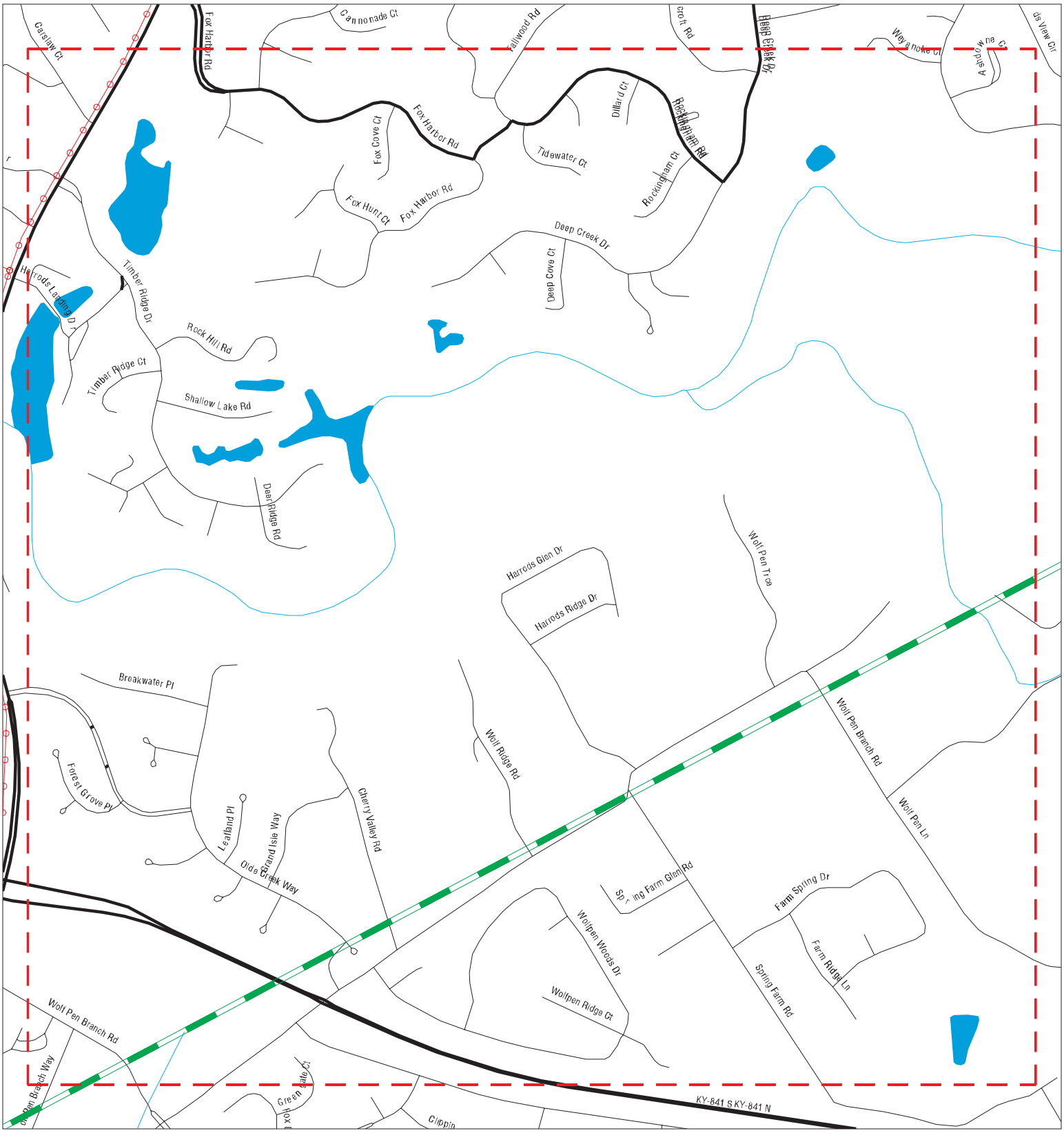
NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Focus Map - 1 - 5862144.5s



- Sites
- Target Property
- Search Buffer
- Focus Map - No Sites
- Focus Map - Sites
- Power Line
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: I- 71 Widening Zorn Ave to I-265	CLIENT: HDR Engineering Inc
ADDRESS: I-71 Widening Zorn Ave to I-265	CONTACT: Rebecca Colvin
CITY/STATE: Louisville KY	INQUIRY #: 5862144.5s
ZIP: 40222	DATE: 11/15/19

Copyright © 2019 EDR, Inc. © 2015 TomTom Rel. 2015.

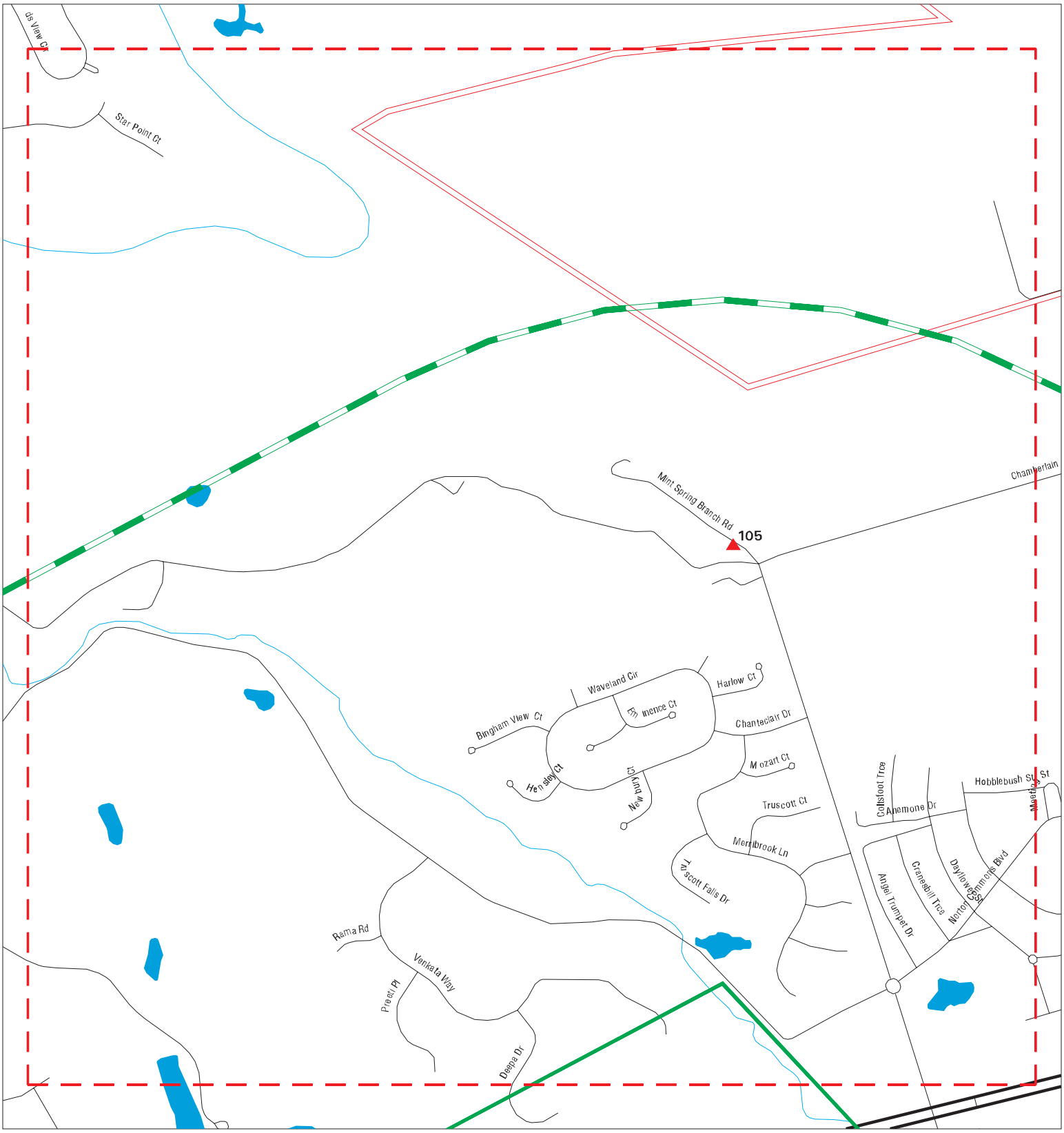
MAPPED SITES SUMMARY - FOCUS MAP 1

Target Property:
I-71 WIDENING ZORN AVE TO I-265
LOUISVILLE, KY 40222

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION

NO MAPPED SITES FOUND

Focus Map - 2 - 5862144.5s



SITE NAME: I- 71 Widening Zorn Ave to I-265	CLIENT: HDR Engineering Inc
ADDRESS: I-71 Widening Zorn Ave to I-265	CONTACT: Rebecca Colvin
CITY/STATE: Louisville KY	INQUIRY #: 5862144.5s
ZIP: 40222	DATE: 11/15/19

Copyright © 2019 EDR, Inc. © 2015 TomTom Rel. 2015.

MAPPED SITES SUMMARY - FOCUS MAP 2

Target Property:
I-71 WIDENING ZORN AVE TO I-265
LOUISVILLE, KY 40222

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
105 / 2	CLAY CRALLE RESIDENC	6600 MINT SPRINGS BR	KY SHWS	3394 0.643 North

Focus Map - 3 - 5862144.5s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
National Priority List Sites
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: I- 71 Widening Zorn Ave to I-265	CLIENT: HDR Engineering Inc
ADDRESS: I-71 Widening Zorn Ave to I-265	CONTACT: Rebecca Colvin
CITY/STATE: Louisville KY	INQUIRY #: 5862144.5s
ZIP: 40222	DATE: 11/15/19

Copyright © 2019 EDR, Inc. © 2015 TomTom Rel. 2015.

MAPPED SITES SUMMARY - FOCUS MAP 3

Target Property:
I-71 WIDENING ZORN AVE TO I-265
LOUISVILLE, KY 40222

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION

NO MAPPED SITES FOUND

Focus Map - 4 - 5862144.5s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
National Priority List Sites
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: I- 71 Widening Zorn Ave to I-265	CLIENT: HDR Engineering Inc
ADDRESS: I-71 Widening Zorn Ave to I-265	CONTACT: Rebecca Colvin
CITY/STATE: Louisville KY	INQUIRY #: 5862144.5s
ZIP: 40222	DATE: 11/15/19

Copyright © 2019 EDR, Inc. © 2015 TomTom Rel. 2015.

MAPPED SITES SUMMARY - FOCUS MAP 4

Target Property:
I-71 WIDENING ZORN AVE TO I-265
LOUISVILLE, KY 40222

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION

NO MAPPED SITES FOUND

Focus Map - 5 - 5862144.5s



SITE NAME: I- 71 Widening Zorn Ave to I-265	CLIENT: HDR Engineering Inc
ADDRESS: I-71 Widening Zorn Ave to I-265	CONTACT: Rebecca Colvin
CITY/STATE: Louisville KY	INQUIRY #: 5862144.5s
ZIP: 40222	DATE: 11/15/19

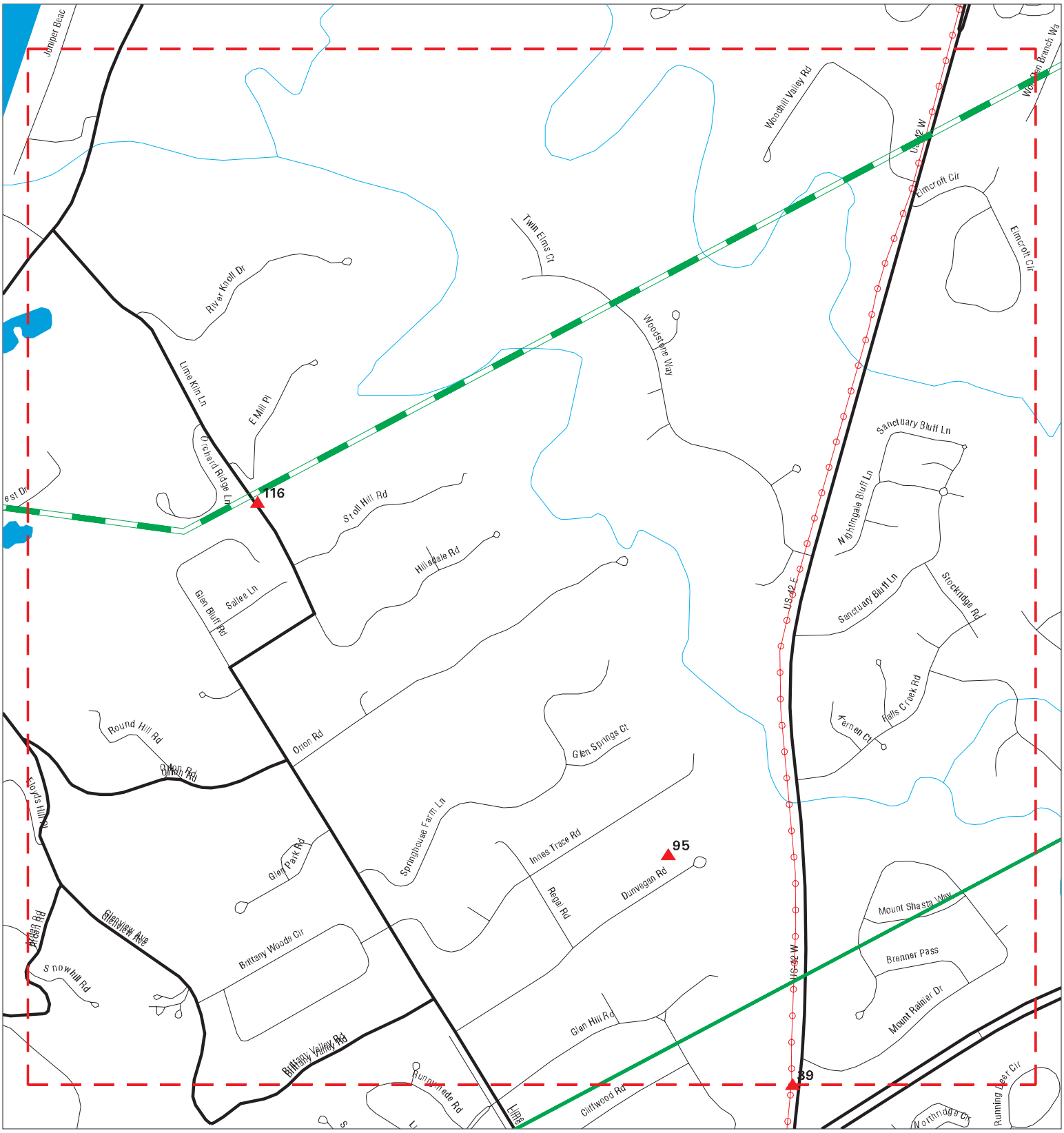
Copyright © 2019 EDR, Inc. © 2015 TomTom Rel. 2015.

MAPPED SITES SUMMARY - FOCUS MAP 5

Target Property:
I-71 WIDENING ZORN AVE TO I-265
LOUISVILLE, KY 40222

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
102 / 5	SIX MILE ISLAND - CO	RIVER RD	KY SHWS	3026 0.573 North

Focus Map - 6 - 5862144.5s



- Sites
- Target Property
- Search Buffer
- Focus Map - No Sites
- Focus Map - Sites
- Power Line
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA

SITE NAME: I- 71 Widening Zorn Ave to I-265	CLIENT: HDR Engineering Inc
ADDRESS: I-71 Widening Zorn Ave to I-265	CONTACT: Rebecca Colvin
CITY/STATE: Louisville KY	INQUIRY #: 5862144.5s
ZIP: 40222	DATE: 11/15/19

Copyright © 2019 EDR, Inc. © 2015 TomTom Rel. 2015.

MAPPED SITES SUMMARY - FOCUS MAP 6

Target Property:
I-71 WIDENING ZORN AVE TO I-265
LOUISVILLE, KY 40222

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
39 / 6			KY SPILLS	TP
95 / 6	MILLIE ANN JOHNSON P	5119 DUNVEGAN ROAD	KY SHWS	1321 0.250 NNW
116 / 6	STOLL PROPERTY	3905 LIME KILN LANE	KY SHWS	5214 0.988 NNW

Focus Map - 7 - 5862144.5s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
National Priority List Sites
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: I- 71 Widening Zorn Ave to I-265	CLIENT: HDR Engineering Inc
ADDRESS: I-71 Widening Zorn Ave to I-265	CONTACT: Rebecca Colvin
CITY/STATE: Louisville KY	INQUIRY #: 5862144.5s
ZIP: 40222	DATE: 11/15/19

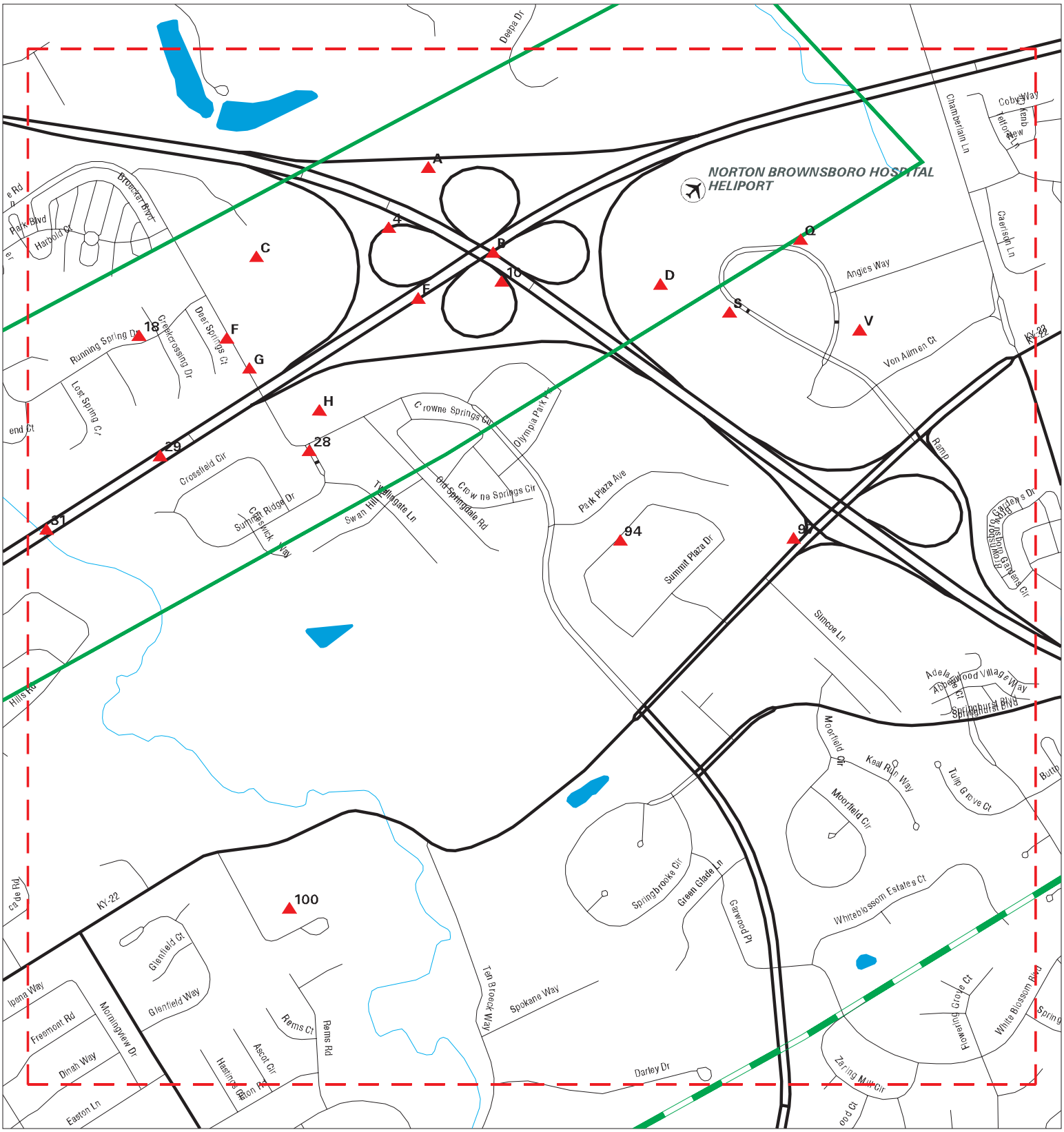
Copyright © 2019 EDR, Inc. © 2015 TomTom Rel. 2015.

MAPPED SITES SUMMARY - FOCUS MAP 7

Target Property:
I-71 WIDENING ZORN AVE TO I-265
LOUISVILLE, KY 40222

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
I26 / 7	JONES RESIDENCE	8302 RUNNING SPRING	KY NPDES	TP
I27 / 7	REBECCA JONES RESID	8302 RUNNING SPRING	FINDS	TP
30 / 7			KY SPILLS	TP
32 / 7	BETZ SPECIALITY & CU	3504 TRAIL RIDGE RD	FINDS	TP
J33 / 7	BEECH SPRING FARM SU	3600 BARBOUR LN	KY NPDES	TP
J34 / 7	BEECH SPRING FARM SE	3600 BARBOUR LN	KY NPDES	TP
J35 / 7	OVERLOOK AT BEECH SP	3600 BARBOUR LN	KY NPDES	TP
J36 / 7	BEECH SPRING FARM	3600 BARBOUR LANE	RCRA NonGen / NLR, FINDS, ECHO	TP
K37 / 7	DIAZINON SPILL (BS X	EXIT 9A OF I-71	ECHO	TP
K38 / 7	DIAZINON SPILL (	EXIT 9A OF I-71	ICIS, FINDS	TP

Focus Map - 8 - 5862144.5s



SITE NAME: I- 71 Widening Zorn Ave to I-265	CLIENT: HDR Engineering Inc
ADDRESS: I-71 Widening Zorn Ave to I-265	CONTACT: Rebecca Colvin
CITY/STATE: Louisville KY	INQUIRY #: 5862144.5s
ZIP: 40222	DATE: 11/15/19

Copyright © 2019 EDR, Inc. © 2015 TomTom Rel. 2015.

MAPPED SITES SUMMARY - FOCUS MAP 8

Target Property:
I-71 WIDENING ZORN AVE TO I-265
LOUISVILLE, KY 40222

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
A1 / 8			KY SPILLS	TP
A2 / 8			KY SPILLS	TP
A3 / 8			KY SPILLS	TP
4 / 8	BS EXPRESS DIAZINON	I-71 AT I-265	KY SHWS	TP
B5 / 8	BS XPRESS DIAZINON S	INTERSECTION OF I-71	SEMS, PRP	TP
B6 / 8		I-71 SOUTHBOUND AT K	ERNS	TP
C7 / 8	SPRINGDALE BAPTIST C	4601 SPRINGDALE RD	FINDS	TP
C8 / 8	SPRINGDALE CHURCH	4601 SPRINGDALE RD	KY NPDES	TP
B9 / 8			KY SPILLS	TP
10 / 8			KY SPILLS	TP
D11 / 8	NORTON HEATHCARE	4950 NORTON HEALTHCA	FINDS	TP
D12 / 8	NORTON BROWNSBORO HO	4950 NORTON HEALTHCA	KY NPDES	TP
D13 / 8	NORTON BROWNSBORO HO	4950 NORTON HEALTHCA	FINDS, ECHO	TP
D14 / 8	NORTON BROWNSBORO HO	4950 NORTON HEALTHCA	RCRA NonGen / NLR	TP
D15 / 8	NORTONS BROWNSBORO H	4950 NORTON HEALTHCA	ECHO	TP
E16 / 8			KY SPILLS	TP
E17 / 8			KY SPILLS	TP
18 / 8	J ROBERT WESTERMAN R	8507 RUNNING SPRING	FINDS	TP
F19 / 8	STETTEN RESIDENCE	4512 OLD SPRINGDALE	KY NPDES	TP
F20 / 8	SUMMIT RIDGE	4508 SPRINGDALE RD	KY NPDES	TP
G21 / 8	US WORLDMEDS HEADQUA	4441 SPRINGDALE RD	KY NPDES	TP
G22 / 8	US WORLDMEDS HEADQUA	4441 SPRINGDALE RD	FINDS, ECHO	TP
H23 / 8	JONES ASSOCIATES	4501 SPRINGDALE RD	FINDS	TP
H24 / 8	JONES ASSOCIATES	4501 SPRINGDALE RD	KY SHWS	TP
H25 / 8	JONES ASSOCIATES	4501 SPRINGDALE RD	KY RGA HWS	TP
28 / 8			KY SPILLS	TP
29 / 8			KY SPILLS	TP
31 / 8			KY SPILLS	TP
Q67 / 8	COSTCO WHOLESALE #63	5020 NORTON HEALTHCA	RCRA-SQG	18 0.003 SSE
Q68 / 8	COSTCO GASOLINE # 63	5020 NORTON HEALTHCA	KY UST	18 0.003 SSE
S72 / 8	LOWE'S HOME CENTERS	4930 NORTON HEALTHCA	KY AST	210 0.040 SSE
S73 / 8	PALAZZO BROTHERS ELE	4930 NORTON HEALTHCA	KY AST	210 0.040 SSE
S74 / 8	LOWE'S OF N.E. LOUIS	4930 NORTON HEALTHCA	RCRA-SQG	210 0.040 SSE
V86 / 8	CABELA'S LOUISVILLE	5100 NORTON HEALTHCA	RCRA-VSQG	852 0.161 SSE
V87 / 8	CABELA'S RETAIL	5100 NORTON HEALTHCA	KY AST	852 0.161 SSE
94 / 8	BED BATH AND BEYOND	4350 SUMMIT PLAZA DR	RCRA NonGen / NLR	1267 0.240 SSE
97 / 8	OLD BROWNSBORO CROSS	9607 BROWNSBORO RD	KY SHWS, KY NPDES	1955 0.370 SSE
100 / 8	KITTYS PRODUCE	8708 BROWNSBORO ROAD	KY SHWS	2476 0.469 SSE

Focus Map - 9 - 5862144.5s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
National Priority List Sites
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: I- 71 Widening Zorn Ave to I-265	CLIENT: HDR Engineering Inc
ADDRESS: I-71 Widening Zorn Ave to I-265	CONTACT: Rebecca Colvin
CITY/STATE: Louisville KY	INQUIRY #: 5862144.5s
ZIP: 40222	DATE: 11/15/19

Copyright © 2019 EDR, Inc. © 2015 TomTom Rel. 2015.

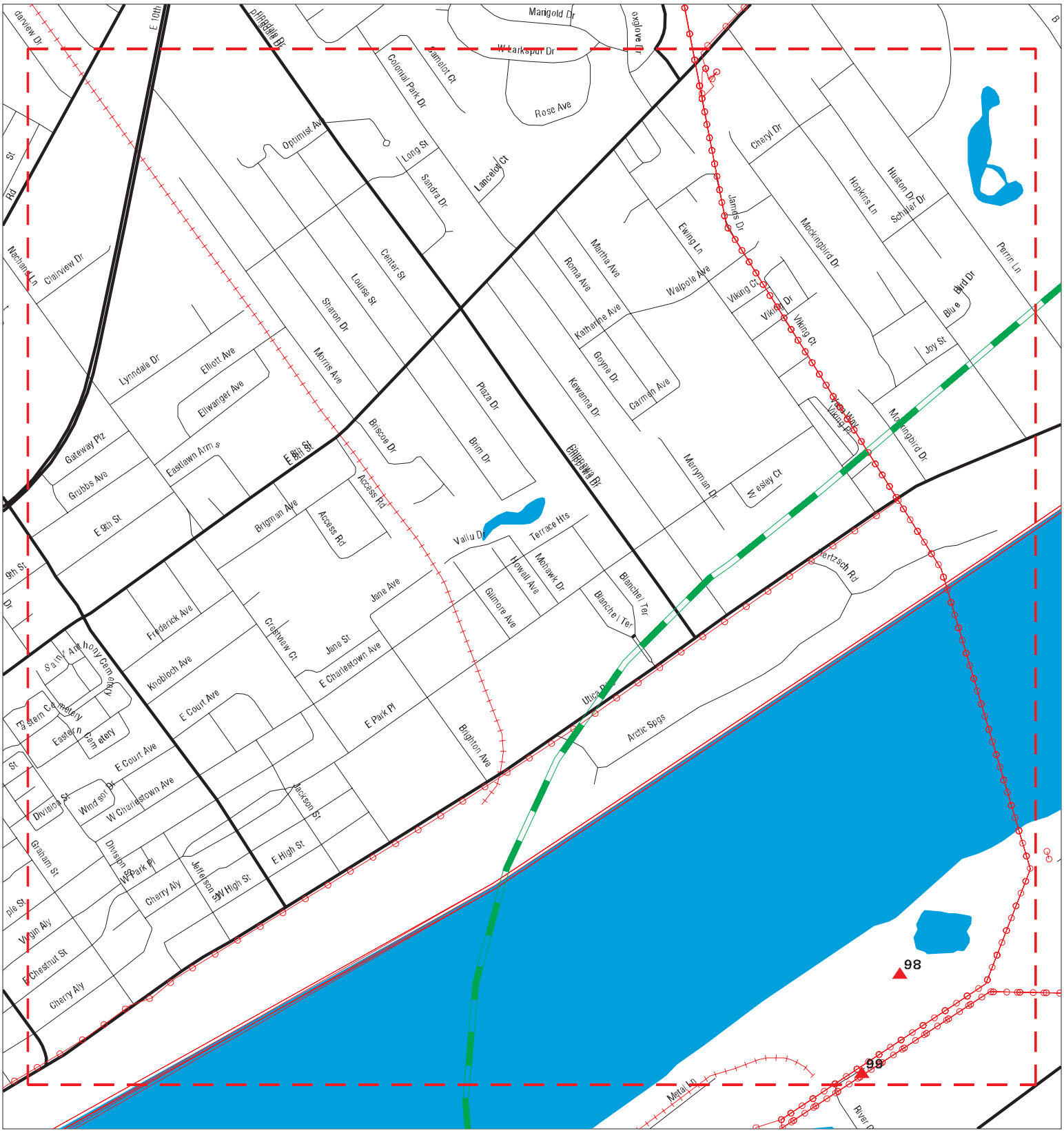
MAPPED SITES SUMMARY - FOCUS MAP 9

Target Property:
I-71 WIDENING ZORN AVE TO I-265
LOUISVILLE, KY 40222

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION

NO MAPPED SITES FOUND

Focus Map - 10 - 5862144.5s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
National Priority List Sites
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: I- 71 Widening Zorn Ave to I-265	CLIENT: HDR Engineering Inc
ADDRESS: I-71 Widening Zorn Ave to I-265	CONTACT: Rebecca Colvin
CITY/STATE: Louisville KY	INQUIRY #: 5862144.5s
ZIP: 40222	DATE: 11/15/19

Copyright © 2019 EDR, Inc. © 2015 TomTom Rel. 2015.

MAPPED SITES SUMMARY - FOCUS MAP 10

Target Property:
I-71 WIDENING ZORN AVE TO I-265
LOUISVILLE, KY 40222

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
98 / 10	RIVER ROAD SHINGLE R	2901 RIVER ROAD	KY SWRCY	2165 0.410 WNW
99 / 10	RIVERGREEN BUSINESS	2712 RIVER GREEN CIR	KY SWF/LF	2229 0.422 West

Focus Map - 11 - 5862144.5s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
National Priority List Sites
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: I- 71 Widening Zorn Ave to I-265	CLIENT: HDR Engineering Inc
ADDRESS: I-71 Widening Zorn Ave to I-265	CONTACT: Rebecca Colvin
CITY/STATE: Louisville KY	INQUIRY #: 5862144.5s
ZIP: 40222	DATE: 11/15/19

Copyright © 2019 EDR, Inc. © 2015 TomTom Rel. 2015.

MAPPED SITES SUMMARY - FOCUS MAP 11

Target Property:
I-71 WIDENING ZORN AVE TO I-265
LOUISVILLE, KY 40222

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
60 / 11			KY SPILLS	TP
P63 / 11	I 71 - JEFFERSON CO	I-71	KY NPDES	TP
P64 / 11	I 71 - JEFFERSON CO	I-71	FINDS, ECHO	TP
P65 / 11	RECONSTRUCTION OF TH	I-71	KY NPDES	TP
R69 / 11	BP OIL STATION	1035 ZORN AVENUE	RCRA NonGen / NLR, FINDS, ECHO	59 0.011 NW
R70 / 11	CONVENIENCE PLUS #1	1035 ZORN AVE	KY UST	59 0.011 NW
R71 / 11	GULF B P OIL GAS STA	1035 ZORN AVE	EDR Hist Auto	59 0.011 NW
T77 / 11	ZORN AVENUE CHEVRON	3002 UPPER RIVER RD	EDR Hist Auto	578 0.109 NW
U78 / 11	RIVER ROAD COUNTRY C	2930 UPPER RIVER RD	KY UST, KY Financial Assurance	604 0.114 NW
U79 / 11	RIVER ROAD COUNTRY C	2930 UPPER RIVER ROA	RCRA NonGen / NLR, FINDS, ECHO	604 0.114 NW
U80 / 11	RIVER ROAD COUNTRY C	2930 RIVER RD	KY AST	604 0.114 NW
T81 / 11	RIVER RD CHEVRON	3002 RIVER RD	KY UST	612 0.116 NW
T82 / 11	ZORN AV CHEVRON SERV	3002 E RIVER RD	EDR Hist Auto	612 0.116 NW
83 / 11	LOUISVILLE WATER COM	3000 UPPER RIVER ROA	RCRA NonGen / NLR	643 0.122 NW
T84 / 11	LOUISVILLE WATER COM	3005 RIVER ROAD	RCRA NonGen / NLR	744 0.141 NW
92 / 11	PRABLE PROPERTY	4179 RIVER RD	KY UST	1077 0.204 NNW

Focus Map - 12 - 5862144.5s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
National Priority List Sites
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: I- 71 Widening Zorn Ave to I-265	CLIENT: HDR Engineering Inc
ADDRESS: I-71 Widening Zorn Ave to I-265	CONTACT: Rebecca Colvin
CITY/STATE: Louisville KY	INQUIRY #: 5862144.5s
ZIP: 40222	DATE: 11/15/19

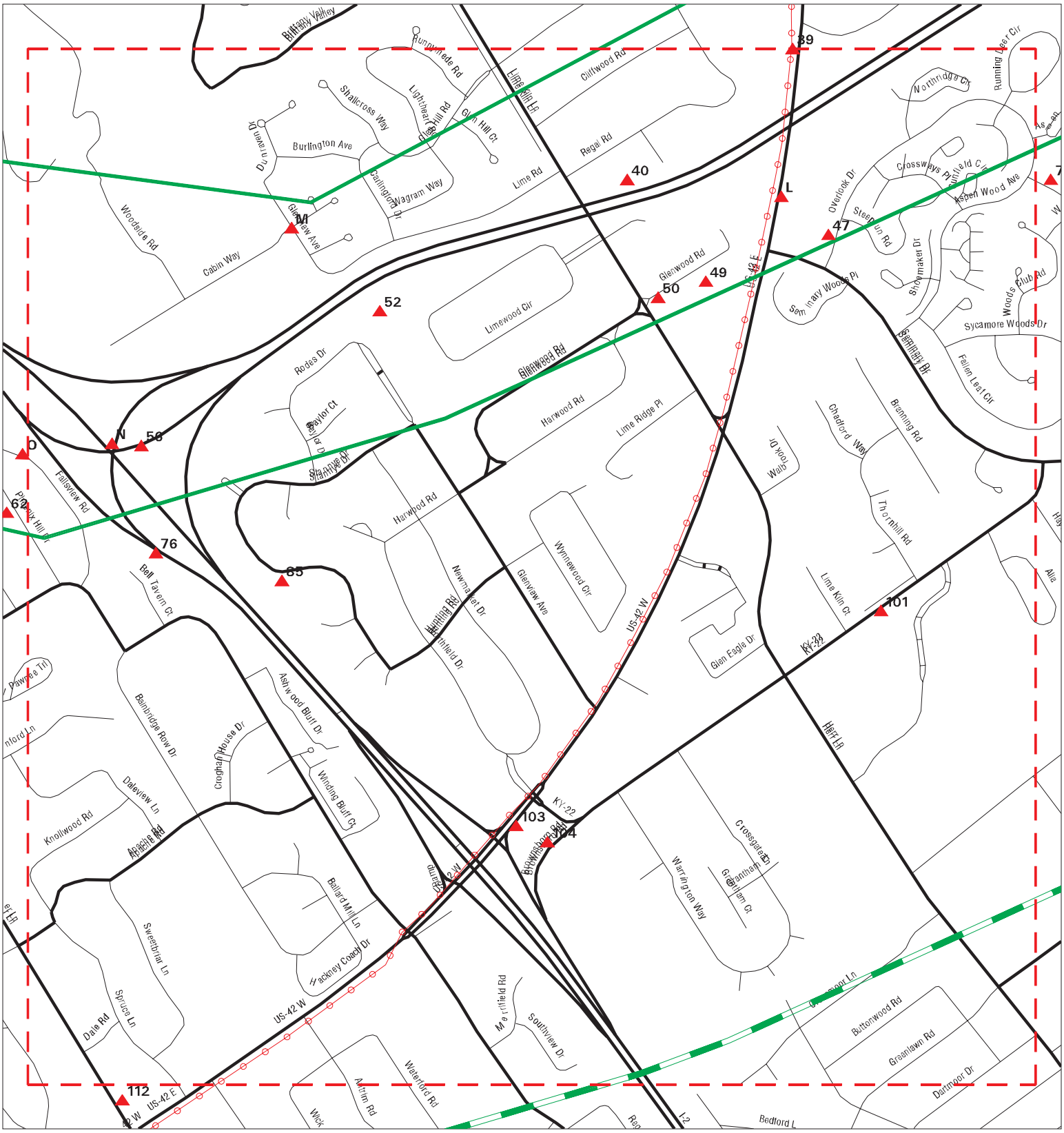
Copyright © 2019 EDR, Inc. © 2015 TomTom Rel. 2015.

MAPPED SITES SUMMARY - FOCUS MAP 12

Target Property:
I-71 WIDENING ZORN AVE TO I-265
LOUISVILLE, KY 40222

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
43 / 12	CHARLIE & ELISE BROW	2702 POPLAR HILL CT	FINDS	TP
48 / 12	PETROLEUM EXPRESS 11	I-71 N MM4	KY SHWS	TP
51 / 12			KY SPILLS	TP
53 / 12	WINDING CREEK SUBD	PHOENIX HILL DR	FINDS	TP
54 / 12	JAMES DERRICK ADAMS	4205 RIVIERA DR	FINDS	TP
O57 / 12	J KINGSLEY STRATTON	2401 FALLSVIEW RD	FINDS	TP
O61 / 12		2402 FALLSVIEW RD	ERNS	TP
62 / 12	RED BALL TRANSMISSIO	2400 PHOENIX HILL DR	EDR Hist Auto	TP
93 / 12	FLOOD OF 1997	RIVER RD	KY SHWS	1214 0.230 NNW
106 / 12	SLUNG RESIDENCE	172 ARROWHEAD DR	KY SHWS	3457 0.655 SSE
114 / 12	SIMS PROPERTY	91 WARRIOR ROAD	KY SHWS	4436 0.840 SSE

Focus Map - 13 - 5862144.5s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
National Priority List Sites
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: I- 71 Widening Zorn Ave to I-265	CLIENT: HDR Engineering Inc
ADDRESS: I-71 Widening Zorn Ave to I-265	CONTACT: Rebecca Colvin
CITY/STATE: Louisville KY	INQUIRY #: 5862144.5s
ZIP: 40222	DATE: 11/15/19

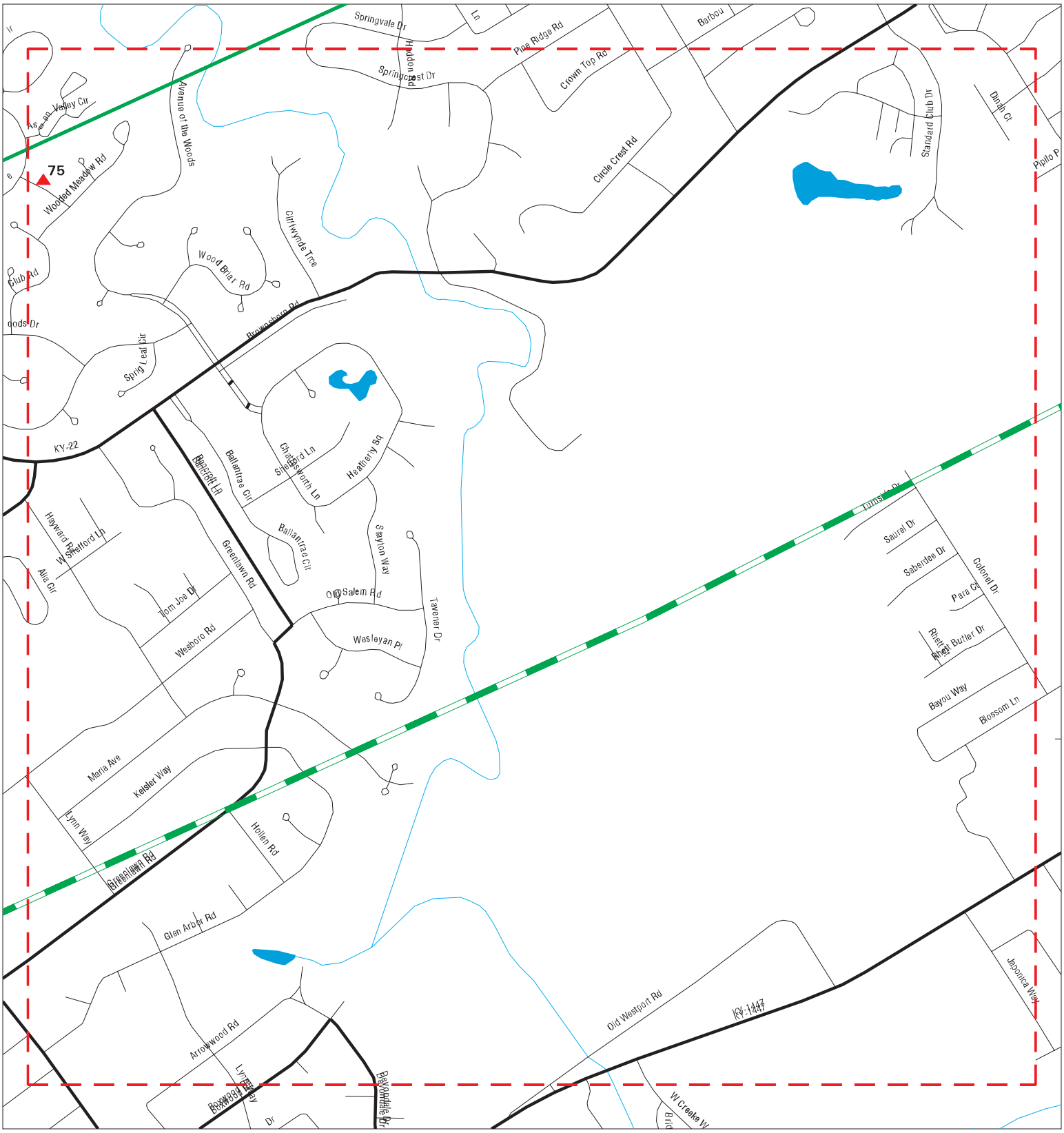
Copyright © 2019 EDR, Inc. © 2015 TomTom Rel. 2015.

MAPPED SITES SUMMARY - FOCUS MAP 13

Target Property:
I-71 WIDENING ZORN AVE TO I-265
LOUISVILLE, KY 40222

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
40 / 13			KY SPILLS	TP
L41 / 13	GLENVIEW TRUST	5900 US 42	FINDS, ECHO	TP
L42 / 13	GLENVIEW TRUST	5900 US 42	KY NPDES	TP
M44 / 13	GLENVIEW PARK SECTIO	GLENVIEW AVE & CABIN	FINDS, ECHO	TP
M45 / 13	GLENVIEW PARK SECTIO	GLENVIEW AVE & CABIN	KY NPDES	TP
M46 / 13	GLENVIEW PARK SECTIO	GLENVIEW AVE & CABIN	FINDS	TP
47 / 13	SUNRISE ASSISTED LIV	6700 OVERLOOK DR	FINDS	TP
49 / 13		6406 GLENWOOD ROAD	KY LEAD	TP
50 / 13		LIME KILN RD. UND. G	FINDS	TP
52 / 13			KY SPILLS	TP
N55 / 13	MS CARRIERS CATHODE	JUNCTION OF I-71 S A	KY SHWS	TP
56 / 13	STATEWIDE TRANSPORT	I-71 & I-264	KY SHWS	TP
N58 / 13			KY SPILLS	TP
N59 / 13			KY SPILLS	TP
76 / 13	TRANSCORP INTERNATIO	I-264 WB AND I-71 SB	KY SHWS	354 0.067 SSE
85 / 13	MSD	2318 STANNYE DR	KY AST	838 0.159 SSE
101 / 13	OVERSTREET AUTO SERV	6500 BROWNSBORO RD	KY SHWS	2746 0.520 SSE
103 / 13	HOLIDAY CLEANERS	4820 US HIGHWAY 42	KY SHWS	3168 0.600 SSE
104 / 13	CHEVRON OFFICE BLDG	4902 BROWNSBORO ROAD	KY SHWS	3357 0.636 SSE

Focus Map - 14 - 5862144.5s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
National Priority List Sites
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: I- 71 Widening Zorn Ave to I-265	CLIENT: HDR Engineering Inc
ADDRESS: I-71 Widening Zorn Ave to I-265	CONTACT: Rebecca Colvin
CITY/STATE: Louisville KY	INQUIRY #: 5862144.5s
ZIP: 40222	DATE: 11/15/19

Copyright © 2019 EDR, Inc. © 2015 TomTom Rel. 2015.

MAPPED SITES SUMMARY - FOCUS MAP 14

Target Property:
I-71 WIDENING ZORN AVE TO I-265
LOUISVILLE, KY 40222

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
75 / 14	J-TOWN LAUNDERETTE	3007 ASPENWOOD WAY	EDR Hist Cleaner	261 0.049 SSE

Focus Map - 15 - 5862144.5s



SITE NAME: I- 71 Widening Zorn Ave to I-265	CLIENT: HDR Engineering Inc
ADDRESS: I-71 Widening Zorn Ave to I-265	CONTACT: Rebecca Colvin
CITY/STATE: Louisville KY	INQUIRY #: 5862144.5s
ZIP: 40222	DATE: 11/15/19

Copyright © 2019 EDR, Inc. © 2015 TomTom Rel. 2015.

MAPPED SITES SUMMARY - FOCUS MAP 15

Target Property:
I-71 WIDENING ZORN AVE TO I-265
LOUISVILLE, KY 40222

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION

NO MAPPED SITES FOUND

Focus Map - 16 - 5862144.5s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
National Priority List Sites
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME:	I- 71 Widening Zorn Ave to I-265	CLIENT:	HDR Engineering Inc
ADDRESS:	I-71 Widening Zorn Ave to I-265	CONTACT:	Rebecca Colvin
CITY/STATE:	Louisville KY	INQUIRY #:	5862144.5s
ZIP:	40222	DATE:	11/15/19

Copyright © 2019 EDR, Inc. © 2015 TomTom Rel. 2015.

MAPPED SITES SUMMARY - FOCUS MAP 16

Target Property:
I-71 WIDENING ZORN AVE TO I-265
LOUISVILLE, KY 40222

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION		
96 / 16	SOUTH WIND MINING	2611 UPPER RIVER RD	KY SWF/LF, KY NPDES	1822	0.345	WSW
107 / 16	RIVER METALS RECYCLI	2114 METAL LN	KY SHWS, KY ENG CONTROLS, KY INST CONTRO	3678	0.697	WSW
X109 / 16	OPERATION BRIGHTSIDE	2041 RIVER RD	KY SHWS	4037	0.765	WSW
X110 / 16	EDITH AVE LANDFILL	EDITH RD AT RIVER RD	KY SHWS, KY SWF/LF, KY Financial Assuran...	4073	0.771	WSW
111 / 16	METAL SERVICES COMME	2033 METAL LANE	KY SHWS, KY INST CONTROL	4368	0.827	WSW
113 / 16	CHAMPIONS PARK	2050 RIVER ROAD	KY SHWS, KY INST CONTROL	4421	0.837	WSW

Focus Map - 17 - 5862144.5s



SITE NAME: I- 71 Widening Zorn Ave to I-265	CLIENT: HDR Engineering Inc
ADDRESS: I-71 Widening Zorn Ave to I-265	CONTACT: Rebecca Colvin
CITY/STATE: Louisville KY	INQUIRY #: 5862144.5s
ZIP: 40222	DATE: 11/15/19

Copyright © 2019 EDR, Inc. © 2015 TomTom Rel. 2015.

MAPPED SITES SUMMARY - FOCUS MAP 17

Target Property:
I-71 WIDENING ZORN AVE TO I-265
LOUISVILLE, KY 40222

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION		
66 / 17			KY SPILLS	TP		
W88 / 17	LOUISVILLE VETERANS	800 ZORN AVENUE	SEMS-ARCHIVE, RCRA-SQG, DOCKET HWC, NY M	929	0.176	SSE
W89 / 17	VETERANS HOSPITAL	800 ZORN AVE BLDG 8	KY AST	929	0.176	SSE
W90 / 17	VA HOSPITAL	800 ZORN AVE	KY SHWS, KY UST	929	0.176	SSE
W91 / 17	VETERANS ADMINISTRAT	800 ZORN AVE	KY AST	929	0.176	SSE
108 / 17	KIRCHNER PROPERTY	518 NORTH HITE AVE.	KY SHWS, KY CDL	4020	0.761	SSW
115 / 17	ALLTRADE SERVICES SO	2600 LE BLANC CT. #	KY SHWS, KY CDL	4869	0.922	South

Focus Map - 18 - 5862144.5s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
National Priority List Sites
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: I- 71 Widening Zorn Ave to I-265	CLIENT: HDR Engineering Inc
ADDRESS: I-71 Widening Zorn Ave to I-265	CONTACT: Rebecca Colvin
CITY/STATE: Louisville KY	INQUIRY #: 5862144.5s
ZIP: 40222	DATE: 11/15/19

Copyright © 2019 EDR, Inc. © 2015 TomTom Rel. 2015.

MAPPED SITES SUMMARY - FOCUS MAP 18

Target Property:
I-71 WIDENING ZORN AVE TO I-265
LOUISVILLE, KY 40222

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION

NO MAPPED SITES FOUND

Focus Map - 19 - 5862144.5s



Sites
Target Property
Search Buffer
Focus Map - No Sites
Focus Map - Sites
Power Line
National Priority List Sites
Dept. Defense Sites
Indian Reservations BIA

0 1/8 1/4 Miles

SITE NAME: I- 71 Widening Zorn Ave to I-265	CLIENT: HDR Engineering Inc
ADDRESS: I-71 Widening Zorn Ave to I-265	CONTACT: Rebecca Colvin
CITY/STATE: Louisville KY	INQUIRY #: 5862144.5s
ZIP: 40222	DATE: 11/15/19

Copyright © 2019 EDR, Inc. © 2015 TomTom Rel. 2015.

MAPPED SITES SUMMARY - FOCUS MAP 19

Target Property:
I-71 WIDENING ZORN AVE TO I-265
LOUISVILLE, KY 40222

MAP ID / FOCUS MAP	SITE NAME	ADDRESS	DATABASE ACRONYMS	DIST (ft. & mi.) DIRECTION
112 / 19	STRANGE RESIDENCE	103 BLANKENBAKER LAN	KY SHWS	4380 0.830 South

A1
Target Property **LOUISVILLE, KY**

KY SPILLS **S117083800**
N/A

Site 1 of 3 in cluster A

Actual: **659 ft.**

Focus Map: **8**

SPILLS:

Name:	Not reported
Address:	Not reported
Facility Status:	Env. Closed
Incident Type:	TRANSPORTATION ACCIDENT - TRUCK
Program Code:	04
Received By Staff:	Sims, Keith
Received Date:	11/12/2004
Report Date:	2004-11-12 16:37:00
Dispatch Description:	Truck accident spilled diesel.
Source Name:	U.S. Express Enterprises
Source Address:	I-265 at I-71 EOC# 20043517
Substances:	Diesel:125
Other Substances Desc:	Not reported
Media Impacted:	Env Protection
Inc ID:	187878
Lead Invest Person ID:	9449
Compliance:	Yes
Notification:	No
Priority:	Routine
Incident End Date:	2005-08-29 00:00:00
Follow Up Priority Desc:	Routine
Most Recent Comp Eval Activity:	Not reported
Most Recent ENF Activity:	Not reported
Begin Emergency Date:	Not reported
End Emergency Date:	Not reported
MARS Function Code:	Not reported
Locked:	No
Closure Type Desc:	Env. Closed-Contained or Managed
Latitude:	38.31666
Longitude:	-85.58333

A2
Target Property **LOUISVILLE, KY**

KY SPILLS **S117081588**
N/A

Site 2 of 3 in cluster A

Actual: **659 ft.**

Focus Map: **8**

SPILLS:

Name:	Not reported
Address:	Not reported
Facility Status:	Env. Closed
Incident Type:	TRANSPORTATION ACCIDENT - TRUCK
Program Code:	04
Received By Staff:	Sims, Keith
Received Date:	09/15/2004
Report Date:	2004-09-15 10:01:00
Dispatch Description:	Truck accident spilled hydraulic fluid and oil.
Source Name:	Not reported
Source Address:	I-71 South Ramp to I-265 South EOC# 20042819
Substances:	Not reported
Other Substances Desc:	hydraulic fluid and motor oil
Media Impacted:	Env Protection
Inc ID:	185389

(Continued) **S117081588**

Lead Invest Person ID:	9449
Compliance:	Yes
Notification:	No
Priority:	Routine
Incident End Date:	2004-09-17 00:00:00
Follow Up Priority Desc:	Routine
Most Recent Comp Eval Activity:	Not reported
Most Recent ENF Activity:	Not reported
Begin Emergency Date:	Not reported
End Emergency Date:	Not reported
MARS Function Code:	Not reported
Locked:	No
Closure Type Desc:	Env. Closed-Contained or Managed
Latitude:	38.31666
Longitude:	-85.58333

A3 **KY SPILLS** **S117116865**
Target Property **LOUISVILLE, KY** **N/A**

Site 3 of 3 in cluster A

Actual: 659 ft.
Focus Map: 8

SPILLS:

Name:	Not reported
Address:	Not reported
Facility Status:	Env. Closed
Incident Type:	TRANSPORTATION ACCIDENT - TRUCK
Program Code:	08
Received By Staff:	Sims, Keith
Received Date:	06/13/2007
Report Date:	2007-06-13 12:45:00
Dispatch Description:	Robbie Francis called to report that containers are leaking Isogrip.
Source Name:	Ashland Inc.
Source Address:	I-71 South ramp to I-264 West EOC# 20071851 NRC# 838500
Substances:	Not reported
Other Substances Desc:	Urethane
Media Impacted:	Solid Waste
Inc ID:	2260489
Lead Invest Person ID:	9449
Compliance:	Yes
Notification:	No
Priority:	Emergency, Immed. Resp.
Incident End Date:	2008-05-29 00:00:00
Follow Up Priority Desc:	Not reported
Most Recent Comp Eval Activity:	Not reported
Most Recent ENF Activity:	Not reported
Begin Emergency Date:	6/13/2007
End Emergency Date:	6/13/2007
MARS Function Code:	J027
Locked:	Yes
Closure Type Desc:	Env. Closed-Mitigated
Latitude:	38.31666
Longitude:	-85.58333

4 **BS EXPRESS DIAZINON SPILL** **KY SHWS** **S106885702**
Target **I-71 AT I-265** **N/A**
Property **LOUISVILLE, KY 40202**

Actual: **665 ft.**
Focus Map: **8**

SHWS:

Name:	BS EXPRESS DIAZINON SPILL
Address:	I-71 AT I-265
City,State,Zip:	LOUISVILLE, KY 40202
Facility Id:	55593
Status:	**Closed**
Description:	Closed 10/4/05 Option C-BS Express-Syngenta Diazinon Spill (TI # 55593)
Closure Date:	10/04/2005
Longitude:	-85.584472
Latitude:	38.315389
Subject Item County:	Jefferson
Sub Item Longitude:	-85.584472
Sub Item Latitude:	38.315389
Subject Item Address:	Jct of I-71 & I-265
Subject Item Address2:	Not reported
Subject Item City,St,Zip:	Louisville, KY 40202
Regulatory Desc:	State Superfund
Closure Option:	Option C Restored
Side SG:	Trans. Accident

Name:	BS EXPRESS DIAZINON SPILL
Address:	I-71 AT I-265
City,State,Zip:	LOUISVILLE, KY 40014
Facility Id:	55593
Status:	**Closed**
Description:	Restored 10/4/05-Truck wreck spilled 1,000 gall. of Diazinon
Closure Date:	10/04/2005
Longitude:	-85.584472
Latitude:	38.315389
Subject Item County:	Jefferson
Sub Item Longitude:	-85.584472
Sub Item Latitude:	38.315389
Subject Item Address:	Jct of I-71 & I-265
Subject Item Address2:	Not reported
Subject Item City,St,Zip:	Louisville, KY 40202
Regulatory Desc:	State Superfund
Closure Option:	Option C Restored
Side SG:	BS Exp. Syng. Diazinon sp

B5 **BS XPRESS DIAZINON SPILL** **SEMS** **1006812527**
Target **INTERSECTION OF I-71 & I-265** **PRP** **KYN000407635**
Property **LOUISVILLE, KY 40207**

Site 1 of 3 in cluster B

Actual: **678 ft.**
Focus Map: **8**

SEMS:

Site ID:	0407635
EPA ID:	KYN000407635
Cong District:	Not reported
FIPS Code:	21111
Latitude:	Not reported
Longitude:	Not reported
FF:	N
NPL:	Not on the NPL
Non NPL Status:	Removal Only Site (No Site Assessment Work Needed)

BS XPRESS DIAZINON SPILL (Continued) **1006812527**

SEMS Detail:

Region:	04
Site ID:	0407635
EPA ID:	KYN000407635
Site Name:	BS XPRESS DIAZINON SPILL
NPL:	N
FF:	N
OU:	00
Action Code:	RV
Action Name:	RMVL
SEQ:	1
Start Date:	2003-05-25 04:00:00
Finish Date:	8/7/2003 4:00:00 AM
Qual:	S
Current Action Lead:	EPA Perf

Region:	04
Site ID:	0407635
EPA ID:	KYN000407635
Site Name:	BS XPRESS DIAZINON SPILL
NPL:	N
FF:	N
OU:	00
Action Code:	PJ
Action Name:	RP EM REM
SEQ:	1
Start Date:	2003-05-20 04:00:00
Finish Date:	8/7/2003 4:00:00 AM
Qual:	S
Current Action Lead:	EPA Ovrsght

PRP:

EPAID:	KYN000407635
PRP Name:	BS XPRESS, INC.
Site ID:	0407635
Facility Name:	BS XPRESS DIAZINON SPILL
Facility Address:	INTERSECTION OF I-71 & I-265
Facility City:	LOUISVILLE
Facility State:	KY
Facility Zip:	40207
NPL Status:	Not on the NPL
NPL Status Short Name:	Removal Only Site (No Site Assessment Work Needed)
PRP Address:	4703 SOUTH 169 HIGHWAY
PRP City:	ST. JOSEPH
PRP State:	MO
PRP Zip:	64507
Data Type:	SETTLEMENT DATE
Action Date:	2006-04-14 04:00:00
Settlement Code:	AV-1
Settlement:	ADMIN CR

Action Date:	2006-04-14 04:00:00
Settlement Code:	AV-1
Settlement:	ADMIN CR

B6 **ERNS** **873023**
Target Property **I-71 SOUTHBOUND AT KY 841** **N/A**
LOUISVILLE, KY

Site 2 of 3 in cluster B

Actual: 675 ft.

Focus Map: 8

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

C7 **SPRINGDALE BAPTIST CHURCH** **FINDS** **1015798792**
Target Property **4601 SPRINGDALE RD** **N/A**
LOUISVILLE, KY 40241

Site 1 of 2 in cluster C

Actual: 651 ft.

FINDS:

Focus Map: 8

Registry ID: 110045030257

Environmental Interest/Information System
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

C8 **SPRINGDALE CHURCH** **KY NPDES** **S108083405**
Target Property **4601 SPRINGDALE RD** **N/A**
LOUISVILLE, KY 40241

Site 2 of 2 in cluster C

Actual: 651 ft.

NPDES:

Focus Map: 8

Name:	SPRINGDALE CHURCH
Address:	4601 SPRINGDALE RD
City,State,Zip:	LOUISVILLE, KY 40241
Federal Facility ID:	Not reported
Facility Status:	INACTIVE
KY DES #:	KYR105597
Total App# Design Flow (MGD):	Not reported
Horizontal Collect Method Desc:	Not reported
Facility Addr 2:	Not reported
Inactive Date:	10/19/2010
Design Capacity:	Not reported
Fee Category:	Not reported
SIC Code:	8661
Lat/Long:	Not reported
Lat/Long Method:	Not reported
USGS Hydrologic Basin Code:	Not reported
Facility Stream Segment:	Not reported
Facility Mileage Indicator:	Not reported
Basin Code:	Not reported
Basin Code Description:	Not reported
DMR Contact:	BRIAN J BOBO

SPRINGDALE CHURCH (Continued) **S108083405**

Contact Telephone:	5022287726
Mailing Address:	460 SPRINGDALE RD
Mailing Address 2:	Not reported
Mailing City,St,Zip:	LOUISVILLE, KY 40241
Permit Issued:	07/01/2009
Permit Expires:	07/31/2014
SIC Code Description:	RELIGIOUS ORGANIZATIONS
Reveiving Waters:	LITTLE GOOSE CRK
Major/Minor:	MINOR
Effective Date:	Not reported
Affiliation Type Desc:	Not reported
Organization Formal Name:	Not reported
Facility Type Desc:	Not reported
State Facility ID:	Not reported
Original Issue Date:	Not reported
Approved For Electronic DMR Submission:	Not reported

B9
Target Property **LOUISVILLE, KY**

KY SPILLS **S117109029**
N/A

Site 3 of 3 in cluster B

Actual:
682 ft.

Focus Map:
8

SPILLS:

Name:	Not reported
Address:	Not reported
Facility Status:	Env. Closed
Incident Type:	TRANSPORTATION ACCIDENT - TRUCK
Program Code:	08
Received By Staff:	Sims, Keith
Received Date:	12/01/2006
Report Date:	2006-11-30 22:13:00
Dispatch Description:	Jacknifed CMV - ruptured fuel tank. Spill reportes as 100 gallons, but FD put a pool under tank and caught most of it.
Source Name:	Celadon Trucking Service Inc.
Source Address:	I-71 @ I-265 SB ramp
Substances:	Diesel:15
Other Substances Desc:	Not reported
Media Impacted:	Solid Waste
Inc ID:	2251675
Lead Invest Person ID:	9449
Compliance:	Yes
Notification:	No
Priority:	Emergency, Immed. Resp.
Incident End Date:	2007-01-09 00:00:00
Follow Up Priority Desc:	Not reported
Most Recent Comp Eval Activity:	Not reported
Most Recent ENF Activity:	Not reported
Begin Emergency Date:	11/30/2006
End Emergency Date:	12/1/2006
MARS Function Code:	I621
Locked:	No
Closure Type Desc:	Env. Closed-Contained or Managed
Latitude:	38.31450
Longitude:	-85.58144

10
Target Property **LOUISVILLE, KY**

Actual: 673 ft.

Focus Map: 8

KY SPILLS **S117094625**
N/A

SPILLS:

Name:	Not reported
Address:	Not reported
Facility Status:	Env. Closed
Incident Type:	TRANSPORTATION ACCIDENT - TRUCK
Program Code:	08
Received By Staff:	Sims, Keith
Received Date:	10/27/2005
Report Date:	2005-10-27 15:45:00
Dispatch Description:	Truck accident spilled diesel.
Source Name:	Heavy Equipment & Truck Sales
Source Address:	34.6 MM of 265 South Bound EOC# 20053309, NRC 777660
Substances:	Diesel:150
Other Substances Desc:	Not reported
Media Impacted:	Solid Waste
Inc ID:	200584
Lead Invest Person ID:	9449
Compliance:	Yes
Notification:	No
Priority:	Emergency, Immed. Resp.
Incident End Date:	2005-11-17 00:00:00
Follow Up Priority Desc:	Emergency, Immed. Resp.
Most Recent Comp Eval Activity:	Not reported
Most Recent ENF Activity:	Not reported
Begin Emergency Date:	10/31/2005
End Emergency Date:	10/31/2005
MARS Function Code:	H732
Locked:	No
Closure Type Desc:	Env. Closed-Contained or Managed
Latitude:	38.31425
Longitude:	-85.58136

D11
Target Property **NORTON HEATHCARE**
4950 NORTON HEALTHCARE BLVD
LOUISVILLE, KY 40203

Site 1 of 5 in cluster D

Actual: 674 ft.

Focus Map: 8

FINDS **1015975240**
N/A

FINDS:

Registry ID: 110045163283

Environmental Interest/Information System
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

D12 NORTON BROWNSBORO HOSPITAL **KY NPDES** **S109495267**
Target 4950 NORTON HEALTHCARE BLVD **N/A**
Property LOUISVILLE, KY 40241

Site 2 of 5 in cluster D

Actual: **674 ft.**

Focus Map: **8**

NPDES:

Name:	NORTON BROWNSBORO HOSPITAL
Address:	4950 NORTON HEALTHCARE BLVD
City,State,Zip:	LOUISVILLE, KY 40241
Federal Facility ID:	Not reported
Facility Status:	INACTIVE
KY DES #:	KYR109389
Total App# Design Flow (MGD):	Not reported
Horizontal Collect Method Desc:	Not reported
Facility Addr 2:	Not reported
Inactive Date:	10/19/2010
Design Capacity:	Not reported
Fee Category:	Not reported
SIC Code:	1611
Lat/Long:	Not reported
Lat/Long Method:	Not reported
USGS Hydrologic Basin Code:	Not reported
Facility Stream Segment:	Not reported
Facility Mileage Indicator:	Not reported
Basin Code:	Not reported
Basin Code Description:	Not reported
DMR Contact:	ANGELA STOKES
Contact Telephone:	5023946464
Mailing Address:	ANGELA STOKES
Mailing Address 2:	4950 NORTON HEALTHCARE BLVD
Mailing City,St,Zip:	LOUISVILLE, KY 40241
Permit Issued:	07/01/2009
Permit Expires:	07/31/2014
SIC Code Description:	HWY & ST CONST., EXC. ELEV HWY
Reveiving Waters:	Not reported
Major/Minor:	MINOR
Effective Date:	Not reported
Affiliation Type Desc:	Not reported
Organization Formal Name:	Not reported
Facility Type Desc:	Not reported
State Facility ID:	Not reported
Original Issue Date:	Not reported
Approved For Electronic DMR Submission:	Not reported

Name:	NORTONS BROWNSBORO HOSPITAL BED TOWER ADDITION
Address:	4950 NORTON HEALTHCARE BLVD
City,State,Zip:	KY 40241
Federal Facility ID:	Not reported
Facility Status:	Effective
KY DES #:	KYR10M476
Total App# Design Flow (MGD):	Not reported
Horizontal Collect Method Desc:	Not reported
Facility Addr 2:	Not reported
Inactive Date:	Not reported
Design Capacity:	Not reported
Fee Category:	Not reported
SIC Code:	1611
Lat/Long:	38.313301 / -85.574107

NORTON BROWNSBORO HOSPITAL (Continued) **S109495267**

Lat/Long Method:	Not reported
USGS Hydrologic Basin Code:	027
Facility Stream Segment:	Not reported
Facility Mileage Indicator:	Not reported
Basin Code:	Not reported
Basin Code Description:	Not reported
DMR Contact:	Not reported
Contact Telephone:	Not reported
Mailing Address:	503 Washburn Ave
Mailing Address 2:	Not reported
Mailing City,St,Zip:	Louisville, KY 40222
Permit Issued:	05/01/2018
Permit Expires:	11/30/2019
SIC Code Description:	Highway And Street Construction
Reveiving Waters:	MSD
Major/Minor:	Minor
Effective Date:	05/01/2018
Affiliation Type Desc:	PMA
Organization Formal Name:	Nortons Brownsboro Hospital Bed Tower Addition
Facility Type Desc:	Not reported
State Facility ID:	11495
Original Issue Date:	05/01/2018
Approved For Electronic DMR Submission:	No

D13 **NORTON BROWNSBORO HOSPITAL** **FINDS** **1011926939**
Target **4950 NORTON HEALTHCARE BLVD** **ECHO** **N/A**
Property **LOUISVILLE, KY 40241**

Site 3 of 5 in cluster D

Actual: **674 ft.**

FINDS:

Focus Map: **8**

Registry ID: 110037482088

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Registry ID: 110070226671

Environmental Interest/Information System

US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

NORTON BROWNSBORO HOSPITAL (Continued) **1011926939**

ECHO:
Envid: 1011926939
Registry ID: 110037482088
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110037482088

D14 Target Property **NORTON BROWNSBORO HOSPITAL**
4950 NORTON HEALTHCARE BLVD
LOUISVILLE, KY 40241

RCRA NonGen / NLR **1012179395**
KYR000050575

Site 4 of 5 in cluster D

Actual: 674 ft.

Focus Map: 8

RCRA NonGen / NLR:
Date form received by agency: 2018-08-07 00:00:00.0
Facility name: NORTON BROWNSBORO HOSPITAL
Facility address: 4950 NORTON HEALTHCARE BLVD
LOUISVILLE, KY 40241
EPA ID: KYR000050575
Mailing address: NORTON HEALTHCARE BLVD
LOUISVILLE, KY 40241
Contact: DAVID WHITTAKER
Contact address: NORTON HEALTHCARE BLVD
LOUISVILLE, KY 40241
Contact country: US
Contact telephone: 502-394-6428
Contact email: Not reported
EPA Region: 04
Land type: Private
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: NORTON HEALTHCARE
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 1999-09-01 00:00:00.0
Owner/Op end date: Not reported

Owner/operator name: NORTON HEALTHCARE
Owner/operator address: NORTON HEALTHCARE BLD.
LOUISVILLE, KY 40241
Owner/operator country: US
Owner/operator telephone: 502-394-6428
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 1999-09-01 00:00:00.0
Owner/Op end date: Not reported

NORTON BROWNSBORO HOSPITAL (Continued) **1012179395**

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 2009-07-29 00:00:00.0
Site name: NORTON BROWNSBORO HOSPITAL
Classification: Conditionally Exempt Small Quantity Generator

Hazardous Waste Summary:

. Waste code: P001
. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: P012
. Waste name: ARSENIC OXIDE AS2O3 (OR) ARSENIC TRIOXIDE

. Waste code: U010
. Waste name: AZIRINO [2',3':3,4]PYRROLO[1,2-A]INDOLE-4,7-DIONE, 6-AMINO-8-[[(AMINOCARBONYL)OXY]METHYL]-1,1A,2,8,8A,8B-HEXAHYDRO-8A-METHOXY-5-METHYL-, [1AS-(1AALPHA, 8BETA, 8AALPHA, 8BALPHA)]- (OR) MITOMYCIN C

. Waste code: U058
. Waste name: 2H-1,3,2-OXAZAPHOSPHORIN-2-AMINE, N,N-BIS(2-CHLOROETHYL)TETRAHYDRO-, 2-OXIDE (OR) CYCLOPHOSPHAMIDE

. Waste code: U059
. Waste name: 5,12-NAPHTHACENEDIONE, 8-ACETYL-10-[(3-AMINO-2,3,6-TRIDEOXY)-ALPHA-L-LYXO-HEXOPYRANOSYL)OXY]-7,8,9,10-TETRAHYDRO-6,8,11-TRIHYDROXY-1-METHOXY-, (8S-CIS)- (OR) DAUNOMYCIN

. Waste code: U122
. Waste name: FORMALDEHYDE

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 2012-07-19 00:00:00.0

NORTON BROWNSBORO HOSPITAL (Continued) **1012179395**

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

D15 **NORTONS BROWNSBORO HOSPITAL BED TOWER ADDITION** **ECHO** **1024131781**
Target **4950 NORTON HEALTHCARE BLVD** **N/A**
Property **LOUISVILLE, KY 40241**

Site 5 of 5 in cluster D

Actual: **674 ft.**
Focus Map: **8**

ECHO:
Envid: 1024131781
Registry ID: 110070226671
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110070226671

E16 **KY SPILLS** **S111312027**
Target **N/A**
Property **LOUISVILLE, KY**

Site 1 of 2 in cluster E

Actual: **658 ft.**
Focus Map: **8**

SPILLS:
Name: Not reported
Address: Not reported
Facility Status: Env. Closed
Incident Type: TRANSPORTATION ACCIDENT - TRUCK
Program Code: 08
Received By Staff: Sims, Keith
Received Date: 10/29/2011
Report Date: 2011-10-29 12:51:00
Dispatch Description: Jefferson Co MSD reported an overturned CMV that released about 40Gals of fuel at the I-71 South ramp to 841 West. The accident occurred at 0900. The truck has been up righted and most units have cleared the scene. Evergreen Environmental responded for th
Source Name: Unknown
Source Address: 71 S ramp to 841 W
Substances: Diesel:40
Other Substances Desc: Not reported
Media Impacted: Solid Waste
Inc ID: 2338017
Lead Invest Person ID: 9449
Compliance: Yes
Notification: No
Priority: Routine
Incident End Date: 2011-11-08 00:00:00
Follow Up Priority Desc: Not reported
Most Recent Comp Eval Activity: Not reported
Most Recent ENF Activity: Not reported
Begin Emergency Date: Not reported
End Emergency Date: Not reported
MARS Function Code: Not reported
Locked: Yes
Closure Type Desc: Env. Closed-Mitigated
Latitude: 38.31388
Longitude: -85.58361

E17 **KY SPILLS** **S111311900**
Target Property **LOUISVILLE, KY** **N/A**

Site 2 of 2 in cluster E

Actual: 658 ft.

Focus Map: 8

SPILLS:

Name:	Not reported
Address:	Not reported
Facility Status:	Env. Closed
Incident Type:	TRANSPORTATION ACCIDENT - TRUCK
Program Code:	08
Received By Staff:	Sims, Keith
Received Date:	09/19/2011
Report Date:	2011-09-19 09:38:00
Dispatch Description:	Jack-knifed CMV. 75 gallon diesel fuel spill. Contrary to EOC report, CMV is not overturned. Pettit Environmental to do cleanup.
Source Name:	TranService Logistics
Source Address:	I-71 SB ramp to I-265 SB (Gene Snyder)
Substances:	Diesel:45
Other Substances Desc:	Not reported
Media Impacted:	Solid Waste
Inc ID:	2336457
Lead Invest Person ID:	9449
Compliance:	Yes
Notification:	No
Priority:	Emergency, Immed. Resp.
Incident End Date:	2011-09-26 00:00:00
Follow Up Priority Desc:	Not reported
Most Recent Comp Eval Activity:	Not reported
Most Recent ENF Activity:	Not reported
Begin Emergency Date:	9/19/2011
End Emergency Date:	9/19/2011
MARS Function Code:	M281
Locked:	Yes
Closure Type Desc:	Env. Closed-Mitigated
Latitude:	38.31388
Longitude:	-85.58361

---

18 **J ROBERT WESTERMAN RESIDENCE** **FINDS** **1015848430**
Target Property **8507 RUNNING SPRING DR** **N/A**
LOUISVILLE, KY 40241

FINDS:

Actual: 631 ft.

Registry ID: 110045043902

Focus Map: 8

Environmental Interest/Information System
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

F19 STETTEN RESIDENCE **KY NPDES** **S107867261**
Target 4512 OLD SPRINGDALE RD **N/A**
Property LOUISVILLE, KY 40241

Site 1 of 2 in cluster F

Actual: NPDES:
649 ft.

Name:	STETTEN RESIDENCE
Address:	4512 OLD SPRINGDALE RD
City,State,Zip:	LOUISVILLE, KY 40241
Federal Facility ID:	Not reported
Facility Status:	INACTIVE
KY DES #:	KYG400207
Total App# Design Flow (MGD):	Not reported
Horizontal Collect Method Desc:	Not reported
Facility Addr 2:	Not reported
Inactive Date:	01/11/2008
Design Capacity:	Not reported
Fee Category:	Not reported
SIC Code:	6514
Lat/Long:	+3818280 / -08535220
Lat/Long Method:	A
USGS Hydrologic Basin Code:	05140101
Facility Stream Segment:	Not reported
Facility Mileage Indicator:	Not reported
Basin Code:	0521
Basin Code Description:	OR/OHIO R-MAIN STEM
DMR Contact:	Not reported
Contact Telephone:	5024266264
Mailing Address:	NANCY ANN LINDBERG STETTEN
Mailing Address 2:	4512 OLD SPRINGDALE RD
Mailing City,St,Zip:	LOUISVILLE, KY 40241
Permit Issued:	08/14/2002
Permit Expires:	06/30/2007
SIC Code Description:	OPER OF DWELL OTHER THAN APART
Reveiving Waters:	GOOSE CRK
Major/Minor:	MINOR
Effective Date:	Not reported
Affiliation Type Desc:	Not reported
Organization Formal Name:	Not reported
Facility Type Desc:	Not reported
State Facility ID:	Not reported
Original Issue Date:	Not reported
Approved For Electronic DMR Submission:	Not reported

Focus Map: 8

F20 SUMMIT RIDGE **KY NPDES** **S108083515**
Target 4508 SPRINGDALE RD **N/A**
Property LOUISVILLE, KY 40242

Site 2 of 2 in cluster F

Actual: NPDES:
649 ft.

Name:	SUMMIT RIDGE
Address:	4508 SPRINGDALE RD
City,State,Zip:	LOUISVILLE, KY 40242
Federal Facility ID:	Not reported
Facility Status:	INACTIVE
KY DES #:	KYR105185
Total App# Design Flow (MGD):	Not reported
Horizontal Collect Method Desc:	Not reported

Focus Map: 8

SUMMIT RIDGE (Continued) **S108083515**

Facility Addr 2:	Not reported
Inactive Date:	10/19/2010
Design Capacity:	Not reported
Fee Category:	Not reported
SIC Code:	1611
Lat/Long:	Not reported
Lat/Long Method:	Not reported
USGS Hydrologic Basin Code:	Not reported
Facility Stream Segment:	Not reported
Facility Mileage Indicator:	Not reported
Basin Code:	Not reported
Basin Code Description:	Not reported
DMR Contact:	CHRIS SCHIPPER
Contact Telephone:	5022450543
Mailing Address:	PINNACLE/BUG LLC
Mailing Address 2:	PO BOX 43957
Mailing City,St,Zip:	LOUISVILLE, KY 40253
Permit Issued:	07/01/2009
Permit Expires:	07/31/2014
SIC Code Description:	HWY & ST CONST., EXC. ELEV HWY
Reveiving Waters:	LITTLE GROOSE CK
Major/Minor:	MINOR
Effective Date:	Not reported
Affiliation Type Desc:	Not reported
Organization Formal Name:	Not reported
Facility Type Desc:	Not reported
State Facility ID:	Not reported
Original Issue Date:	Not reported
Approved For Electronic DMR Submission:	Not reported

G21 **US WORLDMEDS HEADQUARTERS** **KY NPDES** **S117570900**
Target **4441 SPRINGDALE RD** **N/A**
Property **JEFFERSON (County), KY 40241**

Site 1 of 2 in cluster G

Actual: **660 ft.**

Focus Map: **8**

NPDES:

Name:	US WORLDMEDS HEADQUARTERS
Address:	4441 SPRINGDALE RD
City,State,Zip:	KY 40241
Federal Facility ID:	Not reported
Facility Status:	Terminated
KY DES #:	KYR10H791
Total App# Design Flow (MGD):	Not reported
Horizontal Collect Method Desc:	Not reported
Facility Addr 2:	Not reported
Inactive Date:	03/31/2016
Design Capacity:	Not reported
Fee Category:	Not reported
SIC Code:	1611
Lat/Long:	38.311895 / -85.584698
Lat/Long Method:	Not reported
USGS Hydrologic Basin Code:	027
Facility Stream Segment:	Not reported
Facility Mileage Indicator:	Not reported
Basin Code:	Not reported
Basin Code Description:	Not reported
DMR Contact:	Not reported

US WORLDMEDS HEADQUARTERS (Continued) **S117570900**

Contact Telephone:	Not reported
Mailing Address:	4010 DuPont Cir
Mailing Address 2:	Not reported
Mailing City,St,Zip:	Louisville, KY 40207
Permit Issued:	09/24/2013
Permit Expires:	07/31/2014
SIC Code Description:	Highway And Street Construction
Reveiving Waters:	MSD
Major/Minor:	Minor
Effective Date:	09/24/2013
Affiliation Type Desc:	PMA
Organization Formal Name:	US WorldMeds Headquarters
Facility Type Desc:	Not reported
State Facility ID:	120135
Original Issue Date:	09/24/2013
Approved For Electronic DMR Submission:	No

G22 **US WORLDMEDS HEADQUARTERS** **FINDS** **1016446088**
Target **4441 SPRINGDALE RD** **ECHO** **N/A**
Property **LOUISVILLE, KY 40241**

Site 2 of 2 in cluster G

Actual: 660 ft.

Focus Map: 8

FINDS:

Registry ID: 110056146308

Environmental Interest/Information System

US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1016446088
Registry ID:	110056146308
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110056146308

H23 **JONES ASSOCIATES** **FINDS** **1015779627**
Target **4501 SPRINGDALE RD** **N/A**
Property **LOUISVILLE, KY 40241**

Site 1 of 3 in cluster H

Actual: **656 ft.**
FINDS:

Focus Map: **8**
Registry ID: 110045098853

Environmental Interest/Information System
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

H24 **JONES ASSOCIATES** **KY SHWS** **S109943900**
Target **4501 SPRINGDALE RD** **N/A**
Property **LOUISVILLE, KY 40241**

Site 2 of 3 in cluster H

Actual: **656 ft.**
SHWS:

Focus Map: **8**

Name:	JONES ASSOCIATES
Address:	4501 SPRINGDALE RD
City,State,Zip:	LOUISVILLE, KY 40241
Facility Id:	52663
Status:	**Closed**
Description:	JONES ASSOCIATES (Closed: Restored)
Closure Date:	06/09/1998
Longitude:	-85.585648
Latitude:	38.311764
Subject Item County:	Jefferson
Sub Item Longitude:	-85.585648
Sub Item Latitude:	38.311763
Subject Item Address:	4501 Springdale Rd
Subject Item Address2:	Not reported
Subject Item City,St,Zip:	Louisville, KY 40241
Regulatory Desc:	Petroleum Cleanup
Closure Option:	Option C Restored
Side SG:	48948

H25 **JONES ASSOCIATES** **KY RGA HWS** **S115713108**
Target **4501 SPRINGDALE RD** **N/A**
Property **LOUISVILLE, KY**

Site 3 of 3 in cluster H

Actual: **656 ft.**
RGA HWS:

Focus Map: **8**

2012	JONES ASSOCIATES	4501 SPRINGDALE RD
2011	JONES ASSOCIATES	4501 SPRINGDALE RD
2010	JONES ASSOCIATES	4501 SPRINGDALE RD
2009	JONES ASSOCIATES	4501 SPRINGDALE RD

I26 **JONES RESIDENCE** **KY NPDES** **S110777509**
Target **8302 RUNNING SPRING DR** **N/A**
Property **LOUISVILLE, KY 40241**

Site 1 of 2 in cluster I

Actual: **551 ft.**

Focus Map: **7**

NPDES:

Name:	JONES RESIDENCE
Address:	8302 RUNNING SPRING DR
City,State,Zip:	LOUISVILLE, KY 40241
Federal Facility ID:	Not reported
Facility Status:	INACTIVE
KY DES #:	KYG402071
Total App# Design Flow (MGD):	Not reported
Horizontal Collect Method Desc:	Not reported
Facility Addr 2:	Not reported
Inactive Date:	11/23/2010
Design Capacity:	Not reported
Fee Category:	Not reported
SIC Code:	6514
Lat/Long:	Not reported
Lat/Long Method:	Not reported
USGS Hydrologic Basin Code:	Not reported
Facility Stream Segment:	Not reported
Facility Mileage Indicator:	Not reported
Basin Code:	0521
Basin Code Description:	OR/OHIO R-MAIN STEM
DMR Contact:	Not reported
Contact Telephone:	5026092237
Mailing Address:	REBECCA JONES
Mailing Address 2:	8302 RUNNING SPRING DR
Mailing City,St,Zip:	LOUISVILLE, KY 40241
Permit Issued:	01/30/2008
Permit Expires:	12/31/2012
SIC Code Description:	OPER OF DWELL OTHER THAN APART
Reveiving Waters:	SPRAY IRIGATION
Major/Minor:	MINOR
Effective Date:	Not reported
Affiliation Type Desc:	Not reported
Organization Formal Name:	Not reported
Facility Type Desc:	Not reported
State Facility ID:	Not reported
Original Issue Date:	Not reported
Approved For Electronic DMR Submission:	Not reported

I27 **REBECCA JONES RESIDENCE** **FINDS** **1015922766**
Target **8302 RUNNING SPRING DR** **N/A**
Property **LOUISVILLE, KY 40241**

Site 2 of 2 in cluster I

Actual: **551 ft.**

Focus Map: **7**

FINDS:

Registry ID: 110045301687

Environmental Interest/Information System
STATE MASTER

REBECCA JONES RESIDENCE (Continued) **1015922766**

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

---

28 **KY SPILLS** **S117148325**
Target Property **JEFFERSON (County), KY** **N/A**

Actual: 658 ft.
Focus Map: 8

SPILLS:

Name:	Not reported
Address:	Not reported
Facility Status:	Env. Closed
Incident Type:	INCIDENT NOT LISTED
Program Code:	08
Received By Staff:	Wolff, Ben
Received Date:	05/29/2009
Report Date:	2009-05-29 10:39:52
Dispatch Description:	Garbage truck driving through neighborhood either leaked or released some type of liquid throughout the subdivision.
Source Name:	Not reported
Source Address:	Summit Ridge Subdivision Off of Springdale Road
Substances:	Not reported
Other Substances Desc:	Not reported
Media Impacted:	Solid Waste
Inc ID:	2296180
Lead Invest Person ID:	34433
Compliance:	Yes
Notification:	No
Priority:	Routine
Incident End Date:	2009-08-26 00:00:00
Follow Up Priority Desc:	Not reported
Most Recent Comp Eval Activity:	Not reported
Most Recent ENF Activity:	Not reported
Begin Emergency Date:	Not reported
End Emergency Date:	Not reported
MARS Function Code:	Not reported
Locked:	Yes
Closure Type Desc:	Env. Closed-No Action Necessary
Latitude:	85.58654
Longitude:	-38.31066

---

29 **KY SPILLS** **S117081171**
Target Property **LOUISVILLE, KY** **N/A**

Actual: 626 ft.
Focus Map: 8

SPILLS:

Name:	Not reported
Address:	Not reported
Facility Status:	Env. Closed
Incident Type:	TRANSPORTATION ACCIDENT - TRUCK
Program Code:	04
Received By Staff:	Sims, Keith
Received Date:	08/31/2004
Report Date:	2004-08-31 15:45:00
Dispatch Description:	Truck accident resulted in a release of diesel.
Source Name:	Schneider National Carriers, Inc.

(Continued) **S117081171**

Source Address:	I-71 South @ Gene Snyder EOC# 20042668
Substances:	Diesel:150
Other Substances Desc:	Not reported
Media Impacted:	Env Protection
Inc ID:	184914
Lead Invest Person ID:	9449
Compliance:	Yes
Notification:	No
Priority:	Routine
Incident End Date:	2004-10-08 00:00:00
Follow Up Priority Desc:	Routine
Most Recent Comp Eval Activity:	Not reported
Most Recent ENF Activity:	Not reported
Begin Emergency Date:	Not reported
End Emergency Date:	Not reported
MARS Function Code:	Not reported
Locked:	No
Closure Type Desc:	Env. Closed-Contained or Managed
Latitude:	38.31055
Longitude:	-85.59055

---

30 **KY SPILLS** **S117208973**
Target Property **LOUISVILLE, KY** **N/A**

Actual: 539 ft.

Focus Map: 7

SPILLS:

Name:	Not reported
Address:	Not reported
Facility Status:	Referred to Program
Incident Type:	NON-PERMITTED ACTIVITY
Program Code:	13
Received By Staff:	Thomas, Marilyn
Received Date:	Not reported
Report Date:	2013-07-17 10:18:20
Dispatch Description:	MSD reported property owner was taking creek rock to build a wall on bank where it erodes without permits. They also reported Phillip Davis had already "lined Little Goose Creek with concrete bags".
Source Name:	Phillip Davis Residence (AI ID: 120131)
Source Address:	4305 Creek Bend Court-Jefferson Co.
Substances:	Not reported
Other Substances Desc:	Not reported
Media Impacted:	Water Resources
Inc ID:	2365055
Lead Invest Person ID:	6105
Compliance:	Yes
Notification:	No
Priority:	Routine
Incident End Date:	Not reported
Follow Up Priority Desc:	Not reported
Most Recent Comp Eval Activity:	AI: 120131 CIV20140001
Most Recent ENF Activity:	Not reported
Begin Emergency Date:	Not reported
End Emergency Date:	Not reported
MARS Function Code:	Not reported
Locked:	No
Closure Type Desc:	Refer to Program
Latitude:	38.31031
Longitude:	-85.59540

31 **KY SPILLS** **S117092337**
Target **N/A**
Property **LOUISVILLE, KY**

Actual: **601 ft.**

Focus Map: **8**

SPILLS:

Name:	Not reported
Address:	Not reported
Facility Status:	Env. Closed
Incident Type:	FIRE/EXPLOSION; TRANSPORTATION ACCIDENT - TRUCK
Program Code:	04
Received By Staff:	Staley, Robert
Received Date:	08/16/2005
Report Date:	2005-08-16 02:10:00
Dispatch Description:	Truck wreck & fire released dichloroisocyanuric acid & diesel fuel.
Source Name:	R&L Carriers
Source Address:	I-71 NB @ 9.4 mm Command post is at 8mm EOC 20052500, NRC 769204
Substances:	Diesel:300
Other Substances Desc:	Dichloroisocyanuric acid - 1272 lbs
Media Impacted:	Env Protection
Inc ID:	197884
Lead Invest Person ID:	9456
Compliance:	Yes
Notification:	No
Priority:	Emergency, Immed. Resp.
Incident End Date:	2005-08-30 00:00:00
Follow Up Priority Desc:	Not reported
Most Recent Comp Eval Activity:	Not reported
Most Recent ENF Activity:	Not reported
Begin Emergency Date:	8/15/2005
End Emergency Date:	8/17/2005
MARS Function Code:	H629
Locked:	Yes
Closure Type Desc:	Env. Closed-Managed
Latitude:	38.30899
Longitude:	-85.59361

---

32 **BETZ SPECIALITY & CUSTOM CHEMICAL CO** **FINDS** **1012006904**
Target **3504 TRAIL RIDGE RD** **N/A**
Property **LOUISVILLE, KY 40241**

Actual: **579 ft.**

Focus Map: **7**

FINDS:

Registry ID: 110038284629

Environmental Interest/Information System

SSTS (Section Seven Tracking System) evolved from the FIFRA and TSCA Enforcement System (FATES). SSTS tracks the registration of all pesticide-producing establishments and tracks annually the types and amounts of pesticides, active ingredients, and related devices that are produced, sold, or distributed each year.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

J33 **BEECH SPRING FARM SUBD** **KY NPDES** **S117570114**
Target **3600 BARBOUR LN** **N/A**
Property **JEFFERSON (County), KY 40222**

Site 1 of 4 in cluster J

Actual: **630 ft.**
Focus Map: **7**

NPDES:

Name:	BEECH SPRING FARM SUBD
Address:	3600 BARBOUR LN
City,State,Zip:	KY 40222
Federal Facility ID:	Not reported
Facility Status:	Terminated
KY DES #:	KYR10G940
Total App# Design Flow (MGD):	Not reported
Horizontal Collect Method Desc:	Not reported
Facility Addr 2:	Not reported
Inactive Date:	03/31/2016
Design Capacity:	Not reported
Fee Category:	Not reported
SIC Code:	1629
Lat/Long:	38.306389 / -85.611111
Lat/Long Method:	Not reported
USGS Hydrologic Basin Code:	021
Facility Stream Segment:	Not reported
Facility Mileage Indicator:	Not reported
Basin Code:	Not reported
Basin Code Description:	Not reported
DMR Contact:	Not reported
Contact Telephone:	Not reported
Mailing Address:	16218 Shelbyville Rd
Mailing Address 2:	Not reported
Mailing City,St,Zip:	Louisville, KY 40245
Permit Issued:	10/17/2012
Permit Expires:	07/31/2014
SIC Code Description:	Heavy Construction
Reveiving Waters:	MSD
Major/Minor:	Minor
Effective Date:	10/17/2012
Affiliation Type Desc:	PMA
Organization Formal Name:	Beech Spring Farm Subd
Facility Type Desc:	Not reported
State Facility ID:	70639
Original Issue Date:	10/17/2012
Approved For Electronic DMR Submission:	No

J34 **BEECH SPRING FARM SEC 3** **KY NPDES** **S108080238**
Target **3600 BARBOUR LN** **N/A**
Property **LOUISVILLE, KY 40222**

Site 2 of 4 in cluster J

Actual: **630 ft.**
Focus Map: **7**

NPDES:

Name:	BEECH SPRING FARMS
Address:	3600 BARBOUR LN
City,State,Zip:	LOUISVILLE, KY 40241
Federal Facility ID:	Not reported
Facility Status:	INACTIVE
KY DES #:	KYR106718
Total App# Design Flow (MGD):	Not reported
Horizontal Collect Method Desc:	Not reported

BEECH SPRING FARM SEC 3 (Continued) **S108080238**

Facility Addr 2:	Not reported
Inactive Date:	10/19/2010
Design Capacity:	Not reported
Fee Category:	Not reported
SIC Code:	1611
Lat/Long:	Not reported
Lat/Long Method:	Not reported
USGS Hydrologic Basin Code:	Not reported
Facility Stream Segment:	Not reported
Facility Mileage Indicator:	Not reported
Basin Code:	Not reported
Basin Code Description:	Not reported
DMR Contact:	TIM FILIATREAU
Contact Telephone:	5023493222
Mailing Address:	FILCON CONSTRUCTION LLC
Mailing Address 2:	915 DEATSVILLE LOOP
Mailing City,St,Zip:	COXS CREEK, KY 40004
Permit Issued:	07/01/2009
Permit Expires:	07/31/2014
SIC Code Description:	HWY & ST CONST., EXC. ELEV HWY
Reveiving Waters:	LITTLE GOOSE CRK
Major/Minor:	MINOR
Effective Date:	Not reported
Affiliation Type Desc:	Not reported
Organization Formal Name:	Not reported
Facility Type Desc:	Not reported
State Facility ID:	Not reported
Original Issue Date:	Not reported
Approved For Electronic DMR Submission:	Not reported

Name:	BEECH SPRING FARM SEC 3
Address:	3600 BARBOUR LN
City,State,Zip:	LOUISVILLE, KY 40222
Federal Facility ID:	Not reported
Facility Status:	INACTIVE
KY DES #:	KYR107158
Total App# Design Flow (MGD):	Not reported
Horizontal Collect Method Desc:	Not reported
Facility Addr 2:	Not reported
Inactive Date:	07/19/2008
Design Capacity:	Not reported
Fee Category:	Not reported
SIC Code:	1611
Lat/Long:	Not reported
Lat/Long Method:	Not reported
USGS Hydrologic Basin Code:	Not reported
Facility Stream Segment:	Not reported
Facility Mileage Indicator:	Not reported
Basin Code:	Not reported
Basin Code Description:	Not reported
DMR Contact:	TIM FILIATREAU
Contact Telephone:	5023493222
Mailing Address:	TIM FILIATREAU
Mailing Address 2:	915 DEATSVILLE RD
Mailing City,St,Zip:	COXS CREEK, KY 40013
Permit Issued:	06/12/2008
Permit Expires:	07/31/2014

BEECH SPRING FARM SEC 3 (Continued) **S108080238**

SIC Code Description: HWY & ST CONST., EXC. ELEV HWY
Reveiving Waters: Not reported
Major/Minor: MINOR
Effective Date: Not reported
Affiliation Type Desc: Not reported
Organization Formal Name: Not reported
Facility Type Desc: Not reported
State Facility ID: Not reported
Original Issue Date: Not reported
Approved For Electronic DMR Submission: Not reported

Name: BEECH FARMS SEC 4 & 5
Address: 3600 BARBOUR LN
City,State,Zip: LOUISVILLE, KY 40222
Federal Facility ID: Not reported
Facility Status: INACTIVE
KY DES #: KYR107782
Total App# Design Flow (MGD): Not reported
Horizontal Collect Method Desc: Not reported
Facility Addr 2: Not reported
Inactive Date: 10/19/2010
Design Capacity: Not reported
Fee Category: Not reported
SIC Code: 1611
Lat/Long: Not reported
Lat/Long Method: Not reported
USGS Hydrologic Basin Code: Not reported
Facility Stream Segment: Not reported
Facility Mileage Indicator: Not reported
Basin Code: Not reported
Basin Code Description: Not reported
DMR Contact: NICK FILIATREAU
Contact Telephone: 5023493322
Mailing Address: NICK FILIATREAU
Mailing Address 2: 915 DEATSVILLE RD
Mailing City,St,Zip: COXS CREEK, KY 40013
Permit Issued: 07/01/2009
Permit Expires: 07/31/2014
SIC Code Description: HWY & ST CONST., EXC. ELEV HWY
Reveiving Waters: Not reported
Major/Minor: MINOR
Effective Date: Not reported
Affiliation Type Desc: Not reported
Organization Formal Name: Not reported
Facility Type Desc: Not reported
State Facility ID: Not reported
Original Issue Date: Not reported
Approved For Electronic DMR Submission: Not reported

Name: IVY RIDGE PATIO HOMES
Address: 3600 BARBOUR LN
City,State,Zip: LOUISVILLE, KY 40223
Federal Facility ID: Not reported
Facility Status: INACTIVE
KY DES #: KYR108070
Total App# Design Flow (MGD): Not reported
Horizontal Collect Method Desc: Not reported

BEECH SPRING FARM SEC 3 (Continued) **S108080238**

Facility Addr 2:	Not reported
Inactive Date:	10/19/2010
Design Capacity:	Not reported
Fee Category:	Not reported
SIC Code:	1611
Lat/Long:	Not reported
Lat/Long Method:	Not reported
USGS Hydrologic Basin Code:	Not reported
Facility Stream Segment:	Not reported
Facility Mileage Indicator:	Not reported
Basin Code:	Not reported
Basin Code Description:	Not reported
DMR Contact:	TIM FILIATREAU
Contact Telephone:	5023493222
Mailing Address:	TIM FILIATREAU
Mailing Address 2:	915 DEATSVILLE RD
Mailing City,St,Zip:	COXS CREEK, KY 40013
Permit Issued:	07/01/2009
Permit Expires:	07/31/2014
SIC Code Description:	HWY & ST CONST., EXC. ELEV HWY
Reveiving Waters:	Not reported
Major/Minor:	MINOR
Effective Date:	Not reported
Affiliation Type Desc:	Not reported
Organization Formal Name:	Not reported
Facility Type Desc:	Not reported
State Facility ID:	Not reported
Original Issue Date:	Not reported
Approved For Electronic DMR Submission:	Not reported

Name:	BEECH SPRING FARM SUBDIVISION
Address:	3600 BARBOUR LN
City,State,Zip:	LOUISVILLE, KY 40222
Federal Facility ID:	Not reported
Facility Status:	INACTIVE
KY DES #:	KYR108931
Total App# Design Flow (MGD):	Not reported
Horizontal Collect Method Desc:	Not reported
Facility Addr 2:	Not reported
Inactive Date:	10/19/2010
Design Capacity:	Not reported
Fee Category:	Not reported
SIC Code:	1611
Lat/Long:	Not reported
Lat/Long Method:	Not reported
USGS Hydrologic Basin Code:	Not reported
Facility Stream Segment:	Not reported
Facility Mileage Indicator:	Not reported
Basin Code:	Not reported
Basin Code Description:	Not reported
DMR Contact:	TIM FILIATREAU
Contact Telephone:	5023493222
Mailing Address:	TIM FILIATREAU
Mailing Address 2:	915 DEATSVILLE RD
Mailing City,St,Zip:	COXS CREEK, KY 40013
Permit Issued:	07/01/2009
Permit Expires:	07/31/2014

BEECH SPRING FARM SEC 3 (Continued) **S108080238**

SIC Code Description: HWY & ST CONST., EXC. ELEV HWY
Reveiving Waters: Not reported
Major/Minor: MINOR
Effective Date: Not reported
Affiliation Type Desc: Not reported
Organization Formal Name: Not reported
Facility Type Desc: Not reported
State Facility ID: Not reported
Original Issue Date: Not reported
Approved For Electronic DMR Submission: Not reported

Name: OVERLOOK AT BEECH SPRING FARM
Address: 3600 BARBOUR LN
City,State,Zip: LOUISVILLE, KY 40222
Federal Facility ID: Not reported
Facility Status: ACTIVE
KY DES #: KYR109997
Total App# Design Flow (MGD): Not reported
Horizontal Collect Method Desc: Not reported
Facility Addr 2: Not reported
Inactive Date: Not reported
Design Capacity: Not reported
Fee Category: Not reported
SIC Code: 1611
Lat/Long: Not reported
Lat/Long Method: Not reported
USGS Hydrologic Basin Code: Not reported
Facility Stream Segment: Not reported
Facility Mileage Indicator: Not reported
Basin Code: Not reported
Basin Code Description: Not reported
DMR Contact: MICHAEL PUSATENI
Contact Telephone: 5022456159
Mailing Address: MICHAEL PUSATENI
Mailing Address 2: PO BOX 43607
Mailing City,St,Zip: LOUISVILLE, KY 40243
Permit Issued: 08/17/2009
Permit Expires: 07/31/2014
SIC Code Description: HWY & ST CONST., EXC. ELEV HWY
Reveiving Waters: Not reported
Major/Minor: MINOR
Effective Date: Not reported
Affiliation Type Desc: Not reported
Organization Formal Name: Not reported
Facility Type Desc: Not reported
State Facility ID: Not reported
Original Issue Date: Not reported
Approved For Electronic DMR Submission: Not reported

J35 OVERLOOK AT BEECH SPRING FARM-SECTION 4 **KY NPDES** **S117570844**
Target 3600 BARBOUR LN **N/A**
Property JEFFERSON (County), KY 40222

Site 3 of 4 in cluster J

Actual: **630 ft.**
Focus Map: 7

NPDES:

Name:	OVERLOOK AT BEECH SPRING FARM-SECTION 4
Address:	3600 BARBOUR LN
City,State,Zip:	KY 40222
Federal Facility ID:	Not reported
Facility Status:	Terminated
KY DES #:	KYR10H724
Total App# Design Flow (MGD):	Not reported
Horizontal Collect Method Desc:	Not reported
Facility Addr 2:	Not reported
Inactive Date:	03/31/2016
Design Capacity:	Not reported
Fee Category:	Not reported
SIC Code:	1611
Lat/Long:	38.306389 / -85.611111
Lat/Long Method:	Not reported
USGS Hydrologic Basin Code:	021
Facility Stream Segment:	Not reported
Facility Mileage Indicator:	Not reported
Basin Code:	Not reported
Basin Code Description:	Not reported
DMR Contact:	Not reported
Contact Telephone:	Not reported
Mailing Address:	16218 Shelbyville Rd
Mailing Address 2:	Not reported
Mailing City,St,Zip:	Louisville, KY 40245
Permit Issued:	08/28/2013
Permit Expires:	07/31/2014
SIC Code Description:	Highway And Street Construction
Reveiving Waters:	MSD
Major/Minor:	Minor
Effective Date:	08/28/2013
Affiliation Type Desc:	PMA
Organization Formal Name:	Overlook at Beech Spring Farm-Section 4
Facility Type Desc:	Not reported
State Facility ID:	70639
Original Issue Date:	08/28/2013
Approved For Electronic DMR Submission:	No

J36 BEECH SPRING FARM **RCRA NonGen / NLR** **1000826672**
Target 3600 BARBOUR LANE **FINDS** **KYD985113760**
Property LOUISVILLE, KY 40222 **ECHO**

Site 4 of 4 in cluster J

Actual: **630 ft.**
Focus Map: 7

RCRA NonGen / NLR:

Date form received by agency:	1994-02-15 00:00:00.0
Facility name:	BEECH SPRING FARM
Facility address:	3600 BARBOUR LANE LOUISVILLE, KY 40222
EPA ID:	KYD985113760
Mailing address:	BARBOUR LANE LOUISVILLE, KY 40222
Contact:	DAVID LAWYER

BEECH SPRING FARM (Continued) **1000826672**

Contact address: 3600 BARBOUR LANE
LOUISVILLE, KY 40222
Contact country: US
Contact telephone: 502-581-2328
Contact email: Not reported
EPA Region: 04
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: MARY GRAFF/DAVID LAWYER TRUSTEE
Owner/operator address: CITIZENS PLAZA/TRUST DEPT.
LOUISVILLE, KY 40296
Owner/operator country: Not reported
Owner/operator telephone: 502-581-2328
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Hazardous Waste Summary:

. Waste code: NONE
. Waste name: None

Violation Status: No violations found

FINDS:

Registry ID: 110003242615

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA

BEECH SPRING FARM (Continued) **1000826672**

program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

STATE MASTER

Registry ID: 110055633925

Environmental Interest/Information System

US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000826672
Registry ID: 110055633925
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110055633925

Envid: 1000826672
Registry ID: 110003242615
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110003242615

K37 **DIAZINON SPILL (BS XPRESS, INC.)** **ECHO** **1017448501**
Target Property **EXIT 9A OF I-71** **N/A**
LOUISVILLE, KY 40241

Site 1 of 2 in cluster K

Actual: 617 ft.
Focus Map: 7

ECHO:
Envid: 1017448501
Registry ID: 110015759357
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110015759357

K38 **DIAZINON SPILL (BS XPRESS, INC.)** **ICIS** **1007129311**
Target **EXIT 9A OF I-71** **FINDS** **N/A**
Property **LOUISVILLE, KY 40241**

Site 2 of 2 in cluster K

Actual:
617 ft.

Focus Map:
7

ICIS:

Enforcement Action ID:	04-2003-2027
FRS ID:	110015759357
Action Name:	BS Xpress, Inc.
Facility Name:	DIAZINON SPILL (BS XPRESS, INC.)
Facility Address:	EXIT 9A OF I-71 LOUISVILLE, KY 40241
Enforcement Action Type:	CERCLA 109 Action For Penalty
Facility County:	JEFFERSON
Program System Acronym:	ICIS
Enforcement Action Forum Desc:	Administrative - Formal
EA Type Code:	109
Facility SIC Code:	Not reported
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	38.30017
Longitude in Decimal Degrees:	-85.61579
Permit Type Desc:	Not reported
Program System Acronym:	5868798
Facility NAICS Code:	Not reported
Tribal Land Code:	Not reported

Facility Name:	DIAZINON SPILL (BS XPRESS, INC.)
Address:	EXIT 9A OF I-71
Tribal Indicator:	N
Fed Facility:	Not reported
NAIC Code:	Not reported
SIC Code:	4213

FINDS:

Registry ID: 110015759357

Environmental Interest/Information System

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

39 **KY SPILLS** **S117072731**
Target **N/A**
Property **LOUISVILLE, KY**

Actual: **511 ft.**

Focus Map: **6**

SPILLS:

Name:	Not reported
Address:	Not reported
Facility Status:	Env. Closed
Incident Type:	TRANSPORTATION ACCIDENT - TRUCK
Program Code:	08
Received By Staff:	Sims, Keith
Received Date:	12/16/2003
Report Date:	2003-12-16 06:40:00
Dispatch Description:	Caller reported truck accident which spilled diesel fuel.
Source Name:	Conwan Systems
Source Address:	Hwy 42 under I-71
Substances:	Diesel:
Other Substances Desc:	Not reported
Media Impacted:	Solid Waste
Inc ID:	175356
Lead Invest Person ID:	9449
Compliance:	Yes
Notification:	No
Priority:	Routine
Incident End Date:	Not reported
Follow Up Priority Desc:	Routine
Most Recent Comp Eval Activity:	Not reported
Most Recent ENF Activity:	Not reported
Begin Emergency Date:	Not reported
End Emergency Date:	Not reported
MARS Function Code:	Not reported
Locked:	No
Closure Type Desc:	Env. Closed-Contained or Managed
Latitude:	38.29722
Longitude:	-85.62777

---

40 **KY SPILLS** **S111099979**
Target **N/A**
Property **LOUISVILLE, KY**

Actual: **575 ft.**

Focus Map: **13**

SPILLS:

Name:	Not reported
Address:	Not reported
Facility Status:	Env. Closed
Incident Type:	FIRE/EXPLOSION; TRANSPORTATION ACCIDENT - TRUCK
Program Code:	08
Received By Staff:	Sims, Keith
Received Date:	06/07/2011
Report Date:	2011-06-07 19:06:00
Dispatch Description:	CMV fire with small diesel fuel or motor oil spill. truck is a septci tank pumper. No sewage has spilled. RP will conduct their own cleanup. Tom Wright w/ KYDOT is on site along w/ MSD and Jefferson Co. Health Dept.
Source Name:	B & H Septic Tank Service
Source Address:	I-71 NB @ 6 mm under bridge to Lime Kiln Lane
Substances:	Diesel:
Other Substances Desc:	Not reported
Media Impacted:	Solid Waste
Inc ID:	2332018
Lead Invest Person ID:	9449

(Continued) **S111099979**

Compliance:	Yes
Notification:	No
Priority:	Routine
Incident End Date:	2011-06-28 00:00:00
Follow Up Priority Desc:	Not reported
Most Recent Comp Eval Activity:	Not reported
Most Recent ENF Activity:	Not reported
Begin Emergency Date:	Not reported
End Emergency Date:	Not reported
MARS Function Code:	Not reported
Locked:	Yes
Closure Type Desc:	Env. Closed-Mitigated
Latitude:	38.29444
Longitude:	-85.63222

L41 **GLENVIEW TRUST** **FINDS** **1024080672**
Target **5900 US 42** **ECHO** **N/A**
Property **LOUISVILLE, KY 40241**

Site 1 of 2 in cluster L

Actual: **555 ft.**

FINDS:

Focus Map: **13**

Registry ID: 110070159154

Environmental Interest/Information System

US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1024080672
Registry ID:	110070159154
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110070159154

L42 **GLENVIEW TRUST** **KY NPDES** **S121612107**
Target **5900 US 42** **N/A**
Property **JEFFERSON (County), KY 40241**

Site 2 of 2 in cluster L

Actual: **555 ft.**

NPDES:

Focus Map: **13**

Name:	GLENVIEW TRUST
Address:	5900 US 42
City,State,Zip:	KY 40241
Federal Facility ID:	Not reported
Facility Status:	Effective

GLENVIEW TRUST (Continued) **S121612107**

KY DES #:	KYR10M098
Total App# Design Flow (MGD):	Not reported
Horizontal Collect Method Desc:	Not reported
Facility Addr 2:	Not reported
Inactive Date:	Not reported
Design Capacity:	Not reported
Fee Category:	Not reported
SIC Code:	1611
Lat/Long:	38.293332 / -85.627735
Lat/Long Method:	Not reported
USGS Hydrologic Basin Code:	027
Facility Stream Segment:	Not reported
Facility Mileage Indicator:	Not reported
Basin Code:	Not reported
Basin Code Description:	Not reported
DMR Contact:	Not reported
Contact Telephone:	Not reported
Mailing Address:	503 Washburn Ave Ste 101
Mailing Address 2:	Not reported
Mailing City,St,Zip:	Louisville, KY 40222
Permit Issued:	01/11/2018
Permit Expires:	11/30/2019
SIC Code Description:	Highway And Street Construction
Reveiving Waters:	Goose Creek
Major/Minor:	Minor
Effective Date:	01/11/2018
Affiliation Type Desc:	PMA
Organization Formal Name:	Glenview Trust
Facility Type Desc:	Not reported
State Facility ID:	135690
Original Issue Date:	01/11/2018
Approved For Electronic DMR Submission:	No

---

43 **CHARLIE & ELISE BROWN RESIDENCE** **FINDS** **1015825858**
Target **2702 POPLAR HILL CT** **N/A**
Property **LOUISVILLE, KY 40207**

FINDS:

Actual: 521 ft.

Registry ID: 110045181030

Focus Map: 12

Environmental Interest/Information System
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

M44 **GLENVIEW PARK SECTIONS 1 2 & 3** **FINDS** **1015930712**
Target Property **GLENVIEW AVE & CABIN WAY** **ECHO** **N/A**
LOUISVILLE, KY 40222

Site 1 of 3 in cluster M

Actual: 588 ft.

FINDS:

Focus Map: 13

Registry ID: 110045306717

Environmental Interest/Information System
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1015930712
Registry ID:	110043247974
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110043247974

M45 **GLENVIEW PARK SECTIONS 1 2 & 3** **KY NPDES** **S110778086**
Target Property **GLENVIEW AVE & CABIN WAY** **N/A**
LOUISVILLE, KY 40222

Site 2 of 3 in cluster M

Actual: 588 ft.

NPDES:

Focus Map: 13

Name:	GLENVIEW PARK SECTIONS 1 2 & 3
Address:	GLENVIEW AVE & CABIN WAY
City,State,Zip:	LOUISVILLE, KY 40222
Federal Facility ID:	Not reported
Facility Status:	ACTIVE
KY DES #:	KYR10F404
Total App# Design Flow (MGD):	Not reported
Horizontal Collect Method Desc:	Not reported
Facility Addr 2:	Not reported
Inactive Date:	Not reported
Design Capacity:	Not reported
Fee Category:	Not reported
SIC Code:	1611
Lat/Long:	Not reported
Lat/Long Method:	Not reported
USGS Hydrologic Basin Code:	Not reported
Facility Stream Segment:	Not reported
Facility Mileage Indicator:	Not reported
Basin Code:	Not reported
Basin Code Description:	Not reported
DMR Contact:	NICK FILIATREAU
Contact Telephone:	5023493322
Mailing Address:	NICK FILIATREAU
Mailing Address 2:	915 DEATSVILLE RD
Mailing City,St,Zip:	COXS CREEK, KY 40013
Permit Issued:	01/18/2011
Permit Expires:	07/31/2014
SIC Code Description:	HWY & ST CONST., EXC. ELEV HWY
Reveiving Waters:	UNNAMED TRIBUTA
Major/Minor:	MINOR

GLENVIEW PARK SECTIONS 1 2 & 3 (Continued) **S110778086**

Effective Date: Not reported
Affiliation Type Desc: Not reported
Organization Formal Name: Not reported
Facility Type Desc: Not reported
State Facility ID: Not reported
Original Issue Date: Not reported
Approved For Electronic DMR Submission: Not reported

M46 **GLENVIEW PARK SECTIONS 1 2 & 3** **FINDS** **1014716832**
Target Property **GLENVIEW AVE & CABIN WAY** **N/A**
LOUISVILLE, KY 40222

Site 3 of 3 in cluster M

Actual: 588 ft.

FINDS:

Focus Map: 13

Registry ID: 110043247974

Environmental Interest/Information System

US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

---

47 **SUNRISE ASSISTED LIVING FACILITY** **FINDS** **1015882234**
Target Property **6700 OVERLOOK DR** **N/A**
LOUISVILLE, KY 40222

FINDS:

Actual: 543 ft.

Registry ID: 110045251954

Focus Map: 13

Environmental Interest/Information System

STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

48 **PETROLEUM EXPRESS 11-27-1989 GASOLINE SPILL** **KY SHWS** **S110529931**
Target **I-71 N MM4** **N/A**
Property **LOUISVILLE, KY 40207**

Actual: **472 ft.**
Focus Map: **12**

SHWS:

Name:	PETROLEUM EXPRESS 11-27-1989 GASOLINE SPILL
Address:	I-71 N MM4
City,State,Zip:	LOUISVILLE, KY 40207
Facility Id:	109075
Status:	**Closed**
Description:	Petroleum Express I-71 Gasoline Spill 11-27-1989
Closure Date:	02/21/1990
Longitude:	-85.666899
Latitude:	38.292843
Subject Item County:	Jefferson
Sub Item Longitude:	-85.666899
Sub Item Latitude:	38.292842
Subject Item Address:	I-71 N Mm4
Subject Item Address2:	Not reported
Subject Item City,St,Zip:	Louisville, KY 40207
Regulatory Desc:	Petroleum Cleanup
Closure Option:	Option C Restored
Side SG:	Transportation Accident

---

49 **KY LEAD** **S107467530**
Target **6406 GLENWOOD ROAD** **N/A**
Property **LOUISVILLE, KY 40222**

Actual: **588 ft.**
Focus Map: **13**

KY LEAD:

Facility ID:	765
Company Or Orgin.:	The Evergreen Group
Date Recieved:	03/06/2000
KDPH Tracking Number:	41-052-0001
Risk Assessment:	TRUE
Lead Inspection:	FALSE
Clearance Exam:	FALSE
Risk Assessor Name:	Gary Spayner
Certification Number:	41-052
Reviewed Date:	Not reported
Deficiencies:	FALSE
Response Date:	Not reported
Amendment Rec'd Date:	Not reported
Description:	Not reported
Comments:	Reviewed by Brian Short

---

50 **FINDS** **1008214380**
Target **LIME KILN RD. UND. GLEN HILL RD.** **N/A**
Property **NOT IN A CITY, KY**

Actual: **592 ft.**
Focus Map: **13**

FINDS:

Registry ID: 110020910460

Environmental Interest/Information System
US EPA Air Quality System (AQS) contains ambient air pollution data collected by EPA, State, Local, and Tribal air pollution control agencies from thousands of monitoring stations.

(Continued) **1008214380**

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

---

51 **KY SPILLS** **S112506965**
Target Property **SAINT MATTHEWS, KY** **N/A**

Actual: **531 ft.**
Focus Map: **12**

SPILLS:

Name:	Not reported
Address:	Not reported
Facility Status:	Env. Closed
Incident Type:	TRANSPORTATION ACCIDENT - TRUCK
Program Code:	07
Received By Staff:	Sims, Keith
Received Date:	06/18/2012
Report Date:	2012-06-18 22:50:00
Dispatch Description:	SEMI-TRUCK ROLLED OVER SPILLING A TALC HYDROUS MAGNESIUM SILICATE POWDER. IT IS UNKNOWN IF THE TRUCK WAS A TANKER OR A HAZMAT CARRIER. THE DRIVER WAS TRANSPORTED TO THE HOSPITAL. FOUR POLICE OFFICERS, ONE FIRE FIGHTER, AND ONE BYSTANDER HAVE BEEN EXP
Source Name:	System 55 Transport Inc
Source Address:	I-71 SOUTH BOUND @ I-264
Substances:	Not reported
Other Substances Desc:	Not reported
Media Impacted:	Hazardous Waste
Inc ID:	2348113
Lead Invest Person ID:	9449
Compliance:	Yes
Notification:	No
Priority:	Emergency, Immed. Resp.
Incident End Date:	2012-09-18 00:00:00
Follow Up Priority Desc:	Not reported
Most Recent Comp Eval Activity:	Not reported
Most Recent ENF Activity:	Not reported
Begin Emergency Date:	6/18/2012
End Emergency Date:	6/19/2012
MARS Function Code:	M876
Locked:	Yes
Closure Type Desc:	Env. Closed-Mitigated
Latitude:	38.29166
Longitude:	-85.65027

---

52 **KY SPILLS** **S117153164**
Target Property **LOUISVILLE, KY** **N/A**

Actual: **585 ft.**
Focus Map: **13**

SPILLS:

Name:	Not reported
Address:	Not reported
Facility Status:	Env. Closed
Incident Type:	TRANSPORTATION ACCIDENT - TRUCK
Program Code:	08
Received By Staff:	Sims, Keith
Received Date:	09/20/2009
Report Date:	2009-09-20 14:14:00

(Continued) **S117153164**

Dispatch Description:	CMV wreck with diesel fuel spill.
Source Name:	Great American Lines Inc.
Source Address:	I-71 NB just past exit ramp to I-264 EB EOC 20093614
Substances:	Diesel:60
Other Substances Desc:	Not reported
Media Impacted:	Solid Waste
Inc ID:	2301545
Lead Invest Person ID:	9449
Compliance:	Yes
Notification:	No
Priority:	Emergency, Immed. Resp.
Incident End Date:	2009-09-21 00:00:00
Follow Up Priority Desc:	Not reported
Most Recent Comp Eval Activity:	Not reported
Most Recent ENF Activity:	Not reported
Begin Emergency Date:	9/19/2009
End Emergency Date:	9/19/2009
MARS Function Code:	K671
Locked:	Yes
Closure Type Desc:	Env. Closed-Mitigated
Latitude:	38.29166
Longitude:	-85.63888

---

53 **WINDING CREEK SUBD** **FINDS** **1015873599**
Target Property **PHOENIX HILL DR** **N/A**
LOUISVILLE, KY 40202

FINDS:

Actual: 493 ft.
Registry ID: 110045090842

Focus Map: 12
Environmental Interest/Information System
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

---

54 **JAMES DERRICK ADAMS RESIDENCE** **FINDS** **1015822048**
Target Property **4205 RIVIERA DR** **N/A**
LOUISVILLE, KY 40207

FINDS:

Actual: 440 ft.
Registry ID: 110045070016

Focus Map: 12
Environmental Interest/Information System
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

N55 **MS CARRIERS CATHODE RAY TUBE SPILL** **KY SHWS** **S117892183**
Target **JUNCTION OF I-71 S AND I-264 W** **N/A**
Property **LOUISVILLE, KY 40222**

Site 1 of 3 in cluster N

Actual: **560 ft.**
Focus Map: **13**

SHWS:

Name:	MS CARRIERS CATHODE RAY TUBE SPILL
Address:	JUNCTION OF I-71 S AND I-264 W
City,State,Zip:	LOUISVILLE, KY 40222
Facility Id:	126254
Status:	**Closed**
Description:	MS Carriers Cathode Ray Tube Spill (Closed:Restored 01/28/1997)
Closure Date:	01/28/1997
Longitude:	-85.646089
Latitude:	38.288845
Subject Item County:	Jefferson
Sub Item Longitude:	-85.646089
Sub Item Latitude:	38.288845
Subject Item Address:	I-71 S & I-264 W
Subject Item Address2:	Not reported
Subject Item City,St,Zip:	Louisville, KY 40222
Regulatory Desc:	State Superfund
Closure Option:	Option C Restored
Side SG:	Transporation Accident

---

56 **STATEWIDE TRANSPORT I-71 SPILL** **KY SHWS** **S118844939**
Target **I-71 & I-264** **N/A**
Property **LOUISVILLE, KY 40207**

Actual: **572 ft.**
Focus Map: **13**

SHWS:

Name:	STATEWIDE TRANSPORT I-71 SPILL
Address:	I-71 & I-264
City,State,Zip:	LOUISVILLE, KY 40207
Facility Id:	52937
Status:	**Closed**
Description:	STATEWIDE TRANSPORT I-71 SPILL (Closed: Restored)
Closure Date:	02/03/1998
Longitude:	-85.645295
Latitude:	38.288800
Subject Item County:	Jefferson
Sub Item Longitude:	-85.649022
Sub Item Latitude:	38.289321
Subject Item Address:	Jct of I-71 & I-264
Subject Item Address2:	Not reported
Subject Item City,St,Zip:	Louisville, KY 40201
Regulatory Desc:	Petroleum Cleanup
Closure Option:	Option C Restored
Side SG:	40440

O57 **J KINGSLEY STRATTON RESIDENCE** **FINDS** **1015947715**
Target **2401 FALLSVIEW RD** **N/A**
Property **LOUISVILLE, KY 40207**

Site 1 of 2 in cluster O

Actual: **498 ft.**

FINDS:

Focus Map: **12**

Registry ID: 110045020044

Environmental Interest/Information System
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

N58 **KY SPILLS** **S111100000**
Target **N/A**
Property **LOUISVILLE, KY**

Site 2 of 3 in cluster N

Actual: **563 ft.**

SPILLS:

Focus Map: **13**

Name:	Not reported
Address:	Not reported
Facility Status:	Env. Closed
Incident Type:	TRANSPORTATION ACCIDENT - TRUCK
Program Code:	08
Received By Staff:	Strohmeier, Kevin
Received Date:	06/14/2011
Report Date:	2011-06-14 20:06:00
Dispatch Description:	Caller has reported a CMV crash on I-71NB and I-265. The CMV is carrying totes of mulch dye that are reported leaking.
Source Name:	CL Richert Trucking Company
Source Address:	I-71 NB AT I-264
Substances:	Not reported
Other Substances Desc:	Not reported
Media Impacted:	Solid Waste
Inc ID:	2332315
Lead Invest Person ID:	22332
Compliance:	Yes
Notification:	No
Priority:	Emergency, Immed. Resp.
Incident End Date:	2011-07-08 00:00:00
Follow Up Priority Desc:	Not reported
Most Recent Comp Eval Activity:	Not reported
Most Recent ENF Activity:	Not reported
Begin Emergency Date:	6/14/2011
End Emergency Date:	6/15/2011
MARS Function Code:	M047
Locked:	Yes
Closure Type Desc:	Env. Closed-Mitigated
Latitude:	38.28861
Longitude:	-85.64638

N59 **KY SPILLS** **S117109451**
Target **N/A**
Property **HARRODS CREEK, KY**

Site 3 of 3 in cluster N

Actual: **564 ft.**

Focus Map: **13**

SPILLS:

Name:	Not reported
Address:	Not reported
Facility Status:	Env. Closed
Incident Type:	TRANSPORTATION ACCIDENT - TRUCK
Program Code:	08
Received By Staff:	Sims, Keith
Received Date:	12/12/2006
Report Date:	2006-12-12 16:02:00
Dispatch Description:	Semi ruptured a saddle tank due to an accident.
Source Name:	Home Run Inc
Source Address:	I-71 South Ramp to I-264 West (on bridge over I 264 EB) EOC# 20063922
Substances:	Diesel:20
Other Substances Desc:	Not reported
Media Impacted:	Solid Waste
Inc ID:	2252143
Lead Invest Person ID:	9449
Compliance:	Yes
Notification:	No
Priority:	Emergency, Immed. Resp.
Incident End Date:	2006-12-14 00:00:00
Follow Up Priority Desc:	Not reported
Most Recent Comp Eval Activity:	Not reported
Most Recent ENF Activity:	Not reported
Begin Emergency Date:	12/12/2006
End Emergency Date:	12/12/2006
MARS Function Code:	I658
Locked:	No
Closure Type Desc:	Env. Closed-Managed
Latitude:	38.28861
Longitude:	-85.64611

---

60 **KY SPILLS** **S117122894**
Target **N/A**
Property **LOUISVILLE, KY**

Actual: **450 ft.**

Focus Map: **11**

SPILLS:

Name:	Not reported
Address:	Not reported
Facility Status:	Env. Closed
Incident Type:	TRANSPORTATION ACCIDENT - TRUCK
Program Code:	08
Received By Staff:	Sims, Keith
Received Date:	11/13/2007
Report Date:	2007-11-13 11:24:07
Dispatch Description:	CMV punctured a fuel tank - 50 - 60 gallons diesel spilled on roadside.
Source Name:	Lewis Transport
Source Address:	I-71 NB @ 2.5 mm EOC 20073772, NRC 854412, NRC 854421
Substances:	Diesel:60
Other Substances Desc:	Not reported
Media Impacted:	Solid Waste
Inc ID:	2267484
Lead Invest Person ID:	9449

(Continued) **S117122894**

Compliance:	Yes
Notification:	Yes
Priority:	Emergency, Immed. Resp.
Incident End Date:	2007-11-29 00:00:00
Follow Up Priority Desc:	Not reported
Most Recent Comp Eval Activity:	Not reported
Most Recent ENF Activity:	Not reported
Begin Emergency Date:	11/13/2007
End Emergency Date:	11/13/2007
MARS Function Code:	J299
Locked:	No
Closure Type Desc:	Env. Closed-Managed
Latitude:	38.28836
Longitude:	-85.67558

O61 **ERNS** **96340616**
Target Property **2402 FALLSVIEW RD** **N/A**
LOUISVILLE, KY 40202

Site 2 of 2 in cluster O

Actual: **500 ft.**

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

Focus Map: **12**

---

62 **RED BALL TRANSMISSION CO** **EDR Hist Auto** **1021538412**
Target Property **2400 PHOENIX HILL DR** **N/A**
LOUISVILLE, KY 40207

EDR Hist Auto

Actual: **560 ft.**

Year:	Name:	Type:
1990	RED BALL TRANSMISSION CO	Automotive Transmission Repair Shops

Focus Map: **12**

P63 **I 71 - JEFFERSON CO** **KY NPDES** **S117569122**
Target Property **I-71** **N/A**
JEFFERSON (County), KY 40207

Site 1 of 3 in cluster P

Actual: **456 ft.**

NPDES:

Name:	I 71 - JEFFERSON CO
Address:	I-71
City,State,Zip:	KY 40207
Federal Facility ID:	Not reported
Facility Status:	Terminated

Focus Map: **11**

I 71 - JEFFERSON CO (Continued) **S117569122**

KY DES #:	KYR10F904
Total App# Design Flow (MGD):	Not reported
Horizontal Collect Method Desc:	Not reported
Facility Addr 2:	Not reported
Inactive Date:	07/25/2012
Design Capacity:	Not reported
Fee Category:	Not reported
SIC Code:	1611
Lat/Long:	38.28194 / -85.68611
Lat/Long Method:	Not reported
USGS Hydrologic Basin Code:	027
Facility Stream Segment:	Not reported
Facility Mileage Indicator:	Not reported
Basin Code:	Not reported
Basin Code Description:	Not reported
DMR Contact:	Not reported
Contact Telephone:	Not reported
Mailing Address:	PO Box 2428
Mailing Address 2:	Not reported
Mailing City,St,Zip:	Clarksville, IN 47131
Permit Issued:	07/28/2011
Permit Expires:	07/31/2014
SIC Code Description:	Highway And Street Construction
Reveiving Waters:	Beargrass Creek
Major/Minor:	Minor
Effective Date:	07/28/2011
Affiliation Type Desc:	PMA
Organization Formal Name:	I 71 - Jefferson Co
Facility Type Desc:	Not reported
State Facility ID:	49202
Original Issue Date:	07/28/2011
Approved For Electronic DMR Submission:	No

P64 **I 71 - JEFFERSON CO** **FINDS** **1016361339**
Target **I-71** **ECHO** **N/A**
Property **LOUISVILLE, KY 40207**

Site 2 of 3 in cluster P

Actual: 456 ft.

FINDS:

Focus Map: 11

Registry ID: 110044901194

Environmental Interest/Information System

US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

I 71 - JEFFERSON CO (Continued) **1016361339**

ECHO:
Envid: 1016361339
Registry ID: 110044901194
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110044901194

P65 **RECONSTRUCTION OF THE I-71/I-265 (GENE SNYDER FREE** **KY NPDES** **S118475621**
Target **I-71** **N/A**
Property **JEFFERSON (County), KY 40207**

Site 3 of 3 in cluster P

Actual: **456 ft.**
Focus Map: **11**

NPDES:
Name: RECONSTRUCTION OF THE I-71/I-265 (GENE SNYDER FREEWAY) INTERCHANGE (INTERIM II
Address: I-71
City,State,Zip: KY 40207
Federal Facility ID: Not reported
Facility Status: Terminated
KY DES #: KYR10K149
Total App# Design Flow (MGD): Not reported
Horizontal Collect Method Desc: Not reported
Facility Addr 2: Not reported
Inactive Date: 12/19/2018
Design Capacity: Not reported
Fee Category: Not reported
SIC Code: 1611
Lat/Long: 38.28194 / -85.68611
Lat/Long Method: Not reported
USGS Hydrologic Basin Code: 027
Facility Stream Segment: Not reported
Facility Mileage Indicator: Not reported
Basin Code: Not reported
Basin Code Description: Not reported
DMR Contact: Not reported
Contact Telephone: Not reported
Mailing Address: 3800 Crittenden Dr
Mailing Address 2: Not reported
Mailing City,St,Zip: Louisville, KY 40209
Permit Issued: 02/03/2016
Permit Expires: 11/30/2019
SIC Code Description: Highway And Street Construction
Reveiving Waters: Little Goose Creek
Major/Minor: Minor
Effective Date: 02/03/2016
Affiliation Type Desc: PMA
Organization Formal Name: Reconstruction of the I-71/I-265 (Gene Snyder Freeway) Interchange (Interim Impr
Facility Type Desc: Not reported
State Facility ID: 49202
Original Issue Date: 02/03/2016
Approved For Electronic DMR Submission: No

66 **KY SPILLS** **S112507489**
Target **N/A**
Property **LOUISVILLE, KY**

Actual: **447 ft.**
Focus Map: **17**

SPILLS:

Name:	Not reported
Address:	Not reported
Facility Status:	Env. Closed
Incident Type:	TRANSPORTATION ACCIDENT - TRUCK
Program Code:	08
Received By Staff:	Sims, Keith
Received Date:	01/30/2013
Report Date:	2013-01-30 18:32:00
Dispatch Description:	Nick Yount, a representative of Gra-Kat Environmental called to report a fuel spill involving 50 gallons of diesel. This spill came from a CMV that struck road debris and punctured one of its saddle tanks. Gra-Kat is the clean up contractor and the spil
Source Name:	Tri-Mac Transportation Services
Source Address:	I-264 @ Zorn Avenue
Substances:	Diesel:50
Other Substances Desc:	Not reported
Media Impacted:	Solid Waste
Inc ID:	2357063
Lead Invest Person ID:	9449
Compliance:	Yes
Notification:	No
Priority:	Routine
Incident End Date:	2013-02-06 00:00:00
Follow Up Priority Desc:	Not reported
Most Recent Comp Eval Activity:	Not reported
Most Recent ENF Activity:	Not reported
Begin Emergency Date:	Not reported
End Emergency Date:	Not reported
MARS Function Code:	Not reported
Locked:	Yes
Closure Type Desc:	Env. Closed-Mitigated
Latitude:	38.27499
Longitude:	85.697999

Q67 **COSTCO WHOLESALE #634** **RCRA-SQG** **1010318266**
SSE **5020 NORTON HEALTHCARE BLVD** **KYR000044735**
< 1/8 **LOUISVILLE, KY 40241**
0.003 mi.
18 ft. **Site 1 of 2 in cluster Q**

Actual: **674 ft.**
Focus Map: **8**

RCRA-SQG:

Date form received by agency:	2019-04-08 00:00:00.0
Facility name:	COSTCO WHOLESALE #634
Facility address:	5020 NORTON HEALTHCARE BLVD LOUISVILLE, KY 40241
EPA ID:	KYR000044735
Mailing address:	GREYHAWK CT SUITE 200 CARLSBAD, CA 92010
Contact:	BEVERLY LAUERMAN
Contact address:	LAKE DR SUITE 200 ISSAQUAH, WA 98027
Contact country:	US
Contact telephone:	425-313-2916
Contact email:	Not reported

COSTCO WHOLESALE #634 (Continued) **1010318266**

EPA Region: 04
Land type: Private
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: N/A
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 2006-09-22 00:00:00.0
Owner/Op end date: Not reported

Owner/operator name: COSTCO WHOLESALE CORPORATION
Owner/operator address: LAKE DRIVE
ISSAQUAH, WA 98027
Owner/operator country: US
Owner/operator telephone: 425-313-8100
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 2006-09-22 00:00:00.0
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 2018-04-10 00:00:00.0
Site name: COSTCO WHOLESALE #634

COSTCO WHOLESALE #634 (Continued) **1010318266**

Classification: Small Quantity Generator

Date form received by agency: 2017-04-17 00:00:00.0
Site name: COSTCO WHOLESALE #634
Classification: Small Quantity Generator

Date form received by agency: 2016-10-18 00:00:00.0
Site name: COSTCO WHOLESALE #634
Classification: Small Quantity Generator

Date form received by agency: 2016-04-04 00:00:00.0
Site name: COSTCO WHOLESALE #634
Classification: Large Quantity Generator

Date form received by agency: 2016-02-27 00:00:00.0
Site name: COSTCO WHOLESALE #634
Classification: Large Quantity Generator

Date form received by agency: 2015-05-27 00:00:00.0
Site name: COSTCO WHOLESALE #634
Classification: Large Quantity Generator

Date form received by agency: 2014-05-06 00:00:00.0
Site name: COSTCO WHOLESALE #634
Classification: Large Quantity Generator

Date form received by agency: 2008-06-24 00:00:00.0
Site name: COSTCO WHOLESALE #634
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 2007-07-24 00:00:00.0
Site name: COSTCO WHOLESALE #634
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 2006-09-22 00:00:00.0
Site name: COSTCO WHOLESALE #634
Classification: Conditionally Exempt Small Quantity Generator

Hazardous Waste Summary:

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D005
. Waste name: BARIUM

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

COSTCO WHOLESALE #634 (Continued) **1010318266**

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D011
. Waste name: SILVER

. Waste code: D016
. Waste name: 2,4-D (2,4-DICHLOROPHENOXYACETIC ACID)

. Waste code: D018
. Waste name: BENZENE

. Waste code: D024
. Waste name: M-CRESOL

. Waste code: D026
. Waste name: CRESOL

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: P001
. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: P075
. Waste name: NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS

. Waste code: U057
. Waste name: CYCLOHEXANONE (I)

. Waste code: U165
. Waste name: NAPHTHALENE

. Waste code: U279
. Waste name: CARBARYL (OR) 1-NAPHTHALENOL, METHYLCARBAMATE

Biennial Reports:

Last Biennial Reporting Year: 2017

Annual Waste Handled:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
Amount (Lbs): 1611

Waste code: D002

COSTCO WHOLESALE #634 (Continued) **1010318266**

Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
Amount (Lbs): 158

Waste code: D009
Waste name: MERCURY
Amount (Lbs): 102

Waste code: D016
Waste name: 2,4-D
Amount (Lbs): 190

Waste code: D018
Waste name: BENZENE
Amount (Lbs): 120

Waste code: D024
Waste name: M-CRESOL
Amount (Lbs): 12

Waste code: D026
Waste name: CRESOL
Amount (Lbs): 12

Waste code: P001
Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%
Amount (Lbs): 10

Waste code: P075
Waste name: NICOTINE, & SALTS
Amount (Lbs): 16

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 2016-07-07 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2009-06-17 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Q68 **COSTCO GASOLINE # 634** **KY UST** **U004192765**
SSE **5020 NORTON HEALTHCARE BLVD** **N/A**
< 1/8 **LOUISVILLE, KY 40241**
0.003 mi.
18 ft. **Site 2 of 2 in cluster Q**

Actual:
674 ft.

Focus Map:
8

UST:

Name:	COSTCO GASOLINE # 634
Address:	5020 NORTON HEALTHCARE BLVD
City,State,Zip:	LOUISVILLE, KY 40241
Sequence Id:	Not reported
Facility ID:	77876
Owner Name:	Costco Wholesale Corporation
Owner Address:	PO Box 35005
Owner Address2:	Not reported
Owner Address3:	Not reported
Owner City,St,Zip:	Seattle, WA 98124
Internal Document ID:	0
Latitude:	38.316389
Longitude:	-85.571944
Inert Material Code:	Not reported
Removed Date:	Not reported
Change in Service Date:	Not reported
Tank Pit Num:	Not reported
Tank Mfg Code:	CON
Tank Overfill Protection:	Not reported
Last Tank Test Date:	12/06/2011
Relined Date:	Not reported
Lining Insp Date:	Not reported
Pipe Release Detection:	Not reported
Pipe Rel Detect Suc Code:	Not reported
Pipe Leak Detect Code:	Not reported
Last Contained Date:	Not reported
Pipe Mfg Code:	DUA
Last Pipe Test Date:	06/24/2019
Last CP Test Date:	Not reported
Added To Flex Date:	Not reported
Added To Piping Date:	Not reported
Decode For Tstatus:	Active
Decode For Inertmatcd:	Not reported
Decode For Tmatcode:	Double Wall Fiberglass
Decode For Textcrprcd:	Not Applicable
Decode For Treldetcod:	Not reported
Decode For Tintprotcd:	Not Applicable
Decode For Tsplprevcd:	Double Wall Spill Bucket
Decode For Tovflprvcd:	Not reported
Decode For Pmatcode:	Not reported
Decode For Pextcoprcd:	Not reported
Decode For Ptypecode:	Not reported
Decode For Preldetcod:	Not reported
Decode For Preldetsuc:	Not reported
Decode For Plekdetcod:	Not reported
Decode For Tsubcd:	Other Substance
Decode For Tmancd:	Containment Solutions, Inc.
Decode For Pmancd:	Dualoy 3000/LCX by Ameron
Subject Item ID:	4
Tank Status:	TAC
Installation Date:	12/15/2011

COSTCO GASOLINE # 634 (Continued) **U004192765**

Closed In Place Date:	Not reported
Capacity in Gallons:	1500
Compartment Number:	1
Piping Installation Date:	Not reported
Added To Tank Date:	Not reported
Inert Material Code:	Not reported
Removed Date:	Not reported
Change in Service Date:	Not reported
Tank Pit Num:	Not reported
Tank Mfg Code:	XER
Tank Overfill Protection:	HLA
Last Tank Test Date:	Not reported
Relined Date:	Not reported
Lining Insp Date:	Not reported
Pipe Release Detection:	ELD
Pipe Rel Detect Suc Code:	NON
Pipe Leak Detect Code:	ELD
Last Contained Date:	Not reported
Pipe Mfg Code:	SMI
Last Pipe Test Date:	05/07/2019
Last CP Test Date:	Not reported
Added To Flex Date:	Not reported
Added To Piping Date:	Not reported
Decode For Tstatus:	Active
Decode For Inertmatcd:	Not reported
Decode For Tmatcode:	Double Wall Fiberglass
Decode For Textcrprcd:	Not Applicable
Decode For Treldetcod:	Interstitial Monitor
Decode For Tintprotcd:	Not Applicable
Decode For Tsplprevcd:	Single Wall Spill Bucket
Decode For Tovflprvcd:	High Level Alarm
Decode For Pmatcode:	Double Wall Fiberglass
Decode For Pextcoprcd:	Not Applicable
Decode For Ptypecode:	Pressurized
Decode For Preldetcod:	Electronic Leak Detection
Decode For Preldetsuc:	None
Decode For Plekdetcod:	Electronic Leak Detection
Decode For Tsubcd:	GAS-PRM-Prem Unl Gas
Decode For Tmancd:	Xerxes
Decode For Pmancd:	Smith -- Fiberglass Systems
Subject Item ID:	1
Tank Status:	TAC
Installation Date:	08/22/2006
Closed In Place Date:	Not reported
Capacity in Gallons:	30000
Compartment Number:	1
Piping Installation Date:	Not reported
Added To Tank Date:	Not reported
Inert Material Code:	Not reported
Removed Date:	Not reported
Change in Service Date:	Not reported
Tank Pit Num:	Not reported
Tank Mfg Code:	XER
Tank Overfill Protection:	HLA
Last Tank Test Date:	Not reported

COSTCO GASOLINE # 634 (Continued) **U004192765**

Relined Date:	Not reported
Lining Insp Date:	Not reported
Pipe Release Detection:	ELD
Pipe Rel Detect Suc Code:	NON
Pipe Leak Detect Code:	ELD
Last Contained Date:	Not reported
Pipe Mfg Code:	SMI
Last Pipe Test Date:	05/07/2019
Last CP Test Date:	Not reported
Added To Flex Date:	Not reported
Added To Piping Date:	Not reported
Decode For Tstatus:	Active
Decode For Inertmatcd:	Not reported
Decode For Tmatcode:	Double Wall Fiberglass
Decode For Textcrprcd:	Not Applicable
Decode For Treldetcod:	Interstitial Monitor
Decode For Tintprotcd:	Not Applicable
Decode For Tsplprevcd:	Single Wall Spill Bucket
Decode For Tovflprvcd:	High Level Alarm
Decode For Pmatcode:	Double Wall Fiberglass
Decode For Pextcoprcd:	Not Applicable
Decode For Ptypecode:	Pressurized
Decode For Preldetcod:	Electronic Leak Detection
Decode For Preldetsuc:	None
Decode For Plekdetcod:	Electronic Leak Detection
Decode For Tsubcd:	GAS-UNL-Reg Unl Gas
Decode For Tmancd:	Xerxes
Decode For Pmancd:	Smith -- Fiberglass Systems
Subject Item ID:	2
Tank Status:	TAC
Installation Date:	08/22/2006
Closed In Place Date:	Not reported
Capacity in Gallons:	30000
Compartment Number:	1
Piping Installation Date:	Not reported
Added To Tank Date:	Not reported
Inert Material Code:	Not reported
Removed Date:	Not reported
Change in Service Date:	Not reported
Tank Pit Num:	Not reported
Tank Mfg Code:	XER
Tank Overfill Protection:	HLA
Last Tank Test Date:	Not reported
Relined Date:	Not reported
Lining Insp Date:	Not reported
Pipe Release Detection:	ELD
Pipe Rel Detect Suc Code:	NON
Pipe Leak Detect Code:	ELD
Last Contained Date:	Not reported
Pipe Mfg Code:	SMI
Last Pipe Test Date:	05/07/2019
Last CP Test Date:	Not reported
Added To Flex Date:	Not reported
Added To Piping Date:	Not reported
Decode For Tstatus:	Active
Decode For Inertmatcd:	Not reported

COSTCO GASOLINE # 634 (Continued) **U004192765**

Decode For Tmatcode:	Double Wall Fiberglass
Decode For Textcrprcd:	Not Applicable
Decode For Treldetcod:	Interstitial Monitor
Decode For Tintprotcd:	Not Applicable
Decode For Tsplprevcd:	Single Wall Spill Bucket
Decode For Tovflprvcd:	High Level Alarm
Decode For Pmatcode:	Double Wall Fiberglass
Decode For Pextcoprcd:	Not Applicable
Decode For Ptypecode:	Pressurized
Decode For Preldetcod:	Electronic Leak Detection
Decode For Preldetsuc:	None
Decode For Plekdetcod:	Electronic Leak Detection
Decode For Tsubcd:	GAS-UNL-Reg Unl Gas
Decode For Tmancd:	Xerxes
Decode For Pmancd:	Smith -- Fiberglass Systems
Subject Item ID:	3
Tank Status:	TAC
Installation Date:	08/22/2006
Closed In Place Date:	Not reported
Capacity in Gallons:	30000
Compartment Number:	1
Piping Installation Date:	Not reported
Added To Tank Date:	Not reported

R69 **BP OIL STATION** **RCRA NonGen / NLR** **1000689893**
NW **1035 ZORN AVENUE** **FINDS** **KYD985095223**
< 1/8 **LOUISVILLE, KY 40207** **ECHO**
0.011 mi.
59 ft. **Site 1 of 3 in cluster R**

Actual:
439 ft.

Focus Map:
11

RCRA NonGen / NLR:

Date form received by agency:	1993-02-08 00:00:00.0
Facility name:	BP OIL STATION
Facility address:	1035 ZORN AVENUE LOUISVILLE, KY 40207
EPA ID:	KYD985095223
Mailing address:	TENNESSEE AVENUE CINCINNATI, OH 45229
Contact:	DARNELL JORDAN
Contact address:	930 TENNESSEE AVENUE CINCINNATI, OH 45229
Contact country:	US
Contact telephone:	513-482-3206
Contact email:	Not reported
EPA Region:	04
Land type:	Private
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	BP OIL STATION
Owner/operator address:	200 PUBLIC SQUARE CLEVELAND, OH 44114
Owner/operator country:	Not reported
Owner/operator telephone:	513-482-3206
Owner/operator email:	Not reported
Owner/operator fax:	Not reported

BP OIL STATION (Continued) **1000689893**

Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Hazardous Waste Summary:

. Waste code: NONE
. Waste name: None

Facility Has Received Notices of Violations:
Regulation violated: SR - 32:040
Area of violation: Generators - Records/Reporting
Date violation determined: 1993-03-30 00:00:00.0
Date achieved compliance: 1993-04-21 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 1993-03-30 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 1993-04-26 00:00:00.0
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: Generators - Records/Reporting
Date achieved compliance: 1993-04-21 00:00:00.0
Evaluation lead agency: State

Evaluation date: 1993-03-30 00:00:00.0
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Generators - Records/Reporting
Date achieved compliance: 1993-04-21 00:00:00.0
Evaluation lead agency: State

BP OIL STATION (Continued) **1000689893**

FINDS:

Registry ID: 110003239727

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000689893
Registry ID:	110003239727
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110003239727

R70 **CONVENIENCE PLUS #1** **KY UST** **U000718680**
NW **1035 ZORN AVE** **N/A**
< 1/8 **LOUISVILLE, KY 40206**
0.011 mi.
59 ft. **Site 2 of 3 in cluster R**

Actual:
439 ft.

Focus Map:
11

UST:

Name:	CONVENIENCE PLUS #1
Address:	1035 ZORN AVE
City,State,Zip:	LOUISVILLE, KY 40206
Sequence Id:	1055056
Facility ID:	60510
Owner Name:	Bulk Petroleum Corporation
Owner Address:	9653 N Granville Rd
Owner Address2:	Not reported
Owner Address3:	Not reported
Owner City,St,Zip:	Mequon, WI 530973513
Internal Document ID:	0
Latitude:	38.276345
Longitude:	-85.697663
Inert Material Code:	Not reported
Removed Date:	Not reported
Change in Service Date:	Not reported
Tank Pit Num:	Not reported
Tank Mfg Code:	Not reported
Tank Overfill Protection:	OFX
Last Tank Test Date:	Not reported
Relined Date:	Not reported
Lining Insp Date:	Not reported
Pipe Release Detection:	LDX
Pipe Rel Detect Suc Code:	LDX
Pipe Leak Detect Code:	NA
Last Contained Date:	Not reported
Pipe Mfg Code:	Not reported
Last Pipe Test Date:	Not reported

CONVENIENCE PLUS #1 (Continued) **U000718680**

Last CP Test Date:	Not reported
Added To Flex Date:	Not reported
Added To Piping Date:	Not reported
Decode For Tstatus:	Exempt
Decode For Inertmatcd:	Not reported
Decode For Tmatcode:	Fiberglass Reinforced
Decode For Textcrprcd:	Not Applicable
Decode For Treldetcod:	Exempt From Leak Detection
Decode For Tintprotcd:	Not Applicable
Decode For Tsplprevcd:	Spill Prevention Exempt (waste oil)
Decode For Tovflprvcd:	Exempt From Overfill (waste oil)
Decode For Pmatcode:	Fiberglass Reinforced Plastic
Decode For Pextcoprcd:	Not Applicable
Decode For Ptypecode:	Suction
Decode For Preldetcod:	Exempt From Leak Detection
Decode For Preldetsuc:	Exempt From Leak Detection
Decode For Plekdetcod:	Not Applicable
Decode For Tsubcd:	Fuel Oil
Decode For Tmancd:	Not reported
Decode For Pmancd:	Not reported
Subject Item ID:	4
Tank Status:	TEX
Installation Date:	01/01/1987
Closed In Place Date:	Not reported
Capacity in Gallons:	1000
Compartment Number:	1
Piping Installation Date:	Not reported
Added To Tank Date:	Not reported

Inert Material Code:	Not reported
Removed Date:	Not reported
Change in Service Date:	Not reported
Tank Pit Num:	Not reported
Tank Mfg Code:	Not reported
Tank Overfill Protection:	FLR
Last Tank Test Date:	08/19/2010
Relined Date:	Not reported
Lining Insp Date:	Not reported
Pipe Release Detection:	LTT
Pipe Rel Detect Suc Code:	NON
Pipe Leak Detect Code:	MLD
Last Contained Date:	Not reported
Pipe Mfg Code:	Not reported
Last Pipe Test Date:	10/11/2018
Last CP Test Date:	Not reported
Added To Flex Date:	01/25/2007
Added To Piping Date:	Not reported
Decode For Tstatus:	Active
Decode For Inertmatcd:	Not reported
Decode For Tmatcode:	Fiberglass Reinforced
Decode For Textcrprcd:	Not Applicable
Decode For Treldetcod:	Statistical Inventory Recon
Decode For Tintprotcd:	Not Applicable
Decode For Tsplprevcd:	Single Wall Spill Bucket
Decode For Tovflprvcd:	Flow Restrictor
Decode For Pmatcode:	Fiberglass Reinforced Plastic
Decode For Pextcoprcd:	Not Applicable

CONVENIENCE PLUS #1 (Continued) **U000718680**

Decode For Ptypecode:	Pressurized
Decode For Preldetcod:	Line Tightness Test
Decode For Preldetsuc:	None
Decode For Plekdetcod:	Manual Line Leak Detection
Decode For Tsubcd:	Gasoline
Decode For Tmancd:	Not reported
Decode For Pmancd:	Not reported
Subject Item ID:	2
Tank Status:	TAC
Installation Date:	01/01/1987
Closed In Place Date:	Not reported
Capacity in Gallons:	10000
Compartment Number:	1
Piping Installation Date:	Not reported
Added To Tank Date:	Not reported
Inert Material Code:	Not reported
Removed Date:	Not reported
Change in Service Date:	Not reported
Tank Pit Num:	Not reported
Tank Mfg Code:	Not reported
Tank Overfill Protection:	ASD
Last Tank Test Date:	08/19/2010
Relined Date:	Not reported
Lining Insp Date:	Not reported
Pipe Release Detection:	LTT
Pipe Rel Detect Suc Code:	NON
Pipe Leak Detect Code:	MLD
Last Contained Date:	Not reported
Pipe Mfg Code:	Not reported
Last Pipe Test Date:	10/11/2018
Last CP Test Date:	Not reported
Added To Flex Date:	01/25/2007
Added To Piping Date:	Not reported
Decode For Tstatus:	Active
Decode For Inertmatcd:	Not reported
Decode For Tmatcode:	Fiberglass Reinforced
Decode For Textcrprcd:	Not Applicable
Decode For Treldetcod:	Statistical Inventory Recon
Decode For Tintprotcd:	Not Applicable
Decode For Tsplprevcd:	Single Wall Spill Bucket
Decode For Tovflprvcd:	Automatic Shutoff Device
Decode For Pmatcode:	Fiberglass Reinforced Plastic
Decode For Pextcoprcd:	Not Applicable
Decode For Ptypecode:	Pressurized
Decode For Preldetcod:	Line Tightness Test
Decode For Preldetsuc:	None
Decode For Plekdetcod:	Manual Line Leak Detection
Decode For Tsubcd:	GAS-UNL-Reg Unl Gas
Decode For Tmancd:	Not reported
Decode For Pmancd:	Not reported
Subject Item ID:	1
Tank Status:	TAC
Installation Date:	01/01/1987
Closed In Place Date:	Not reported
Capacity in Gallons:	10000
Compartment Number:	1

CONVENIENCE PLUS #1 (Continued) **U000718680**

Piping Installation Date:	Not reported
Added To Tank Date:	Not reported
Inert Material Code:	Not reported
Removed Date:	Not reported
Change in Service Date:	Not reported
Tank Pit Num:	Not reported
Tank Mfg Code:	Not reported
Tank Overfill Protection:	FLR
Last Tank Test Date:	08/19/2010
Relined Date:	Not reported
Lining Insp Date:	Not reported
Pipe Release Detection:	LTT
Pipe Rel Detect Suc Code:	NON
Pipe Leak Detect Code:	MLD
Last Contained Date:	Not reported
Pipe Mfg Code:	Not reported
Last Pipe Test Date:	10/11/2018
Last CP Test Date:	Not reported
Added To Flex Date:	01/25/2007
Added To Piping Date:	Not reported
Decode For Tstatus:	Active
Decode For Inertmatcd:	Not reported
Decode For Tmatcode:	Fiberglass Reinforced
Decode For Textcrprcd:	Not Applicable
Decode For Treldetcod:	Statistical Inventory Recon
Decode For Tintprotcd:	Not Applicable
Decode For Tsplprevcd:	Single Wall Spill Bucket
Decode For Tovflprvcd:	Flow Restrictor
Decode For Pmatcode:	Fiberglass Reinforced Plastic
Decode For Pextcoprcd:	Not Applicable
Decode For Ptypecode:	Pressurized
Decode For Preldetcod:	Line Tightness Test
Decode For Preldetsuc:	None
Decode For Plekdetcod:	Manual Line Leak Detection
Decode For Tsubcd:	GAS-PRM-Prem Unl Gas
Decode For Tmancd:	Not reported
Decode For Pmancd:	Not reported
Subject Item ID:	3
Tank Status:	TAC
Installation Date:	01/01/1987
Closed In Place Date:	Not reported
Capacity in Gallons:	10000
Compartment Number:	1
Piping Installation Date:	Not reported
Added To Tank Date:	Not reported

R71 **GULF B P OIL GAS STA & FOOD MART** **EDR Hist Auto** **1014195098**
NW **1035 ZORN AVE** **N/A**
< 1/8 **LOUISVILLE, KY 40206**
0.011 mi.
59 ft. **Site 3 of 3 in cluster R**

Actual: EDR Hist Auto
439 ft.

Focus Map: Year: Name: Type:
11 1985 MANNA MARKET Grocery Stores
1986 MANNA MARKET INC Grocery Stores

GULF B P OIL GAS STA & FOOD MART (Continued) **1014195098**

1987	MANNA MARKET INC	Grocery Stores
1988	SOHIO OIL CO	Gasoline Service Stations
1989	BP OIL COMPANY	Gasoline Service Stations, NEC
1990	GULF B P OIL GAS STA & FOOD MAR	GASOLINE STATIONS
1990	BP OIL COMPANY (INC)	Gasoline Service Stations, NEC
1991	BP OIL COMPANY (INC)	Gasoline Service Stations, NEC
1992	BP EXPLORATION AND OIL INC	Convenience Stores
1993	BP EXPLORATION AND OIL INC	Convenience Stores
1994	BP EXPLORATION AND OIL INC	Convenience Stores
1995	BP EXPLORATION & OIL INC	Convenience Stores
1996	BP EXPLORATION & OIL INC	Convenience Stores
1997	BP EXPLORATION & OIL INC	Convenience Stores
1998	BP EXPLORATION & OIL INC	Convenience Stores
1999	BP EXPLORATION & OIL INC	Convenience Stores
2000	KIEL BROTHERS OIL COMPANY	Convenience Stores
2001	KIEL BROTHERS OIL COMPANY	Convenience Stores
2002	KIEL BROTHERS OIL COMPANY	Convenience Stores
2003	KIEL BROTHERS OIL COMPANY	Convenience Stores
2004	KIEL BROTHERS OIL COMPANY	Convenience Stores
2005	ZORN AVE BP	Gasoline Service Stations, NEC
2006	ZORN AVE BP	Gasoline Service Stations, NEC
2007	ZORN AVE BP	Gasoline Service Stations, NEC
2008	ZORN AVE BP	Gasoline Service Stations, NEC
2009	ZORN AVE BP	Gasoline Service Stations, NEC
2010	ZORN AVENUE BP	Gasoline Service Stations, NEC
2011	ZORN AVENUE BP	Gasoline Service Stations, NEC
2011	BP OIL CO	Gasoline Service Stations, NEC
2012	ZORN AVENUE BP	Gasoline Service Stations, NEC
2012	BP OIL CO	Gasoline Service Stations, NEC
2013	BP OIL CO	Gasoline Service Stations, NEC
2013	ZORN AVENUE BP	Gasoline Service Stations, NEC
2014	ZORN AVENUE BP	Gasoline Service Stations, NEC
2014	BP OIL CO	Gasoline Service Stations, NEC

S72 **LOWE'S HOME CENTERS** **KY AST** **A100449930**
SSE **4930 NORTON HEALTHCARE BLVD** **N/A**
< 1/8 **LOUISVILLE, KY 40241**
0.040 mi.
210 ft. **Site 1 of 3 in cluster S**

Actual:
678 ft.

Focus Map:
8

AST:

Permit Number:	PAG0003209
Name:	LOWE'S HOME CENTERS
Address:	4930 NORTON HEALTHCARE BLVD
City,State,Zip:	LOUISVILLE, KY 40241-2831
Permit Type:	Private Use
Category:	Other
Permit Status:	Completed
Issue Date:	01/06/2009
Subdivision:	Not reported
Last Inspection:	Not reported
Installer:	Palazzo Brothers Electric

S73 **PALAZZO BROTHERS ELECTRIC INC** **KY AST** **A100449311**
SSE **4930 NORTON HEALTHCARE BLVD** **N/A**
< 1/8 **LOUISVILLE, KY 40241**
0.040 mi.
210 ft. **Site 2 of 3 in cluster S**

Actual:
678 ft.

Focus Map:
8

AST:

Permit Number:	PAG0002577
Name:	PALAZZO BROTHERS ELECTRIC INC
Address:	4930 NORTON HEALTHCARE BLVD
City,State,Zip:	LOUISVILLE, KY 40241-2831
Permit Type:	Private Use
Category:	Other
Permit Status:	Completed
Issue Date:	01/13/2006
Subdivision:	Not reported
Last Inspection:	Not reported
Installer:	Not reported

S74 **LOWE'S OF N.E. LOUISVILLE, KY #2245** **RCRA-SQG** **1012179295**
SSE **4930 NORTON HEALTHCARE** **KYR000049577**
< 1/8 **LOUISVILLE, KY 40241**
0.040 mi.
210 ft. **Site 3 of 3 in cluster S**

Actual:
678 ft.

Focus Map:
8

RCRA-SQG:

Date form received by agency:	2018-07-31 00:00:00.0
Facility name:	LOWE'S OF N.E. LOUISVILLE, KY #2245
Facility address:	4930 NORTON HEALTHCARE LOUISVILLE, KY 40241
EPA ID:	KYR000049577
Mailing address:	LOWES BLVD, MAIL STOP A3WLP MOORESVILLE, NC 28117
Contact:	BOBBI TENBORG
Contact address:	LOWES BLVD, MAIL STOP A3WLP MOORESVILLE, NC 28117
Contact country:	US
Contact telephone:	704-758-2955
Contact email:	Not reported
EPA Region:	04
Land type:	Private
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	LOWE'S
Owner/operator address:	Not reported Not reported
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator

LOWE'S OF N.E. LOUISVILLE, KY #2245 (Continued) **1012179295**

Owner/Op start date: 2009-01-05 00:00:00.0
Owner/Op end date: Not reported

Owner/operator name: LOWE'S HOME CENTER INC
Owner/operator address: CURTIS BRIDGE ROAD
WILKESBORO, NC 28697
Owner/operator country: US
Owner/operator telephone: 336-658-4000
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 2006-05-17 00:00:00.0
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 2009-01-05 00:00:00.0
Site name: LOWE'S OF N.E. LOUISVILLE, KY #2245
Classification: Conditionally Exempt Small Quantity Generator

Hazardous Waste Summary:

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D005
. Waste name: BARIUM

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008

LOWE'S OF N.E. LOUISVILLE, KY #2245 (Continued) **1012179295**

. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D011
. Waste name: SILVER

. Waste code: D016
. Waste name: 2,4-D (2,4-DICHLOROPHENOXYACETIC ACID)

. Waste code: D018
. Waste name: BENZENE

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: U154
. Waste name: METHANOL (I) (OR) METHYL ALCOHOL (I)

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 2016-12-12 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2015-03-23 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2014-01-14 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2012-10-09 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2011-05-03 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2009-02-12 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported

LOWE'S OF N.E. LOUISVILLE, KY #2245 (Continued) **1012179295**

Evaluation lead agency: State

75
SSE
< 1/8
0.049 mi.
261 ft.

J-TOWN LAUNDERETTE **EDR Hist Cleaner** **1020011453**
3007 ASPENWOOD WAY **N/A**
LOUISVILLE, KY 40241

Actual:
600 ft.

EDR Hist Cleaner

Focus Map:
14

Year:	Name:	Type:
2007	J-TOWN LAUNDERETTE	Drycleaning Plants, Except Rugs
2008	J-TOWN LAUNDERETTE	Drycleaning Plants, Except Rugs

76
SSE
< 1/8
0.067 mi.
354 ft.

TRANSCORP INTERNATIONAL LLC SPILL **KY SHWS** **S118844859**
I-264 WB AND I-71 SB **N/A**
LOUISVILLE, KY 40202

Actual:
545 ft.

SHWS:

Focus Map:
13

Name:	TRANSCORP INTERNATIONAL LLC SPILL
Address:	I-264 WB AND I-71 SB
City,State,Zip:	LOUISVILLE, KY 40202
Facility Id:	130921
Status:	**Closed**
Description:	Ink spill with isopropanol as solvent
Closure Date:	12/14/2016
Longitude:	-85.644904
Latitude:	38.286527
Subject Item County:	Jefferson
Sub Item Longitude:	-85.644925
Sub Item Latitude:	38.286521
Subject Item Address:	I-264 W Mm 22.5
Subject Item Address2:	Not reported
Subject Item City,St,Zip:	Louisville, KY 40025
Regulatory Desc:	State Superfund
Closure Option:	Option C Restored
Side SG:	Release to surface water

T77
NW
< 1/8
0.109 mi.
578 ft.

ZORN AVENUE CHEVRON SERVICE CENTER **EDR Hist Auto** **1014181031**
3002 UPPER RIVER RD **N/A**
LOUISVILLE, KY 40206

Site 1 of 4 in cluster T

Actual:
438 ft.

EDR Hist Auto

Focus Map:
11

Year:	Name:	Type:
1955	GREENWELL SERV STAGAS STA	GASOLINE STATIONS
1986	ZORN AVENUE CHEVRON SERVICE CEN	GASOLINE STATIONS
1990	ZORN AVENUE CHEVRON SERVICE CEN	GASOLINE STATIONS

U78 **RIVER ROAD COUNTRY CLUB** **KY UST** **1000843928**
NW **2930 UPPER RIVER RD** **KY Financial Assurance** **N/A**
< 1/8 **LOUISVILLE, KY 40206**
0.114 mi.
604 ft. **Site 1 of 3 in cluster U**

Actual:
438 ft.

Focus Map:
11

UST:

Name:	RIVER ROAD COUNTRY CLUB
Address:	2930 UPPER RIVER RD
City,State,Zip:	LOUISVILLE, KY 40206
Sequence Id:	3452056
Facility ID:	48140
Owner Name:	River Road Country Club
Owner Address:	2930 Upper River Rd
Owner Address2:	Not reported
Owner Address3:	Not reported
Owner City,St,Zip:	Louisville, KY 40206
Internal Document ID:	0
Latitude:	38.282575
Longitude:	-85.679898
Inert Material Code:	Not reported
Removed Date:	02/15/1993
Change in Service Date:	Not reported
Tank Pit Num:	Not reported
Tank Mfg Code:	Not reported
Tank Overfill Protection:	UNK
Last Tank Test Date:	Not reported
Relined Date:	Not reported
Lining Insp Date:	Not reported
Pipe Release Detection:	NON
Pipe Rel Detect Suc Code:	NON
Pipe Leak Detect Code:	NA
Last Contained Date:	Not reported
Pipe Mfg Code:	Not reported
Last Pipe Test Date:	Not reported
Last CP Test Date:	Not reported
Added To Flex Date:	Not reported
Added To Piping Date:	Not reported
Decode For Tstatus:	Removed Tank Verified
Decode For Inertmatcd:	Not reported
Decode For Tmatcode:	Single Wall Steel
Decode For Textcrprcd:	None
Decode For Treldetcod:	Manual Tank Gauging
Decode For Tintprotcd:	Unknown
Decode For Tsplprevcd:	Unknown
Decode For Tovflprvcd:	Unknown
Decode For Pmatcode:	Single Wall Steel
Decode For Pextcoprcd:	None
Decode For Ptypecode:	Suction
Decode For Preldetcod:	None
Decode For Preldetsuc:	None
Decode For Plekdetcod:	Not Applicable
Decode For Tsubcd:	Empty
Decode For Tmancd:	Not reported
Decode For Pmancd:	Not reported
Subject Item ID:	1
Tank Status:	TRM
Installation Date:	01/01/1981

RIVER ROAD COUNTRY CLUB (Continued) **1000843928**

Closed In Place Date: Not reported
Capacity in Gallons: 550
Compartment Number: 1
Piping Installation Date: Not reported
Added To Tank Date: Not reported

KY Financial Assurance 2:
Region: 2
Account: FRA
AI: 48140
cause: 101153
Approval Date: 12/12/1996
NFA Date: 08/04/2005
Coverage Amount: Up to 1 million dollar limit coverage
Effective Period: Would be from the time of the release to the end of the clean up

---

U79 **RIVER ROAD COUNTRY CLUB** **RCRA NonGen / NLR** **1004706411**
NW **2930 UPPER RIVER ROAD** **FINDS** **KYD985116250**
< 1/8 **LOUISVILLE, KY 40206** **ECHO**
0.114 mi.
604 ft. **Site 2 of 3 in cluster U**

Actual:
438 ft.

Focus Map:
11

RCRA NonGen / NLR:
Date form received by agency: 2006-12-20 00:00:00.0
Facility name: RIVER ROAD COUNTRY CLUB
Facility address: 2930 UPPER RIVER ROAD
LOUISVILLE, KY 40206
EPA ID: KYD985116250
Mailing address: UPPER RIVER ROAD
LOUISVILLE, KY 40206
Contact: JUDY FARMER
Contact address: 2930 UPPER RIVER ROAD
LOUISVILLE, KY 40206
Contact country: US
Contact telephone: 502-893-2534
Contact email: Not reported
EPA Region: 04
Land type: Private
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: RIVER ROAD COUNTRY CLUB
Owner/operator address: 2930 UPPER RIVER ROAD
LOUISVILLE, KY 40206
Owner/operator country: Not reported
Owner/operator telephone: 502-893-2534
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:

RIVER ROAD COUNTRY CLUB (Continued) **1004706411**

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 1993-08-19 00:00:00.0
Site name: RIVER ROAD COUNTRY CLUB
Classification: Conditionally Exempt Small Quantity Generator

Hazardous Waste Summary:

. Waste code: D018
. Waste name: BENZENE

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 2006-12-19 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110003243776

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1004706411
Registry ID: 110003243776
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110003243776

U80 **RIVER ROAD COUNTRY CLUB** **KY AST** **A100448116**
NW **2930 RIVER RD** **N/A**
< 1/8 **LOUISVILLE, KY 40206**
0.114 mi.
604 ft. **Site 3 of 3 in cluster U**

Actual:
438 ft.

Focus Map:
11

AST:

Permit Number:	PAG0001347
Name:	RIVER ROAD COUNTRY CLUB
Address:	2930 RIVER RD
City,State,Zip:	LOUISVILLE, KY 40206-1017
Permit Type:	Private Use
Category:	Other
Permit Status:	Completed
Issue Date:	07/10/2000
Subdivision:	Not reported
Last Inspection:	Not reported
Installer:	Bullock Oil Co

T81 **RIVER RD CHEVRON** **KY UST** **U001183188**
NW **3002 RIVER RD** **N/A**
< 1/8 **LOUISVILLE, KY 40207**
0.116 mi.
612 ft. **Site 2 of 4 in cluster T**

Actual:
437 ft.

Focus Map:
11

UST:

Name:	RIVER RD CHEVRON
Address:	3002 RIVER RD
City,State,Zip:	LOUISVILLE, KY 40207
Sequence Id:	4859056
Facility ID:	60718
Owner Name:	Jim Hendrix
Owner Address:	145 St Matthews Ave
Owner Address2:	Not reported
Owner Address3:	Not reported
Owner City,St,Zip:	Louisville, KY 40207
Internal Document ID:	0
Latitude:	38.2775
Longitude:	-85.698889
Inert Material Code:	Not reported
Removed Date:	Not reported
Change in Service Date:	Not reported
Tank Pit Num:	Not reported
Tank Mfg Code:	FRP
Tank Overfill Protection:	FLR
Last Tank Test Date:	Not reported
Relined Date:	Not reported
Lining Insp Date:	Not reported
Pipe Release Detection:	LTT
Pipe Rel Detect Suc Code:	NON
Pipe Leak Detect Code:	MLD
Last Contained Date:	Not reported
Pipe Mfg Code:	FRP
Last Pipe Test Date:	11/05/2018
Last CP Test Date:	Not reported
Added To Flex Date:	Not reported
Added To Piping Date:	Not reported
Decode For Tstatus:	Active
Decode For Inertmatcd:	Not reported

RIVER RD CHEVRON (Continued) **U001183188**

Decode For Tmatcode:	Fiberglass Reinforced
Decode For Textcrprcd:	Not Applicable
Decode For Treldetcod:	Automatic Tank Gauging
Decode For Tintprotcd:	Not Applicable
Decode For Tsplprevcd:	Single Wall Spill Bucket
Decode For Tovflprvcd:	Flow Restrictor
Decode For Pmatcode:	Double Wall Fiberglass
Decode For Pextcoprcd:	Not Applicable
Decode For Ptypecode:	Pressurized
Decode For Preldetcod:	Line Tightness Test
Decode For Preldetsuc:	None
Decode For Plekdetcod:	Manual Line Leak Detection
Decode For Tsubcd:	Gasoline
Decode For Tmancd:	Fiberglass Manufacturer Unknown
Decode For Pmancd:	Fiberglass Manufacturer Unknown
Subject Item ID:	2
Tank Status:	TAC
Installation Date:	01/01/1985
Closed In Place Date:	Not reported
Capacity in Gallons:	10000
Compartment Number:	1
Piping Installation Date:	Not reported
Added To Tank Date:	Not reported
Inert Material Code:	Not reported
Removed Date:	Not reported
Change in Service Date:	Not reported
Tank Pit Num:	Not reported
Tank Mfg Code:	FRP
Tank Overfill Protection:	FLR
Last Tank Test Date:	Not reported
Relined Date:	Not reported
Lining Insp Date:	Not reported
Pipe Release Detection:	LTT
Pipe Rel Detect Suc Code:	NON
Pipe Leak Detect Code:	MLD
Last Contained Date:	Not reported
Pipe Mfg Code:	FRP
Last Pipe Test Date:	11/05/2018
Last CP Test Date:	Not reported
Added To Flex Date:	Not reported
Added To Piping Date:	Not reported
Decode For Tstatus:	Active
Decode For Inertmatcd:	Not reported
Decode For Tmatcode:	Fiberglass Reinforced
Decode For Textcrprcd:	Not Applicable
Decode For Treldetcod:	Automatic Tank Gauging
Decode For Tintprotcd:	Not Applicable
Decode For Tsplprevcd:	Single Wall Spill Bucket
Decode For Tovflprvcd:	Flow Restrictor
Decode For Pmatcode:	Double Wall Fiberglass
Decode For Pextcoprcd:	Not Applicable
Decode For Ptypecode:	Pressurized
Decode For Preldetcod:	Line Tightness Test
Decode For Preldetsuc:	None
Decode For Plekdetcod:	Manual Line Leak Detection
Decode For Tsubcd:	Gasoline

RIVER RD CHEVRON (Continued) **U001183188**

Decode For Tmancd:	Fiberglass Manufacturer Unknown
Decode For Pmancd:	Fiberglass Manufacturer Unknown
Subject Item ID:	3
Tank Status:	TAC
Installation Date:	01/01/1985
Closed In Place Date:	Not reported
Capacity in Gallons:	10000
Compartment Number:	1
Piping Installation Date:	Not reported
Added To Tank Date:	Not reported
Inert Material Code:	Not reported
Removed Date:	Not reported
Change in Service Date:	Not reported
Tank Pit Num:	Not reported
Tank Mfg Code:	FRP
Tank Overfill Protection:	ASD
Last Tank Test Date:	Not reported
Relined Date:	Not reported
Lining Insp Date:	Not reported
Pipe Release Detection:	LTT
Pipe Rel Detect Suc Code:	NON
Pipe Leak Detect Code:	MLD
Last Contained Date:	Not reported
Pipe Mfg Code:	FRP
Last Pipe Test Date:	11/05/2018
Last CP Test Date:	Not reported
Added To Flex Date:	Not reported
Added To Piping Date:	Not reported
Decode For Tstatus:	Active
Decode For Inertmatcd:	Not reported
Decode For Tmatcode:	Fiberglass Reinforced
Decode For Textcrprcd:	Not Applicable
Decode For Treldetcod:	Automatic Tank Gauging
Decode For Tintprotcd:	Not Applicable
Decode For Tsplprevcd:	Single Wall Spill Bucket
Decode For Tovflprvcd:	Automatic Shutoff Device
Decode For Pmatcode:	Double Wall Fiberglass
Decode For Pextcoprcd:	Not Applicable
Decode For Ptypecode:	Pressurized
Decode For Preldetcod:	Line Tightness Test
Decode For Preldetsuc:	None
Decode For Plekdetcod:	Manual Line Leak Detection
Decode For Tsubcd:	Gasoline
Decode For Tmancd:	Fiberglass Manufacturer Unknown
Decode For Pmancd:	Fiberglass Manufacturer Unknown
Subject Item ID:	1
Tank Status:	TAC
Installation Date:	01/01/1985
Closed In Place Date:	Not reported
Capacity in Gallons:	10000
Compartment Number:	1
Piping Installation Date:	Not reported
Added To Tank Date:	Not reported
Inert Material Code:	Not reported
Removed Date:	06/16/1998

RIVER RD CHEVRON (Continued) **U001183188**

Change in Service Date:	Not reported
Tank Pit Num:	Not reported
Tank Mfg Code:	Not reported
Tank Overfill Protection:	UNK
Last Tank Test Date:	Not reported
Relined Date:	Not reported
Lining Insp Date:	Not reported
Pipe Release Detection:	UNK
Pipe Rel Detect Suc Code:	UNK
Pipe Leak Detect Code:	NA
Last Contained Date:	Not reported
Pipe Mfg Code:	Not reported
Last Pipe Test Date:	Not reported
Last CP Test Date:	Not reported
Added To Flex Date:	Not reported
Added To Piping Date:	Not reported
Decode For Tstatus:	Removed Tank Verified
Decode For Inertmatcd:	Not reported
Decode For Tmatcode:	Fiberglass Reinforced
Decode For Textcrprcd:	Not Applicable
Decode For Treldetcod:	None
Decode For Tintprotcd:	Not Applicable
Decode For Tsplprevcd:	Unknown
Decode For Tovflprvcd:	Unknown
Decode For Pmatcode:	Unknown
Decode For Pextcoprcd:	Unknown
Decode For Ptypecode:	Unknown
Decode For Preldetcod:	Unknown
Decode For Preldetsuc:	Unknown
Decode For Plekdetcod:	Not Applicable
Decode For Tsubcd:	Oil
Decode For Tmancd:	Not reported
Decode For Pmancd:	Not reported
Subject Item ID:	4
Tank Status:	TRM
Installation Date:	01/01/1985
Closed In Place Date:	Not reported
Capacity in Gallons:	1000
Compartment Number:	1
Piping Installation Date:	Not reported
Added To Tank Date:	Not reported

T82 **ZORN AV CHEVRON SERVICE CENTER** **EDR Hist Auto** **1014166901**
NW **3002 E RIVER RD** **N/A**
< 1/8 **JEFFERSON (County), KY 40202**
0.116 mi.
612 ft. **Site 3 of 4 in cluster T**

Actual: EDR Hist Auto
437 ft.

Focus Map:
11

Year:	Name:	Type:
1966	GREENWELL SERVICE STATION	GASOLINE STATIONS
1971	GREENWELL SERVICE STATION	GASOLINE STATIONS
1976	GREENWELL SERVICE STATION	GASOLINE STATIONS
1979	GREENWELL CHEVRON	Gasoline Service Stations
1981	ZORN AV CHEVRON SERVICE CENTER	GASOLINE STATIONS
1986	ZORN AVENUE CHEVRON SERVICE	Gasoline Service Stations
1987	ZORN AVENUE CHEVRON SERVICE	Gasoline Service Stations

ZORN AV CHEVRON SERVICE CENTER (Continued) **1014166901**

1988	ZORN AVENUE CHEVRON SERVICE	Gasoline Service Stations
1989	ZORN AVENUE CHEVRON SERVICE	Gasoline Service Stations, NEC
1990	ZORN AVENUE CHEVRON SERVICE	Gasoline Service Stations, NEC
1991	ZORN AVENUE CHEVRON SERVICE	Gasoline Service Stations, NEC
1992	ZORN AVENUE CHEVRON SERVICE	Gasoline Service Stations, NEC
1993	ZORN AVENUE CHEVRON SERVICE	Gasoline Service Stations, NEC
1994	ZORN AVENUE CHEVRON SERVICE	Gasoline Service Stations, NEC
1995	ZORN AVENUE CHEVRON SERVICE	Gasoline Service Stations, NEC
1996	ZORN AVENUE CHEVRON SERVICE	Gasoline Service Stations, NEC
1997	JIM HENDRIX CHEVRON SERVICE	Gasoline Service Stations, NEC
1998	JIM HENDRIX CHEVRON SERVICE GAS	GASOLINE STATIONS
1998	HENDRIX JIM SERVICE CENTERS	Gasoline Service Stations, NEC
1999	HENDRIX JIM SERVICE CENTERS	Gasoline Service Stations, NEC
2000	HENDRIX JIM SERVICE CENTERS	Gasoline Service Stations, NEC
2001	HENDRIX JIM SERVICE CENTERS	Gasoline Service Stations, NEC
2002	HENDRIX JIM SERVICE CENTERS	Gasoline Service Stations, NEC
2003	HENDRIX JIM SERVICE CENTERS	Gasoline Service Stations, NEC
2004	HENDRIX JIM SERVICE CENTERS	Gasoline Service Stations, NEC
2005	HENDRIX JIM SERVICE CENTERS	Gasoline Service Stations, NEC
2006	HENDRIX JIM SERVICE CENTERS	Gasoline Service Stations, NEC
2007	HENDRIX JIM SERVICE CENTERS	Gasoline Service Stations, NEC
2008	HENDRIX JIM SERVICE CENTERS	Gasoline Service Stations, NEC
2009	HENDRIX JIM SERVICE CENTERS	Gasoline Service Stations, NEC
2010	HENDRIX JIM SERVICE CENTERS	Gasoline Service Stations, NEC
2011	SINGH PETRO 9 INC	Gasoline Service Stations
2011	HENDRIX JIM SERVICE CENTERS	Gasoline Service Stations, NEC
2012	SINGH PETRO 9 INC	Gasoline Service Stations
2012	HENDRIX JIM SERVICE CENTERS	Gasoline Service Stations, NEC
2013	SINGH PETRO 9 INC	Gasoline Service Stations
2013	HENDRIX JIM SERVICE CENTERS	Gasoline Service Stations, NEC
2014	HENDRIX JIM SERVICE CENTERS	Gasoline Service Stations, NEC

83
NW
< 1/8
0.122 mi.
643 ft.

LOUISVILLE WATER COMPANY-ZORN STATION #1
3000 UPPER RIVER ROAD
LOUISVILLE, KY 40206

RCRA NonGen / NLR **1000518159**
KYD985080407

Actual:
436 ft.

Focus Map:
11

RCRA NonGen / NLR:

Date form received by agency:	1998-03-26 00:00:00.0
Facility name:	LOUISVILLE WATER COMPANY-ZORN STATION #1
Facility address:	3000 UPPER RIVER ROAD LOUISVILLE, KY 40206
EPA ID:	KYD985080407
Mailing address:	SOUTH THIRD STREET LOUISVILLE, KY 40202
Contact:	PHILIP SCOTT
Contact address:	435 SOUTH THIRD STREET LOUISVILLE, KY 40202
Contact country:	US
Contact telephone:	502-569-3600
Contact email:	Not reported
EPA Region:	04
Land type:	Municipal
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

LOUISVILLE WATER COMPANY-ZORN STATION #1 (Continued) **1000518159**

Owner/Operator Summary:
- Owner/operator name: CITY OF LOUISVILLE
- Owner/operator address: P.O. BOX 35410
  LOUISVILLE, KY 40232
- Owner/operator country: Not reported
- Owner/operator telephone: 502-569-3600
- Owner/operator email: Not reported
- Owner/operator fax: Not reported
- Owner/operator extension: Not reported
- Legal status: Municipal
- Owner/Operator Type: Owner
- Owner/Op start date: Not reported
- Owner/Op end date: Not reported

Handler Activities Summary:
- U.S. importer of hazardous waste: No
- Mixed waste (haz. and radioactive): No
- Recycler of hazardous waste: No
- Transporter of hazardous waste: No
- Treater, storer or disposer of HW: No
- Underground injection activity: No
- On-site burner exemption: No
- Furnace exemption: No
- Used oil fuel burner: No
- Used oil processor: No
- User oil refiner: No
- Used oil fuel marketer to burner: No
- Used oil Specification marketer: No
- Used oil transfer facility: No
- Used oil transporter: No

Hazardous Waste Summary:

- Waste code: NONE
- Waste name: None

Facility Has Received Notices of Violations:
- Regulation violated: SS - krs224.46-580
- Area of violation: Generators - General
- Date violation determined: 1991-07-30 00:00:00.0
- Date achieved compliance: 1991-10-11 00:00:00.0
- Violation lead agency: State
  - Enforcement action: WRITTEN INFORMAL
  - Enforcement action date: 1991-09-27 00:00:00.0
  - Enf. disposition status: Not reported
  - Enf. disp. status date: Not reported
  - Enforcement lead agency: State
  - Proposed penalty amount: Not reported
  - Final penalty amount: Not reported
  - Paid penalty amount: Not reported

Evaluation Action Summary:
- Evaluation date: 1991-07-30 00:00:00.0
- Evaluation: NON-FINANCIAL RECORD REVIEW
- Area of violation: Generators - General

LOUISVILLE WATER COMPANY-ZORN STATION #1 (Continued) **1000518159**

Date achieved compliance: 1991-10-11 00:00:00.0
Evaluation lead agency: State

T84 **LOUISVILLE WATER COMPANY- ZORN PUMP STATION** **RCRA NonGen / NLR** **1012179300**
NW **3005 RIVER ROAD** **KYR000049627**
1/8-1/4 **LOUISVILLE, KY 40207**
0.141 mi.
744 ft. **Site 4 of 4 in cluster T**

Actual:
437 ft.

Focus Map:
11

RCRA NonGen / NLR:

Date form received by agency:	2019-03-31 00:00:00.0
Facility name:	LOUISVILLE WATER COMPANY- ZORN PUMP STATION
Facility address:	3005 RIVER ROAD LOUISVILLE, KY 40207
EPA ID:	KYR000049627
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	04
Land type:	Private
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	METRO LOUISVILLE
Owner/operator address:	WEST JEFFERSON STREET LOUISVILLE, KY 40202
Owner/operator country:	US
Owner/operator telephone:	502-574-3333
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	1854-01-01 00:00:00.0
Owner/Op end date:	Not reported

Owner/operator name:	N/A
Owner/operator address:	Not reported Not reported
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	1854-01-01 00:00:00.0
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No

LOUISVILLE WATER COMPANY- ZORN PUMP STATION (Continued) **1012179300**

Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 2018-03-28 00:00:00.0
Site name: LOUISVILLE WATER COMPANY- ZORN PUMP STATION
Classification: Large Quantity Generator

Date form received by agency: 2018-03-14 00:00:00.0
Site name: LOUISVILLE WATER COMPANY- ZORN PUMP STATION
Classification: Not a generator, verified

Date form received by agency: 2011-02-11 00:00:00.0
Site name: LOUISVILLE WATER COMPANY- ZORN PUMP STATION
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 2009-01-21 00:00:00.0
Site name: LOUISVILLE WATER COMPANY
Classification: Not a generator, verified

Hazardous Waste Summary:

. Waste code: D008
. Waste name: LEAD

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 2019-05-10 00:00:00.0
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2013-05-01 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

85
SSE
1/8-1/4
0.159 mi.
838 ft.

MSD
2318 STANNYE DR
NORTHFIELD, KY 40222

KY AST **A100450934**
N/A

Actual:
575 ft.

Focus Map:
13

AST:

Permit Number:	PAG0004221
Name:	MSD
Address:	2318 STANNYE DR
City,State,Zip:	NORTHFIELD, KY 40222-6352
Permit Type:	Commercial
Category:	Other
Permit Status:	Completed
Issue Date:	12/07/2011
Subdivision:	Not reported
Last Inspection:	Not reported
Installer:	Island Electric LLC - Dwayne Harris

V86
SSE
1/8-1/4
0.161 mi.
852 ft.

CABELA'S LOUISVILLE KY RETAIL
5100 NORTON HEALTHCARE BLVD
LOUISVILLE, KY 40241

Site 1 of 2 in cluster V

RCRA-VSQG **1016168743**
KYR000058180

Actual:
673 ft.

Focus Map:
8

RCRA-VSQG:

Date form received by agency:	2019-03-27 00:00:00.0
Facility name:	CABELA'S LOUISVILLE KY RETAIL
Facility address:	5100 NORTON HEALTHCARE BLVD LOUISVILLE, KY 40241
EPA ID:	KYR000058180
Mailing address:	E KEARNEY SPRINGFIELD, MO 65898
Contact:	DAN HOY
Contact address:	E KEARNEY SPRINGFIELD, MO 65898
Contact country:	US
Contact telephone:	417-873-5251
Contact email:	Not reported
EPA Region:	04
Land type:	Private
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name:	CABELA'S INC.

CABELA'S LOUISVILLE KY RETAIL (Continued) **1016168743**

Owner/operator address:	CABELA DR
	SIDNEY, NE 69160
Owner/operator country:	US
Owner/operator telephone:	858-453-7845
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	2012-02-13 00:00:00.0
Owner/Op end date:	Not reported
Owner/operator name:	BASS PRO SHOPS
Owner/operator address:	E KEARNEY
	SPRINGFIELD, MO 65898
Owner/operator country:	US
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	2017-09-26 00:00:00.0
Owner/Op end date:	Not reported
Owner/operator name:	CABELA'S INC.
Owner/operator address:	Not reported
	Not reported
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	2012-02-13 00:00:00.0
Owner/Op end date:	Not reported
Owner/operator name:	BASS PRO SHOPS
Owner/operator address:	E KEARNEY
	SPRINGFIELD, MO 65898
Owner/operator country:	US
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	2017-09-26 00:00:00.0
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No

CABELA'S LOUISVILLE KY RETAIL (Continued) **1016168743**

Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 2018-03-22 00:00:00.0
Site name: CABELA'S LOUISVILLE KY RETAIL
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 2013-08-08 00:00:00.0
Site name: CABELA'S STORE #44
Classification: Conditionally Exempt Small Quantity Generator

Hazardous Waste Summary:

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D005
. Waste name: BARIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D030
. Waste name: 2,4-DINITROTOLUENE

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 2019-04-11 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported

CABELA'S LOUISVILLE KY RETAIL (Continued) **1016168743**

Evaluation lead agency: State

Evaluation date: 2013-11-25 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

V87 **CABELA'S RETAIL** **KY AST** **A100451557**
SSE **5100 NORTON HEALTHCARE BLVD** **N/A**
1/8-1/4 **LOUISVILLE, KY 40241**
0.161 mi.
852 ft. **Site 2 of 2 in cluster V**

Actual:
673 ft.

Focus Map:
8

AST:
Permit Number: PAG0004854
Name: CABELA'S RETAIL
Address: 5100 NORTON HEALTHCARE BLVD
City,State,Zip: LOUISVILLE, KY 40241-2838
Permit Type: Private Use
Category: Other
Permit Status: Completed
Issue Date: 08/06/2013
Subdivision: Not reported
Last Inspection: Not reported
Installer: Henderson Services LLC

W88 **LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER** **SEMS-ARCHIVE** **1004508006**
SSE **800 ZORN AVENUE** **RCRA-SQG** **KY0360090005**
1/8-1/4 **LOUISVILLE, KY 40202** **DOCKET HWC**
0.176 mi. **NY MANIFEST**
929 ft. **Site 1 of 4 in cluster W** **NJ MANIFEST**

Actual:
513 ft.

Focus Map:
17

SEMS Archive:
Site ID: 0404526
EPA ID: KY0360090005
Cong District: Not reported
FIPS Code: 21111
FF: Y
NPL: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

SEMS Archive Detail:
Region: 04
Site ID: 0404526
EPA ID: KY0360090005
Site Name: LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER
NPL: N
FF: Y
OU: 00
Action Code: VS
Action Name: ARCH SITE
SEQ: 1
Start Date: 2017-02-07 05:00:00
Finish Date: 2017-02-07 05:00:00
Qual: Not reported
Current Action Lead: EPA Perf In-Hse

LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER (Continued) **1004508006**

Region: 04
Site ID: 0404526
EPA ID: KY0360090005
Site Name: LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER
NPL: N
FF: Y
OU: 00
Action Code: DS
Action Name: DISCVRY
SEQ: 1
Start Date: 2016-05-27 05:00:00
Finish Date: 2016-05-27 05:00:00
Qual: Not reported
Current Action Lead: EPA Perf In-Hse

Region: 04
Site ID: 0404526
EPA ID: KY0360090005
Site Name: LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER
NPL: N
FF: Y
OU: 00
Action Code: PA
Action Name: PA
SEQ: 1
Start Date: 2016-05-27 05:00:00
Finish Date: 2016-12-01 05:00:00
Qual: N
Current Action Lead: St Perf

RCRA-SQG:
Date form received by agency: 2019-04-22 00:00:00.0
Facility name: LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER
Facility address: 800 ZORN AVENUE
LOUISVILLE, KY 40202
EPA ID: KY0360090005
Mailing address: ZORN AVENUE
LOUISVILLE, KY 40202
Contact: JEFFREY COYLE
Contact address: ZORN AVENUE
LOUISVILLE, KY 40202
Contact country: US
Contact telephone: 502-287-6224
Contact email: Not reported
EPA Region: 04
Land type: Federal
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: U.S. GOVERNMENT

LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER (Continued) **1004508006**

Owner/operator address: 800 ZORN AVENUE
LOUISVILLE, KY 40202
Owner/operator country: US
Owner/operator telephone: 502-895-3401
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Federal
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NAME UNKNOWN
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Federal
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): Yes
Recycler of hazardous waste: Yes
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 2019-02-25 00:00:00.0
Site name: LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER
Classification: Small Quantity Generator

Date form received by agency: 2018-07-13 00:00:00.0
Site name: LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER
Classification: Small Quantity Generator

Date form received by agency: 2017-05-25 00:00:00.0
Site name: LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER
Classification: Small Quantity Generator

Date form received by agency: 2016-05-04 00:00:00.0

LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER (Continued) **1004508006**

Site name: LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER
Classification: Small Quantity Generator

Date form received by agency: 2015-05-15 00:00:00.0
Site name: LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER
Classification: Small Quantity Generator

Date form received by agency: 2014-05-27 00:00:00.0
Site name: LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER
Classification: Small Quantity Generator

Date form received by agency: 2013-08-23 00:00:00.0
Site name: LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER
Classification: Small Quantity Generator

Date form received by agency: 2013-05-14 00:00:00.0
Site name: LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER
Classification: Large Quantity Generator

Date form received by agency: 2012-11-21 00:00:00.0
Site name: LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER
Classification: Large Quantity Generator

Date form received by agency: 2012-05-11 00:00:00.0
Site name: LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER
Classification: Small Quantity Generator

Date form received by agency: 2012-01-27 00:00:00.0
Site name: LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER
Classification: Small Quantity Generator

Date form received by agency: 2011-08-15 00:00:00.0
Site name: LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER
Classification: Small Quantity Generator

Date form received by agency: 2010-06-22 00:00:00.0
Site name: ROBLEY REX VETERANS AFFAIRS MEDICAL CENTER
Classification: Small Quantity Generator

Date form received by agency: 2009-06-05 00:00:00.0
Site name: LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER
Classification: Small Quantity Generator

Date form received by agency: 2008-10-30 00:00:00.0
Site name: LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 2007-09-28 00:00:00.0
Site name: LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 2006-10-31 00:00:00.0
Site name: VETERANS ADMINISTRATION HOSPITAL
Classification: Small Quantity Generator

Date form received by agency: 1987-06-05 00:00:00.0
Site name: VETERANS ADMINISTRATION HOSPITAL

LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER (Continued) **1004508006**

Classification: Conditionally Exempt Small Quantity Generator

Hazardous Waste Summary:

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D005
. Waste name: BARIUM

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D011
. Waste name: SILVER

. Waste code: D012
. Waste name: ENDRIN
(1,2,3,4,10,10-HEXACHLORO-1,7-EPOXY-1,4,4A,5,6,7,8,8A-OCTAHYDRO-1,4-EN
DO, ENDO-5,8-DIMETH-ANO-NAPHTHALENE)

. Waste code: D013
. Waste name: LINDANE (1,2,3,4,5,6-HEXA-CHLOROCYCLOHEXANE, GAMMA ISOMER)

. Waste code: D014
. Waste name: METHOXYCHLOR (1,1,1-TRICHLORO-2,2-BIS [P-METHOXYPHENYL] ETHANE)

. Waste code: D015
. Waste name: TOXAPHENE (C10 H10 CL8, TECHNICAL CHLORINATED CAMPHENE, 67-69 PERCENT CHLORINE)

. Waste code: D016
. Waste name: 2,4-D (2,4-DICHLOROPHENOXYACETIC ACID)

. Waste code: D017
. Waste name: 2,4,5-TP SILVEX (2,4,5-TRICHLOROPHENOXYPROPIONIC ACID)

LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER (Continued) **1004508006**

. Waste code: D018
. Waste name: BENZENE

. Waste code: D019
. Waste name: CARBON TETRACHLORIDE

. Waste code: D020
. Waste name: CHLORDANE

. Waste code: D021
. Waste name: CHLOROBENZENE

. Waste code: D022
. Waste name: CHLOROFORM

. Waste code: D023
. Waste name: O-CRESOL

. Waste code: D024
. Waste name: M-CRESOL

. Waste code: D025
. Waste name: P-CRESOL

. Waste code: D026
. Waste name: CRESOL

. Waste code: D027
. Waste name: 1,4-DICHLOROBENZENE

. Waste code: D028
. Waste name: 1,2-DICHLOROETHANE

. Waste code: D029
. Waste name: 1,1-DICHLOROETHYLENE

. Waste code: D030
. Waste name: 2,4-DINITROTOLUENE

. Waste code: D031
. Waste name: HEPTACHLOR (AND ITS EPOXIDE)

. Waste code: D032
. Waste name: HEXACHLOROBENZENE

. Waste code: D033
. Waste name: HEXACHLOROBUTADIENE

. Waste code: D034
. Waste name: HEXACHLOROETHANE

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: D036
. Waste name: NITROBENZENE

LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER (Continued) **1004508006**

. Waste code: D037
. Waste name: PENTACHLOROPHENOL

. Waste code: D038
. Waste name: PYRIDINE

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: D040
. Waste name: TRICHLORETHYLENE

. Waste code: D041
. Waste name: 2,4,5-TRICHLOROPHENOL

. Waste code: D042
. Waste name: 2,4,6-TRICHLOROPHENOL

. Waste code: D043
. Waste name: VINYL CHLORIDE

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: K066
. Waste name: SLUDGE FROM TREATMENT OF PROCESS WASTEWATER AND OR ACID PLANT BLOWDOWN FROM PRIMARY ZINC PRODUCTION.

. Waste code: P001
. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: P012
. Waste name: ARSENIC OXIDE AS2O3 (OR) ARSENIC TRIOXIDE

. Waste code: P033

LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER (Continued) **1004508006**

. Waste name: CYANOGEN CHLORIDE (OR) CYANOGEN CHLORIDE (CN)CL

. Waste code: P042
. Waste name: 1,2-BENZENEDIOL, 4-[1-HYDROXY-2-(METHYLAMINO)ETHYL]-, (R)- (OR) EPINEPHRINE

. Waste code: P075
. Waste name: NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS

. Waste code: P098
. Waste name: POTASSIUM CYANIDE (OR) POTASSIUM CYANIDE K(CN)

. Waste code: P105
. Waste name: SODIUM AZIDE

. Waste code: U001
. Waste name: ACETALDEHYDE (I) (OR) ETHANAL (I)

. Waste code: U002
. Waste name: 2-PROPANONE (I) (OR) ACETONE (I)

. Waste code: U003
. Waste name: ACETONITRILE (I,T)

. Waste code: U004
. Waste name: ACETOPHENONE (OR) ETHANONE, 1-PHENYL-

. Waste code: U005
. Waste name: 2-ACETYLAMINOFLUORENE (OR) ACETAMIDE, N-9H-FLUOREN-2-YL

. Waste code: U006
. Waste name: ACETYL CHLORIDE (C,R,T)

. Waste code: U007
. Waste name: 2-PROPENAMIDE (OR) ACRYLAMIDE

. Waste code: U008
. Waste name: 2-PROPENOIC ACID (I) (OR) ACRYLIC ACID (I)

. Waste code: U009
. Waste name: 2-PROPENENITRILE (OR) ACRYLONITRILE

. Waste code: U010
. Waste name: AZIRINO [2',3':3,4]PYRROLO[1,2-A]INDOLE-4,7-DIONE, 6-AMINO-8-[[(AMINOCARBONYL)OXY]METHYL]-1,1A,2,8,8A,8B-HEXAHYDRO-8A-METHOXY-5-METHYL-, [1AS-(1AALPHA, 8BETA, 8AALPHA, 8BALPHA)]- (OR) MITOMYCIN C

. Waste code: U011
. Waste name: 1H-1,2,4-TRIAZOL-3-AMINE (OR) AMITROLE

. Waste code: U012
. Waste name: ANILINE (I,T) (OR) BENZENAMINE (I,T)

. Waste code: U014
. Waste name: AURAMINE (OR) BENZENAMINE, 4,4'-CARBONIMIDOYLBIS[N,N-DIMETHYL-

LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER (Continued) **1004508006**

. Waste code: U015
. Waste name: AZASERINE (OR) L-SERINE, DIAZOACETATE (ESTER)

. Waste code: U016
. Waste name: BENZ[C]ACRIDINE

. Waste code: U017
. Waste name: BENZAL CHLORIDE (OR) BENZENE, (DICHLOROMETHYL)-

. Waste code: U018
. Waste name: BENZ[A]ANTHRACENE

. Waste code: U019
. Waste name: BENZENE (I,T)

. Waste code: U020
. Waste name: BENZENESULFONIC ACID CHLORIDE (C,R) (OR) BENZENESULFONYL CHLORIDE (C,R)

. Waste code: U021
. Waste name: [1,1'-BIPHENYL]-4,4'-DIAMINE (OR) BENZIDINE

. Waste code: U022
. Waste name: BENZO[A]PYRENE

. Waste code: U023
. Waste name: BENZENE, (TRICHLOROMETHYL)- (OR) BENZOTRICHLORIDE (C,R,T)

. Waste code: U024
. Waste name: DICHLOROMETHOXY ETHANE (OR) ETHANE, 1,1'-[METHYLENEBIS(OXY)]BIS[2-CHLORO-

. Waste code: U025
. Waste name: DICHLOROETHYL ETHER (OR) ETHANE, 1,1'-OXYBIS[2-CHLORO-

. Waste code: U026
. Waste name: CHLORNAPHAZIN (OR) NAPHTHALENAMINE, N,N'-BIS(2-CHLOROETHYL)-

. Waste code: U027
. Waste name: DICHLOROISOPROPYL ETHER (OR) PROPANE, 2,2'-OXYBIS[2-CHLORO-

. Waste code: U028
. Waste name: 1,2-BENZENEDICARBOXYLIC ACID, BIS(2-ETHYLHEXYL) ESTER (OR) DIETHYLHEXYL PHTHALATE

. Waste code: U029
. Waste name: METHANE, BROMO- (OR) METHYL BROMIDE

. Waste code: U030
. Waste name: 4-BROMOPHENYL PHENYL ETHER (OR) BENZENE, 1-BROMO-4-PHENOXY-

. Waste code: U031
. Waste name: 1-BUTANOL (I) (OR) N-BUTYL ALCOHOL (I)

. Waste code: U032
. Waste name: CALCIUM CHROMATE (OR) CHROMIC ACID H2CRO4, CALCIUM SALT

LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER (Continued) **1004508006**

. Waste code: U033
. Waste name: CARBON OXYFLUORIDE (R,T) (OR) CARBONIC DIFLUORIDE

. Waste code: U034
. Waste name: ACETALDEHYDE, TRICHLORO- (OR) CHLORAL

. Waste code: U035
. Waste name: BENZENEBUTANOIC ACID, 4-[BIS(2-CHLOROETHYL)AMINO]- (OR) CHLORAMBUCIL

. Waste code: U036
. Waste name: 4,7-METHANO-1H-INDENE, 1,2,4,5,6,7,8,8-OCTACHLORO-2,3,3A,4,7,7A-HEXAHYDRO- (OR) CHLORDANE, ALPHA & GAMMA ISOMERS

. Waste code: U037
. Waste name: BENZENE, CHLORO- (OR) CHLOROBENZENE

. Waste code: U038
. Waste name: BENZENEACETIC ACID, 4-CHLORO-ALPHA-(4-CHLOROPHENYL)-ALPHA-HYDROXY-, ETHYL ESTER (OR) CHLOROBENZILATE

. Waste code: U039
. Waste name: P-CHLORO-M-CRESOL (OR) PHENOL, 4-CHLORO-3-METHYL-

. Waste code: U041
. Waste name: EPICHLOROHYDRIN (OR) OXIRANE, (CHLOROMETHYL)-

. Waste code: U042
. Waste name: 2-CHLOROETHYL VINYL ETHER (OR) ETHENE, (2-CHLOROETHOXY)-

. Waste code: U043
. Waste name: ETHENE, CHLORO- (OR) VINYL CHLORIDE

. Waste code: U044
. Waste name: CHLOROFORM (OR) METHANE, TRICHLORO-

. Waste code: U045
. Waste name: METHANE, CHLORO- (I,T) (OR) METHYL CHLORIDE (I,T)

. Waste code: U046
. Waste name: CHLOROMETHYL METHYL ETHER (OR) METHANE, CHLOROMETHOXY-

. Waste code: U047
. Waste name: BETA-CHLORONAPHTHALENE (OR) NAPHTHALENE, 2-CHLORO-

. Waste code: U048
. Waste name: O-CHLOROPHENOL (OR) PHENOL, 2-CHLORO-

. Waste code: U049
. Waste name: 4-CHLORO-O-TOLUIDINE, HYDROCHLORIDE (OR) BENZENAMINE, 4-CHLORO-2-METHYL-, HYDROCHLORIDE

. Waste code: U050
. Waste name: CHRYSENE

. Waste code: U051
. Waste name: CREOSOTE

LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER (Continued) **1004508006**

. Waste code: U052
. Waste name: CRESOL (CRESYLIC ACID) (OR) PHENOL, METHYL-

. Waste code: U053
. Waste name: 2-BUTENAL (OR) CROTONALDEHYDE

. Waste code: U055
. Waste name: BENZENE, (1-METHYLETHYL)- (I) (OR) CUMENE (I)

. Waste code: U056
. Waste name: BENZENE, HEXAHYDRO- (I) (OR) CYCLOHEXANE (I)

. Waste code: U057
. Waste name: CYCLOHEXANONE (I)

. Waste code: U058
. Waste name: 2H-1,3,2-OXAZAPHOSPHORIN-2-AMINE, N,N-BIS(2-CHLOROETHYL)TETRAHYDRO-, 2-OXIDE (OR) CYCLOPHOSPHAMIDE

. Waste code: U059
. Waste name: 5,12-NAPHTHACENEDIONE, 8-ACETYL-10-[(3-AMINO-2,3,6-TRIDEOXY)-ALPHA-L-LYXO-HEXOPYRANOSYL)OXY]-7,8,9,10-TETRAHYDRO-6,8,11-TRIHYDROXY-1-METHOXY-, (8S-CIS)- (OR) DAUNOMYCIN

. Waste code: U060
. Waste name: BENZENE, 1,1'-(2,2-DICHLOROETHYLIDENE)BIS[4-CHLORO- (OR) DDD

. Waste code: U061
. Waste name: BENZENE, 1,1'-(2,2,2-TRICHLOROETHYLIDENE)BIS[4-CHLORO- (OR) DDT

. Waste code: U062
. Waste name: CARBAMOTHIOIC ACID, BIS(1-METHYLETHYL)-, S-(2,3-DICHLORO-2-PROPENYL) ESTER (OR) DIALLATE

. Waste code: U063
. Waste name: DIBENZ[A,H]ANTHRACENE

. Waste code: U064
. Waste name: BENZO[RST]PENTAPHENE (OR) DIBENZO[A,I]PYRENE

. Waste code: U066
. Waste name: 1,2-DIBROMO-3-CHLOROPROPANE (OR) PROPANE, 1,2-DIBROMO-3-CHLORO-

. Waste code: U067
. Waste name: ETHANE, 1,2-DIBROMO- (OR) ETHYLENE DIBROMIDE

. Waste code: U068
. Waste name: METHANE, DIBROMO- (OR) METHYLENE BROMIDE

. Waste code: U069
. Waste name: 1,2-BENZENEDICARBOXYLIC ACID, DIBUTYL ESTER (OR) DIBUTYL PHTHALATE

. Waste code: U070
. Waste name: BENZENE, 1,2-DICHLORO- (OR) O-DICHLOROBENZENE

. Waste code: U071

LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER (Continued) **1004508006**

. Waste name: BENZENE, 1,3-DICHLORO- (OR) M-DICHLOROBENZENE

. Waste code: U072
. Waste name: BENZENE, 1,4-DICHLORO- (OR) P-DICHLOROBENZENE

. Waste code: U073
. Waste name: [1,1'-BIPHENYL]-4,4'-DIAMINE, 3,3'-DICHLORO- (OR) 3,3'-DICHLOROBENZIDINE

. Waste code: U074
. Waste name: 1,4-DICHLORO-2-BUTENE (I,T) (OR) 2-BUTENE, 1,4-DICHLORO- (I,T)

. Waste code: U075
. Waste name: DICHLORODIFLUOROMETHANE (OR) METHANE, DICHLORODIFLUORO-

. Waste code: U076
. Waste name: ETHANE, 1,1-DICHLORO- (OR) ETHYLIDENE DICHLORIDE

. Waste code: U077
. Waste name: ETHANE, 1,2-DICHLORO- (OR) ETHYLENE DICHLORIDE

. Waste code: U078
. Waste name: 1,1-DICHLOROETHYLENE (OR) ETHENE, 1,1-DICHLORO-

. Waste code: U079
. Waste name: 1,2-DICHLOROETHYLENE (OR) ETHENE, 1,2-DICHLORO-,(E)-

. Waste code: U080
. Waste name: METHANE, DICHLORO- (OR) METHYLENE CHLORIDE

. Waste code: U081
. Waste name: 2,4-DICHLOROPHENOL (OR) PHENOL, 2,4-DICHLORO-

. Waste code: U082
. Waste name: 2,6-DICHLOROPHENOL (OR) PHENOL, 2,6-DICHLORO-

. Waste code: U083
. Waste name: PROPANE, 1,2-DICHLORO- (OR) PROPYLENE DICHLORIDE

. Waste code: U084
. Waste name: 1,3-DICHLOROPROPENE (OR) 1-PROPENE, 1,3-DICHLORO-

. Waste code: U085
. Waste name: 1,2:3,4-DIEPOXYBUTANE (I,T) (OR) 2,2'-BIOXIRANE

. Waste code: U086
. Waste name: HYDRAZINE, 1,2-DIETHYL- (OR) N,N'-DIETHYLHYDRAZINE

. Waste code: U087
. Waste name: O,O-DIETHYL S-METHYL DITHIOPHOSPHATE (OR) PHOSPHORODITHIOIC ACID, O,O-DIETHYL S-METHYL ESTER

. Waste code: U088
. Waste name: 1,2-BENZENEDICARBOXYLIC ACID, DIETHYL ESTER (OR) DIETHYL PHTHALATE

. Waste code: U089
. Waste name: DIETHYLSTILBESTEROL (OR) PHENOL, 4,4'-(1,2-DIETHYL-1,2-ETHENEDIYL)BIS,

LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER (Continued) **1004508006**

(E)-

. Waste code: U090
. Waste name: 1,3-BENZODIOXOLE, 5-PROPYL- (OR) DIHYDROSAFROLE

. Waste code: U091
. Waste name: [1,1'-BIPHENYL]-4,4'-DIAMINE, 3,3'-DIMETHOXY- (OR) 3,3'-DIMETHOXYBENZIDINE

. Waste code: U092
. Waste name: DIMETHYLAMINE (I) (OR) METHANAMINE, N-METHYL- (I)

. Waste code: U093
. Waste name: BENZENAMINE, N,N-DIMETHYL-4-(PHENYLAZO)- (OR) P-DIMETHYLAMINOAZOBENZENE

. Waste code: U094
. Waste name: 7,12-DIMETHYLBENZ[A]ANTHRACENE (OR) BENZ[A]ANTHRACENE, 7,12-DIMETHYL-

. Waste code: U095
. Waste name: [1,1'-BIPHENYL]-4,4'-DIAMINE, 3,3'-DIMETHYL- (OR) 3,3'-DIMETHYLBENZIDINE

. Waste code: U096
. Waste name: ALPHA,ALPHA-DIMETHYLBENZYLHYDROPEROXIDE (R) (OR) HYDROPEROXIDE, 1-METHYL-1-PHENYLETHYL- (R)

. Waste code: U097
. Waste name: CARBAMIC CHLORIDE, DIMETHYL- (OR) DIMETHYLCARBAMOYL CHLORIDE

. Waste code: U098
. Waste name: 1,1-DIMETHYLHYDRAZINE (OR) HYDRAZINE, 1,1-DIMETHYL-

. Waste code: U099
. Waste name: 1,2-DIMETHYLHYDRAZINE (OR) HYDRAZINE, 1,2-DIPHENYL-

. Waste code: U101
. Waste name: 2,4-DIMETHYLPHENOL (OR) PHENOL, 2,4-DIMETHYL-

. Waste code: U102
. Waste name: 1,2-BENZENEDICARBOXYLIC ACID, DIMETHYL ESTER (OR) DIMETHYL PHTHALATE

. Waste code: U103
. Waste name: DIMETHYL SULFATE (OR) SULFURIC ACID, DIMETHYL ESTER

. Waste code: U105
. Waste name: 2,4-DINITROTOLUENE (OR) BENZENE, 1-METHYL-2,4-DINITRO-

. Waste code: U106
. Waste name: 2,6-DINITROTOLUENE (OR) BENZENE, 2-METHYL-1,3-DINITRO-

. Waste code: U107
. Waste name: 1,2-BENZENEDICARBOXYLIC ACID, DIOCTYL ESTER (OR) DI-N-OCTYL PHTHALATE

. Waste code: U108
. Waste name: 1,4-DIETHYLENEOXIDE (OR) 1,4-DIOXANE

LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER (Continued) **1004508006**

. Waste code: U109
. Waste name: 1,2-DIPHENYLHYDRAZINE (OR) HYDRAZINE, 1,2-DIPHENYL-

. Waste code: U110
. Waste name: 1-PROPANIMINE, N-PROPYL-(I) (OR) DIPROPYLAMINE (I)

. Waste code: U111
. Waste name: 1-PROPANAMINE, N-NITROSO-N-PROPYL- (OR) DI-N-PROPYLNITROSAMINE

. Waste code: U112
. Waste name: ACETIC ACID, ETHYL ESTER (I) (OR) ETHYL ACETATE (I)

. Waste code: U113
. Waste name: 2-PROPENOIC ACID, ETHYL ESTER (I) (OR) ETHYL ACRYLATE (I)

. Waste code: U114
. Waste name: CARBAMODITHIOIC ACID, 1,2-ETHANEDIYLBIS-, SALTS & ESTERS (OR) ETHYLENEBISDITHIOCARBAMIC ACID, SALTS & ESTERS

. Waste code: U115
. Waste name: ETHYLENE OXIDE (I,T) (OR) OXIRANE (I,T)

. Waste code: U116
. Waste name: 2-IMIDAZOLIDINETHIONE (OR) ETHYLENETHIOUREA

. Waste code: U117
. Waste name: ETHANE, 1,1'-OXYBIS-(I) (OR) ETHYL ETHER (I)

. Waste code: U118
. Waste name: 2-PROPENOIC ACID, 2-METHYL-, ETHYL ESTER (OR) ETHYL METHACRYLATE

. Waste code: U119
. Waste name: ETHYL METHANESULFONATE (OR) METHANESULFONIC ACID, ETHYL ESTER

. Waste code: U120
. Waste name: FLUORANTHENE

. Waste code: U121
. Waste name: METHANE, TRICHLOROFLUORO- (OR) TRICHLOROMONOFLUOROMETHANE

. Waste code: U122
. Waste name: FORMALDEHYDE

. Waste code: U123
. Waste name: FORMIC ACID (C,T)

. Waste code: U124
. Waste name: FURAN (I) (OR) FURFURAN (I)

. Waste code: U125
. Waste name: 2-FURANCARBOXALDEHYDE (I) (OR) FURFURAL (I)

. Waste code: U126
. Waste name: GLYCIDYLALDEHYDE (OR) OXIRANECARBOXYALDEHYDE

. Waste code: U127
. Waste name: BENZENE, HEXACHLORO- (OR) HEXACHLOROBENZENE

LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER (Continued) **1004508006**

. Waste code: U128
. Waste name: 1,3-BUTADIENE, 1,1,2,3,4,4-HEXACHLORO- (OR) HEXACHLOROBUTADIENE

. Waste code: U129
. Waste name: CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, (1ALPHA, 2ALPHA, 3BETA, 4ALPHA, 5ALPHA, 6BETA)- (OR) LINDANE

. Waste code: U130
. Waste name: 1,3-CYCLOPENTADIENE, 1,2,3,4,5,5-HEXACHLORO- (OR) HEXACHLOROCYCLOPENTADIENE

. Waste code: U131
. Waste name: ETHANE, HEXACHLORO- (OR) HEXACHLOROETHANE

. Waste code: U132
. Waste name: HEXACHLOROPHENE (OR) PHENOL, 2,2'-METHYLENEBIS[3,4,6-TRICHLORO-

. Waste code: U133
. Waste name: HYDRAZINE (R,T)

. Waste code: U134
. Waste name: HYDROFLUORIC ACID (C,T) (OR) HYDROGEN FLUORIDE (C,T)

. Waste code: U135
. Waste name: HYDROGEN SULFIDE (OR) HYDROGEN SULFIDE H2S

. Waste code: U136
. Waste name: ARSINIC ACID, DIMETHYL- (OR) CACODYLIC ACID

. Waste code: U137
. Waste name: INDENO[1,2,3-CD]PYRENE

. Waste code: U138
. Waste name: METHANE, IODO- (OR) METHYL IODIDE

. Waste code: U140
. Waste name: 1-PROPANOL, 2-METHYL- (I,T) (OR) ISOBUTYL ALCOHOL (I,T)

. Waste code: U141
. Waste name: 1,3-BENZODIOXOLE, 5-(1-PROPENYL)- (OR) ISOSAFROLE

. Waste code: U142
. Waste name: 1,3,4-METHENO-2H-CYCLOBUTA[CD]PENTALEN-2-ONE, 1,1A,3,3A,4,5,5,5A,5B,6-DECACHLOROOCTAHYDRO- (OR) KEPONE

. Waste code: U143
. Waste name: 2-BUTENOIC ACID, 2-METHYL-, 7-[[2,3-DIHYDROXY-2-(1-METHOXYETHYL)-3-METHYL-1-OXOBUTOXY]METHYL]-2,3,5,7A-TETRAHYDRO-1H-PYRROLIZIN-1-YL ESTER, [1S-[1ALPHA(Z), 7(2S*,3R*), 7AALPHA]]- (OR) LASIOCARPINE

. Waste code: U144
. Waste name: ACETIC ACID, LEAD(2+) SALT (OR) LEAD ACETATE

. Waste code: U145
. Waste name: LEAD PHOSPHATE (OR) PHOSPHORIC ACID, LEAD(2+) SALT (2:3)

LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER (Continued) **1004508006**

. Waste code: U146
. Waste name: LEAD SUBACETATE (OR) LEAD, BIS(ACETATO-O)TETRAHYDROXYTRI-

. Waste code: U147
. Waste name: 2,5-FURANDIONE (OR) MALEIC ANHYDRIDE

. Waste code: U148
. Waste name: 3,6-PYRIDAZINEDIONE, 1,2-DIHYDRO- (OR) MALEIC HYDRAZIDE

. Waste code: U149
. Waste name: MALONONITRILE (OR) PROPANEDINITRILE

. Waste code: U150
. Waste name: L-PHENYLALANINE, 4-[BIS(2-CHLOROETHYL)AMINO]- (OR) MELPHALAN

. Waste code: U151
. Waste name: MERCURY

. Waste code: U152
. Waste name: 2-PROPENENITRILE, 2-METHYL- (I,T) (OR) METHACRYLONITRILE (I,T)

. Waste code: U153
. Waste name: METHANETHIOL (I,T) (OR) THIOMETHANOL (I,T)

. Waste code: U154
. Waste name: METHANOL (I) (OR) METHYL ALCOHOL (I)

. Waste code: U155
. Waste name: 1,2-ETHANEDIAMINE, N,N-DIMETHYL-N'-2-PYRIDINYL-N'-(2-THIENYLMETHYL)-
(OR) METHAPYRILENE

. Waste code: U156
. Waste name: CARBONOCHLORIDIC ACID, METHYL ESTER, (I,T) (OR) METHYL CHLOROCARBONATE
(I,T)

. Waste code: U157
. Waste name: 3-METHYLCHOLANTHRENE (OR) BENZ[J]ACEANTHRYLENE, 1,2-DIHYDRO-3-METHYL-

. Waste code: U158
. Waste name: 4,4'-METHYLENEBIS(2-CHLOROANILINE) (OR) BENZENAMINE,
4,4'-METHYLENEBIS[2-CHLORO-

. Waste code: U159
. Waste name: 2-BUTANONE (I,T) (OR) METHYL ETHYL KETONE (MEK) (I,T)

. Waste code: U160
. Waste name: 2-BUTANONE, PEROXIDE (R,T) (OR) METHYL ETHYL KETONE PEROXIDE (R,T)

. Waste code: U161
. Waste name: 4-METHYL-2-PENTANONE (I) (OR) METHYL ISOBUTYL KETONE (I) (OR)
PENTANOL, 4-METHYL-

. Waste code: U162
. Waste name: 2-PROPENOIC ACID, 2-METHYL-, METHYL ESTER (I,T) (OR) METHYL
METHACRYLATE (I,T)

. Waste code: U163

LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER (Continued) **1004508006**

. Waste name: GUANIDINE, N-METHYL-N'-NITRO-N-NITROSO- (OR) MNNG

. Waste code: U164
. Waste name: 4(1H)-PYRIMIDINONE, 2,3-DIHYDRO-6-METHYL-2-THIOXO- (OR) METHYLTHIOURACIL

. Waste code: U165
. Waste name: NAPHTHALENE

. Waste code: U166
. Waste name: 1,4-NAPHTHALENEDIONE (OR) 1,4-NAPHTHOQUINONE

. Waste code: U167
. Waste name: 1-NAPTHALENAMINE (OR) ALPHA-NAPHTHYLAMINE

. Waste code: U168
. Waste name: 2-NAPTHALENAMINE (OR) BETA-NAPHTHYLAMINE

. Waste code: U169
. Waste name: BENZENE, NITRO- (OR) NITROBENZENE (I,T)

. Waste code: U170
. Waste name: P-NITROPHENOL (I,T) (OR) PHENOL, 4-NITRO-

. Waste code: U171
. Waste name: 2-NITROPROPANE (I,T) (OR) PROPANE, 2-NITRO- (I,T)

. Waste code: U172
. Waste name: 1-BUTANAMINE, N-BUTYL-N-NITROSO- (OR) N-NITROSODI-N-BUTYLAMINE

. Waste code: U173
. Waste name: ETHANOL, 2,2'-(NITROSOIMINO)BIS- (OR) N-NITROSODIETHANOLAMINE

. Waste code: U174
. Waste name: ETHANAMINE, N-ETHYL-N-NITROSO- (OR) N-NITROSODIETHYLAMINE

. Waste code: U176
. Waste name: N-NITROSO-N-ETHYLUREA (OR) UREA, N-ETHYL-N-NITROSO-

. Waste code: U177
. Waste name: N-NITROSO-N-METHYLUREA (OR) UREA, N-METHYL-N-NITROSO-

. Waste code: U178
. Waste name: CARBAMIC ACID, METHYLNITROSO-, ETHYL ESTER (OR) N-NITROSO-N-METHYLURETHANE

. Waste code: U179
. Waste name: N-NITROSOPIPERIDINE (OR) PIPERIDINE, 1-NITROSO-

. Waste code: U180
. Waste name: N-NITROSOPYRROLIDINE (OR) PYRROLIDINE, 1-NITROSO-

. Waste code: U181
. Waste name: 5-NITRO-O-TOLUIDINE (OR) BENZENAMINE, 2-METHYL-5-NITRO

. Waste code: U182
. Waste name: 1,3,5-TRIOXANE, 2,4,6-TRIMETHYL- (OR) PARALDEHYDE

LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER (Continued) **1004508006**

. Waste code: U183
. Waste name: BENZENE, PENTACHLORO- (OR) PENTACHLOROBENZENE

. Waste code: U184
. Waste name: ETHANE, PENTACHLORO- (OR) PENTACHLOROETHANE

. Waste code: U185
. Waste name: BENZENE, PENTACHLORONITRO- (OR) PENTACHLORONITROBENZENE (PCNB)

. Waste code: U186
. Waste name: 1,3-PENTADIENE (I) (OR) 1-METHYLBUTADIENE (I)

. Waste code: U187
. Waste name: ACETAMIDE, N-(4-ETHOXYPHENYL)- (OR) PHENACETIN

. Waste code: U188
. Waste name: PHENOL

. Waste code: U189
. Waste name: PHOSPHORUS SULFIDE (R) (OR) SULFUR PHOSPHIDE (R)

. Waste code: U190
. Waste name: 1,3-ISOBENZOFURANDIONE (OR) PHTHALIC ANHYDRIDE

. Waste code: U191
. Waste name: 2-PICOLINE (OR) PYRIDINE, 2-METHYL-

. Waste code: U192
. Waste name: BENZAMIDE, 3,5-DICHLORO-N-(1,1-DIMETHYL-2-PROPYNYL)- (OR) PRONAMIDE

. Waste code: U193
. Waste name: 1,2-OXATHIOLANE, 2,2-DIOXIDE (OR) 1,3-PROPANE SULTONE

. Waste code: U194
. Waste name: 1-PROPANAMINE (I,T) (OR) N-PROPYLAMINE (I,T)

. Waste code: U196
. Waste name: PYRIDINE

. Waste code: U197
. Waste name: 2,5-CYCLOHEXADIENE-1,4-DIONE (OR) P-BENZOQUINONE

. Waste code: U200
. Waste name: RESERPINE (OR) YOHIMBAN-16-CARBOXYLIC ACID, 11,17-DIMETHOXY-18-[(3,4,5-TRIMETHOXYBENZOYL)OXY]-, METHYL ESTER, (3BETA, 16BETA, 17ALPHA, 18BETA, 20ALPHA)-

. Waste code: U201
. Waste name: 1,3-BENZENEDIOL (OR) RESORCINOL

. Waste code: U202
. Waste name: 1,2-BENZISOTHIAZOL-3(2H)-ONE, 1,1-DIOXIDE, & SALTS

. Waste code: U203
. Waste name: 1,3-BENZODIOXOLE, 5-(2-PROPENYL)- (OR) SAFROLE

. Waste code: U204

LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER (Continued) **1004508006**

. Waste name: SELENIOUS ACID (OR) SELENIUM DIOXIDE

. Waste code: U205
. Waste name: SELENIUM SULFIDE (OR) SELENIUM SULFIDE SES2 (R,T)

. Waste code: U206
. Waste name: D-GLUCOSE, 2-DEOXY-2-[[(METHYLNITROSOAMINO)-CARBONYL]AMINO]- (OR) GLUCOPYRANOSE, 2-DEOXY-2-(3-METHYL-3-NITROSOUREIDO)-,D- (OR) STREPTOZOTOCIN

. Waste code: U207
. Waste name: 1,2,4,5-TETRACHLOROBENZENE (OR) BENZENE, 1,2,4,5-TETRACHLORO-

. Waste code: U208
. Waste name: 1,1,1,2-TETRACHLOROETHANE (OR) ETHANE, 1,1,1,2-TETRACHLORO-

. Waste code: U209
. Waste name: 1,1,2,2-TETRACHLOROETHANE (OR) ETHANE, 1,1,2,2-TETRACHLORO-

. Waste code: U210
. Waste name: ETHENE, TETRACHLORO- (OR) TETRACHLOROETHYLENE

. Waste code: U211
. Waste name: CARBON TETRACHLORIDE (OR) METHANE, TETRACHLORO-

. Waste code: U213
. Waste name: FURAN, TETRAHYDRO-(I) (OR) TETRAHYDROFURAN (I)

. Waste code: U214
. Waste name: ACETIC ACID, THALLIUM(1+) SALT (OR) THALLIUM(I) ACETATE

. Waste code: U215
. Waste name: CARBONIC ACID, DITHALLIUM(1+) SALT (OR) THALLIUM(I) CARBONATE

. Waste code: U216
. Waste name: THALLIUM CHLORIDE TLCL (OR) THALLIUM(I) CHLORIDE

. Waste code: U217
. Waste name: NITRIC ACID, THALLIUM(1+) SALT (OR) THALLIUM(I) NITRATE

. Waste code: U218
. Waste name: ETHANETHIOAMIDE (OR) THIOACETAMIDE

. Waste code: U219
. Waste name: THIOUREA

. Waste code: U220
. Waste name: BENZENE, METHYL- (OR) TOLUENE

. Waste code: U221
. Waste name: BENZENEDIAMINE, AR-METHYL- (OR) TOLUENEDIAMINE

. Waste code: U222
. Waste name: BENZENAMINE, 2-METHYL-, HYDROCHLORIDE (OR) O-TOLUIDINE HYDROCHLORIDE

. Waste code: U223
. Waste name: BENZENE, 1,3-DIISOCYANATOMETHYL- (R,T) (OR) TOLUENE DIISOCYANATE (R,T)

LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER (Continued) **1004508006**

. Waste code: U225
. Waste name: BROMOFORM (OR) METHANE, TRIBROMO-

. Waste code: U226
. Waste name: ETHANE, 1,1,1-TRICHLORO- (OR) METHYL CHLOROFORM

. Waste code: U227
. Waste name: 1,1,2-TRICHLOROETHANE (OR) ETHANE, 1,1,2-TRICHLORO-

. Waste code: U228
. Waste name: ETHENE, TRICHLORO- (OR) TRICHLOROETHYLENE

. Waste code: U234
. Waste name: 1,3,5-TRINITROBENZENE (R,T) (OR) BENZENE, 1,3,5-TRINITRO-

. Waste code: U235
. Waste name: 1-PROPANOL, 2,3-DIBROMO-, PHOSPHATE (3:1) (OR) TRIS(2,3,-DIBROMOPROPYL) PHOSPHATE

. Waste code: U236
. Waste name: 2,7-NAPHTHALENEDISULFONIC ACID,3,3'-[(3,3'-DIMETHYL[1,1'-BIPHENYL]-4,4'-DIYL)BIS(AZO)BIS[5-AMINO -4-HYDROXY]-, TETRASODIUM SALT (OR) TRYPAN BLUE

. Waste code: U237
. Waste name: 2,4-(1H,3H)-PYRIMIDINEDIONE, 5-[BIS(2-CHLOROETHYL)AMINO]- (OR) URACIL MUSTARD

. Waste code: U238
. Waste name: CARBAMIC ACID, ETHYL ESTER (OR) ETHYL CARBAMATE (URETHANE)

. Waste code: U239
. Waste name: BENZENE, DIMETHYL- (I,T) (OR) XYLENE (I)

. Waste code: U240
. Waste name: 2,4-D, SALTS & ESTERS (OR) ACETIC ACID, (2,4-DICHLOROPHENOXY)-, SALTS & ESTERS (OR) DICHLOROPHENOXYACETIC ACID 2,4-D

. Waste code: U243
. Waste name: 1-PROPENE, 1,1,2,3,3,3-HEXACHLORO- (OR) HEXACHLOROPROPENE

. Waste code: U244
. Waste name: THIOPEROXYDICARBONIC DIAMIDE [(H2N)C(S)]2S2, TETRAMETHYL- (OR) THIRAM

. Waste code: U246
. Waste name: CYANOGEN BROMIDE (CN)BR

. Waste code: U247
. Waste name: BENZENE, 1,1'-(2,2,2-TRICHLOROETHYLIDENE)BIS[4-METHOXY- (OR) METHOXYCHLOR

. Waste code: U248
. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYL-BUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS OF 0.3% OR LESS (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS OF 0.3% OR LESS

. Waste code: U249

LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER (Continued) **1004508006**

. Waste name: ZINC PHOSPHIDE ZN3P2, WHEN PRESENT AT CONCENTRATIONS OF 10% OR LESS

. Waste code: U271
. Waste name: BENOMYL (OR) CARBAMIC ACID, [1-[(BUTYLAMINO)CARBONYL]-1H-BENZIMIDAZOL-2-YL]-, METHYL ESTER

. Waste code: U278
. Waste name: BENDIOCARB (OR) 1,3-BENZODIOXOL-4-OL, 2,2-DIMETHYL-, METHYL CARBAMATE

. Waste code: U279
. Waste name: CARBARYL (OR) 1-NAPHTHALENOL, METHYLCARBAMATE

. Waste code: U280
. Waste name: BARBAN (OR) CARBAMIC ACID, (3-CHLOROPHENYL)-, 4-CHLORO-2-BUTYNYL ESTER

. Waste code: U328
. Waste name: BENZENAMINE, 2-METHYL- (OR) O-TOLUIDINE

. Waste code: U353
. Waste name: BENZENAMINE, 4-METHYL- (OR) P-TOLUIDINE

. Waste code: U359
. Waste name: ETHANOL, 2-ETHOXY- (OR) ETHYLENE GLYCOL MONOETHYL ETHER

. Waste code: U364
. Waste name: BENDIOCARB PHENOL (OR) 1,3-BENZODIOXOL-4-OL, 2,2-DIMETHYL-

. Waste code: U367
. Waste name: 7-BENZOFURANOL, 2,3-DIHYDRO-2,2-DIMETHYL- (OR) CARBOFURAN PHENOL

. Waste code: U372
. Waste name: CARBAMIC ACID, 1H-BENZIMIDAZOL-2-YL, METHYL ESTER (OR) CARBENDAZIM

. Waste code: U373
. Waste name: CARBAMIC ACID, PHENYL-, 1-METHYLETHYL ESTER (OR) PROPHAM

. Waste code: U378
. Waste name: CARBAMODITHIOIC ACID, (HYDROXYMETHYL) METHYL-, MONOPOTASSIUM SALT (OR) POTASSIUM N-HYDROXYMETHYL- N-METHYLDI-THIOCARBAMATE

. Waste code: U387
. Waste name: CARBAMOTHIOIC ACID, DIPROPYL-, S-(PHENYLMETHYL) ESTER (OR) PROSULFOCARB

LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER (Continued) **1004508006**

. Waste code: U389
. Waste name: CARBAMOTHIOIC ACID, BIS(1-METHYLETHYL)-, S-(2,3,3-TRICHLORO-2-PROPENYL) ESTER (OR) TRIALLATE

. Waste code: U394
. Waste name: A2213 (OR) ETHANIMIDOTHIOIC ACID, 2-(DIMETHYLAMINO)-N-HYDROXY-2-OXO-, METHYL ESTER

. Waste code: U395
. Waste name: DIETHYLENE GLYCOL, DICARBAMATE (OR) ETHANOL, 2,2'-OXYBIS-, DICARBAMATE

. Waste code: U404
. Waste name: ETHANAMINE, N,N-DIETHYL- (OR) TRIETHYLAMINE

. Waste code: U409
. Waste name: CARBAMIC ACID, [1,2-PHENYLENEBIS (IMINOCARBONOTHIOYL)]BIS-, DIMETHYL ESTER (OR) THIOPHANATE-METHYL

. Waste code: U410
. Waste name: ETHANIMIDOTHIOIC ACID, N,N'-[THIOBIS[(METHYLIMINO)CARBONYLOXY]]BIS-, DIMETHYL ESTER (OR) THIODICARB

. Waste code: U411
. Waste name: PHENOL, 2-(1-METHYLETHOXY)-, METHYLCARBAMATE (OR) PROPOXUR

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: State Statute or Regulation
Date violation determined: 2017-09-27 00:00:00.0
Date achieved compliance: 2017-11-10 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 2017-10-09 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 2017-09-27 00:00:00.0
Date achieved compliance: 2017-11-10 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL

LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER (Continued) **1004508006**

Enforcement action date: 2017-10-09 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 2017-09-27 00:00:00.0
Date achieved compliance: 2017-11-10 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 2017-10-09 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: State Statute or Regulation
Date violation determined: 2011-11-30 00:00:00.0
Date achieved compliance: 2012-01-30 00:00:00.0
Violation lead agency: State
Enforcement action: NOTICE OF DETERMINATION
Enforcement action date: 2011-11-30 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: State Statute or Regulation
Date violation determined: 2011-11-30 00:00:00.0
Date achieved compliance: 2012-01-30 00:00:00.0
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 2012-03-29 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 2011-11-30 00:00:00.0
Date achieved compliance: 2011-11-30 00:00:00.0
Violation lead agency: State
Enforcement action: ADMINISTRATIVE CONFERENCE (ENFORCEMENT CONFERENCE HELD WITH FACILITY)
Enforcement action date: 2012-03-15 00:00:00.0

LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER (Continued) **1004508006**

Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 2011-11-30 00:00:00.0
Date achieved compliance: 2011-11-30 00:00:00.0
Violation lead agency: State
Enforcement action: NOTICE OF DETERMINATION
Enforcement action date: 2011-11-30 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 2011-11-30 00:00:00.0
Date achieved compliance: 2012-01-30 00:00:00.0
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 2012-03-29 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 2011-11-30 00:00:00.0
Date achieved compliance: 2012-01-30 00:00:00.0
Violation lead agency: State
Enforcement action: NOTICE OF DETERMINATION
Enforcement action date: 2011-11-30 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 2011-11-30 00:00:00.0
Date achieved compliance: 2011-11-30 00:00:00.0
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 2012-03-29 00:00:00.0
Enf. disposition status: Not reported

LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER (Continued) **1004508006**

Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 2011-11-30 00:00:00.0
Date achieved compliance: 2012-01-30 00:00:00.0
Violation lead agency: State
Enforcement action: ADMINISTRATIVE CONFERENCE (ENFORCEMENT CONFERENCE HELD WITH FACILITY)
Enforcement action date: 2012-03-15 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: State Statute or Regulation
Date violation determined: 2011-11-30 00:00:00.0
Date achieved compliance: 2012-01-30 00:00:00.0
Violation lead agency: State
Enforcement action: ADMINISTRATIVE CONFERENCE (ENFORCEMENT CONFERENCE HELD WITH FACILITY)
Enforcement action date: 2012-03-15 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Listing - General
Date violation determined: 2009-04-15 00:00:00.0
Date achieved compliance: 2009-06-08 00:00:00.0
Violation lead agency: State
Enforcement action: NOTICE OF DETERMINATION
Enforcement action date: 2009-05-05 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 32:030
Area of violation: Generators - Pre-transport
Date violation determined: 2005-11-02 00:00:00.0
Date achieved compliance: 2005-12-30 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 2005-11-02 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported

LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER (Continued) **1004508006**

Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 40 CFR 273.15(c) (1)
Area of violation: Generators - General
Date violation determined: 2005-11-02 00:00:00.0
Date achieved compliance: 2014-12-30 00:00:00.0
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 43:020 Sec 5&6
Area of violation: Generators - General
Date violation determined: 2005-11-02 00:00:00.0
Date achieved compliance: 2005-12-30 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 2005-11-02 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 35:030 Sec 6
Area of violation: Generators - Pre-transport
Date violation determined: 2005-11-02 00:00:00.0
Date achieved compliance: 2005-12-30 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 2005-11-02 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 40 CFR 262.34(a)(2)
Area of violation: Generators - Pre-transport
Date violation determined: 2005-11-02 00:00:00.0
Date achieved compliance: 2014-12-30 00:00:00.0
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported

LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER (Continued) **1004508006**

Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 32:030
Area of violation: Generators - Pre-transport
Date violation determined: 2005-11-02 00:00:00.0
Date achieved compliance: 2005-12-15 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 2005-11-02 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 40 CFR 273.14(e)
Area of violation: Generators - General
Date violation determined: 2005-11-02 00:00:00.0
Date achieved compliance: 2014-12-30 00:00:00.0
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 40 CFR 279.2(c) (1)
Area of violation: Used Oil - Applicability
Date violation determined: 2005-11-02 00:00:00.0
Date achieved compliance: 2014-12-15 00:00:00.0
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 32:030 Sec 5(3)(a)
Area of violation: Generators - Pre-transport
Date violation determined: 2005-07-13 00:00:00.0
Date achieved compliance: 2005-10-05 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 2005-07-13 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported

LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER (Continued) **1004508006**

Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 32:010 Sec 3
Area of violation: Generators - Records/Reporting
Date violation determined: 2005-07-13 00:00:00.0
Date achieved compliance: 2005-11-02 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 2005-07-13 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 32:010 Sec 2
Area of violation: Generators - Records/Reporting
Date violation determined: 2005-07-13 00:00:00.0
Date achieved compliance: 2005-11-02 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 2005-07-13 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 35:030 Sec 4
Area of violation: Generators - Pre-transport
Date violation determined: 2005-07-13 00:00:00.0
Date achieved compliance: 2005-10-05 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 2005-07-13 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 32:010 Sec 2
Area of violation: Generators - Records/Reporting
Date violation determined: 2005-07-13 00:00:00.0
Date achieved compliance: 2005-11-02 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 2005-11-02 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported

LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER (Continued) **1004508006**

Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 2005-07-13 00:00:00.0
Date achieved compliance: 2005-10-05 00:00:00.0
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 32:040 Sec 1 & 35:180
Area of violation: Generators - Pre-transport
Date violation determined: 2005-07-13 00:00:00.0
Date achieved compliance: 2005-10-05 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 2005-07-13 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD IS-Contingency Plan and Emergency Procedures
Date violation determined: 2005-07-13 00:00:00.0
Date achieved compliance: 2005-10-05 00:00:00.0
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD IS-General Facility Standards
Date violation determined: 2005-07-13 00:00:00.0
Date achieved compliance: 2005-10-05 00:00:00.0
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER (Continued) **1004508006**

Regulation violated: SR - 32:030 Sec 5(4)(d)
Area of violation: Generators - Pre-transport
Date violation determined: 2005-07-13 00:00:00.0
Date achieved compliance: 2005-10-05 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 2005-07-13 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 44:020 Sec 3
Area of violation: Generators - General
Date violation determined: 2005-07-13 00:00:00.0
Date achieved compliance: 2005-12-15 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 2005-07-13 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 2005-07-13 00:00:00.0
Date achieved compliance: 2005-10-05 00:00:00.0
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 38:010 Sec 4
Area of violation: Generators - Pre-transport
Date violation determined: 2005-07-13 00:00:00.0
Date achieved compliance: 2005-10-05 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 2005-07-13 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 32:030 Sec 5(4)(e)

LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER (Continued) **1004508006**

Area of violation: Generators - Pre-transport
Date violation determined: 2005-07-13 00:00:00.0
Date achieved compliance: 2005-10-05 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 2005-07-13 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 44:020 Sec 3
Area of violation: Generators - General
Date violation determined: 2005-07-13 00:00:00.0
Date achieved compliance: 2005-12-15 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 2005-11-02 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 32:030 5(1)(b)
Area of violation: Generators - Pre-transport
Date violation determined: 2005-07-13 00:00:00.0
Date achieved compliance: 2005-10-05 00:00:00.0
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 2005-07-13 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 2019-05-15 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 2017-11-17 00:00:00.0
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: Generators - General
Date achieved compliance: 2017-11-10 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2017-11-17 00:00:00.0
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: State Statute or Regulation

LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER (Continued) **1004508006**

Date achieved compliance: 2017-11-10 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2017-11-17 00:00:00.0
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: Generators - Pre-transport
Date achieved compliance: 2017-11-10 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2017-09-27 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: State Statute or Regulation
Date achieved compliance: 2017-11-10 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2017-09-27 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 2017-11-10 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2017-09-27 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 2017-11-10 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2014-10-08 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2013-05-14 00:00:00.0
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2012-07-26 00:00:00.0
Evaluation: NOT A SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2012-04-12 00:00:00.0
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: Generators - General
Date achieved compliance: 2012-01-30 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2012-04-12 00:00:00.0
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: State Statute or Regulation
Date achieved compliance: 2012-01-30 00:00:00.0
Evaluation lead agency: State

LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER (Continued) **1004508006**

Evaluation date: 2012-04-12 00:00:00.0
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: Generators - Pre-transport
Date achieved compliance: 2011-11-30 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2011-11-30 00:00:00.0
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Generators - General
Date achieved compliance: 2012-01-30 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2011-11-30 00:00:00.0
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: State Statute or Regulation
Date achieved compliance: 2012-01-30 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2011-11-30 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: State Statute or Regulation
Date achieved compliance: 2012-01-30 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2011-11-30 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 2011-11-30 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2011-11-30 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 2012-01-30 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2011-11-30 00:00:00.0
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Generators - Pre-transport
Date achieved compliance: 2011-11-30 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2009-06-12 00:00:00.0
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: Listing - General
Date achieved compliance: 2009-06-08 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2009-04-15 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Listing - General
Date achieved compliance: 2009-06-08 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2008-04-21 00:00:00.0
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Not reported

LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER (Continued) **1004508006**

Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 2006-01-05 00:00:00.0
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: Generators - General
Date achieved compliance: 2005-12-15 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2006-01-05 00:00:00.0
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: Generators - Pre-transport
Date achieved compliance: 2005-12-15 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2006-01-05 00:00:00.0
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: Generators - Pre-transport
Date achieved compliance: 2005-12-30 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2006-01-05 00:00:00.0
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: Generators - General
Date achieved compliance: 2005-12-30 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2005-11-02 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 2005-12-15 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2005-11-02 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Used Oil - Applicability
Date achieved compliance: 2014-12-15 00:00:00.0
Evaluation lead agency: EPA

Evaluation date: 2005-11-02 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 2005-10-05 00:00:00.0
Evaluation lead agency: EPA

Evaluation date: 2005-11-02 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 2005-12-30 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2005-11-02 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 2014-12-30 00:00:00.0
Evaluation lead agency: EPA

LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER (Continued) **1004508006**

Evaluation date: 2005-11-02 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 2005-12-30 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2005-11-02 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 2014-12-30 00:00:00.0
Evaluation lead agency: EPA

Evaluation date: 2005-11-02 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 2005-12-15 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2005-10-05 00:00:00.0
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: Generators - Records/Reporting
Date achieved compliance: 2005-11-02 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2005-10-05 00:00:00.0
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: Generators - General
Date achieved compliance: 2005-12-15 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2005-10-05 00:00:00.0
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: Generators - Pre-transport
Date achieved compliance: 2005-10-05 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2005-07-13 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 2005-10-05 00:00:00.0
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 2005-07-13 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 2005-12-15 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2005-07-13 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Records/Reporting
Date achieved compliance: 2005-11-02 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2005-07-13 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD IS-Contingency Plan and Emergency Procedures

LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER (Continued) **1004508006**

Date achieved compliance: 2005-10-05 00:00:00.0
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 2005-07-13 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 2005-10-05 00:00:00.0
Evaluation lead agency: State

Evaluation date: 2005-07-13 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 2005-10-05 00:00:00.0
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 2005-07-13 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD IS-General Facility Standards
Date achieved compliance: 2005-10-05 00:00:00.0
Evaluation lead agency: EPA Contractor/Grantee

DOCKET HWC:
Agency: VETERANS AFFAIRS
Facility ID: KY0360090005
Reporting Mechanism: RCRA 3010
Status: On MDL

NY MANIFEST:
Name: VA MEDICAL CENTER
Address: 800 ZORN AVENUE
City,State,Zip: LOUISVILLE, KY 40202
Country: USA
EPA ID: KY0360090005
Facility Status: Not reported
Location Address 1: 800 ZORN AVE
Code: BP
Location Address 2: Not reported
Total Tanks: Not reported
Location City: LOUISVILLE
Location State: KY
Location Zip: 40206
Location Zip 4: 1499

NY MANIFEST:
EPAID: KY0360090005
Mailing Name: VA MEDICAL CENTER
Mailing Contact: JIM NICULA
Mailing Address 1: 9730 MARTIN LUTHER KING JR HWY
Mailing Address 2: Not reported
Mailing City: LANHAM
Mailing State: MD
Mailing Zip: 20706
Mailing Zip 4: Not reported
Mailing Country: USA
Mailing Phone: 5022445393

NY MANIFEST:

LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER (Continued) **1004508006**

Document ID:	NYB9139887
Manifest Status:	Not reported
seq:	01
Year:	2006
Trans1 State ID:	NJD080631369
Trans2 State ID:	NYD980769947
Generator Ship Date:	03/13/2006
Trans1 Recv Date:	03/13/2006
Trans2 Recv Date:	03/15/2006
TSD Site Recv Date:	04/21/2006
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	KY0360090005
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	1246B7NY
TSDF ID 1:	NYD049836679
TSDF ID 2:	Not reported
Manifest Tracking Number:	Not reported
Import Indicator:	Not reported
Export Indicator:	Not reported
Discr Quantity Indicator:	Not reported
Discr Type Indicator:	Not reported
Discr Residue Indicator:	Not reported
Discr Partial Reject Indicator:	Not reported
Discr Full Reject Indicator:	Not reported
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	Not reported
Waste Code:	D007 - CHROMIUM 5.0 MG/L TCLP
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00068
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	01.00

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

NJ MANIFEST:

EPA Id:	KY0360090005
Mail Address:	ZORN AVENUE
Mail City/State/Zip:	LOUISVILLE, KY 40202
Facility Phone:	Not reported
Emergency Phone:	Not reported
Contact:	DAVID CHRISMAN
Comments:	Not reported
SIC Code:	Not reported
County:	KY111
Municipal:	Not reported

LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER (Continued) **1004508006**

Previous EPA Id:	Not reported
Gen Flag:	Not reported
Trans Flag:	Not reported
TSDF Flag:	Not reported
Name Change:	Not reported
Date Change:	Not reported

Manifest:

Manifest Number:	000184382VES
EPA ID:	KY0360090005
Date Shipped:	06/02/2009
TSDF EPA ID:	NJD980536593
Transporter EPA ID:	NJD080631369
Transporter 2 EPA ID:	NYD980769947
Transporter 3 EPA ID:	NJD080631369
Transporter 4 EPA ID:	NJD054126164
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 9 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	06/02/2009
Date Trans2 Transported Waste:	06/10/2009
Date Trans3 Transported Waste:	06/10/2009
Date Trans4 Transported Waste:	06/11/2009
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	06/18/2009
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	LOUISVILLE, KY 40202
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	Not reported
Waste Code:	F003
Hand Code:	H141
Quantity:	300 P
Manifest Year:	Not reported
Waste Code:	D001
Hand Code:	H141

LOUISVILLE VETERANS AFFAIRS MEDICAL CENTER (Continued) **1004508006**

Quantity: 50 P

Manifest Year: Not reported
Waste Code: F002
Hand Code: H141
Quantity: 75 P

W89 **VETERANS HOSPITAL** **KY AST** **A100450959**
SSE **800 ZORN AVE BLDG 8** **N/A**
1/8-1/4 **LOUISVILLE, KY 40206**
0.176 mi.
929 ft. **Site 2 of 4 in cluster W**

Actual: AST:
513 ft.
Permit Number: PAG0004246
Focus Map: Name: VETERANS HOSPITAL
17 Address: 800 ZORN AVE BLDG 8
City,State,Zip: LOUISVILLE, KY 40206-1433
Permit Type: Commercial
Category: Other
Permit Status: Completed
Issue Date: 01/03/2012
Subdivision: Not reported
Last Inspection: Not reported
Installer: CL McBride Co Inc

W90 **VA HOSPITAL** **KY SHWS** **U001442598**
SSE **800 ZORN AVE** **KY UST** **N/A**
1/8-1/4 **LOUISVILLE, KY 40206**
0.176 mi.
929 ft. **Site 3 of 4 in cluster W**

Actual: SHWS:
513 ft.
Name: VA HOSPITAL
Focus Map: Address: 800 ZORN AVENUE
17 City,State,Zip: LOUISVILLE, KY 40202
Facility Id: 2250
Status: **Closed**
Description: (Closed: Restored 12-23-2009) VA Hospital Concrete Containment Unit
Closure Date: 12/23/2009
Longitude: -85.696480
Latitude: 38.270840
Subject Item County: Jefferson
Sub Item Longitude: -85.698284
Sub Item Latitude: 38.269661
Subject Item Address: 800 Zorn Ave
Subject Item Address2: Not reported
Subject Item City,St,Zip: Louisville, KY 40206
Regulatory Desc: State Superfund
Closure Option: Option C Restored
Side SG: Historical Ops

Name: VA HOSPITAL

VA HOSPITAL (Continued) **U001442598**

Address:	800 ZORN AVENUE
City,State,Zip:	LOUISVILLE, KY 40206
Facility Id:	2250
Status:	**Closed**
Description:	VETERAN'S HOSPITAL LOUIS. (Closed: Restored)
Closure Date:	02/06/1997
Longitude:	-85.696480
Latitude:	38.270840
Subject Item County:	Jefferson
Sub Item Longitude:	-85.697163
Sub Item Latitude:	38.269987
Subject Item Address:	800 Zorn Ave
Subject Item Address2:	Not reported
Subject Item City,St,Zip:	Louisville, KY 40206
Regulatory Desc:	Petroleum Cleanup
Closure Option:	Option C Restored
Side SG:	43333

UST:

Name:	VA HOSPITAL
Address:	800 ZORN AVE
City,State,Zip:	LOUISVILLE, KY 40206
Sequence Id:	992056
Facility ID:	2250
Owner Name:	VA Medical Center Engineering Service
Owner Address:	800 Zorn Ave
Owner Address2:	Not reported
Owner Address3:	Not reported
Owner City,St,Zip:	Louisville, KY 40206
Internal Document ID:	0
Latitude:	38.27084
Longitude:	-85.69648
Inert Material Code:	Not reported
Removed Date:	12/02/1996
Change in Service Date:	Not reported
Tank Pit Num:	Not reported
Tank Mfg Code:	Not reported
Tank Overfill Protection:	UNK
Last Tank Test Date:	Not reported
Relined Date:	Not reported
Lining Insp Date:	Not reported
Pipe Release Detection:	UNK
Pipe Rel Detect Suc Code:	UNK
Pipe Leak Detect Code:	NA
Last Contained Date:	Not reported
Pipe Mfg Code:	Not reported
Last Pipe Test Date:	Not reported
Last CP Test Date:	Not reported
Added To Flex Date:	Not reported
Added To Piping Date:	Not reported
Decode For Tstatus:	Removed Tank Verified
Decode For Inertmatcd:	Not reported
Decode For Tmatcode:	Single Wall Steel
Decode For Textcrprcd:	Unknown
Decode For Treldetcod:	None
Decode For Tintprotcd:	Unknown

VA HOSPITAL (Continued) **U001442598**

Decode For Tsplprevcd:	Unknown
Decode For Tovflprvcd:	Unknown
Decode For Pmatcode:	Single Wall Steel
Decode For Pextcoprcd:	Unknown
Decode For Ptypecode:	Unknown
Decode For Preldetcod:	Unknown
Decode For Preldetsuc:	Unknown
Decode For Plekdetcod:	Not Applicable
Decode For Tsubcd:	Gasoline
Decode For Tmancd:	Not reported
Decode For Pmancd:	Not reported
Subject Item ID:	1
Tank Status:	TRM
Installation Date:	01/01/1972
Closed In Place Date:	Not reported
Capacity in Gallons:	3000
Compartment Number:	1
Piping Installation Date:	Not reported
Added To Tank Date:	Not reported
Inert Material Code:	Not reported
Removed Date:	10/01/1986
Change in Service Date:	Not reported
Tank Pit Num:	Not reported
Tank Mfg Code:	Not reported
Tank Overfill Protection:	UNK
Last Tank Test Date:	Not reported
Relined Date:	Not reported
Lining Insp Date:	Not reported
Pipe Release Detection:	UNK
Pipe Rel Detect Suc Code:	UNK
Pipe Leak Detect Code:	NA
Last Contained Date:	Not reported
Pipe Mfg Code:	Not reported
Last Pipe Test Date:	Not reported
Last CP Test Date:	Not reported
Added To Flex Date:	Not reported
Added To Piping Date:	Not reported
Decode For Tstatus:	Removed Prior to 1988
Decode For Inertmatcd:	Not reported
Decode For Tmatcode:	Single Wall Steel
Decode For Textcrprcd:	Unknown
Decode For Treldetcod:	None
Decode For Tintprotcd:	Unknown
Decode For Tsplprevcd:	Unknown
Decode For Tovflprvcd:	Unknown
Decode For Pmatcode:	Single Wall Steel
Decode For Pextcoprcd:	Unknown
Decode For Ptypecode:	Unknown
Decode For Preldetcod:	Unknown
Decode For Preldetsuc:	Unknown
Decode For Plekdetcod:	Not Applicable
Decode For Tsubcd:	Diesel
Decode For Tmancd:	Not reported
Decode For Pmancd:	Not reported
Subject Item ID:	2
Tank Status:	TR8

VA HOSPITAL (Continued) **U001442598**

Installation Date:	01/01/1980
Closed In Place Date:	Not reported
Capacity in Gallons:	2000
Compartment Number:	1
Piping Installation Date:	Not reported
Added To Tank Date:	Not reported
Inert Material Code:	Not reported
Removed Date:	12/02/1996
Change in Service Date:	Not reported
Tank Pit Num:	Not reported
Tank Mfg Code:	Not reported
Tank Overfill Protection:	UNK
Last Tank Test Date:	Not reported
Relined Date:	Not reported
Lining Insp Date:	Not reported
Pipe Release Detection:	UNK
Pipe Rel Detect Suc Code:	UNK
Pipe Leak Detect Code:	NA
Last Contained Date:	Not reported
Pipe Mfg Code:	Not reported
Last Pipe Test Date:	Not reported
Last CP Test Date:	Not reported
Added To Flex Date:	Not reported
Added To Piping Date:	Not reported
Decode For Tstatus:	Removed Tank Verified
Decode For Inertmatcd:	Not reported
Decode For Tmatcode:	Single Wall Steel
Decode For Textcrprcd:	Unknown
Decode For Treldetcod:	None
Decode For Tintprotcd:	Unknown
Decode For Tsplprevcd:	Unknown
Decode For Tovflprvcd:	Unknown
Decode For Pmatcode:	Single Wall Steel
Decode For Pextcoprcd:	Unknown
Decode For Ptypecode:	Unknown
Decode For Preldetcod:	Unknown
Decode For Preldetsuc:	Unknown
Decode For Plekdetcod:	Not Applicable
Decode For Tsubcd:	Diesel
Decode For Tmancd:	Not reported
Decode For Pmancd:	Not reported
Subject Item ID:	3
Tank Status:	TRM
Installation Date:	01/01/1966
Closed In Place Date:	Not reported
Capacity in Gallons:	550
Compartment Number:	1
Piping Installation Date:	Not reported
Added To Tank Date:	Not reported
Inert Material Code:	Not reported
Removed Date:	03/13/2008
Change in Service Date:	Not reported
Tank Pit Num:	Not reported
Tank Mfg Code:	CON
Tank Overfill Protection:	ASD

VA HOSPITAL (Continued) **U001442598**

Last Tank Test Date:	Not reported
Relined Date:	Not reported
Lining Insp Date:	Not reported
Pipe Release Detection:	LTT
Pipe Rel Detect Suc Code:	ALT
Pipe Leak Detect Code:	NA
Last Contained Date:	Not reported
Pipe Mfg Code:	OPW
Last Pipe Test Date:	Not reported
Last CP Test Date:	Not reported
Added To Flex Date:	Not reported
Added To Piping Date:	03/13/2008
Decode For Tstatus:	Removed Tank Verified
Decode For Inertmatcd:	Not reported
Decode For Tmatcode:	Fiberglass Reinforced
Decode For Textcrprcd:	Not Applicable
Decode For Treldetcod:	Manual Tank Gauging
Decode For Tintprotcd:	Not Applicable
Decode For Tsplprevcd:	Single Wall Spill Bucket
Decode For Tovflprvcd:	Automatic Shutoff Device
Decode For Pmatcode:	Single Wall Steel
Decode For Pextcoprcd:	Coating Wrapping
Decode For Ptypecode:	Suction
Decode For Preldetcod:	Line Tightness Test
Decode For Preldetsuc:	Annual Rlease Testing (historic)
Decode For Plekdetcod:	Not Applicable
Decode For Tsubcd:	Diesel
Decode For Tmancd:	Containment Solutions, Inc.
Decode For Pmancd:	OPW Pices
Subject Item ID:	4
Tank Status:	TRM
Installation Date:	12/16/1986
Closed In Place Date:	Not reported
Capacity in Gallons:	2000
Compartment Number:	1
Piping Installation Date:	Not reported
Added To Tank Date:	03/13/2008
Inert Material Code:	Not reported
Removed Date:	Not reported
Change in Service Date:	Not reported
Tank Pit Num:	Not reported
Tank Mfg Code:	CON
Tank Overfill Protection:	Not reported
Last Tank Test Date:	01/31/2014
Relined Date:	Not reported
Lining Insp Date:	Not reported
Pipe Release Detection:	Not reported
Pipe Rel Detect Suc Code:	Not reported
Pipe Leak Detect Code:	Not reported
Last Contained Date:	Not reported
Pipe Mfg Code:	OPW
Last Pipe Test Date:	Not reported
Last CP Test Date:	Not reported
Added To Flex Date:	Not reported
Added To Piping Date:	Not reported
Decode For Tstatus:	Active

VA HOSPITAL (Continued) **U001442598**

Decode For Inertmatcd:	Not reported
Decode For Tmatcode:	Double Wall Fiberglass
Decode For Textcrprcd:	Not Applicable
Decode For Treldetcod:	Not reported
Decode For Tintprotcd:	Not Applicable
Decode For Tsplprevcd:	Single Wall Spill Bucket
Decode For Tovflprvcd:	Not reported
Decode For Pmatcode:	Flexible Wall
Decode For Pextcoprcd:	Not Applicable
Decode For Ptypecode:	Not reported
Decode For Preldetcod:	Not reported
Decode For Preldetsuc:	Not reported
Decode For Plekdetcod:	Not reported
Decode For Tsubcd:	Diesel
Decode For Tmancd:	Containment Solutions, Inc.
Decode For Pmancd:	OPW Pices
Subject Item ID:	5
Tank Status:	TAC
Installation Date:	05/15/2008
Closed In Place Date:	Not reported
Capacity in Gallons:	2500
Compartment Number:	1
Piping Installation Date:	Not reported
Added To Tank Date:	Not reported

W91 **VETERANS ADMINISTRATION** **KY AST** **A100447041**
SSE **800 ZORN AVE** **N/A**
1/8-1/4 **LOUISVILLE, KY 40206**
0.176 mi.
929 ft. **Site 4 of 4 in cluster W**

Actual: AST:
513 ft.

Permit Number:	PAG0000234
Name:	VETERANS ADMINISTRATION
Address:	800 ZORN AVE
City,State,Zip:	LOUISVILLE, KY 40206-1433
Permit Type:	Government
Category:	Other
Permit Status:	Cancelled
Issue Date:	10/25/1996
Subdivision:	Not reported
Last Inspection:	Not reported
Installer:	Chase Environmental Group

Focus Map:
17

---

92 **PRABLE PROPERTY** **KY UST** **U000807053**
NNW **4179 RIVER RD** **N/A**
1/8-1/4 **CONSTANCE, KY 41009**
0.204 mi.
1077 ft.

Actual: UST:
431 ft.

Name:	PRABLE PROPERTY
Address:	4179 RIVER RD
City,State,Zip:	CONSTANCE, KY 41009
Sequence Id:	2780008
Facility ID:	63700

Focus Map:
11

PRABLE PROPERTY (Continued) **U000807053**

Owner Name:	Unocal Corporation
Owner Address:	1650 E Gulf Rd
Owner Address2:	Not reported
Owner Address3:	Not reported
Owner City,St,Zip:	Schaumburg, IL 60196
Internal Document ID:	0
Latitude:	39.10515
Longitude:	-84.69836
Inert Material Code:	Not reported
Removed Date:	09/05/1990
Change in Service Date:	Not reported
Tank Pit Num:	Not reported
Tank Mfg Code:	Not reported
Tank Overfill Protection:	UNK
Last Tank Test Date:	Not reported
Relined Date:	Not reported
Lining Insp Date:	Not reported
Pipe Release Detection:	UNK
Pipe Rel Detect Suc Code:	UNK
Pipe Leak Detect Code:	NA
Last Contained Date:	Not reported
Pipe Mfg Code:	Not reported
Last Pipe Test Date:	Not reported
Last CP Test Date:	Not reported
Added To Flex Date:	Not reported
Added To Piping Date:	Not reported
Decode For Tstatus:	Removed Tank Verified
Decode For Inertmatcd:	Not reported
Decode For Tmatcode:	Single Wall Steel
Decode For Textcrprcd:	Unknown
Decode For Treldetcod:	None
Decode For Tintprotcd:	Unknown
Decode For Tsplprevcd:	Unknown
Decode For Tovflprvcd:	Unknown
Decode For Pmatcode:	Single Wall Steel
Decode For Pextcoprcd:	Unknown
Decode For Ptypecode:	Unknown
Decode For Preldetcod:	Unknown
Decode For Preldetsuc:	Unknown
Decode For Plekdetcod:	Not Applicable
Decode For Tsubcd:	Gasoline
Decode For Tmancd:	Not reported
Decode For Pmancd:	Not reported
Subject Item ID:	1
Tank Status:	TRM
Installation Date:	01/01/1970
Closed In Place Date:	Not reported
Capacity in Gallons:	550
Compartment Number:	1
Piping Installation Date:	Not reported
Added To Tank Date:	Not reported
Inert Material Code:	Not reported
Removed Date:	09/05/1990
Change in Service Date:	Not reported
Tank Pit Num:	Not reported

PRABLE PROPERTY (Continued) **U000807053**

Tank Mfg Code:	Not reported
Tank Overfill Protection:	UNK
Last Tank Test Date:	Not reported
Relined Date:	Not reported
Lining Insp Date:	Not reported
Pipe Release Detection:	UNK
Pipe Rel Detect Suc Code:	UNK
Pipe Leak Detect Code:	NA
Last Contained Date:	Not reported
Pipe Mfg Code:	Not reported
Last Pipe Test Date:	Not reported
Last CP Test Date:	Not reported
Added To Flex Date:	Not reported
Added To Piping Date:	Not reported
Decode For Tstatus:	Removed Tank Verified
Decode For Inertmatcd:	Not reported
Decode For Tmatcode:	Single Wall Steel
Decode For Textcrprcd:	Unknown
Decode For Treldetcod:	None
Decode For Tintprotcd:	Unknown
Decode For Tsplprevcd:	Unknown
Decode For Tovflprvcd:	Unknown
Decode For Pmatcode:	Single Wall Steel
Decode For Pextcoprcd:	Unknown
Decode For Ptypecode:	Unknown
Decode For Preldetcod:	Unknown
Decode For Preldetsuc:	Unknown
Decode For Plekdetcod:	Not Applicable
Decode For Tsubcd:	Gasoline
Decode For Tmancd:	Not reported
Decode For Pmancd:	Not reported
Subject Item ID:	2
Tank Status:	TRM
Installation Date:	01/01/1970
Closed In Place Date:	Not reported
Capacity in Gallons:	550
Compartment Number:	1
Piping Installation Date:	Not reported
Added To Tank Date:	Not reported
Inert Material Code:	Not reported
Removed Date:	09/05/1990
Change in Service Date:	Not reported
Tank Pit Num:	Not reported
Tank Mfg Code:	Not reported
Tank Overfill Protection:	UNK
Last Tank Test Date:	Not reported
Relined Date:	Not reported
Lining Insp Date:	Not reported
Pipe Release Detection:	UNK
Pipe Rel Detect Suc Code:	UNK
Pipe Leak Detect Code:	NA
Last Contained Date:	Not reported
Pipe Mfg Code:	Not reported
Last Pipe Test Date:	Not reported
Last CP Test Date:	Not reported
Added To Flex Date:	Not reported

PRABLE PROPERTY (Continued) **U000807053**

Added To Piping Date:	Not reported
Decode For Tstatus:	Removed Tank Verified
Decode For Inertmatcd:	Not reported
Decode For Tmatcode:	Single Wall Steel
Decode For Textcrprcd:	Unknown
Decode For Treldetcod:	None
Decode For Tintprotcd:	Unknown
Decode For Tsplprevcd:	Unknown
Decode For Tovflprvcd:	Unknown
Decode For Pmatcode:	Single Wall Steel
Decode For Pextcoprcd:	Unknown
Decode For Ptypecode:	Unknown
Decode For Preldetcod:	Unknown
Decode For Preldetsuc:	Unknown
Decode For Plekdetcod:	Not Applicable
Decode For Tsubcd:	Kerosene
Decode For Tmancd:	Not reported
Decode For Pmancd:	Not reported
Subject Item ID:	3
Tank Status:	TRM
Installation Date:	01/01/1901
Closed In Place Date:	Not reported
Capacity in Gallons:	550
Compartment Number:	1
Piping Installation Date:	Not reported
Added To Tank Date:	Not reported
Inert Material Code:	Not reported
Removed Date:	09/05/1990
Change in Service Date:	Not reported
Tank Pit Num:	Not reported
Tank Mfg Code:	Not reported
Tank Overfill Protection:	UNK
Last Tank Test Date:	Not reported
Relined Date:	Not reported
Lining Insp Date:	Not reported
Pipe Release Detection:	UNK
Pipe Rel Detect Suc Code:	UNK
Pipe Leak Detect Code:	NA
Last Contained Date:	Not reported
Pipe Mfg Code:	Not reported
Last Pipe Test Date:	Not reported
Last CP Test Date:	Not reported
Added To Flex Date:	Not reported
Added To Piping Date:	Not reported
Decode For Tstatus:	Removed Tank Verified
Decode For Inertmatcd:	Not reported
Decode For Tmatcode:	Single Wall Steel
Decode For Textcrprcd:	Unknown
Decode For Treldetcod:	None
Decode For Tintprotcd:	Unknown
Decode For Tsplprevcd:	Unknown
Decode For Tovflprvcd:	Unknown
Decode For Pmatcode:	Single Wall Steel
Decode For Pextcoprcd:	Unknown
Decode For Ptypecode:	Unknown
Decode For Preldetcod:	Unknown

PRABLE PROPERTY (Continued) **U000807053**

Decode For Preldetsuc:	Unknown
Decode For Plekdetcod:	Not Applicable
Decode For Tsubcd:	Gasoline
Decode For Tmancd:	Not reported
Decode For Pmancd:	Not reported
Subject Item ID:	4
Tank Status:	TRM
Installation Date:	01/01/1901
Closed In Place Date:	Not reported
Capacity in Gallons:	1000
Compartment Number:	1
Piping Installation Date:	Not reported
Added To Tank Date:	Not reported
Inert Material Code:	Not reported
Removed Date:	09/05/1990
Change in Service Date:	Not reported
Tank Pit Num:	Not reported
Tank Mfg Code:	Not reported
Tank Overfill Protection:	UNK
Last Tank Test Date:	Not reported
Relined Date:	Not reported
Lining Insp Date:	Not reported
Pipe Release Detection:	UNK
Pipe Rel Detect Suc Code:	UNK
Pipe Leak Detect Code:	NA
Last Contained Date:	Not reported
Pipe Mfg Code:	Not reported
Last Pipe Test Date:	Not reported
Last CP Test Date:	Not reported
Added To Flex Date:	Not reported
Added To Piping Date:	Not reported
Decode For Tstatus:	Removed Tank Verified
Decode For Inertmatcd:	Not reported
Decode For Tmatcode:	Single Wall Steel
Decode For Textcrprcd:	Unknown
Decode For Treldetcod:	None
Decode For Tintprotcd:	Unknown
Decode For Tsplprevcd:	Unknown
Decode For Tovflprvcd:	Unknown
Decode For Pmatcode:	Single Wall Steel
Decode For Pextcoprcd:	Unknown
Decode For Ptypecode:	Unknown
Decode For Preldetcod:	Unknown
Decode For Preldetsuc:	Unknown
Decode For Plekdetcod:	Not Applicable
Decode For Tsubcd:	Gasoline
Decode For Tmancd:	Not reported
Decode For Pmancd:	Not reported
Subject Item ID:	5
Tank Status:	TRM
Installation Date:	01/01/1901
Closed In Place Date:	Not reported
Capacity in Gallons:	2000
Compartment Number:	1
Piping Installation Date:	Not reported
Added To Tank Date:	Not reported

93
NNW
1/8-1/4
0.230 mi.
1214 ft.

FLOOD OF 1997
RIVER RD
LOUISVILLE, KY 40222

KY SHWS **S106884872**
N/A

Actual:
426 ft.

Focus Map:
12

SHWS:

Name:	FLOOD OF 1997
Address:	RIVER RD
City,State,Zip:	LOUISVILLE, KY 40222
Facility Id:	53144
Status:	**Closed**
Description:	FLOOD OF 1997 (Closed: No Action Necessary)
Closure Date:	02/03/1999
Longitude:	-85.672892
Latitude:	38.295056
Subject Item County:	Jefferson
Sub Item Longitude:	-85.672892
Sub Item Latitude:	38.295056
Subject Item Address:	River Rd
Subject Item Address2:	Not reported
Subject Item City,St,Zip:	Louisville, KY 40222
Regulatory Desc:	State Superfund
Closure Option:	Option A No Action Necessary
Side SG:	43734

94
SSE
1/8-1/4
0.240 mi.
1267 ft.

BED BATH AND BEYOND #390
4350 SUMMIT PLAZA DRIVE
LOUISVILLE, KY 40241

RCRA NonGen / NLR **1014953501**
KYR000055871

Actual:
673 ft.

Focus Map:
8

RCRA NonGen / NLR:

Date form received by agency:	2018-04-06 00:00:00.0
Facility name:	BED BATH AND BEYOND #390
Facility address:	4350 SUMMIT PLAZA DRIVE LOUISVILLE, KY 40241
EPA ID:	KYR000055871
Mailing address:	SAN FELIPE ST SUITE 1600 HOUSTON, TX 77056
Contact:	CHRIS BAKER
Contact address:	SAN FELIPE ST SUITE 1600 HOUSTON, TX 77056
Contact country:	US
Contact telephone:	713-625-7015
Contact email:	Not reported
EPA Region:	04
Land type:	Private
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	BED BATH AND BEYOND INCORPORATED
Owner/operator address:	Not reported Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported

BED BATH AND BEYOND #390 (Continued) **1014953501**

Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 2001-11-01 00:00:00.0
Owner/Op end date: Not reported

Owner/operator name: BED BATH AND BEYOND INCORPORATED
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 2001-11-01 00:00:00.0
Owner/Op end date: Not reported

Owner/operator name: BED BATH AND BEYOND INCORPORATED
Owner/operator address: LIBERTY AVE
UNION, NJ 07083
Owner/operator country: US
Owner/operator telephone: 908-688-0888
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 2001-11-01 00:00:00.0
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 2012-03-12 00:00:00.0
Site name: BED BATH AND BEYOND #390
Classification: Conditionally Exempt Small Quantity Generator

BED BATH AND BEYOND #390 (Continued) **1014953501**

Hazardous Waste Summary:

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D005
. Waste name: BARIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 2013-02-20 00:00:00.0
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

95
NNW
1/4-1/2
0.250 mi.
1321 ft.

MILLIE ANN JOHNSON PROPERTY
5119 DUNVEGAN ROAD
LOUISVILLE, KY 40222

KY SHWS **S106885603**
N/A

Actual:
592 ft.

Focus Map:
6

SHWS:
Name: MILLIE ANN JOHNSON PROPERTY
Address: 5119 DUNVEGAN ROAD
City,State,Zip: LOUISVILLE, KY 40222
Facility Id: 52948
Status: **Closed**
Description: MILLIE ANN JOHNSON PROPERTY (Closed: Restored)
Closure Date: 06/28/1996
Longitude: -85.630894
Latitude: 38.301629
Subject Item County: Jefferson
Sub Item Longitude: -85.631951
Sub Item Latitude: 38.301397
Subject Item Address: 5119 Dunvegan Rd
Subject Item Address2: Not reported
Subject Item City,St,Zip: Louisville, KY 40222
Regulatory Desc: Petroleum Cleanup
Closure Option: Option C Restored
Side SG: 41192

96
WSW
1/4-1/2
0.345 mi.
1822 ft.

SOUTH WIND MINING
2611 UPPER RIVER RD
LOUISVILLE, KY 40202

KY SWF/LF **S108083353**
KY NPDES **N/A**

Actual:
432 ft.

Focus Map:
16

LF:

Name:	MTR OF KENTUCKY LLC
Address:	2611 UPPER RIVER RD
City,State,Zip:	LOUISVILLE, KY 40206
Facility ID:	99938
Status:	Terminated
Permit Number:	05600247
SI ID:	Not reported
SI Designation:	Not reported
AI Name:	MTR of Kentucky LLC
Rel Entity ID:	Not reported
Facility Type:	Waste Tire Transporter
Latitude:	38.27769200
Longitude:	-85.70730200
Permittee city/state/zip:	LOUISVILLE, KY 40206
Permit expired date:	05/13/2018
Related Entity Name:	MTR of Kentucky LLC
Related Entity Address1:	1941 Cement Plant Rd
Related Entity Address2:	Not reported
Related Entity Municipality:	Nashville
Related Entity State:	TN
Related Entity Zip:	37208
Related Entity Type:	Not reported
SI Description:	Not reported
Date Last Site Insp.:	Not reported
Last Inspector:	Not reported

Name:	MTR OF KENTUCKY LLC
Address:	2611 UPPER RIVER RD
City,State,Zip:	LOUISVILLE, KY 40206
Facility ID:	99938
Status:	Terminated
Permit Number:	05600247
SI ID:	Not reported
SI Designation:	Not reported
AI Name:	MTR of Kentucky LLC
Rel Entity ID:	Not reported
Facility Type:	Waste Tire Processor
Latitude:	38.27769200
Longitude:	-85.70730200
Permittee city/state/zip:	LOUISVILLE, KY 40206
Permit expired date:	05/13/2018
Related Entity Name:	MTR of Kentucky LLC
Related Entity Address1:	1941 Cement Plant Rd
Related Entity Address2:	Not reported
Related Entity Municipality:	Nashville
Related Entity State:	TN
Related Entity Zip:	37208
Related Entity Type:	Not reported
SI Description:	Not reported
Date Last Site Insp.:	Not reported
Last Inspector:	Not reported

SOUTH WIND MINING (Continued) **S108083353**

Name:	MTR OF KENTUCKY LLC
Address:	2611 UPPER RIVER RD
City,State,Zip:	LOUISVILLE, KY 40206
Facility ID:	99938
Status:	Terminated
Permit Number:	05600247
SI ID:	Not reported
SI Designation:	Not reported
AI Name:	MTR of Kentucky LLC
Rel Entity ID:	Not reported
Facility Type:	Waste Tire Accumulator
Latitude:	38.27769200
Longitude:	-85.70730200
Permittee city/state/zip:	LOUISVILLE, KY 40206
Permit expired date:	05/13/2018
Related Entity Name:	MTR of Kentucky LLC
Related Entity Address1:	1941 Cement Plant Rd
Related Entity Address2:	Not reported
Related Entity Municipality:	Nashville
Related Entity State:	TN
Related Entity Zip:	37208
Related Entity Type:	Not reported
SI Description:	Not reported
Date Last Site Insp.:	Not reported
Last Inspector:	Not reported

NPDES:

Name:	SOUTH WIND MINING
Address:	2611 UPPER RIVER RD
City,State,Zip:	LOUISVILLE, KY 40202
Federal Facility ID:	Not reported
Facility Status:	INACTIVE
KY DES #:	KYR100080
Total App# Design Flow (MGD):	Not reported
Horizontal Collect Method Desc:	Not reported
Facility Addr 2:	Not reported
Inactive Date:	04/16/2010
Design Capacity:	Not reported
Fee Category:	Not reported
SIC Code:	1794
Lat/Long:	+3816250 / -08542210
Lat/Long Method:	A
USGS Hydrologic Basin Code:	05140101
Facility Stream Segment:	Not reported
Facility Mileage Indicator:	Not reported
Basin Code:	Not reported
Basin Code Description:	Not reported
DMR Contact:	PAUL LAWSON JR
Contact Telephone:	5028961776
Mailing Address:	2611 UPPER RIVER RD
Mailing Address 2:	Not reported
Mailing City,St,Zip:	LOUISVILLE, KY 40202
Permit Issued:	07/01/2009
Permit Expires:	07/31/2014
SIC Code Description:	EXCAVATION WORK
Reveiving Waters:	OHIO RIVER
Major/Minor:	MINOR

SOUTH WIND MINING (Continued) **S108083353**

Effective Date:	Not reported
Affiliation Type Desc:	Not reported
Organization Formal Name:	Not reported
Facility Type Desc:	Not reported
State Facility ID:	Not reported
Original Issue Date:	Not reported
Approved For Electronic DMR Submission:	Not reported

Name:	RIVER ROAD TERMINAL INC
Address:	2611 UPPER RIVER RD
City,State,Zip:	LOUISVILLE, KY 40206
Federal Facility ID:	Not reported
Facility Status:	ACTIVE
KY DES #:	KY0097241
Total App# Design Flow (MGD):	Not reported
Horizontal Collect Method Desc:	Not reported
Facility Addr 2:	Not reported
Inactive Date:	Not reported
Design Capacity:	Not reported
Fee Category:	NPIND
SIC Code:	4491
Lat/Long:	+3816350 / -08542250
Lat/Long Method:	U
USGS Hydrologic Basin Code:	05140101
Facility Stream Segment:	Not reported
Facility Mileage Indicator:	Not reported
Basin Code:	0521
Basin Code Description:	OR/OHIO R-MAIN STEM
DMR Contact:	PAUL BUDDEKE
Contact Telephone:	5028961776
Mailing Address:	2611 UPPER RIVER RD
Mailing Address 2:	Not reported
Mailing City,St,Zip:	LOUISVILLE, KY 40206
Permit Issued:	06/22/2007
Permit Expires:	07/31/2012
SIC Code Description:	MARINE CARGO HANDLING
Reveiving Waters:	OHIO RIVER
Major/Minor:	MINOR
Effective Date:	Not reported
Affiliation Type Desc:	Not reported
Organization Formal Name:	Not reported
Facility Type Desc:	Not reported
State Facility ID:	Not reported
Original Issue Date:	Not reported
Approved For Electronic DMR Submission:	Not reported

---

97 **OLD BROWNSBORO CROSSING** **KY SHWS 1007121427**
SSE **9607 BROWNSBORO RD** **KY NPDES N/A**
1/4-1/2 **LOUISVILLE, KY 40241**
0.370 mi.
1955 ft.

Actual:
683 ft.

Focus Map:
8

SHWS:

Name:	OLD BROWNSBORO CROSSING
Address:	9607 BROWNSBORO ROAD
City,State,Zip:	LOUISVILLE, KY 40241
Facility Id:	46537
Status:	**Closed**

OLD BROWNSBORO CROSSING (Continued) **1007121427**

Description:	OLD BROWNSBORO CROSSING (Closed: Restored)
Closure Date:	09/23/2004
Longitude:	-85.570356
Latitude:	38.316422
Subject Item County:	Jefferson
Sub Item Longitude:	-85.572333
Sub Item Latitude:	38.315778
Subject Item Address:	9607 Brownsboro Rd
Subject Item Address2:	Not reported
Subject Item City,St,Zip:	Louisville, KY 40241
Regulatory Desc:	Petroleum Cleanup
Closure Option:	Option C Restored
Side SG:	126608

NPDES:

Name:	OLD BROWNSBORO CROSSING
Address:	9607 BROWNSBORO RD
City,State,Zip:	LOUISVILLE, KY 40241
Federal Facility ID:	Not reported
Facility Status:	INACTIVE
KY DES #:	KYR105488
Total App# Design Flow (MGD):	Not reported
Horizontal Collect Method Desc:	Not reported
Facility Addr 2:	Not reported
Inactive Date:	10/19/2010
Design Capacity:	Not reported
Fee Category:	Not reported
SIC Code:	1611
Lat/Long:	Not reported
Lat/Long Method:	Not reported
USGS Hydrologic Basin Code:	Not reported
Facility Stream Segment:	Not reported
Facility Mileage Indicator:	Not reported
Basin Code:	Not reported
Basin Code Description:	Not reported
DMR Contact:	KENNETH L PAYNE
Contact Telephone:	5025843912
Mailing Address:	MAIN ST REALTY INC
Mailing Address 2:	111 W WASHINGTON ST
Mailing City,St,Zip:	LOUIVSILLE, KY 40202
Permit Issued:	07/01/2009
Permit Expires:	07/31/2014
SIC Code Description:	HWY & ST CONST., EXC. ELEV HWY
Reveiving Waters:	WOLF PEN BR
Major/Minor:	MINOR
Effective Date:	Not reported
Affiliation Type Desc:	Not reported
Organization Formal Name:	Not reported
Facility Type Desc:	Not reported
State Facility ID:	Not reported
Original Issue Date:	Not reported
Approved For Electronic DMR Submission:	Not reported

Name:	OLD BROWNSBORO CROSSING
Address:	9607 BROWNSBORO RD
City,State,Zip:	LOUISVILLE, KY 40241
Federal Facility ID:	Not reported

OLD BROWNSBORO CROSSING (Continued) **1007121427**

Facility Status:	INACTIVE
KY DES #:	KYR105615
Total App# Design Flow (MGD):	Not reported
Horizontal Collect Method Desc:	Not reported
Facility Addr 2:	Not reported
Inactive Date:	10/19/2010
Design Capacity:	Not reported
Fee Category:	Not reported
SIC Code:	2371
Lat/Long:	Not reported
Lat/Long Method:	Not reported
USGS Hydrologic Basin Code:	Not reported
Facility Stream Segment:	Not reported
Facility Mileage Indicator:	Not reported
Basin Code:	Not reported
Basin Code Description:	Not reported
DMR Contact:	MARK E SPARKS
Contact Telephone:	5025843912
Mailing Address:	MAIN STREET REALTY INC
Mailing Address 2:	111 W WASHINGTON ST
Mailing City,St,Zip:	LOUISVILLE, KY 40202
Permit Issued:	07/01/2009
Permit Expires:	07/31/2014
SIC Code Description:	FUR GOODS
Reveiving Waters:	WOLF PEN BR
Major/Minor:	MINOR
Effective Date:	Not reported
Affiliation Type Desc:	Not reported
Organization Formal Name:	Not reported
Facility Type Desc:	Not reported
State Facility ID:	Not reported
Original Issue Date:	Not reported
Approved For Electronic DMR Submission:	Not reported

Name:	OBDC ACCESS ROAD
Address:	9607 BROWNSBORO RD
City,State,Zip:	LOUISVILLE, KY 40241
Federal Facility ID:	Not reported
Facility Status:	INACTIVE
KY DES #:	KYR106423
Total App# Design Flow (MGD):	Not reported
Horizontal Collect Method Desc:	Not reported
Facility Addr 2:	Not reported
Inactive Date:	10/19/2010
Design Capacity:	Not reported
Fee Category:	Not reported
SIC Code:	8741
Lat/Long:	Not reported
Lat/Long Method:	Not reported
USGS Hydrologic Basin Code:	Not reported
Facility Stream Segment:	Not reported
Facility Mileage Indicator:	Not reported
Basin Code:	Not reported
Basin Code Description:	Not reported
DMR Contact:	R F MCMAHAN JR
Contact Telephone:	5024590522
Mailing Address:	MCMAHAN GROUP VENTURES LLC

OLD BROWNSBORO CROSSING (Continued) **1007121427**

Mailing Address 2:	3034 HUSINGER LN
Mailing City,St,Zip:	LOUISVILLE, KY 40220
Permit Issued:	07/01/2009
Permit Expires:	07/31/2014
SIC Code Description:	MANAGEMENT SERVICES
Reveiving Waters:	WOLF PEN BR
Major/Minor:	MINOR
Effective Date:	Not reported
Affiliation Type Desc:	Not reported
Organization Formal Name:	Not reported
Facility Type Desc:	Not reported
State Facility ID:	Not reported
Original Issue Date:	Not reported
Approved For Electronic DMR Submission:	Not reported

---

98 **RIVER ROAD SHINGLE RECYCLING LLC** **KY SWRCY** **S123304927**
WNW **2901 RIVER ROAD** **N/A**
1/4-1/2 **LOUISVILLE, KY 40206**
0.410 mi.
2165 ft.

Actual:
443 ft.

Focus Map:
10

SWRCY:

Name:	RIVER ROAD SHINGLE RECYCLING LLC
Address:	2901 RIVER ROAD
City,State,Zip:	LOUISVILLE, KY 40206
Facility Type:	COMMERCIAL RECYCLER
Contact Name:	David Wicking
Contact Name2:	Not reported
Contact Phone:	(502) 821-0253
Contact Phone2:	Not reported
Serves:	REGIONAL
Function:	DROPOFF
Material Accepted:	FE, NONFE
Notes:	Additional Drop-off Materials include shingles and building materials.

---

99 **RIVERGREEN BUSINESS PARK** **KY SWF/LF** **S123109386**
West **2712 RIVER GREEN CIR** **N/A**
1/4-1/2 **LOUISVILLE, KY 40206**
0.422 mi.
2229 ft.

Actual:
447 ft.

Focus Map:
10

LF:

Name:	RIVERGREEN BUSINESS PARK
Address:	2712 RIVER GREEN CIR
City,State,Zip:	LOUISVILLE, KY 40206
Facility ID:	8278
Status:	Operating
Permit Number:	05600168-1
SI ID:	Not reported
SI Designation:	Not reported
AI Name:	Rivergreen Business Park
Rel Entity ID:	Not reported
Facility Type:	Beneficial Reuse
Latitude:	38.27378500
Longitude:	-85.70664800
Permittee city/state/zip:	LOUISVILLE, KY 40206

RIVERGREEN BUSINESS PARK (Continued) **S123109386**

Permit expired date:	Not reported
Related Entity Name:	Not reported
Related Entity Address1:	Not reported
Related Entity Address2:	Not reported
Related Entity Municipality:	Not reported
Related Entity State:	Not reported
Related Entity Zip:	Not reported
Related Entity Type:	Not reported
SI Description:	Not reported
Date Last Site Insp.:	Not reported
Last Inspector:	Not reported

100
SSE
1/4-1/2
0.469 mi.
2476 ft.

KITTYS PRODUCE
8708 BROWNSBORO ROAD
LOUISVILLE, KY 40241

KY SHWS **S106885566**
N/A

Actual:
651 ft.

Focus Map:
8

SHWS:

Name:	KITTYS PRODUCE
Address:	8708 BROWNSBORO ROAD
City,State,Zip:	LOUISVILLE, KY 40241
Facility Id:	52788
Status:	**Closed**
Description:	KITTY'S PRODUCE (Closed: Restored)
Closure Date:	08/09/1995
Longitude:	-85.588943
Latitude:	38.301993
Subject Item County:	Jefferson
Sub Item Longitude:	-85.588943
Sub Item Latitude:	38.301993
Subject Item Address:	8708 Brownsboro Rd
Subject Item Address2:	Not reported
Subject Item City,St,Zip:	Louisville, KY 40241
Regulatory Desc:	Petroleum Cleanup
Closure Option:	Option C Restored
Side SG:	36372

101
SSE
1/2-1
0.520 mi.
2746 ft.

OVERSTREET AUTO SERVICES
6500 BROWNSBORO RD
LOUISVILLE, KY 40291

KY SHWS **S117892182**
N/A

Actual:
586 ft.

Focus Map:
13

SHWS:

Name:	OVERSTREET AUTO SERVICES
Address:	6500 BROWNSBORO RD
City,State,Zip:	LOUISVILLE, KY 40291
Facility Id:	126253
Status:	**Closed**
Description:	Overstreet Auto Services (Closed: Restored 06/19/1997)
Closure Date:	06/19/1997
Longitude:	-85.589175
Latitude:	38.152725
Subject Item County:	Jefferson
Sub Item Longitude:	-85.590470

OVERSTREET AUTO SERVICES (Continued) **S117892182**

Sub Item Latitude:	38.152090
Subject Item Address:	6500 Bardstown Rd
Subject Item Address2:	Not reported
Subject Item City,St,Zip:	Louisville, KY 40291
Regulatory Desc:	Petroleum Cleanup
Closure Option:	Option C Restored
Side SG:	Historical Operations

---

102 **SIX MILE ISLAND - COAST GUARD AID** **KY SHWS** **S122830309**
North **RIVER RD** **N/A**
1/2-1 **LOUISVILLE, KY 40222**
0.573 mi.
3026 ft.

Actual: **440 ft.**
Focus Map: **5**

SHWS:

Name:	SIX MILE ISLAND - COAST GUARD AID
Address:	RIVER RD
City,State,Zip:	LOUISVILLE, KY 40222
Facility Id:	52150
Status:	**Closed**
Description:	SIX MILE ISLAND - COAST GUARD AID (Closed: Option C Restored)
Closure Date:	08/14/2006
Longitude:	-85.661501
Latitude:	38.303973
Subject Item County:	Jefferson
Sub Item Longitude:	-85.661501
Sub Item Latitude:	38.303972
Subject Item Address:	River Rd
Subject Item Address2:	Rm 597.9
Subject Item City,St,Zip:	Louisville, KY 40222
Regulatory Desc:	State Superfund
Closure Option:	Option C Restored
Side SG:	11443

---

103 **HOLIDAY CLEANERS** **KY SHWS** **S106885375**
SSE **4820 US HIGHWAY 42** **N/A**
1/2-1 **LOUISVILLE, KY 40222**
0.600 mi.
3168 ft.

Actual: **590 ft.**
Focus Map: **13**

SHWS:

Name:	HOLIDAY CLEANERS
Address:	4820 US HIGHWAY 42
City,State,Zip:	LOUISVILLE, KY 40222
Facility Id:	51790
Status:	**Closed**
Description:	HOLIDAY CLEANERS (Closed: No Action Necessary)
Closure Date:	01/17/2002
Longitude:	-85.633964
Latitude:	38.281601
Subject Item County:	Jefferson
Sub Item Longitude:	-85.633964
Sub Item Latitude:	38.281601
Subject Item Address:	4820 US 42
Subject Item Address2:	Not reported
Subject Item City,St,Zip:	Louisville, KY 40201

HOLIDAY CLEANERS (Continued) **S106885375**

Regulatory Desc: State Superfund
Closure Option: Option A No Action Necessary
Side SG: 58170

104
SSE
1/2-1
0.636 mi.
3357 ft.

CHEVRON OFFICE BLDG
4902 BROWNSBORO ROAD
LOUISVILLE, KY 40222

KY SHWS **U000808848**
N/A

Actual:
589 ft.

Focus Map:
13

SHWS:
Name: CHEVRON OFFICE BLDG
Address: 4902 BROWNSBORO ROAD
City,State,Zip: LOUISVILLE, KY 40222
Facility Id: 102700
Status: **Closed**
Description: CHEVRON OFFICE BUILDING (Closed: Restored)
Closure Date: 03/22/1996
Longitude: -85.634797
Latitude: 38.280346
Subject Item County: Jefferson
Sub Item Longitude: -85.634877
Sub Item Latitude: 38.280337
Subject Item Address: 4902 Brownsboro Rd
Subject Item Address2: Not reported
Subject Item City,St,Zip: Louisville, KY 40222
Regulatory Desc: Petroleum Cleanup
Closure Option: Option C Restored
Side SG: 39607

105
North
1/2-1
0.643 mi.
3394 ft.

CLAY CRALLE RESIDENCE
6600 MINT SPRINGS BRANCH RD
PROSPECT, KY 40059

KY SHWS **S111409521**
N/A

Actual:
634 ft.

Focus Map:
2

SHWS:
Name: CLAY CRALLE RESIDENCE
Address: 6600 MINT SPRINGS BRANCH RD
City,State,Zip: PROSPECT, KY 40059
Facility Id: 113197
Status: **Closed**
Description: Closure
Closure Date: 12/05/2011
Longitude: -85.581318
Latitude: 38.334274
Subject Item County: Jefferson
Sub Item Longitude: -85.582589
Sub Item Latitude: 38.337539
Subject Item Address: 6600 Mint Springs Branch Rd
Subject Item Address2: Not reported
Subject Item City,St,Zip: Prospect, KY 40059
Regulatory Desc: Petroleum Cleanup
Closure Option: Option C Restored
Side SG: Exempt tank

106
SSE
1/2-1
0.655 mi.
3457 ft.

SLUNG RESIDENCE
172 ARROWHEAD DR
LOUISVILLE, KY 40207

KY SHWS **S116687713**
N/A

Actual:
450 ft.

Focus Map:
12

SHWS:

Name:	SLUNG RESIDENCE
Address:	172 ARROWHEAD DR
City,State,Zip:	LOUISVILLE, KY 40207
Facility Id:	121605
Status:	**Closed**
Description:	Slung Residence/June Almond Spring (Closed: No Action Necesary 4/22/1997)
Closure Date:	04/22/1997
Longitude:	-85.660748
Latitude:	38.275547
Subject Item County:	Jefferson
Sub Item Longitude:	-85.660771
Sub Item Latitude:	38.275576
Subject Item Address:	172 Arrowhead Dr
Subject Item Address2:	Not reported
Subject Item City,St,Zip:	Louisville, KY 40207
Regulatory Desc:	Petroleum Cleanup
Closure Option:	Option A No Action Necessary
Side SG:	Heating Oil UST

107
WSW
1/2-1
0.697 mi.
3678 ft.

RIVER METALS RECYCLING
2114 METAL LN
LOUISVILLE, KY 40206

KY SHWS **S108131505**
KY ENG CONTROLS **N/A**
KY INST CONTROL

Actual:
439 ft.

Focus Map:
16

SHWS:

Name:	RIVER METALS RECYCLING
Address:	2114 METAL LN
City,State,Zip:	LOUISVILLE, KY 40206
Facility Id:	71752
Status:	**Closed**
Description:	INCIDENT CLOSED--This incident was a hydraulic oil release when a hydraulic shear at this facility caught fire and released approximately 3000 gallons of hydraulic oil.
Closure Date:	04/12/2006
Longitude:	-85.712522
Latitude:	38.270337
Subject Item County:	Jefferson
Sub Item Longitude:	-85.714269
Sub Item Latitude:	38.272401
Subject Item Address:	2114 Metal Ln
Subject Item Address2:	Not reported
Subject Item City,St,Zip:	Louisville, KY 40206
Regulatory Desc:	Petroleum Cleanup
Closure Option:	Option A No Action Necessary
Side SG:	Hydraulic Oil Release

Name:	RIVER METALS RECYCLING
Address:	2114 METAL LANE
City,State,Zip:	LOUISVILLE, KY 402060521
Facility Id:	71752
Status:	**Managed**

RIVER METALS RECYCLING (Continued) **S108131505**

Description:	LOUISVILLE SCRAP / AMERICAN COMMERCIAL MARINE (Closed: Contained/Managed)
Closure Date:	09/29/2000
Longitude:	-85.712522
Latitude:	38.270337
Subject Item County:	Jefferson
Sub Item Longitude:	-85.715000
Sub Item Latitude:	38.271999
Subject Item Address:	2114 Metal Ln
Subject Item Address2:	Not reported
Subject Item City,St,Zip:	Louisville, KY 40206
Regulatory Desc:	State Superfund
Closure Option:	Option B Contained/Managed
Side SG:	32297

ENG CONTROLS:

Name:	RIVER METALS RECYCLING
Address:	2114 METAL LANE
City,State,Zip:	LOUISVILLE, KY 402060521
City,State,Zip:	LOUISVILLE, KY 402060521
AI Id:	71752
Regulatory Desc:	State Superfund
Site Status:	Managed
Closure Option:	Option B Contained/Managed
Closure Date:	09/29/2000
Lat/Long:	38.271999 / -85.715000
AI Addr1:	2114 Metal Ln
AI Addr2:	Not reported
AI City/State/Zip:	Louisville, KY 40206
AI Lat:	38.270337
AI Long:	-85.712522
AI County:	Jefferson
Description:	LOUISVILLE SCRAP / AMERICAN COMMERCIAL MARINE (Closed: Contained/Managed)

KS INSTUTIONAL CONTROL:

Name:	RIVER METALS RECYCLING
Address:	2114 METAL LANE
City,State,Zip:	LOUISVILLE, KY 402060521
Incident Id:	71752
GARA Number:	GARA0000000001
Facilty Status:	Not reported
Lat/Lon:	38.272 -85.715
Remedy:	Not reported
Control Type:	Deed Restriction
Program:	Superfund
Date Filed:	07/25/2000
Date Removed:	Not reported
Control Method:	Capping (explain), Land Use Restrictions, Groundwater Use Restrictions
Acreage:	Not reported

108
SSW
1/2-1
0.761 mi.
4020 ft.

KIRCHNER PROPERTY
518 NORTH HITE AVE.
LOUISVILLE, KY 40206

KY SHWS **S114562884**
KY CDL **N/A**

Actual:
520 ft.

Focus Map:
17

SHWS:

Name:	KIRCHNER PROPERTY
Address:	518 NORTH HITE AVE.
City,State,Zip:	LOUISVILLE, KY 40206
Facility Id:	120553
Status:	**Closed**
Description:	518 North Hite Ave. Meth Lab (Closed 11/26/2013)
Closure Date:	11/26/2013
Longitude:	-85.701328
Latitude:	38.262237
Subject Item County:	Jefferson
Sub Item Longitude:	-85.701328
Sub Item Latitude:	38.262236
Subject Item Address:	518 N Hite Ave
Subject Item Address2:	Not reported
Subject Item City,St,Zip:	Louisville, KY 40206
Regulatory Desc:	State Superfund
Closure Option:	Option C Restored
Side SG:	Meth Lab

CDL:

Name:	KIRCHNER PROPERTY
Address:	518 NORTH HITE AVE.
Address 2:	Not reported
City,State,Zip:	LOUISVILLE, KY 40206
Site Status:	Closed
Facility Group:	AAZZ0001
Agency Interest Id Number:	120553
Designation:	Meth Lab
Description:	518 North Hite Ave. Meth Lab (Closed 11/26/2013)
Regulatory Description:	State Superfund
Closure Option:	Option C Restored
Closure Date:	11/26/2013
Latitude:	38.26
Longitude:	-85.70

X109
WSW
1/2-1
0.765 mi.
4037 ft.

OPERATION BRIGHTSIDE
2041 RIVER RD
LOUISVILLE, KY 40206

Site 1 of 2 in cluster X

KY SHWS **S118844943**
N/A

Actual:
436 ft.

Focus Map:
16

SHWS:

Name:	OPERATION BRIGHTSIDE
Address:	2041 RIVER RD
City,State,Zip:	LOUISVILLE, KY 40206
Facility Id:	53129
Status:	**Closed**
Description:	OPERATION BRIGHTSIDE (Closed: Restored)
Closure Date:	06/23/1999
Longitude:	-85.713374
Latitude:	38.269494
Subject Item County:	Jefferson

OPERATION BRIGHTSIDE (Continued) **S118844943**

Sub Item Longitude:	-85.713442
Sub Item Latitude:	38.269533
Subject Item Address:	2041 River Rd
Subject Item Address2:	Not reported
Subject Item City,St,Zip:	Louisville, KY 40206
Regulatory Desc:	Petroleum Cleanup
Closure Option:	Option C Restored
Side SG:	33739

X110 **EDITH AVE LANDFILL** **KY SHWS** **S106885267**
WSW **EDITH RD AT RIVER RD** **KY SWF/LF** **N/A**
1/2-1 **LOUISVILLE, KY 40201** **KY Financial Assurance**
0.771 mi.
4073 ft. **Site 2 of 2 in cluster X**

Actual:
434 ft.

Focus Map:
16

SHWS:

Name:	EDITH AVE LANDFILL
Address:	EDITH AVE
City,State,Zip:	LOUISVILLE, KY 40201
Facility Id:	2025
Status:	**Closed**
Description:	EDITH AVENUE DRUMS (Closed: Unfounded)
Closure Date:	08/24/1995
Longitude:	-85.712306
Latitude:	38.269976
Subject Item County:	Jefferson
Sub Item Longitude:	-85.711134
Sub Item Latitude:	38.266387
Subject Item Address:	Edith Rd at River Rd
Subject Item Address2:	Not reported
Subject Item City,St,Zip:	Louisville, KY 40201
Regulatory Desc:	State Superfund
Closure Option:	Unfounded
Side SG:	31526

LF:

Name:	EDITH AVE LANDFILL
Address:	EDITH RD AT RIVER RD
City,State,Zip:	LOUISVILLE, KY 40201
Facility ID:	2025
Status:	Reclassified as Historic Landfill
Permit Number:	05600006-1
SI ID:	ACTV0000000001
SI Designation:	05600006-1
AI Name:	Edith Ave Landfill
Rel Entity ID:	20275
Facility Type:	Inert Landfill
Latitude:	38.26997600
Longitude:	-85.71230600
Permittee city/state/zip:	LOUISVILLE, KY 40201
Permit expired date:	Not reported
Related Entity Name:	Edith Avenue Landfill
Related Entity Address1:	Edith Rd at River Rd
Related Entity Address2:	Not reported
Related Entity Municipality:	Louisville
Related Entity State:	KY
Related Entity Zip:	40201

EDITH AVE LANDFILL (Continued) **S106885267**

Related Entity Type: NONE SPECIFIED
SI Description: LANDFILL, INERT-ACTIVITY CEASED
Date Last Site Insp.: Not reported
Last Inspector: Not reported

KY Financial Assurance 3:
Name: EDITH AVENUE LANDFILL
Address: EDITH ROAD AT RIVER ROAD
City,State,Zip: LOUISVILLE, KY 40201
Facility Id: 2025
Region: 3
Sw Permit #: 056-00006
Ai #: 2025
Financial Instrument #: 1
Financial Instrument Type: Budget/Escrow
Provider: First Federal Savings Bank
Amount: $135,060.97
Date Received: 08/05/1998

111
WSW
1/2-1
0.827 mi.
4368 ft.

Actual:
446 ft.

Focus Map:
16

METAL SERVICES COMMERCIAL PROPERTY
2033 METAL LANE
LOUISVILLE, KY 40206

KY SHWS **S116687708**
KY INST CONTROL **N/A**

SHWS:
Name: METAL SERVICES COMMERCIAL PROPERTY
Address: 2033 METAL LANE
City,State,Zip: LOUISVILLE, KY 40206
Facility Id: 120855
Status: **Managed**
Description: Release/disposal of coal ash and relocated landfill materials
Closure Date: 08/20/2014
Longitude: -85.714011
Latitude: 38.270850
Subject Item County: Jefferson
Sub Item Longitude: -85.713877
Sub Item Latitude: 38.270761
Subject Item Address: 2033 Metal Ln
Subject Item Address2: Not reported
Subject Item City,St,Zip: Louisville, KY 40206
Regulatory Desc: State Superfund
Closure Option: Option B Contained/Managed
Side SG: Not reported

KS INSTUTIONAL CONTROL:
Name: METAL SERVICES COMMERCIAL PROPERTY
Address: 2033 METAL LANE
City,State,Zip: LOUISVILLE, KY 40206
Incident Id: 120855
GARA Number: GARA0000000001
Facilty Status: Not reported
Lat/Lon: 38.270761 -85.713878
Remedy: Not reported
Control Type: Restrictive Covenant
Program: Superfund
Date Filed: 09/19/2014

METAL SERVICES COMMERCIAL PROPERTY (Continued) **S116687708**

Date Removed: Not reported
Control Method: Capping (explain), Land Use Restrictions, Groundwater Use Restrictions
Acreage: 2.7

112
South
1/2-1
0.830 mi.
4380 ft.

STRANGE RESIDENCE
103 BLANKENBAKER LANE
LOUISVILLE, KY 40207

KY SHWS **S114562895**
N/A

Actual:
583 ft.

Focus Map:
19

SHWS:

Name:	STRANGE RESIDENCE
Address:	103 BLANKENBAKER LANE
City,State,Zip:	LOUISVILLE, KY 40207
Facility Id:	120857
Status:	**Closed**
Description:	Strange Property (Closed: Non-Incident 05/11/1998)
Closure Date:	05/11/1998
Longitude:	-85.645815
Latitude:	38.274942
Subject Item County:	Jefferson
Sub Item Longitude:	-85.645677
Sub Item Latitude:	38.275015
Subject Item Address:	103 Blankenbaker Ln
Subject Item Address2:	Not reported
Subject Item City,St,Zip:	Louisville, KY 40207
Regulatory Desc:	Petroleum Cleanup
Closure Option:	Non-Incident
Side SG:	Exempt Petroleum UST

113
WSW
1/2-1
0.837 mi.
4421 ft.

CHAMPIONS PARK
2050 RIVER ROAD
LOUISVILLE, KY 40206

KY SHWS **S123494112**
KY INST CONTROL **N/A**

Actual:
430 ft.

Focus Map:
16

SHWS:

Name:	CHAMPIONS PARK
Address:	2050 RIVER ROAD
City,State,Zip:	LOUISVILLE, KY 40206
Facility Id:	137059
Status:	**Managed**
Description:	Closed Landfill
Closure Date:	05/16/2019
Longitude:	-85.704043
Latitude:	38.270995
Subject Item County:	Jefferson
Sub Item Longitude:	-85.710673
Sub Item Latitude:	38.267975
Subject Item Address:	2700 River Rd
Subject Item Address2:	Not reported
Subject Item City,St,Zip:	Louisville, KY 40206
Regulatory Desc:	State Superfund
Closure Option:	Option B Contained/Managed
Side SG:	Former Edith Avenue Landfill

CHAMPIONS PARK (Continued) **S123494112**

KS INSTUTIONAL CONTROL:
Name: CHAMPIONS PARK
Address: 2050 RIVER ROAD
City,State,Zip: LOUISVILLE, KY 40206
Incident Id: 137059
GARA Number: GARA0000000001
Facilty Status: Not reported
Lat/Lon: 38.267975 -85.710673
Remedy: Not reported
Control Type: Restrictive Covenant
Program: Superfund
Date Filed: 04/11/2019
Date Removed: Not reported
Control Method: Land Use Restrictions, Groundwater Use Restrictions
Acreage: 53.78

---

114 **SIMS PROPERTY** **KY SHWS** **S106885615**
SSE **91 WARRIOR ROAD** **N/A**
1/2-1 **INDIAN HILLS, KY 40207**
0.840 mi.
4436 ft.

Actual:
558 ft.

Focus Map:
12

SHWS:
Name: SIMS PROPERTY
Address: 91 WARRIOR ROAD
City,State,Zip: INDIAN HILLS, KY 40207
Facility Id: 53024
Status: **Closed**
Description: SIMS PROPERTY TANK (Closed: Restored)
Closure Date: 10/28/1999
Longitude: -85.664085
Latitude: 38.276434
Subject Item County: Jefferson
Sub Item Longitude: -85.664085
Sub Item Latitude: 38.276434
Subject Item Address: 91 Warrior Rd
Subject Item Address2: Not reported
Subject Item City,St,Zip: Louisville, KY 40207
Regulatory Desc: Petroleum Cleanup
Closure Option: Option C Restored
Side SG: 48055

---

115 **ALLTRADE SERVICES SOLUTIONS PROPERTY** **KY SHWS** **S109943867**
South **2600 LE BLANC CT. # 8** **KY CDL** **N/A**
1/2-1 **LOUISVILLE, KY 40206**
0.922 mi.
4869 ft.

Actual:
487 ft.

Focus Map:
17

SHWS:
Name: ALLTRADE SERVICES SOLUTIONS PROPERTY
Address: 2600 LE BLANC CT. # 8
City,State,Zip: LOUISVILLE, KY 40206
Facility Id: 105266
Status: **Closed**
Description: 2600 Le Blanc Ct #8 Meth Lab (Closed 8/21/09)
Closure Date: 08/21/2009

ALLTRADE SERVICES SOLUTIONS PROPERTY (Continued) **S109943867**

Longitude:	-85.699663
Latitude:	38.260165
Subject Item County:	Jefferson
Sub Item Longitude:	-85.699663
Sub Item Latitude:	38.260165
Subject Item Address:	2600 Le Blanc Ct Apt 8
Subject Item Address2:	Not reported
Subject Item City,St,Zip:	Louisville, KY 40206
Regulatory Desc:	State Superfund
Closure Option:	Option C Restored
Side SG:	Meth Lab

CDL:

Name:	ALLTRADE SERVICES SOLUTIONS PROPERTY
Address:	2600 LE BLANC CT. # 8
Address 2:	Not reported
City,State,Zip:	LOUISVILLE, KY 40206
Site Status:	Closed
Facility Group:	AAZZ0001
Agency Interest Id Number:	105266
Designation:	Meth Lab
Description:	2600 Le Blanc Ct #8 Meth Lab (Closed 8/21/09)
Regulatory Description:	State Superfund
Closure Option:	Option C Restored
Closure Date:	08/21/2009
Latitude:	38.26
Longitude:	-85.70

116
NNW
1/2-1
0.988 mi.
5214 ft.

Actual:
519 ft.

Focus Map:
6

STOLL PROPERTY **KY SHWS** **S106885680**
3905 LIME KILN LANE **N/A**
LOUISVILLE, KY 40222

SHWS:

Name:	STOLL PROPERTY
Address:	3905 LIME KILN LANE
City,State,Zip:	LOUISVILLE, KY 40222
Facility Id:	53424
Status:	**Closed**
Description:	STOLL PROPERTY (Closed: Restored)
Closure Date:	01/28/1997
Longitude:	-85.638280
Latitude:	38.308961
Subject Item County:	Jefferson
Sub Item Longitude:	-85.638853
Sub Item Latitude:	38.308931
Subject Item Address:	3905 Lime Kiln Ln
Subject Item Address2:	Not reported
Subject Item City,St,Zip:	Louisville, KY 40222
Regulatory Desc:	State Superfund
Closure Option:	Option C Restored
Side SG:	41322

Count: 41 records

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
GLENVIEW	1015827205	BLAKELY WOODS	WOODSIDE RD	40025	FINDS
JEFFERSON COUNTY	S108081913	KTC DSB 8723 (7) FD52 056 8556	JEFFERSON CR 8556 BLANKENBAKER	00000	KY NPDES
LOUISVILLE	2017190889		I-265 EAST BOUND		ERNS
LOUISVILLE	2006809252		450 ARDEN ST.		ERNS
LOUISVILLE	2014075385		PRESTON HWY AT I-265		ERNS
LOUISVILLE	2014073296		SOUTH I-71 MM 18		ERNS
LOUISVILLE	8864178		HARRODS CREEK 89OO BLOCK OF US HIGHWAY 42		ERNS
LOUISVILLE	2019235902		I-71 N		ERNS
LOUISVILLE	8714135		RIVER ROAD ONE-QUARTER EAST OF INDIAN HILLS TRAIL		ERNS
LOUISVILLE	97400031		7400 UPPER RIVER RD		ERNS
LOUISVILLE	94229106		I-265/ BETWEEN SHELBYVILE		ERNS
LOUISVILLE	94261294		OFF I-265 EASTBOUND		ERNS
LOUISVILLE	94273319		3131 UPPER RIVER RD		ERNS
LOUISVILLE	94259329		3131 UPPER RIVER RD		ERNS
LOUISVILLE	94234010		3131 UPPER RIVER RD		ERNS
LOUISVILLE	99474032		I-71 SOUTH		ERNS
LOUISVILLE	A100451135	MSD	4640 BARBOUR LN	40241	KY AST
LOUISVILLE	2005706962	I-71 SB MM9	I-71 SB MM9		HMIRS
LOUISVILLE	91080751		I-265		HMIRS
LOUISVILLE	1024880193	FD52 056 0265 B00087 34.05	I-265 OVER KY22	40241	RCRA NonGen / NLR
LOUISVILLE	1024880194	FD52 056 0071 B00058N 05.79	CR 1002(LIME KILN RD) OVER I-71	40222	RCRA NonGen / NLR
LOUISVILLE	1024880196	FD52 056 0071 B00066N 03.96	POPLAR HILL COURT OVER I-71	40207	RCRA NonGen / NLR
LOUISVILLE	1025437438	BETZ SPECIALITY & CUSTOM CHEMICAL CO	3504 TRAIL RIDGE RD	40241	SSTS
LOUISVILLE	1024227661	FD52 056 0265 B00087 34.05	I-265 OVER KY22	40241	FINDS
LOUISVILLE	1015901223	COTSWOLD GREEN	FLAT ROCK RD	40222	FINDS
LOUISVILLE	1024227662	FD52 056 0071 B00058N 05.79	CR 1002(LIME KILN RD) OVER I-71	40222	FINDS
LOUISVILLE	1024227664	FD52 056 0071 B00066N 03.96	POPLAR HILL COURT OVER I-71	40207	FINDS
LOUISVILLE	1018365058	RECONSTRUCTION OF THE I-71/I-265 (GENE SNYDER FREEWAY) INTERCHANGE (INTERIM IMPR	I-71	40207	FINDS, ECHO
LOUISVILLE	1016306340	BS XPRESS DIAZINON SPILL	INTERSECTION OF I-71 & I-265	40207	FINDS
LOUISVILLE	1024131026	FD52 056 0265 B00087 34.05	I-265 OVER KY22	40241	ECHO
LOUISVILLE	1024131027	FD52 056 0071 B00058N 05.79	CR 1002(LIME KILN RD) OVER I-71	40222	ECHO
LOUISVILLE	1024131029	FD52 056 0071 B00066N 03.96	POPLAR HILL COURT OVER I-71	40207	ECHO
LOUISVILLE	S108015486	SINGH PETRO 9 INC DBA RIVER ROAD CHEVRON	3002 UPPER RIVER ROAD	40207	KY Financial Assurance
LOUISVILLE	S108083099	RIVERGREEN BUSINESS PARK PH 1	UPPER RIVER RD	40206	KY NPDES
LOUISVILLE	S108083399	SPRING CREEK SUBDIVISION	SPRINGDALE DR	40222	KY NPDES
LOUISVILLE	S108084063	WOLF PEN ESTATES	WOLF PEN BRANCH RD	40222	KY NPDES
LOUISVILLE	S108080163	B C BIGELOW INC	BLANKENBAKER PKWY 1 MILE SOUTH	00000	KY NPDES
LOUISVILLE	S108081182	FORD MIDDLETOWN ELEC TRANSM LN	I-265 BETW I-64 & FORD TRUCK	00000	KY NPDES
PROSPECT	2014097155		US HIGHWAY 42		ERNS
PROSPECT	S107467108	TWELVE MILE ISLAND - COAST GUARD AID	OHIO RIVER MILE MARKET 593.1	40059	KY SHWS
PROSPECT	S109093227	SANCTUARY BLUFF SUBDIVISION	6700 US HIGHWAY 42	40059	KY NPDES

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 07/19/2019
Date Data Arrived at EDR: 07/30/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 35

Source: EPA
Telephone: N/A
Last EDR Contact: 11/07/2019
Next Scheduled EDR Contact: 01/13/2020
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 5
Telephone 312-886-6686

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6774

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 07/19/2019
Date Data Arrived at EDR: 07/30/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 35

Source: EPA
Telephone: N/A
Last EDR Contact: 11/07/2019
Next Scheduled EDR Contact: 01/13/2020
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 07/19/2019
Date Data Arrived at EDR: 07/30/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 35

Source: EPA
Telephone: N/A
Last EDR Contact: 11/07/2019
Next Scheduled EDR Contact: 01/13/2020
Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 04/03/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 10/04/2019
Next Scheduled EDR Contact: 01/13/2020
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 07/19/2019
Date Data Arrived at EDR: 07/30/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 35

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 11/07/2019
Next Scheduled EDR Contact: 01/27/2020
Data Release Frequency: Quarterly

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 07/19/2019
Date Data Arrived at EDR: 07/30/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 35

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 11/07/2019
Next Scheduled EDR Contact: 01/27/2020
Data Release Frequency: Quarterly

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/24/2019
Date Data Arrived at EDR: 06/26/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 113

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 10/28/2019
Next Scheduled EDR Contact: 01/06/2020
Data Release Frequency: Quarterly

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/24/2019
Date Data Arrived at EDR: 06/26/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 113

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 10/28/2019
Next Scheduled EDR Contact: 01/06/2020
Data Release Frequency: Quarterly

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/24/2019
Date Data Arrived at EDR: 06/26/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 113

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 10/28/2019
Next Scheduled EDR Contact: 01/06/2020
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 06/24/2019
Date Data Arrived at EDR: 06/26/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 113

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 10/28/2019
Next Scheduled EDR Contact: 01/06/2020
Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/24/2019
Date Data Arrived at EDR: 06/26/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 113

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 10/28/2019
Next Scheduled EDR Contact: 01/06/2020
Data Release Frequency: Quarterly

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 08/13/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 08/26/2019
Number of Days to Update: 6

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 11/07/2019
Next Scheduled EDR Contact: 02/24/2020
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 08/19/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 08/26/2019
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/20/2019
Next Scheduled EDR Contact: 12/09/2019
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 08/19/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 08/26/2019
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/20/2019
Next Scheduled EDR Contact: 12/09/2019
Data Release Frequency: Varies

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 14

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 09/09/2019
Next Scheduled EDR Contact: 01/06/2020
Data Release Frequency: Quarterly

STANDARD ENVIRONMENTAL RECORDS

State- and tribal - equivalent CERCLIS

KY SHWS: State Leads List

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 09/23/2019
Date Data Arrived at EDR: 09/24/2019
Date Made Active in Reports: 10/22/2019
Number of Days to Update: 28

Source: Department of Environmental Protection
Telephone: 502-564-6716
Last EDR Contact: 08/26/2019
Next Scheduled EDR Contact: 12/09/2019
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

KY SWF/LF: Solid Waste Facilities List

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 09/05/2019
Date Data Arrived at EDR: 09/06/2019
Date Made Active in Reports: 11/08/2019
Number of Days to Update: 63

Source: Department of Environmental Protection
Telephone: 502-564-6716
Last EDR Contact: 10/28/2019
Next Scheduled EDR Contact: 02/10/2020
Data Release Frequency: Semi-Annually

State and tribal leaking storage tank lists

KY PSTEAF: Facility Ranking List

The Underground Storage Tank Branch (USTB) has ranked all PSTEAF reimbursable facilities requiring corrective action, in accordance with 401 KAR 42:290. Directive letters will be issued on the basis of facility ranking and available PSTEAF funding in sequential order as ranked. For example, Rank 2 facilities will be issued directives before Rank 3 facilities.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 07/09/2019
Date Made Active in Reports: 08/26/2019
Number of Days to Update: 48

Source: Department of Environmental Protection
Telephone: 502-564-5981
Last EDR Contact: 10/08/2019
Next Scheduled EDR Contact: 01/20/2020
Data Release Frequency: Quarterly

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/16/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/25/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/16/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/25/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/16/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/25/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/16/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/25/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/16/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/25/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/16/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/25/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/16/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/25/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/16/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/25/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

KY SB193: SB193 Branch Site Inventory List
The inventory indicates facilities that have performed permanent closure activities at a regulated underground storage tank facility and have known soil and/or groundwater contamination.

Date of Government Version: 09/05/2006
Date Data Arrived at EDR: 09/13/2006
Date Made Active in Reports: 10/18/2006
Number of Days to Update: 35
Source: Department of Environmental Protection
Telephone: 502-564-5981
Last EDR Contact: 04/08/2016
Next Scheduled EDR Contact: 07/25/2016
Data Release Frequency: No Update Planned

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 08/27/2019
Date Data Arrived at EDR: 08/28/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 75
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 10/11/2019
Next Scheduled EDR Contact: 01/20/2020
Data Release Frequency: Varies

State and tribal registered storage tank lists

KY UST: Underground Storage Tank Database
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 08/02/2019
Date Data Arrived at EDR: 08/27/2019
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 71
Source: Department of Environmental Protection
Telephone: 502-564-5981
Last EDR Contact: 08/27/2019
Next Scheduled EDR Contact: 12/09/2019
Data Release Frequency: Quarterly

KY AST: Above Ground Storage Tanks
A listing of aboveground storage tank site locations.

Date of Government Version: 08/27/2019
Date Data Arrived at EDR: 08/28/2019
Date Made Active in Reports: 11/07/2019
Number of Days to Update: 71
Source: Office of State Fire Marshal
Telephone: 502-564-4010
Last EDR Contact: 08/21/2019
Next Scheduled EDR Contact: 12/09/2019
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

Date of Government Version: 04/06/2016
Date Data Arrived at EDR: 03/02/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 36
Source: N/A
Telephone: N/A
Last EDR Contact: 10/25/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

Date of Government Version: 04/06/2016
Date Data Arrived at EDR: 03/02/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 36
Source: N/A
Telephone: N/A
Last EDR Contact: 10/25/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

Date of Government Version: 04/06/2016
Date Data Arrived at EDR: 03/02/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 36
Source: N/A
Telephone: N/A
Last EDR Contact: 10/25/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

Date of Government Version: 04/06/2016
Date Data Arrived at EDR: 03/02/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 36
Source: N/A
Telephone: N/A
Last EDR Contact: 10/25/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

Date of Government Version: 04/06/2016
Date Data Arrived at EDR: 03/02/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 36
Source: N/A
Telephone: N/A
Last EDR Contact: 10/25/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

Date of Government Version: 04/06/2016
Date Data Arrived at EDR: 03/02/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 36
Source: N/A
Telephone: N/A
Last EDR Contact: 10/25/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

Date of Government Version: 04/06/2016
Date Data Arrived at EDR: 03/02/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 36
Source: N/A
Telephone: N/A
Last EDR Contact: 10/25/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

Date of Government Version: 04/06/2016
Date Data Arrived at EDR: 03/02/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 36

Source: N/A
Telephone: N/A
Last EDR Contact: 10/25/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

KY ENG CONTROLS: Engineering Controls Site Listing
A listing of sites that use engineering controls.

Date of Government Version: 09/24/2019
Date Data Arrived at EDR: 09/25/2019
Date Made Active in Reports: 10/22/2019
Number of Days to Update: 27

Source: Department of Environmental Protection
Telephone: 502-564-6716
Last EDR Contact: 08/26/2019
Next Scheduled EDR Contact: 12/09/2019
Data Release Frequency: Varies

KY INST CONTROL: State Superfund Database
A list of closed sites in the State Superfund Database. Institutional controls would be in place at any site that uses Contained or Managed as a Closure Option.

Date of Government Version: 09/23/2019
Date Data Arrived at EDR: 09/24/2019
Date Made Active in Reports: 11/08/2019
Number of Days to Update: 45

Source: Department of Environmental Protection
Telephone: 502-564-6716
Last EDR Contact: 08/26/2019
Next Scheduled EDR Contact: 12/09/2019
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

KY VCP: Voluntary Cleanup Program Sites
Sites that have been accepted into the Voluntary Cleanup Program or have submitted an application.

Date of Government Version: 09/23/2019
Date Data Arrived at EDR: 09/25/2019
Date Made Active in Reports: 10/22/2019
Number of Days to Update: 27

Source: Department of Environmental Protection
Telephone: 502-564-6716
Last EDR Contact: 08/26/2019
Next Scheduled EDR Contact: 12/09/2019
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

State and tribal Brownfields sites

KY BROWNFIELDS: Kentucky Brownfield Inventory

The Kentucky Brownfield Program has created an inventory of brownfield sites in order to market the properties to those interested in brownfield redevelopment. The Kentucky Brownfield Program is working to promote the redevelopment of these sites by helping to remove barriers that prevent reuse, providing useful information to communities, developers and the public and encouraging a climate that fosters redevelopment of contaminated sites.

Date of Government Version: 08/13/2019
Date Data Arrived at EDR: 08/14/2019
Date Made Active in Reports: 10/28/2019
Number of Days to Update: 75

Source: Division of Compliance Assistance
Telephone: 502-564-0323
Last EDR Contact: 10/15/2019
Next Scheduled EDR Contact: 01/27/2020
Data Release Frequency: Varies

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 06/03/2019
Date Data Arrived at EDR: 06/04/2019
Date Made Active in Reports: 08/26/2019
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 09/19/2019
Next Scheduled EDR Contact: 12/30/2019
Data Release Frequency: Semi-Annually

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

KY HIST LF: Historical Landfills

This solid waste facility listing contains detail information that is not included in the landfill listing. A listing with detail information is no longer available by the Department of Environmental Protection.

Date of Government Version: 05/01/2003
Date Data Arrived at EDR: 03/30/2006
Date Made Active in Reports: 05/01/2006
Number of Days to Update: 32

Source: Department of Environmental Protection
Telephone: 502-564-6716
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

KY SWRCY: Recycling Facilities

A listing of recycling facilities located in the state of Kentucky.

Date of Government Version: 05/02/2019
Date Data Arrived at EDR: 07/18/2019
Date Made Active in Reports: 08/26/2019
Number of Days to Update: 39

Source: Department of Environmental Protection
Telephone: 502-564-6716
Last EDR Contact: 10/18/2019
Next Scheduled EDR Contact: 01/27/2020
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 10/28/2019
Next Scheduled EDR Contact: 02/10/2020
Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137
Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 10/17/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39
Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176
Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 11/01/2019
Next Scheduled EDR Contact: 02/10/2020
Data Release Frequency: Varies

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 06/11/2019
Date Data Arrived at EDR: 06/13/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 82
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/21/2019
Next Scheduled EDR Contact: 12/09/2019
Data Release Frequency: No Update Planned

Local Lists of Hazardous waste / Contaminated Sites

KY CDL: Clandestine Drub Lab Location Listing
Clandestine drug lab site locations.

Date of Government Version: 09/23/2019
Date Data Arrived at EDR: 09/25/2019
Date Made Active in Reports: 10/22/2019
Number of Days to Update: 27
Source: Department of Environmental Protection
Telephone: 502-564-6716
Last EDR Contact: 08/26/2019
Next Scheduled EDR Contact: 12/09/2019
Data Release Frequency: Varies

US CDL: Clandestine Drug Labs
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 06/11/2019
Date Data Arrived at EDR: 06/13/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 82
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/21/2019
Next Scheduled EDR Contact: 12/09/2019
Data Release Frequency: Quarterly

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 07/30/2019
Date Data Arrived at EDR: 07/30/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 35

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 11/07/2019
Next Scheduled EDR Contact: 01/13/2020
Data Release Frequency: Semi-Annually

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 06/24/2019
Date Data Arrived at EDR: 06/26/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 89

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 09/24/2019
Next Scheduled EDR Contact: 01/06/2020
Data Release Frequency: Quarterly

Records of Emergency Release Reports

KY SPILLS: State spills

A listing of spill and/or release related incidents.

Date of Government Version: 08/13/2019
Date Data Arrived at EDR: 08/14/2019
Date Made Active in Reports: 10/28/2019
Number of Days to Update: 75

Source: DEP, Emergency Response
Telephone: 502-564-2380
Last EDR Contact: 10/02/2019
Next Scheduled EDR Contact: 01/27/2020
Data Release Frequency: Varies

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 06/24/2019
Date Data Arrived at EDR: 06/26/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 113

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 10/28/2019
Next Scheduled EDR Contact: 01/06/2020
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 05/15/2019
Date Data Arrived at EDR: 05/21/2019
Date Made Active in Reports: 08/08/2019
Number of Days to Update: 79

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 08/23/2019
Next Scheduled EDR Contact: 12/02/2019
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 10/11/2019
Next Scheduled EDR Contact: 01/20/2020
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 10/07/2019
Next Scheduled EDR Contact: 01/20/2020
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 11/11/2019
Next Scheduled EDR Contact: 02/24/2020
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 06/24/2019
Date Data Arrived at EDR: 06/26/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 89

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 09/24/2019
Next Scheduled EDR Contact: 01/06/2020
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 10/31/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 11/08/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/21/2017
Date Made Active in Reports: 01/05/2018
Number of Days to Update: 198

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 09/19/2019
Next Scheduled EDR Contact: 12/30/2019
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 01/10/2018
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 2

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 08/23/2019
Next Scheduled EDR Contact: 12/02/2019
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 09/30/2018
Date Data Arrived at EDR: 04/24/2019
Date Made Active in Reports: 08/08/2019
Number of Days to Update: 106

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 10/23/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 07/19/2019
Date Data Arrived at EDR: 07/30/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 35

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 11/07/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 04/25/2019
Date Data Arrived at EDR: 05/02/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 10/21/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 08/20/2019
Date Data Arrived at EDR: 09/05/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 18

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 11/07/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 03/20/2019
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 34

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 10/11/2019
Next Scheduled EDR Contact: 01/20/2020
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 10/07/2019
Next Scheduled EDR Contact: 01/20/2020
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 06/20/2019
Date Data Arrived at EDR: 06/20/2019
Date Made Active in Reports: 08/08/2019
Number of Days to Update: 49
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 10/25/2019
Next Scheduled EDR Contact: 02/03/2020
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 11/06/2019
Next Scheduled EDR Contact: 12/16/2019
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 09/03/2019
Next Scheduled EDR Contact: 12/16/2019
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 05/24/2017
Date Data Arrived at EDR: 11/30/2017
Date Made Active in Reports: 12/15/2017
Number of Days to Update: 15
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 11/06/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Varies

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 11/12/2019
Next Scheduled EDR Contact: 01/13/2020
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/31/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 85

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 10/29/2019
Next Scheduled EDR Contact: 02/10/2020
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 06/30/2019
Date Data Arrived at EDR: 07/16/2019
Date Made Active in Reports: 10/02/2019
Number of Days to Update: 78

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 10/02/2019
Next Scheduled EDR Contact: 01/20/2020
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 09/28/2017
Number of Days to Update: 218
Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 09/16/2019
Next Scheduled EDR Contact: 01/06/2020
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546
Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 10/06/2019
Next Scheduled EDR Contact: 01/19/2020
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3
Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 11/04/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/01/2019
Date Data Arrived at EDR: 08/21/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 82
Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 08/21/2019
Next Scheduled EDR Contact: 12/02/2019
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 07/19/2019
Date Data Arrived at EDR: 07/30/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 35
Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 11/07/2019
Next Scheduled EDR Contact: 01/13/2020
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 07/19/2019
Date Data Arrived at EDR: 07/30/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 35
Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 11/07/2019
Next Scheduled EDR Contact: 01/13/2020
Data Release Frequency: Varies

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem

Date of Government Version: 10/27/2009
Date Data Arrived at EDR: 11/10/2009
Date Made Active in Reports: 12/08/2009
Number of Days to Update: 28
Source: N/A
Telephone: N/A
Last EDR Contact: 11/12/1996
Next Scheduled EDR Contact: N/A
Data Release Frequency: Annually

US AIRS MINOR: Aerometric Information Retrieval System Facility Subsystem

Date of Government Version: 10/27/2009
Date Data Arrived at EDR: 11/10/2009
Date Made Active in Reports: 12/08/2009
Number of Days to Update: 28

Source: N/A
Telephone: N/A
Last EDR Contact: 11/12/1996
Next Scheduled EDR Contact: N/A
Data Release Frequency: Annually

US MINES: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 08/30/2019
Next Scheduled EDR Contact: 12/09/2019
Data Release Frequency: Varies

MINES VIOLATIONS: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 08/30/2019
Next Scheduled EDR Contact: 12/09/2019
Data Release Frequency: Varies

US MINES 2: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 08/30/2019
Next Scheduled EDR Contact: 12/09/2019
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 08/30/2019
Next Scheduled EDR Contact: 12/09/2019
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 09/10/2019
Date Data Arrived at EDR: 09/10/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 37

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 09/10/2019
Next Scheduled EDR Contact: 12/23/2019
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 05/03/2019
Date Data Arrived at EDR: 06/05/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 90

Source: EPA
Telephone: (404) 562-9900
Last EDR Contact: 09/04/2019
Next Scheduled EDR Contact: 12/16/2019
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 01/17/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 74

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 10/10/2019
Next Scheduled EDR Contact: 01/27/2020
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 07/06/2019
Date Data Arrived at EDR: 07/09/2019
Date Made Active in Reports: 10/02/2019
Number of Days to Update: 85

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 10/08/2019
Next Scheduled EDR Contact: 01/20/2020
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 07/26/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 71

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 08/21/2019
Next Scheduled EDR Contact: 12/09/2019
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 08/19/2019
Date Data Arrived at EDR: 08/20/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 83

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 08/20/2019
Next Scheduled EDR Contact: 12/02/2019
Data Release Frequency: Quarterly

Other Ascertainable Records

KY AIRS: Permitted Airs Facility Listing

A listing of permitted Airs facilities.

Date of Government Version: 08/26/2019
Date Data Arrived at EDR: 08/28/2019
Date Made Active in Reports: 11/07/2019
Number of Days to Update: 71

Source: Department of Environmental Protection
Telephone: 502-573-3382
Last EDR Contact: 10/28/2019
Next Scheduled EDR Contact: 02/10/2020
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

KY ASBESTOS: Asbestos Notification Listing
Asbestos sites

Date of Government Version: 06/28/2019
Date Data Arrived at EDR: 06/28/2019
Date Made Active in Reports: 08/26/2019
Number of Days to Update: 59

Source: Department of Environmental Protection
Telephone: 502-782-6780
Last EDR Contact: 09/03/2019
Next Scheduled EDR Contact: 12/16/2019
Data Release Frequency: Varies

KY COAL ASH: Coal Ash Disposal Sites
A listing of coal ash pond site locations.

Date of Government Version: 02/27/2019
Date Data Arrived at EDR: 02/28/2019
Date Made Active in Reports: 05/03/2019
Number of Days to Update: 64

Source: Department of Environmental Protection
Telephone: 502-564-6716
Last EDR Contact: 10/28/2019
Next Scheduled EDR Contact: 02/10/2020
Data Release Frequency: No Update Planned

KY DRYCLEANERS: Drycleaner Listing
A listing of drycleaner facility locations.

Date of Government Version: 08/26/2019
Date Data Arrived at EDR: 08/28/2019
Date Made Active in Reports: 11/07/2019
Number of Days to Update: 71

Source: Department of Environmental Protection
Telephone: 502-573-3382
Last EDR Contact: 10/28/2019
Next Scheduled EDR Contact: 02/10/2020
Data Release Frequency: Semi-Annually

KY Financial Assurance 1: Financial Assurance Information Listing
A listing of financial assurance information.

Date of Government Version: 09/05/2019
Date Data Arrived at EDR: 09/06/2019
Date Made Active in Reports: 10/22/2019
Number of Days to Update: 46

Source: Department of Environmental Protection
Telephone: 502-564-6716
Last EDR Contact: 10/28/2019
Next Scheduled EDR Contact: 02/10/2020
Data Release Frequency: Varies

KY Financial Assurance 2: Financial Assurance Information Listing
Financial Assurance information for underground storage tank facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 05/14/2014
Date Data Arrived at EDR: 06/06/2014
Date Made Active in Reports: 06/24/2014
Number of Days to Update: 18

Source: Department of Environmental Protection
Telephone: 502-564-5981
Last EDR Contact: 10/28/2019
Next Scheduled EDR Contact: 02/10/2020
Data Release Frequency: Varies

KY Financial Assurance 3: Financial Assurance Information Listing
A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 09/05/2019
Date Data Arrived at EDR: 09/06/2019
Date Made Active in Reports: 10/22/2019
Number of Days to Update: 46

Source: Department of Environmental Protection
Telephone: 502-564-6716
Last EDR Contact: 10/28/2019
Next Scheduled EDR Contact: 02/10/2020
Data Release Frequency: Varies

KY LEAD: Environmental Lead Program Report Tracking Database
Lead Report Tracking Database

Date of Government Version: 01/27/2017
Date Data Arrived at EDR: 02/02/2017
Date Made Active in Reports: 08/21/2017
Number of Days to Update: 200

Source: Department of Public Health
Telephone: 502-564-4537
Last EDR Contact: 10/31/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Varies

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 05/01/2019
Date Made Active in Reports: 06/21/2019
Number of Days to Update: 51

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 10/29/2019
Next Scheduled EDR Contact: 02/10/2020
Data Release Frequency: Quarterly

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 10/02/2019
Next Scheduled EDR Contact: 01/20/2020
Data Release Frequency: Annually

KY NPDES: Permitted Facility Listing

A listing of permitted wastewater facilities.

Date of Government Version: 09/04/2019
Date Data Arrived at EDR: 09/06/2019
Date Made Active in Reports: 10/22/2019
Number of Days to Update: 46

Source: Department of Environmental Protection
Telephone: 502-564-3410
Last EDR Contact: 11/04/2019
Next Scheduled EDR Contact: 02/17/2020
Data Release Frequency: Semi-Annually

KY UIC: UIC Information

A listing of wells identified as underground injection wells, in the Kentucky Oil & Gas Wells data base.

Date of Government Version: 03/27/2019
Date Data Arrived at EDR: 04/16/2019
Date Made Active in Reports: 05/03/2019
Number of Days to Update: 17

Source: Kentucky Geological Survey
Telephone: 859-323-0544
Last EDR Contact: 10/16/2019
Next Scheduled EDR Contact: 01/27/2020
Data Release Frequency: Quarterly

MINES MRDS: Mineral Resources Data System

Mineral Resources Data System

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 10/21/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 3

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 08/30/2019
Next Scheduled EDR Contact: 12/09/2019
Data Release Frequency: Varies

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

KY RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/03/2014
Number of Days to Update: 186

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

KY RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/15/2014
Number of Days to Update: 198

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

Oil/Gas Pipelines
Source: PennWell Corporation
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data
Source: PennWell Corporation
This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Certified Child Care Homes
Source: Cabinet for Families & Children
Telephone: 502-564-7130

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Environmental & Public Protection Cabinet
Telephone: 502-564-6736

STREET AND ADDRESS INFORMATION

© 2015 TomTom North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.



Appendix B

I-71 / I-264 Interchange Initial Concepts Report

March 2021

I-71 / I-264 Interchange Initial Concepts

I-71 / I-264 Interchange Study
Item No: 5-557.00

KYTC District 5 - Jefferson County

January 21, 2020

Contents

1 Study Area and Study Goals 1
2 Concept Development Charette 5
2.1 Background & Process 5
2.2 Concept Bombardier-A: 5 Bridges, 2 Levels, C-D Road 5
2.3 Concept Bombardier-B: 3 Bridges, 2 Levels, C-D Road 7
2.4 Concept Bombardier-C: Braid WB-NB and EB-NB 9
2.5 Concept Hume-A: 2 New Bridges, 3 Levels, No-CD Road 10
2.6 Concept Kinzel-A: 3 New Bridges, 2 Levels, Turbine-Like 12
2.7 Other Low-Cost Improvement Ideas 14
3 Post-Charette Concept Development 18
3.1 Concept Davis-A: 3 Bridges, 2 Levels 19
3.2 Concept Matheny-A: 3 Bridges, 3 Levels, Turbine-Like, I-71 Near Existing Alignment 20
3.3 Concept Matheny-B: 3 Bridges, 2 Levels, Turbine-Like, I-71 Off Existing Alignment 21

Figures

Figure 1: US-42 / I-264 Planned Improvements 1
Figure 2: Interchange Daily Speed Profiles (Source: Google Maps API) 2
Figure 3: Peak-Hour Traffic Volumes Provided by KYTC 3
Figure 4: Concept Bombardier-A 6
Figure 5: Concept Bombardier-B 8
Figure 6: Concept Bombardier-C 9
Figure 7: Concept Hume-A 11
Figure 8: Concept Kinzel-A 13
Figure 9: Concept Davis-A 19
Figure 10: Concept Matheny-A 20
Figure 11: Concept Matheny-B 21

1 Study Area and Study Goals

The purpose of this report is to document the development of concepts for the I-71/I-264 system interchange and its approaches and departures prior to initiation of the Interchange Planning Study. Although the interchange is the focus of this document, the analysis is part of a larger total project covering I-71 from Zorn Ave to I-265.

It is important to note that concepts developed for this interchange must tie into an improvement project under development for the US-42 and I-264 interchange, as shown in **Figure 1**. This project is currently slated for right-of-way acquisition within the next couple of years. Concept development work must assume that these improvements will be in place at time of any future I-71/I-264 reconstruction.

Figure 1: US-42 / I-264 Planned Improvements



The I-71/I-264 interchange currently experiences congestion during peak periods in various parts of the interchange, as illustrated by the speed profiles in **Figure 2**. Currently, eastbound I-264 queues through US-42 to the Westport Road area during the PM peak hour, an issue that appears to be caused by both the weave on I-264 between US-42 and I-71, and the merge between I-264 eastbound and I-71 northbound. The merge also impacts northbound I-71, creating delays that extend back toward downtown. Congestion is much less pronounced during the AM peak. Southbound AM congestion is noted further west towards Zorn Avenue, but is primarily related to traffic issues outside the project area.

Reliability is also an important component of the analysis. Traffic crashes and incidents within the study area typically result in significant congestion and queueing. Northbound I-71 has no exits for several miles in both directions of the I-264 interchange, allowing very little “escape hatch” for severe congestion or traffic incidents.

The existing and forecasted traffic volumes provided by KYTC shown in **Figure 3** were considered during the development of concepts.

Figure 2: Interchange Daily Speed Profiles (Source: Google Maps API)

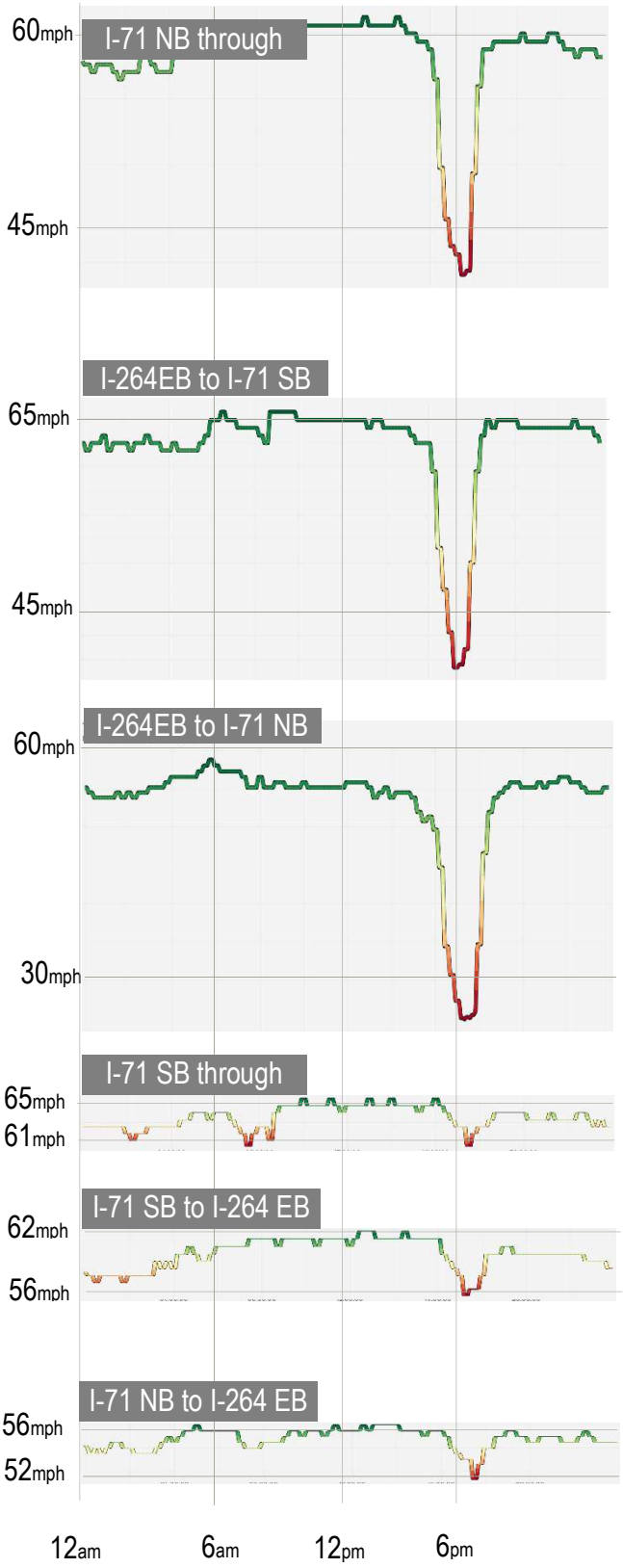
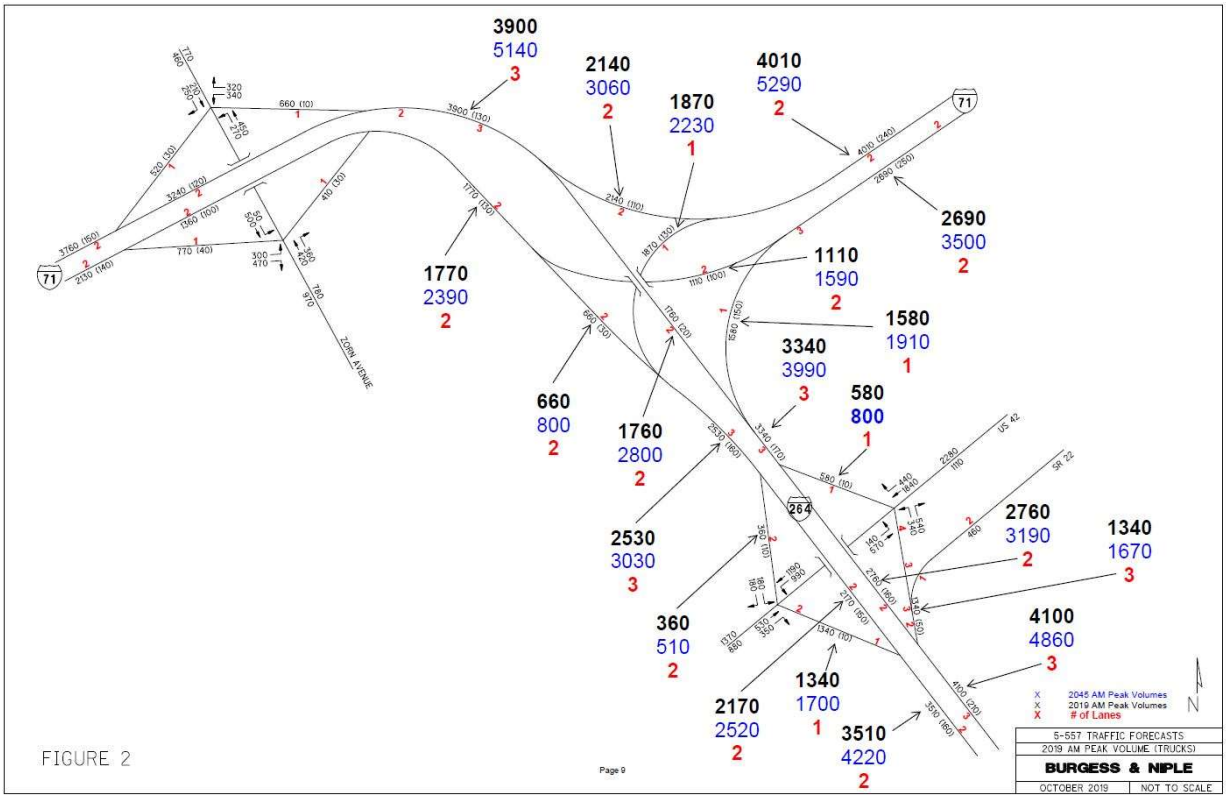
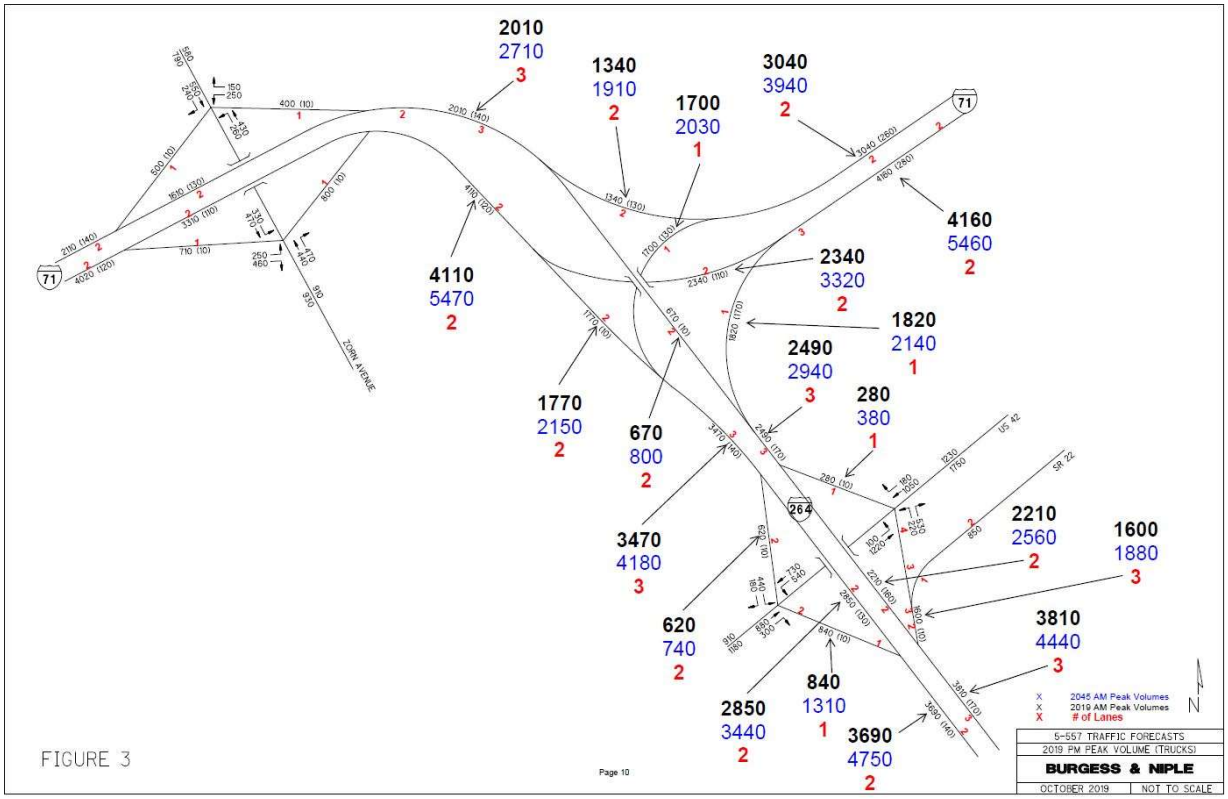


Figure 3: Peak-Hour Traffic Volumes Provided by KYTC





Purpose and Need: The project team has framed a draft purpose and need summary for the project, as follows:

Currently, the interchange cannot accommodate peak traffic volumes due to the limited number of lanes and driver tendencies. Traffic delay and congestion in the area will become more significant with volumes that are projected to increase in the next five years. The primary need is to implement interchange improvements to better accommodate future peak traffic volumes with respect to the widening of I-71.

Although safety is a secondary need for this project, issues with horizontal sight distance, weaving, and driver confusion should be addressed if possible. Without access points along I-71 between I-264 and I-265, crashes within the interchange can cause very significant delay, so in addition to protecting drivers, safety enhancements will reduce emergency traffic flow operations.

Safety: Although safety has not been identified as the primary focus of the study, it should be factored into concept development and refinement. Five fatal crashes have been reported within the interchange study area during the past five years. Some of these fatal crashes occurred along northbound I-71 approaching the I-264 diverge, and were sideswipe crashes in which lane indecision appears to have been a factor. (Sideswipe crashes have occurred at all of the interchange's diverge points.) The interchange also experiences many single-vehicle crashes, especially on northbound I-71 as it curves through the interchange. Sight distance issues have been noted on this curve due to the narrow rock cut. Rear-end crashes are concentrated at the weave and merge areas, and most of the reported PM peak-hour crashes occur in the complex weave areas. In general, crashes are heavier during the PM peak hour, which can be at least partially attributed to heavier traffic volumes and congestion.

Environmental: It is prudent to be aware of environmental issues that may pose constraints to increasing the interchange footprint.

- *Historic:* Most of the known historic areas/properties in the study area are south of the interchange area, but there may be some historic properties in the northeast quadrant.
- *Noise:* The US-42 improvement project has proposed noise walls in the southeast quadrant of the interchange. Many of the adjacent neighborhoods may request noise walls when interchange improvements are proposed.
- *Streams:* On the west side of the interchange, there is a stream that may require remediation or relocation if it is impacted by improvements. There is also an MSD pump station near the stream, and MSD recently completed a federally funded improvement of this stream area.

Typical Sections: Some advance work has been completed prior to the concept development charette (described in Section 2 of this report) regarding proposed typical sections on the interstate mainlines. The proposed typical sections were designed to fit within existing right-of-way, and to maintain and re-use as much existing pavement as possible. It has been determined that the existing rock cuts through the project corridor are in good shape and do not need improvement. KYTC noted that narrow grass medians should be avoided as they are difficult to mow, resulting in increased maintenance costs. Narrow inside shoulders adjacent to barrier walls are also not preferred, as they are difficult to maintain without having to close the "fast lane" of traffic.

2 Concept Development Charette

2.1 Background & Process

A concept design charette was held on October 31, 2019. Attendees included KYTC staff as well as members of the consultant team. The purpose of the charette was to brainstorm initial improvement concepts, which are intended to be distilled to a priority list of ideas to be investigated during the planning study.

As part of the charette "ground rules", KYTC explained that this planning project is being conducted as part of a larger Preliminary Line and Grade (PL&G) effort for I-71. Although the improvements for I-71 have not yet been fully identified, KYTC would like to have the I-71/I-264 interchange improvements constructed with the I-71 project, if possible. It is possible such improvements could receive funding during the next biennium. However, a complete rebuild of the interchange would be very expensive, and KYTC would like to identify small or medium-sized interchange improvements that could be accomplished either at the same time as the I-71 improvements or in phases. These improvements must be constructible and affordable; minimal right-of-way impacts are desired. The improvements need to primarily focus on operations and safety considerations.

The charette attendees split into two groups for the brainstorming effort, and then came back together to share the concepts that each team had developed. The remainder of this memo describes the results of the brainstorming.

2.2 Concept Bombardier-A: 5 Bridges, 2 Levels, C-D Road

This concept requires reconstruction of a majority of the interchange and also addresses the weave with the adjacent US-42 interchange. See **Figure 4**.

- I-71 NB through: Relocated out of its current "trench", making it parallel to the I-71 southbound through movement and improving its radius. Improvement will also significantly improve sight distance at this location.

- I-71 SB through: Pulled slightly "into" the interchange to facilitate a southbound-to-westbound right-hand-exit flyover.

- I-71 SB to I-264 WB: Converted to a right-hand exit, flying over I-71 (both directions), under EB I-264, and over WB I-264. Includes right-hand exit to westbound C-D road.

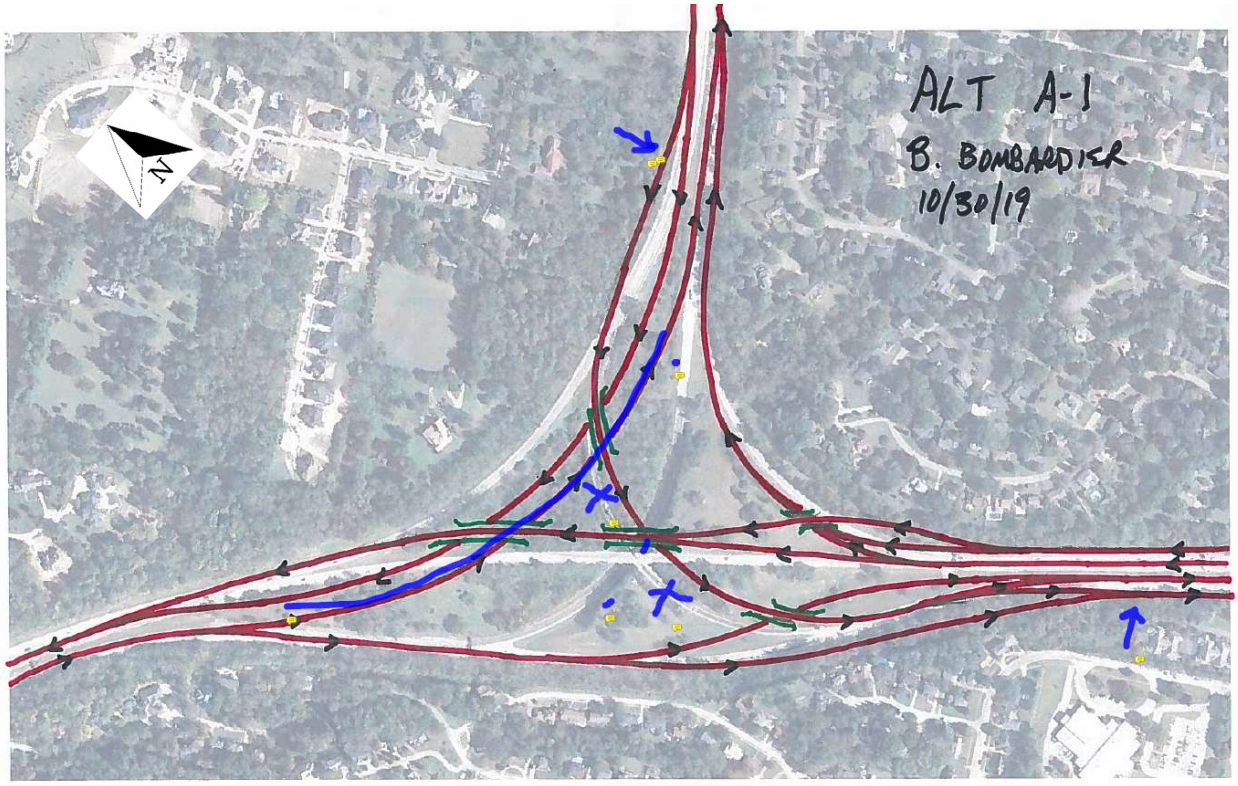
- I-264 EB through: Through the middle of the interchange, shifted slightly east of its current alignment.

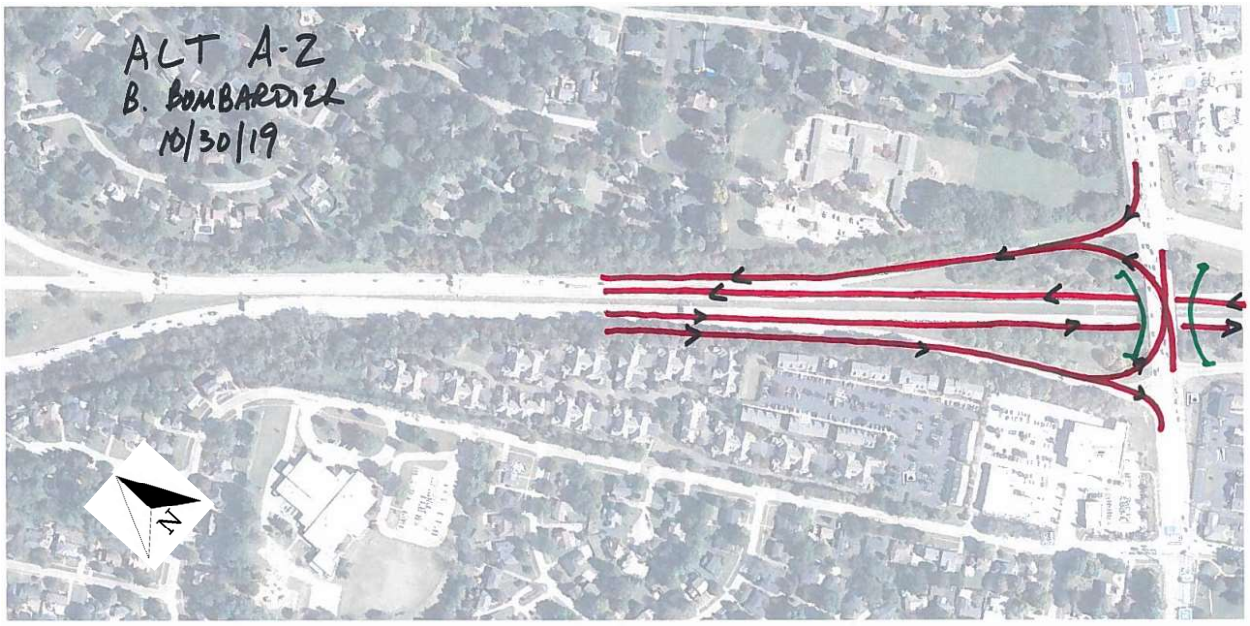
- I-264 WB through: Coming out of the interchange, shifted east of its current alignment to make room for westbound C-D road and connections.

- I-264 EB weave: Replaced by a C-D road flying over the ramp from I-264 EB to I-71 NB. WB-to-EB turnaround included at I-264/US-42 interchange.

- I-264 WB weave: Replaced by a C-D road on the outside of the interchange. WB-to-EB turnaround included at I-264/US-42 interchange.

Figure 4: Concept Bombardier-A





2.3 Concept Bombardier-B: 3 Bridges, 2 Levels, C-D Road

This concept also requires reconstruction of a majority of the interchange and also addresses the weave with the adjacent US-42 interchange. See **Figure 5**.

- I-71 NB through: Remains in the vicinity of its current "trench", staying generally on its existing alignment. Would likely require additional rock excavation to improve sight distance at this location.

- I-71 SB through: Pulled "into" the interchange adjacent to I-71 NB parallel to the NB alignment. Includes right-hand exit to C-D road.

- I-71 SB to I-264 WB: Converted to a right-hand exit, flying over I-71 (both directions) and under I-264 (both directions).

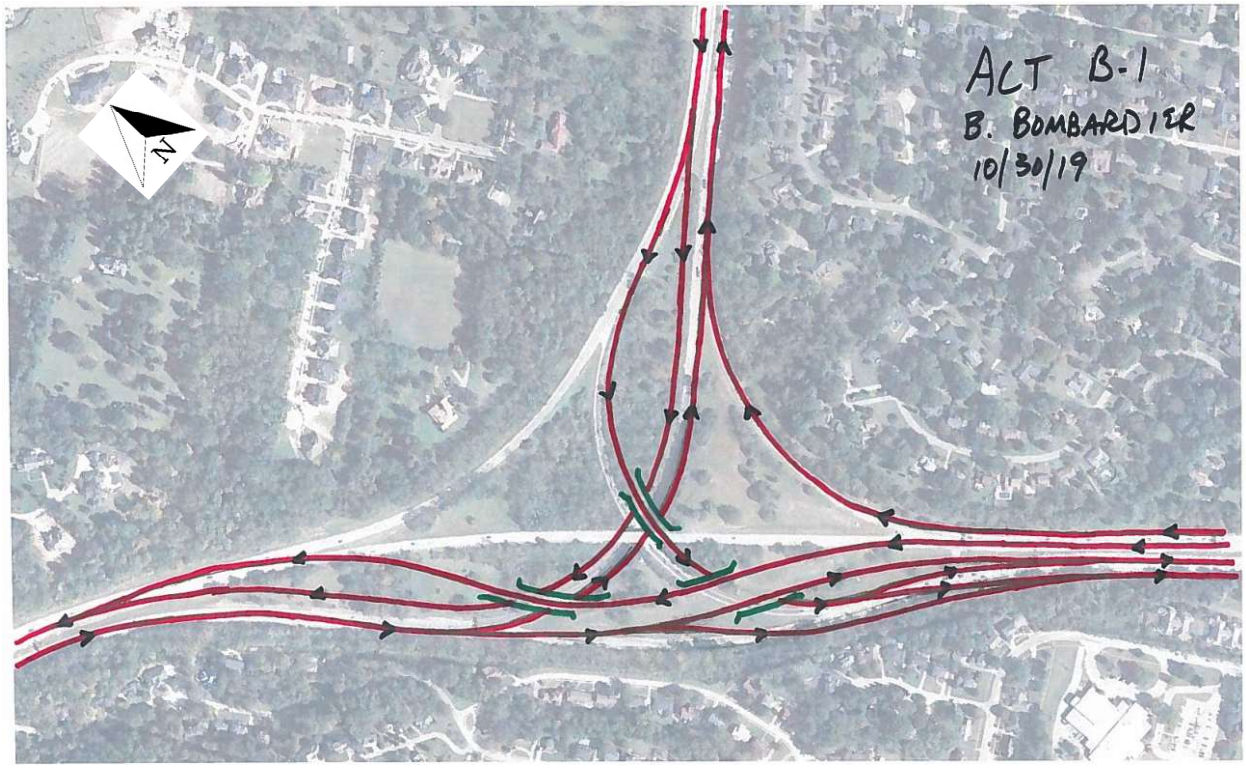
- I-264 EB through: Through the middle of the interchange, deviates significantly west of its current alignment to avoid creating a three-level interchange.

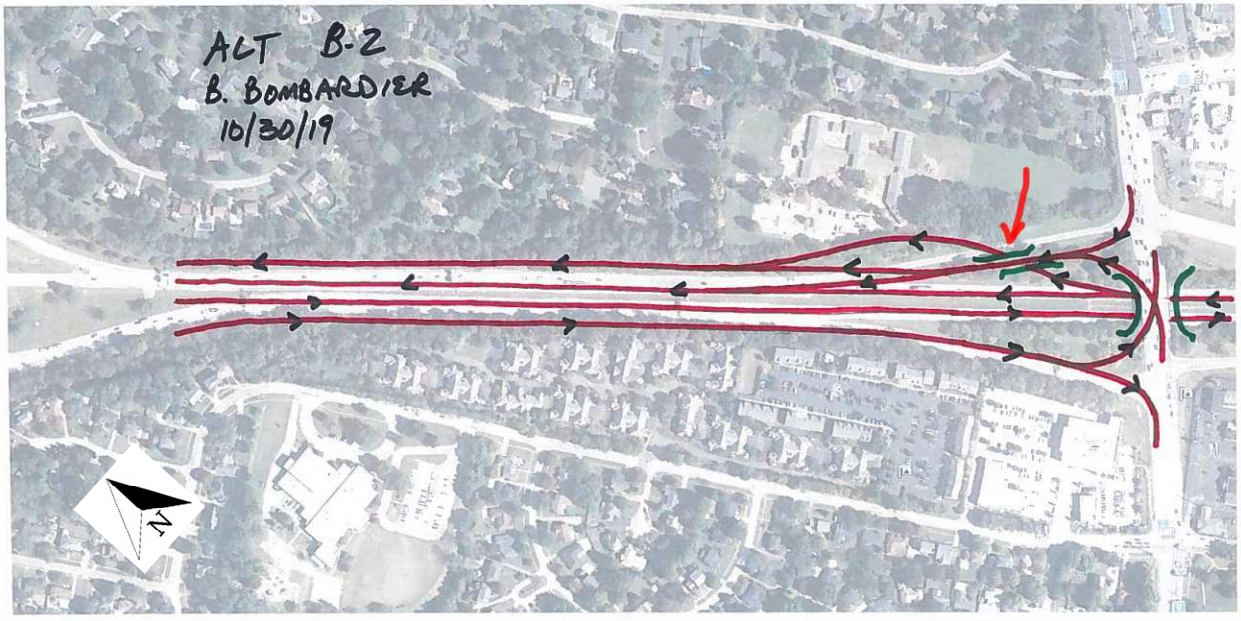
- I-264 WB through: Coming out of the interchange, shifted north of its current alignment to make room for westbound C-D road and connections.

- I-264 EB weave: Replaced by a C-D road with an early exit in the middle of the US-42 interchange. WB-to-EB turnaround included at I-264/US-42 interchange.

- I-264 WB weave: Replaced by a C-D road on the outside of the interchange. WB-to-EB turnaround included at I-264/US-42 interchange.

Figure 5: Concept Bombardier-B



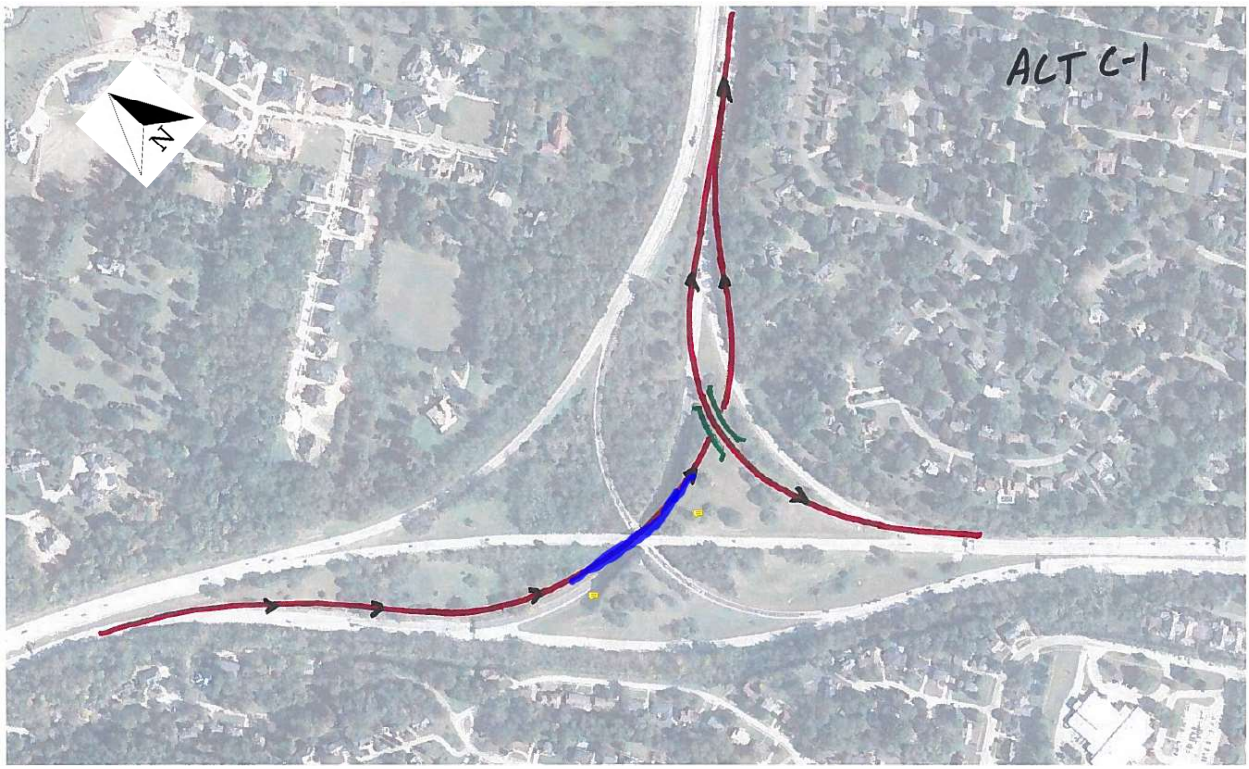


2.4 Concept Bombardier-C: Braid WB-NB and EB-NB

This concept focuses specifically on the merge between the I-71 NB through movement and the I-264 EB-to-NB ramp. It makes the I-71 move a right-hand merge by grade-separating and bringing it over the I-264 EB-to-NB ramp. See **Figure 6**.

A related idea to improve the operations and safety of this merge, suggested during the charette, would be to push the existing gore further to the east and provide an area that would be perceived and function as a separate roadway, to allow for vehicles to accelerate before merging.

Figure 6: Concept Bombardier-C



2.5 Concept Hume-A: 2 New Bridges, 3 Levels, No-CD Road

This concept focuses on the full interchange but doesn't apply any special design considerations to address the weave with the adjacent US-42 interchange (to avoid the cost of braided ramps and right-of-way impacts) beyond lane-balance considerations. Even though this concept eliminates the "trench", the two structures stacked above it would remain, so technically the interchange could be considered to have 3 levels. See **Figure 7**.

- I-71 NB through: Moves north of its current "trench", more parallel to I-71 SB through, to help improve sight distance. Due to the topography, this relocation may not require as much rock excavation as the existing "trench".

- I-71 SB through: Remains roughly along existing alignment. Includes left-hand exit to EB I-264 similar to existing conditions.

- I-71 SB to I-264 WB: Remains on existing alignment; treated as a left-hand exit with left-hand merge.

- I-264 EB through: Leaving the interchange, the alignment deviates slightly east to maximize flyover development length for I-71 NB through.

- I-264 WB through: Uses existing alignment.

- I-264 EB weave: Having an option lane at the exit to I-71 EB may improve the weave.

- I-264 WB weave: No major changes.

Figure 7: Concept Hume-A



2.6 Concept Kinzel-A: 3 New Bridges, 2 Levels, Turbine-Like

This concept focuses on the full interchange but doesn't address the weave with the adjacent US-42 interchange. The turbine-like concept allows replacement of the existing three-level structures with individual bridges. Elements of other concepts could be added to this concept to address the weave issues. See **Figure 8**.

- I-71 NB through: Moves south of its current "trench" with a wider radius.
- I-71 SB through: Remains roughly along existing alignment; includes left-hand exit to WB I-264.
- I-71 SB to I-264 WB: Ramp moves west and south of its current alignment to facilitate a turbine-like design.
- I-264 EB through: Through the interchange, the alignment deviates significantly east to facilitate turbine-like ramp layouts.
- I-264 WB through: Essentially uses existing alignment, but is emphasized more as a right-hand exit.
- I-264 EB weave: Not addressed, but could be combined with elements of other concepts.
- I-264 WB weave: Not addressed, but could be combined with elements of other concepts.

Examples of other Turbine "T" interchanges are shown below.



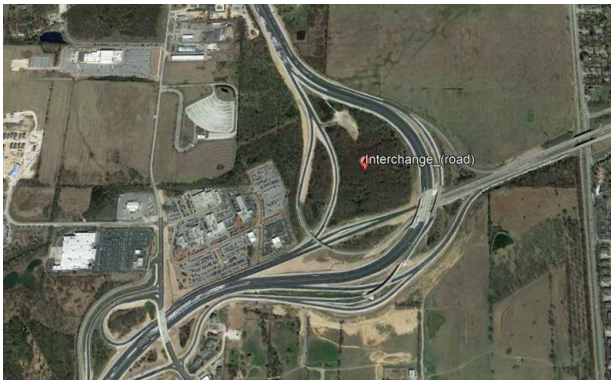


Figure 8: Concept Kinzel-A



2.7 Other Low-Cost Improvement Ideas

Charette participants identified other improvements, smaller in scale, which might be implementable as “quick fixes” to address spot improvement needs

Moderate Cost, Medium-Term

Extend 3rd I-71 northbound lane under Lime Kiln Lane Bridge: The addition of this lane (see illustration below) would lengthen the merge distance, improving safety and capacity.



Median barrier gates for reliability: Providing emergency access across a median can improve emergency response – or even provide worst-case crossover capabilities – especially on long stretches of highway without access, such as the segment of I-71 between I-264 and I-265.



Low Cost, Short-Term

Lane Tattoos: Also known as elongated route shield pavement markings, these painted shields can help motorists better understand lane assignments, reducing the need for last-minute weaves. (See example below.) This treatment could be especially applicable at the diverge of northbound I-71 and eastbound I-264, in addition to the signing described below.



Guide Signing: Workshop participants suggested that signing improvements at the diverge described above could also aid driver understanding and improve the safety of the diverge area. The diverge currently includes three guide signs – two in advance and one at the diverge – as shown in the photos at right. One point of confusion that may arise from this signing configuration relates to the third lane that is added to I-71 approximately 900-1000 feet in advance of the diverge movement (between Signs 2 and 3). Sign 1 is diagrammatic and shows that the third lane will be added, but this subtlety is probably lost on many drivers traveling at freeway speeds. Sign 2 does not supply the information that a third lane will be added, and also implies that drivers in the right lane must change lanes to stay on I-71 (which is not the case). Sign 3 does identify the correct lane usage for the lanes departing the interchange (the center of the three lanes becomes an option lane), but given the progression of guide signs, may be placed too late to allow enough time for motorists to process the information.

Existing Guide Signs

1 1 mi. in advance of diverge



2 1500' in advance of diverge



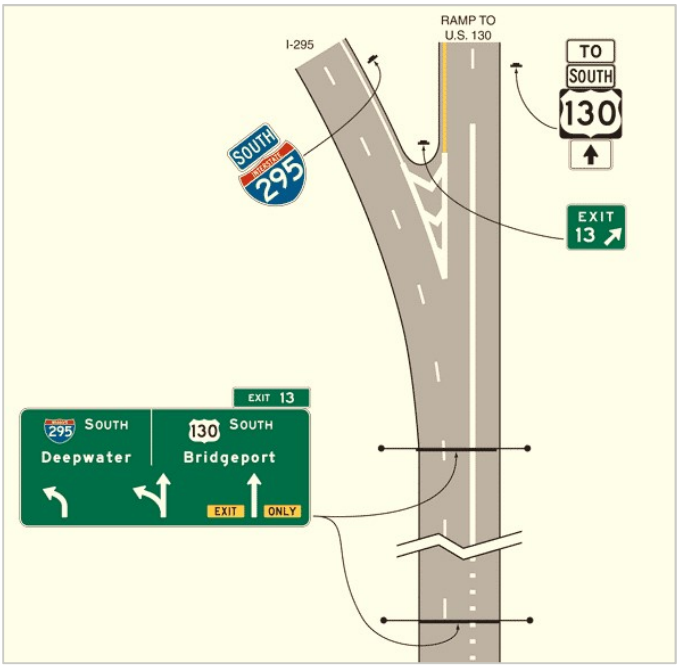
3 At diverge



The aerial photo below depicts the relationship between Sign 2, the added third lane, and Sign 3.



A clearer signing approach is likely possible. The image at right is a portion of MUTCD Figure 2E-5, and shows signing for a similar situation. To achieve this configuration, Sign 2 would need to move closer to the interchange, to the place where the third lane opens up. Potentially, Sign 1 could be converted from a diagrammatic sign to an arrow-per-lane sign indicating that motorists could eventually access both I-71 and I-264 from the outside lane, but only I-71 from the inside lane. This is not the only solution possible; the optimum configuration would need to be explored further as the project progresses.



Tree Clearing: In some areas of the interchange – most notably the curve on US-71 northbound through the interchange (see image at right) – existing foliage partially obscures sight lines around the corner, increasing the potential for rear-end collisions with stopped traffic. Trimming or clearing some of these trees could improve visibility.



Dynamic Congestion Warning Signs: Another solution that could aid drivers in anticipating congestion through the aforementioned curve would be dynamic or blank-out signing triggered by queue or congestion detection. Two examples are shown below (dynamic congestion sign at left, blank-out sign at right).





Barrier and Shoulders through Rock Cut: Workshop participants also suggested additional shoulder protection along the aforementioned curve on I-71. As the below left photo shows, the right shoulder through the cut section is somewhat narrow and drops off into a ditch. Widening the shoulder, and adding a barrier (for example, a concrete barrier as shown in the below right photo) would provide more of a safety cushion.





Gore Extension: Where I-264 eastbound-to-northbound merges with I-71, workshop participants felt that extending the gore (and encouraging the merge further downstream) would provide drivers more time to plan and execute a safe merge maneuver. This could be accomplished with various forms of striping (double white lines, emphasized chevrons, etc.) or even delineation, somewhat like the example below (albeit over a shorter distance).





3 Post-Charette Concept Development

Charette attendees and others were encouraged to continue to develop design ideas in the days and weeks following the charette. During this time period, KYTC staff developed three layouts to consider for the ultimate design. Consistent throughout all the three alternatives are the following design modifications:

- Widening one-lane ramps to two lanes per direction to account for traffic volumes.
- Adding a slip ramp from I-71 NB along existing pavement to eliminate weaving on I-264 towards US-42.
- Creating right-hand exits for vehicle divergence between interstates, to address driver comfort/expectation.
- Extending I-264/I-71 NB merge location for driver behavior (to prohibit premature merge).
- Eliminating tri-level bridge/"trench".
- Increasing horizontal sight distance along curves, for safety.

3.1 Concept Davis-A: 3 Bridges, 2 Levels

This concept (see **Figure 9**) was developed to create simple, continuous flow using partial flyover ramps and large radii for the horizontal curves. This allows for fluid movement, but consequently may encourage higher speeds through the interchange – which could pose an issue for drivers from I-71 SB entering a more urban area.

This concept moves the structure locations to the outskirts of the interchange, allowing more grade flexibility between bridges.

- I-71 NB through: Pulled out of the middle of the interchange, moved parallel to the SB through alignment.
- I-71 SB through: Pulled slightly “into” the interchange adjacent to I-71 NB to facilitate proposed right-hand exit ramp to I-264; parallels NB alignment throughout the interchange.
- I-71 SB to I-264 WB: Converted to a right-hand exit upstream of current left-hand exit location, flying over I-71 (both directions) and I-264 (both directions).
- I-264 EB through: Remains essentially on existing alignment.
- I-264 WB through: The concept appears to provide a redundant movement. The main WB through lanes are shifted north “into” the interchange, adjacent to the WB lanes. However, the existing diverge point from I-71 also remains and a connector is retained along the existing I-264 alignment, perhaps to become a “trap” exit at US-42.
- I-264 EB weave: Facilitated with a two-lane exit (one lane fed by an option lane) at I-71 preceded by four mainline lanes.
- I-264 WB weave: Presumably enhanced by the presence of five mainline lanes departing the interchange.

Figure 9: Concept Davis-A

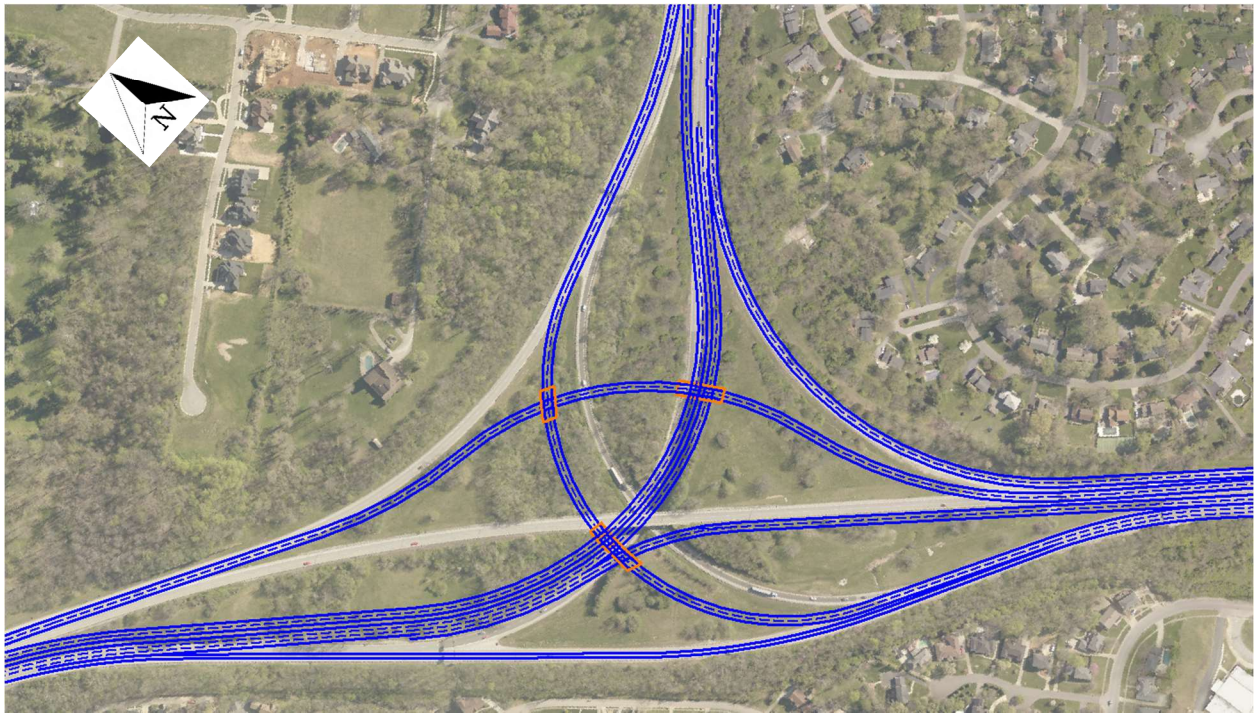


3.2 Concept Matheny-A: 3 Bridges, 3 Levels, Turbine-Like, I-71 Near Existing Alignment

This concept (see **Figure 10**) pulls both directions of I-71 together in order to perceptually maintain I-71 as the main through movement in the interchange. The concept creates three levels of roadway elevation due to bridge proximity (although not as much as Matheny-B).

- I-71 NB through: Remains roughly on existing alignment.
- I-71 SB through: Pulled "deep into" the interchange adjacent to I-71 NB; parallels NB as one continuous cross-section throughout the interchange.
- I-71 SB to I-264 WB: Converted to a right-hand exit upstream of current left-hand exit location, flying over I-71 (both directions) and I-264 (both directions).
- I-264 EB through: Through the middle of the interchange, shifted significantly north to facilitate turbine-type ramps and connections.
- I-264 WB through: The concept appears to provide a redundant movement. The main WB through lanes are shifted east "into" the interchange, not diverging from I-71 until passing under the SB-to-EB flyover. However, the existing diverge point from I-71 also remains and a connector is retained along the existing I-264 alignment, perhaps to become a "trap" exit at US-42.
- I-264 EB weave: Not completely clear how this would be addressed; concept doesn't show where and how the two exit lanes would diverge from the two mainline through lanes, and how that would interact with the US-42 interchange.
- I-264 WB weave: Presumably enhanced by the presence of five mainline lanes departing the interchange, but the concept doesn't illustrate how the movements would work.

Figure 10: Concept Matheny-A

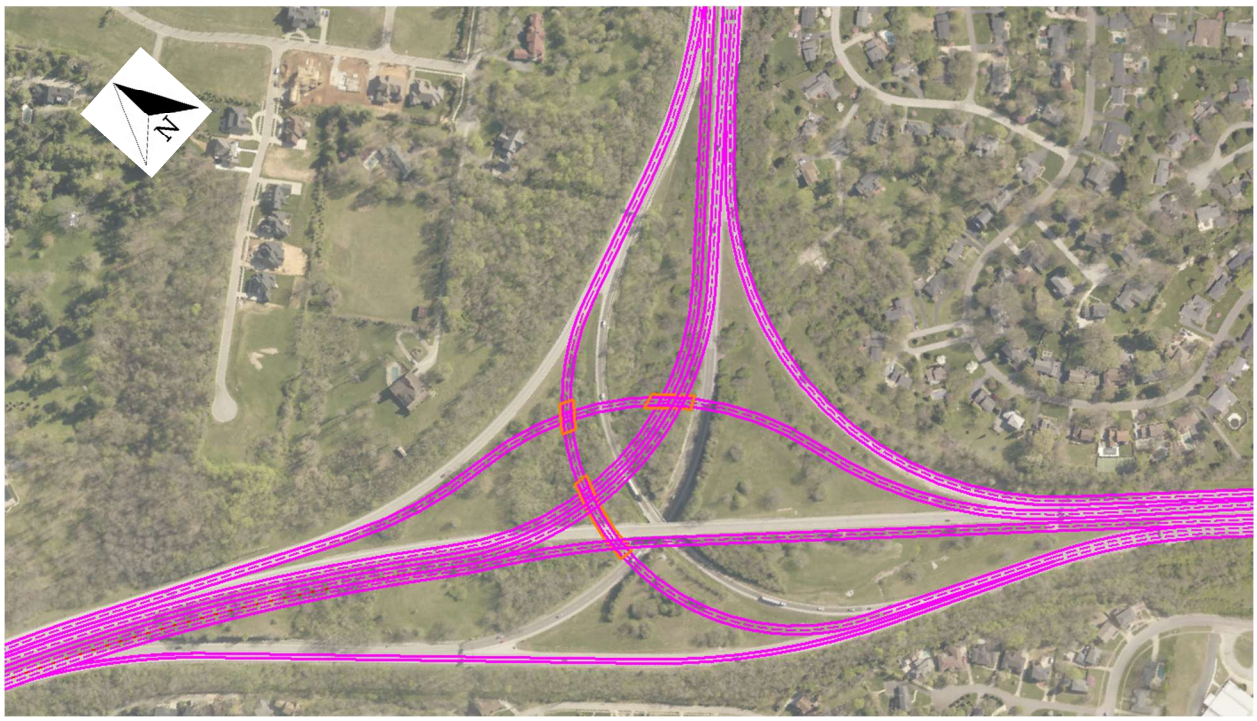


3.3 Concept Matheny-B: 3 Bridges, 2 Levels, Turbine-Like, I-71 Off Existing Alignment

Like Matheny-A, this concept (see **Figure 11**) pulls both directions of I-71 together in order to perceptually maintain I-71 as the main through movement in the interchange, and creates three levels of roadway elevation due to bridge proximity (more than Matheny-A).

- I-71 NB through: Shifted north of the existing alignment.
- I-71 SB through: Pulled “deep into” the interchange adjacent to I-71 NB; parallels NB as one continuous cross-section throughout the interchange.
- I-71 SB to I-264 WB: Converted to a right-hand exit upstream of current left-hand exit location, flying over I-71 and I-264. Southern structure is very long and curved.
- I-264 EB through: Through the middle of the interchange, shifted significantly north (Similar to Matheny-A) to facilitate turbine-type ramps and connections.
- I-264 WB through: As with Matheny-A, the concept appears to provide a redundant movement, with new diverging EB lanes and a retained existing diverge point from I-71, perhaps to become a “trap” exit at US-42.
- I-264 EB weave: As with Matheny-A, not completely clear how this would be addressed; concept doesn’t show where and how the two exit lanes would diverge from the two mainline through lanes, and how that would interact with the US-42 interchange.
- I-264 WB weave: As with Matheny-A, presumably enhanced by the presence of five mainline lanes departing the interchange, with more detail needed on how movements would work.

Figure 11: Concept Matheny-B



Appendix C

Charrette Meeting Minutes

Meeting Minutes (DRAFT)

Project:	Item No. 5-557 I-71 Improvements Zorn to I-265
Subject:	I-71/I-264 Interchange Design Charrette
Date:	Thursday, October 31, 2019
Location:	KYTC District 5 Office – Design / Traffic Conference Room

Attendees:

Pat Matheny	Jonathan West
Stephen DeWitte	Rob Frazier
Patrick Perry	David Lee
Beth Niemann	Jonathan Albers
Tracy Lovell	Adam Hedges
Kevin Bailey	Zheng Liu
Cody Davis	Jeff Schaefer
Brennan Niehoff	Steve Slade
	Anne Warnick

- Improvements to the I-71/I-264 interchange is a priority project for KYTC. It would not be a surprise for this project to get funding during the next biennium.
- The I-71/I-265 interchange will get improvements through a separate project.
- This planning project for interchange improvements is the first time in KYTC District 5 that a planning project has been done as a part of the PL&G development of adjacent roadway.
    - Currently the PL&G is not far enough along to know final proposed improvements to I-71.
- KYTC would like to be able to tag the interchange improvements along with the I-71 widening construction, if possible.
    - It was noted that total interchange rebuild would be very expensive but the widening improvements may be result in the anticipated operational improvements if the interchange is not improved.
    - KYTC would like to find small or intermediate interchange improvements that could be accomplished on a time frame similar to the widening.
- Rob Frazier noted that the goal of this meeting is to focus on ideas and concepts for interchange improvements

    - The ideas and concepts will then be distilled down to a priority list of ideas which will be investigated during the planning study.
- Study Area: The study area is the system interchange between I-71 and I-264.
    - The total project area is I-71 from Zorn Ave to I-265.
    - The interchange improvements will tie into the improvement project under development for the US-42 and I-264 interchange. This project is currently slated for ROW acquisition within the next couple of years.
        - All planning study analysis should be done assuming that this project is in place at time of interchange improvements.
    - Currently in PM peak traffic – I-264 EB traffic backs up through US-42 to the Westport Road area.
        - This back-up appears to be caused by both the weave on I-264 between US-42 and I-71 and the merge between I-264 EB and I-71 NB.
        - The study needs to determine the relationship between these two areas
    - There is currently not much AM peak slow-down noted through the interchange.
        - Slow-downs are noted further towards Zorn Ave. on I-71 SB, but those slow-downs are related to traffic issues on I-71 outside of the project area.
    - Any incident within the study area currently causes massive back-ups and delays.
        - I-264 EB traffic travelling northbound, has no exit for several miles once it passes the US-42 gore point.
        - This study should focus somewhat on the reliability of the interchange area.
    - Another troublesome weaving location is on I-264 WB between I-71 and US-42.
        - Truck traffic coming from I-71 comes in to the left lane and wants to immediately move to the center lane, while traffic coming from I-71 wants to also move into the center lane.
    - The I-71 NB through movement has sight distance issue with the current alignment through the narrow rock cut through the interchange.
    - One idea to fix the merge between I-75 NB and I-264 EB is to push the gore further to the east and provide an area that seems like a separate road to allow for traffic to accelerate before merging together.
- Traffic Volume:
    - Overall, the provided traffic volumes across the study area seem correct, sensitivity analysis will be conducted to see which volumes are critical to interchange operations.
        - The provided traffic volumes on the ramps to and from US-42 on the interchange side seem low compared to observed volumes.
    - The I-264 EB split is very even in AM peak. During PM peak this movement is heavy skewed to the I-71 NB direction.
    - In the current traffic model, the I-71 NB and I-264 EB merge does not result in much of a traffic back up.
        - It was noted that this likely because the drivers in the simulation are using the entire acceleration lane before the drop.
        - This portion of the model will be tweaked to attempt to replicate existing conditions.
    - The I-71 SB to I-264 ramp has a very heavy volume for a single lane ramp.

    - The I-71 SB ramp to SB Zorn Ave movement has a high projected volume for an unsignalized intersection.
    - Traffic volumes show that it doesn't appear that I-71 will need to be widened beyond the current 2 lanes through the I-264 interchange.
    - It was noted that development of the Veterans Administration (VA) Hospital near the US 42 interchange will need to accounted for in the traffic volumes.
        - The B&N traffic study notes the VA Hospital, but it is unclear if it is accounted for in an appropriate manner.
    - KYTC noted that they are concerned about making the weaving area between I-264 WB and US-42 worse if the I-71 SB to I-264 WB ramp is widened to two lanes.
    - KTYC is interested in looking at traffic operation results at an intermediate traffic volume, approximately year 2030. Especially for more intermediate interchange improvements.
- Safety
    - There have been five fatal crashes within the intersection study area during the past five years.
        - Several of the fatal crashes are in the area of I-71 NB approaching the interchange split. The crashes were sideswipe crashes where lane indecision appears to have been a factor.
    - There are many single vehicle crashes through the interchange, especially on the I-71 NB curve through the interchange.
    - Sideswipe crashes occur at all of the diverge points in the interchange.
    - Rear end crashes are concentrated at the weave and merge areas.
    - Most of the PM peak crashes occur in the noted weave areas
        - There is a much larger spike in crashes in the PM peak than the AM peak.
    - It was agreed upon that crash severity is not an issue through the interchange study area and that the study should focus upon improving capacity and operations. The study will not focus on safety improvements.
- Typical sections
    - All proposed typical sections are within existing right-of-way
        - The existing rock cuts through the project corridor are in good shape and do not need improvement.
    - The proposed typical sections attempt to maintain and re-use as much existing pavement as possible.
    - KYTC noted that narrow grass medians should be avoided as it is very difficult to get a mower into those areas, which increases the maintenance costs.
        - It was also noted that narrow median shoulders adjacent to barrier wall are not preferred, as it is difficult to maintain the shoulder/median area without having to close the fast lane of traffic.
- Environmental
    - Most of the known historic areas/properties in the study area are south of the interchange area.
        - There may be some historic properties in the northeast quadrant of the interchange.

    - The US-42 improvement project has proposed noise walls in the southeast quadrant of the interchange.
    - On the west side of the interchange there is a stream that may require remediation or relocation if it is impacted by improvements.
        - There is also an MSD pump station near this stream.
        - MSD recently completed a federally funded improvement of this stream area.
    - It was noted that many of the adjacent neighborhoods will be asking for noise walls when interchange improvements are proposed.
- Interchange improvement ideas
    - The meeting attendees were split into two groups to brain storm different interchange improvement concepts.
    - The concepts were groups into minor, intermediate and major projects.
    - When the groups re-combined the concepts were shared between the groups.
- Improvement concept grading
    - KYTC noted that the more important part of the improvement concepts is that they be constructible and affordable.
        - This includes focusing on minimal ROW impacts
    - The improvements should focus on improving traffic operations
        - I-71 NB merge
        - Weave areas
    - Phasing, Safety and design constraints are secondary concerns for the concepts

Appendix D

Level 1 Meeting Minutes

Meeting Minutes

Project: 05-00557 I-71 Improvements Zorn Ave to Snyder Freeway

Subject: I-71 & I-264 Interchange Initial Concepts Report

Date: Wednesday, February 19, 2020

Location: KYTC District 5 Design / Traffic Conference Room

Name	Organization	Name	Organization
Pat Matheny	KYTC D5 Design	Jonathan West	HDR
Beth Niemann	KYTC Division of Planning	Steve Slade	WSP
Tracy Lovell	KYTC D5 TEBM	Rob Frazier	HDR
Patrick Perry	KYTC Division of Hwy Design	David Lee	HDR
Cody Davis	KYTC D5 Design	Adam Hedges	HDR
Tom Hall	KYTC D5 Planning	Philip Bischof	HDR
Michael Loyselle **	FHWA	Mike Ecker	HDR
Andy Rush	KIPDA	Scott Flodin	HDR
		Kendall Opfer	HDR
		Anne Warnick	WSP
		Cameron Manley	WSP
		Arlen Sandlin	Integrated Engineering

** via conference call

- The meeting was opened by Pat Matheny just after 1:00 pm.
  - Introductions and an overview to the project were given
  - 5-557 includes Phase 1 Design services along I-71 from Zorn Avenue to Gene Snyder Freeway and Planning Phase services of the I-71 / I-264 Interchange.
- Jonathan West described the purpose of the meeting
  - Present the concepts that were developed in the charrette, eliminate several of the alternatives, and select a small number of alternatives to carry forward and refine
  - Public meeting is not anticipated until Highway Plan is approved / finalized (late spring)
  - Project Team is still moving toward PL&G
  - Level 1 / Tier 1 screening will be the primary goal of this meeting
- The project team has framed a draft purpose and need summary for the project, as follows:
  Currently, the interchange cannot accommodate peak traffic volumes due to the limited number of lanes and driver tendencies. Traffic delay and congestion in the area will become more significant with volumes that are projected to increase in the next five years. The primary need is to implement interchange improvements to better accommodate future peak traffic volumes with respect to the widening of I-71.
  Although safety is a secondary need for this project, issues with horizontal sight distance, weaving, and driver confusion should be addressed if possible. Without access points along I-71 between I-264 and I-265, crashes within the interchange can cause very significant delay, so in addition to protecting drivers, safety enhancements

will reduce emergency traffic flow operations. [post meeting suggested changes are detailed at the end of these minutes]

- Rob Frazier began the discussion by presenting the existing conditions and explaining what is being used as the No Build base condition
    - The No Build condition is assumed to be a widened I-71 (5-557.00), a widened I-264 (5-804.00), and a converted I-264 & US 42 interchange (5-804.00).
    - The No Build condition was assumed to be different from the 5-804.00 project in that the I-264 to I-71 movement is assumed to be a major diverge that does not maintain lane balance. Two lanes are carried to I-71 S and two lanes are carried to I-71 N. There is no shared lane.
    - Beth Niemann mentioned that 5-804.00 is further along than this project, and would have to be modified to fit the No Build condition for this study. Lane balance as well as lane alignment might need to be adjusted depending on which alternative is selected in this study. This discussion was tabled for the time being and will be revisited upon receipt of the 2020 Enacted Highway Plan.
- Rob Frazier redirected the discussion to focus on traffic
    - AM and PM volumes were given for existing and future years at the interchange and surrounding areas (see attachment)
    - Adam Hedges discussed the weaving on I-264 in between I-71 and US 42
        - O-D data was used to express the weave issues
        - From US 42 to System Interchange – AM has a major weaving conflict with 264 to 71 NB volumes (~1700) and US 42 to 71 SB volumes (~800). PM has significant 264 to 71 NB volume (~2200) while the US 42 on ramp volume is low (~200).
        - From System Interchange to US 42 - The majority of the weaving conflict is due to 71 NB to 264 volume specifically in the PM (~1600). The 71 SB to US 42 volume is not significant during either peak (~250 – 300)
    - Anne Warnick covered system metrics of the various models
        - Interchange improvements are needed in addition to widening
        - Range of improvements options are detailed below in the evaluation matrix discussion
- The discussion of the first evaluation matrix (see attachment) was led by Rob Frazier
    - Goal was to eliminate / reduce the number of the options presented in the meeting
        - Came in with 15 different alternatives
    - Alternative A-1
        - I-71 NB is modified to have a larger radius
        - Brings the I-71 SB and I-71 NB movements to the same alignment
        - All other movements are modified minimally – there is widening of some ramps
    - Alternative A-2
        - Identical in principle to A-1
        - I-264 in between I-71 and US 42 uses a CD road instead of the proposed widening from 5-804.00 (With this option, right of way will likely be needed in the Northfield area. Experience from the team working on 5-804.00, right of way acquisition could be difficult.)
    - Alternatives A-1 and A-2 were retained
    - Alternative B-1
        - Maintains the I-71 NB movement as it is today

        - Brings I-71 SB to the same alignment as I-71 NB
        - I-264 E to I-71 S is realigned
- Alternative B-2
    - Identical in principle to B-1
    - Includes a CD road on I-264 between I-71 and I-264
- Alternatives B-1 and B-2 were eliminated from further consideration
- Alternative C-1
    - Modifies I-71 NB ramp tie-ins
    - Adds a bridge
    - The interchange largely remains unchanged – Alternative does not produce much benefit for the potential cost
- Alternative C-1 was eliminated from further consideration
- Alternative D-1
    - Realigns the I-71 NB movement to have a larger radius
    - Other movements are changed minimally
- Alternative D-1 was retained
- Alternative D-2
    - Identical in principle to D-1
    - The I-264 WB connection was modified
        - The I-71 S ramp would connect on the right side rather than the left side
- Alternative D-2 was eliminated from further consideration
- Alternative E-1
    - Realigns several ramps and reduces the radii of curves
    - Not expected to have a positive impact on safety
- Alternative E-1 was eliminated from further consideration
- Alternative F-1
    - Mike Ecker described the independent utility and pros/cons with Alternative F-1
        - Can be constructed in phases
        - MOT is manageable compared to some of the other alternatives
        - Addresses the I-71 NB movement
        - Provides a slip ramp for I-71 N to I-264 W
- Alternative F-1 was retained
- Alternative G-1
    - Possesses some of the same features as B-1
        - I-71 N radius is not addressed
        - I-71 S is modified to the same alignment as I-71 N
    - Slip ramp is provided for I-71 N to I-264 W
- Alternative G-1 was eliminated from further consideration
- Alternatives H-1 to H-5
    - These alternatives are in the same families as Alternatives A and F
- Alternatives H-1 to H-5 were retained
- Three families of alternatives were retained

        - A, D, and F (D-2 was eliminated)
    - The project team agreed to prioritize the realignment of I-71 N
    - The impact of the VA hospital was mentioned by David Lee
    - The topic of lane balance for 5-804.00 will be an ongoing discussion as the project continues
    - Michael Loyselle made several comments
        - Environmental map should show US 42
            - Expand limits to include SE quadrant between I-71 and US 42
        - Further elaboration is needed on design challenges – lane balance, ramp braiding, etc. Anticipated design exceptions along with assessing spots with speed differential or cluster of crashes should be identified for Level 2 Evaluation of Alternatives.
        - Michael Loyselle to send report comments to Patrick Perry
        - The use of performance based metrics to align alternatives was encouraged
- Potential lower cost options were discussed
    - Effectiveness of Route Shield Pavement Markings could be investigated / analyzed based on recent installations in District 5 (Louisville – Spaghetti Junction) and District 6 (Northern Kentucky / Cincinnati area).
    - Cody Davis previously completed an evaluation of horizontal sight distance for the I-71 NB movement
        - Tree limbs were largely not the cause; the existing rock cut was the controlling factor for horizontal sight distance
    - Potential placement of dynamic congestion warning signs was covered by Rob Frazier along with additional Trimarc cameras being identified in the I-71 Corridor Study.
        - Similar analysis was completed by HDR for I-24 in Tennessee
    - Discussed guide signage
        - Kevin Bailey had mentioned in previous team meetings that District 5 plans to replace a guide sign along NB I-71 that could be used. David Lee with HDR agreed to follow up after the meeting.

POST MEETING COMMENTS:

- Draft Purpose and Need Statement suggested revisions (to be discussed at the Level 2 Evaluation project team meeting)
- *The purpose of the I-71/I-264 systems interchange improvements are as follows:*
    1. *Improve traffic operations*
    2. *Improve safety*
    3. *Promote reliability of the interstate corridor regionally*

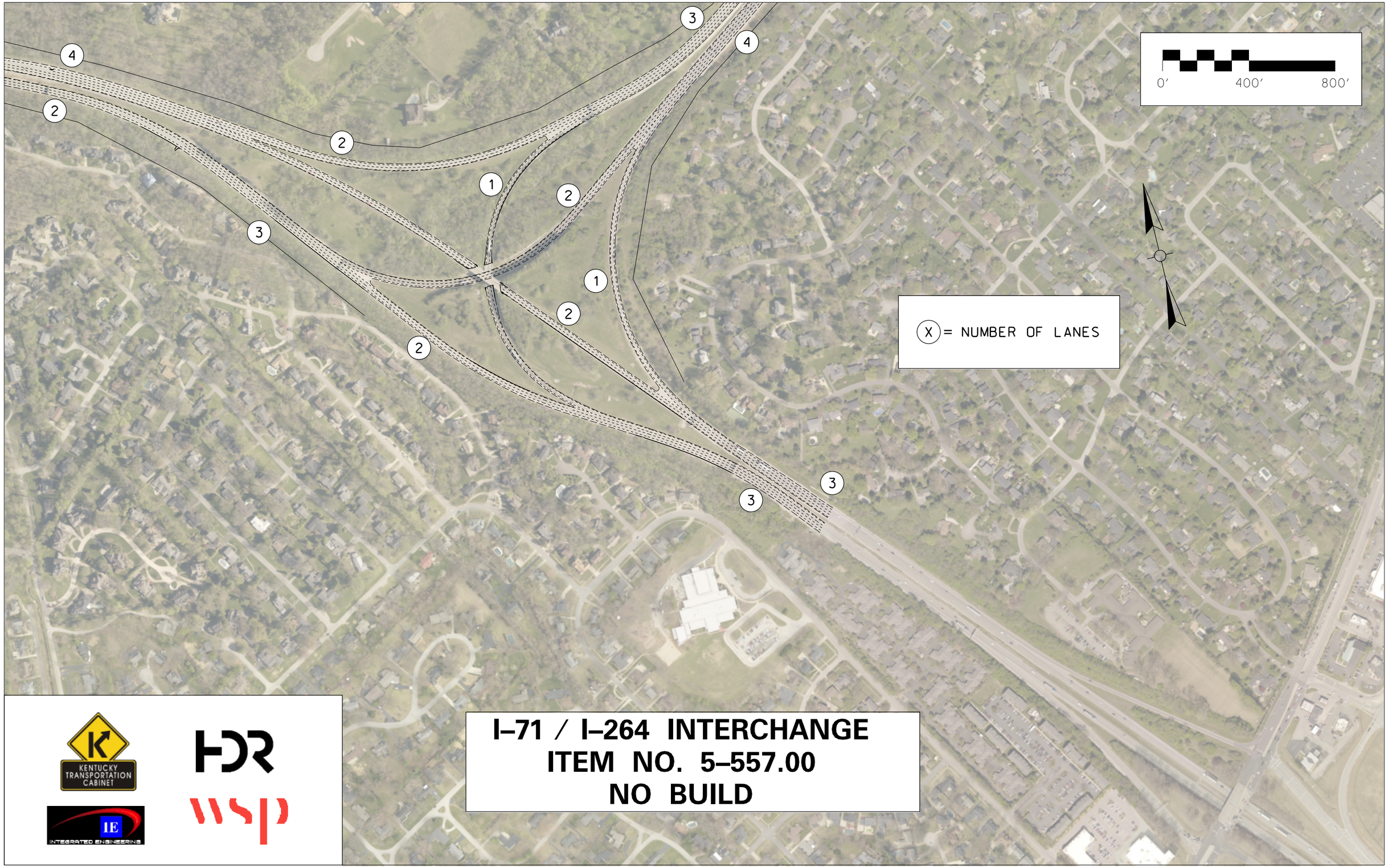
    The I-71/I-264 systems interchange in Jefferson County, KY is a critical piece of infrastructure serving and connecting Louisville with Southern Indiana and the rest of the Commonwealth. Widening projects for both interstates 71 and 264 near the systems interchange are currently in project development phases to improve safety and traffic operations by adding capacity to the existing system and adequately move people and goods. Traffic delays and congestion in the area are already evident and will become more significant in the next five years. Therefore, the systems interchange itself cannot adequately support current nor future traffic demands and has been identified for improvements. The primary need is to

implement interchange improvements to better accommodate future peak period traffic volumes. Traffic operations and safety issues will be evaluated and further considered for any needed improvements. Crashes within the interchange have caused significant delay. Safety enhancements will be further considered to promote the reliability of the interstate traffic flow, including emergency operations.



Appendix E

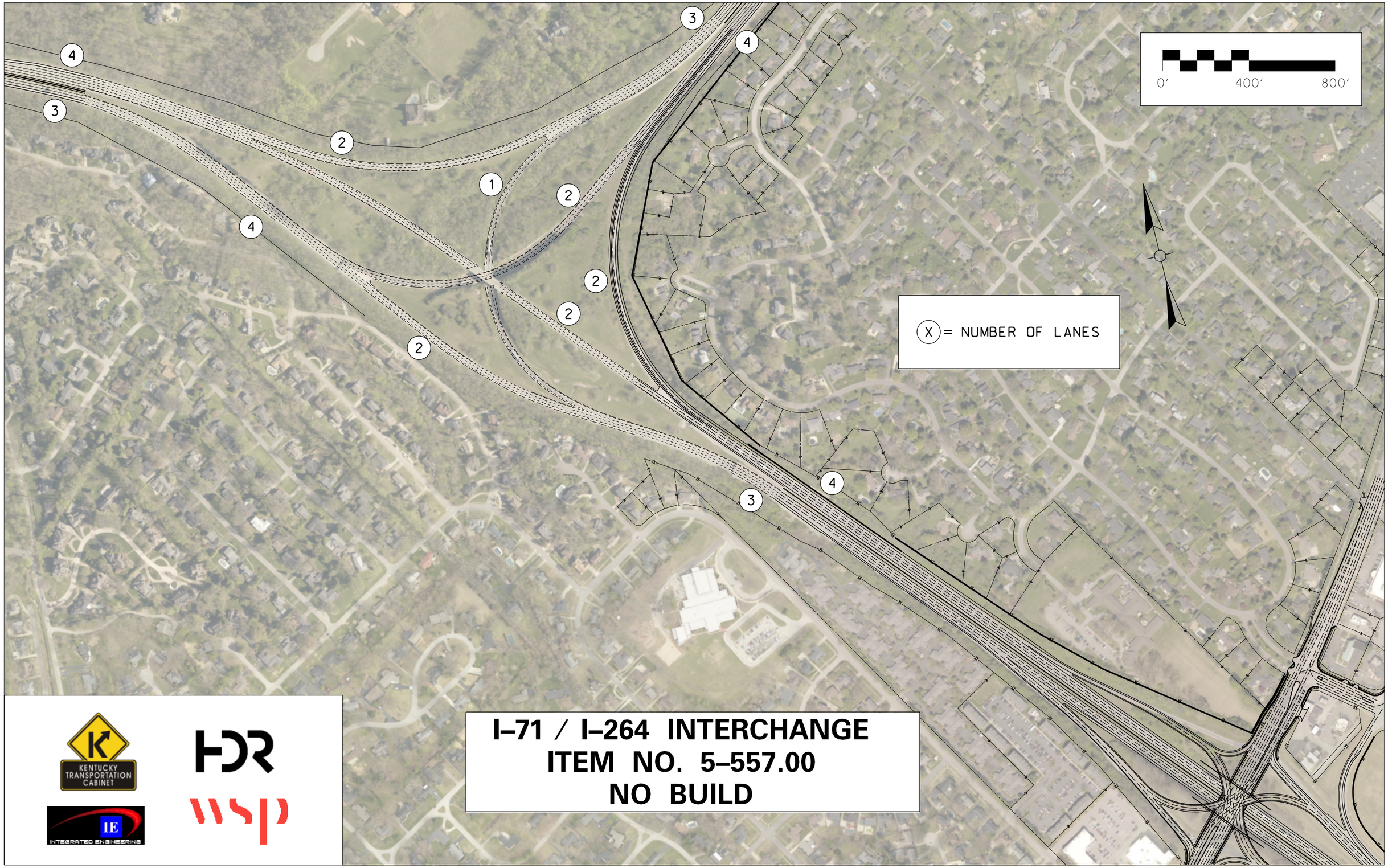
Level 1 Concepts



KENTUCKY TRANSPORTATION CABINET

INTEGRATED ENGINEERING

I–71 / I–264 INTERCHANGE
ITEM NO. 5–557.00
NO BUILD



KENTUCKY TRANSPORTATION CABINET

IE INTEGRATED ENGINEERING

HDR

WSP

I–71 / I–264 INTERCHANGE
ITEM NO. 5–557.00
NO BUILD



I–71 / I–264 INTERCHANGE
ITEM NO. 5–557.00
CONCEPT A–1

KENTUCKY TRANSPORTATION CABINET

HDR

IE INTEGRATED ENGINEERING

WSP



KENTUCKY TRANSPORTATION CABINET

HDR

IE
INTEGRATED ENGINEERING

WSP

I–71 / I–264 INTERCHANGE
ITEM NO. 5–557.00
CONCEPT A–2



I–71 / I–264 INTERCHANGE
ITEM NO. 5–557.00
CONCEPT B–1

KENTUCKY TRANSPORTATION CABINET

HDR

IE INTEGRATED ENGINEERING

WSP



KENTUCKY TRANSPORTATION CABINET

HDR

IE
INTEGRATED ENGINEERING

WSP

I–71 / I–264 INTERCHANGE
ITEM NO. 5–557.00
CONCEPT B–2



KENTUCKY TRANSPORTATION CABINET

HDR

IE INTEGRATED ENGINEERING

WSP

I–71 / I–264 INTERCHANGE
ITEM NO. 5–557.00
CONCEPT C–1



KENTUCKY TRANSPORTATION CABINET

HDR

IE INTEGRATED ENGINEERING

WSP

I–71 / I–264 INTERCHANGE
ITEM NO. 5–557.00
CONCEPT D–1



KENTUCKY TRANSPORTATION CABINET

HDR

IE INTEGRATED ENGINEERING

WSP

I–71 / I–264 INTERCHANGE
ITEM NO. 5–557.00
CONCEPT D–2

0′ 400′ 800′

(X) = NUMBER OF LANES

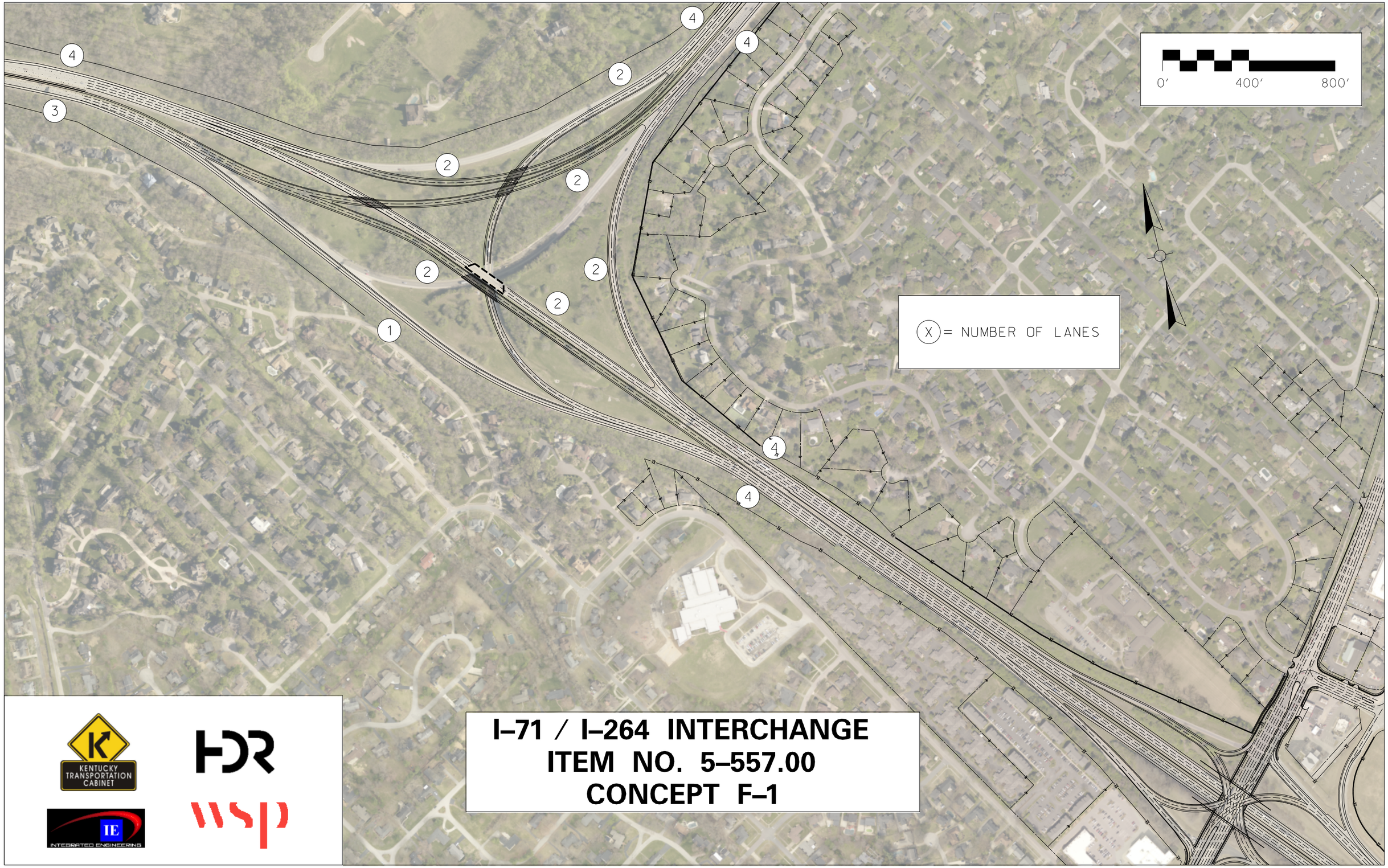
I–71 / I–264 INTERCHANGE
ITEM NO. 5–557.00
CONCEPT E

KENTUCKY TRANSPORTATION CABINET

INTEGRATED ENGINEERING

HDR

WSP



I–71 / I–264 INTERCHANGE
ITEM NO. 5–557.00
CONCEPT F–1

KENTUCKY TRANSPORTATION CABINET

INTEGRATED ENGINEERING

HDR

WSP



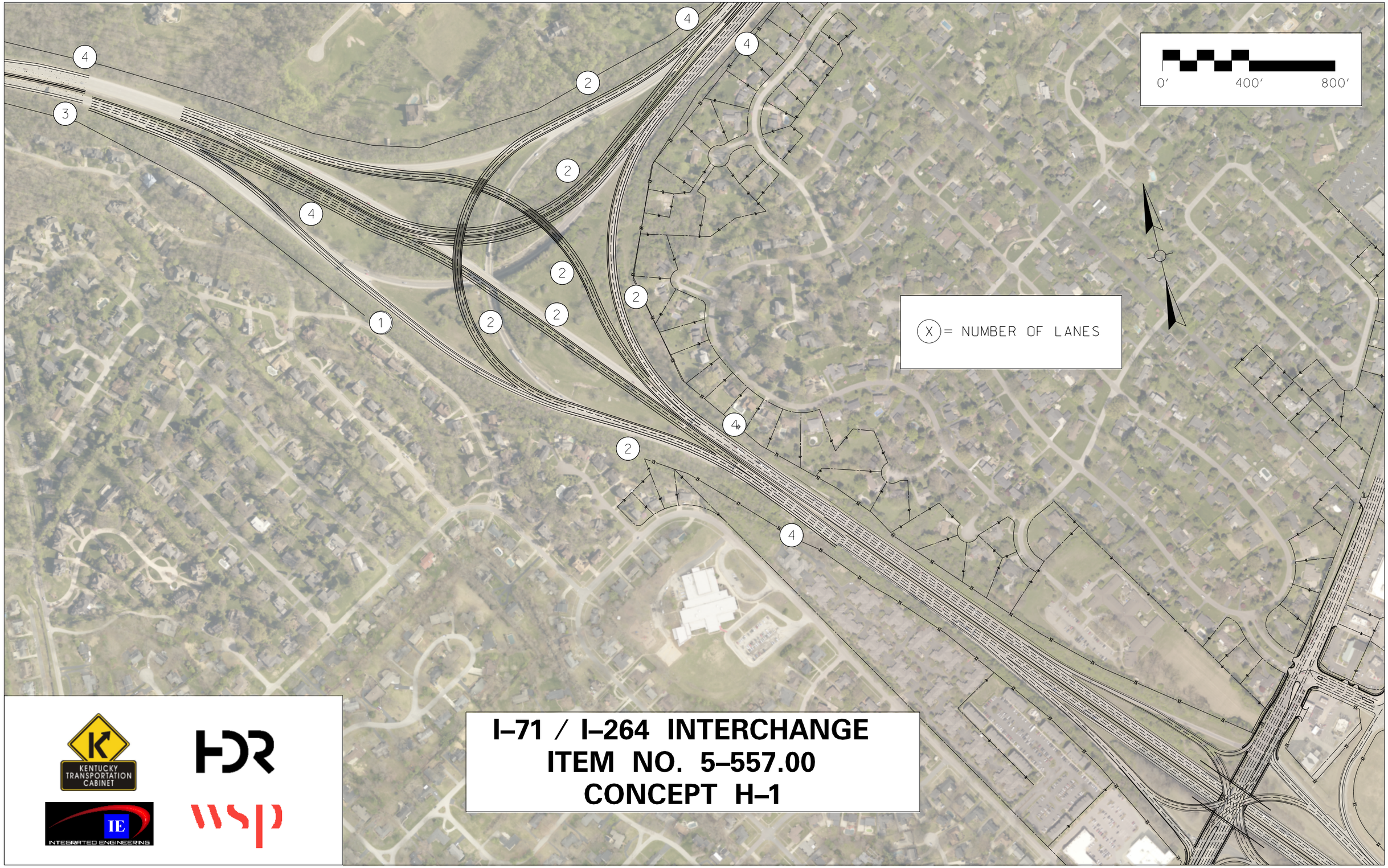
I–71 / I–264 INTERCHANGE
ITEM NO. 5–557.00
CONCEPT G–1

KENTUCKY TRANSPORTATION CABINET

HDR

IE INTEGRATED ENGINEERING

WSP


0'
400'
800'
X = NUMBER OF LANES
I–71 / I–264 INTERCHANGE
ITEM NO. 5–557.00
CONCEPT H–1
KENTUCKY TRANSPORTATION CABINET
IE
INTEGRATED ENGINEERING
HDR
wsp


4
3
4
4
2
2
2
2
2
4
4
0'
400'
800'
X = NUMBER OF LANES
I–71 / I–264 INTERCHANGE
ITEM NO. 5–557.00
CONCEPT H–2
KENTUCKY TRANSPORTATION CABINET
IE
INTEGRATED ENGINEERING
HDR
WSP



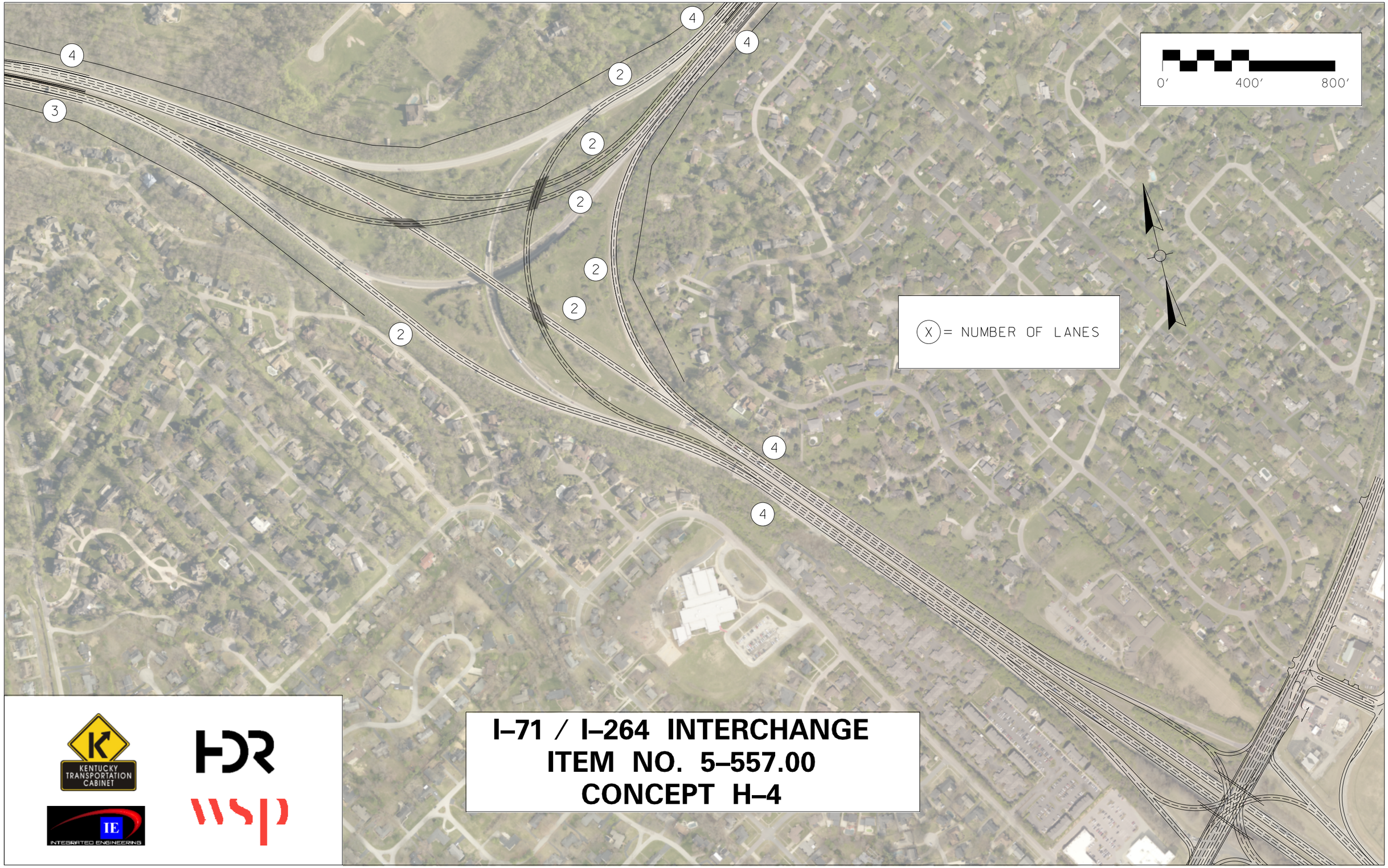
KENTUCKY TRANSPORTATION CABINET

IE INTEGRATED ENGINEERING

HDR

WSP

I–71 / I–264 INTERCHANGE
ITEM NO. 5–557.00
CONCEPT H–3



KENTUCKY TRANSPORTATION CABINET

INTEGRATED ENGINEERING

HDR

WSP

I–71 / I–264 INTERCHANGE
ITEM NO. 5–557.00
CONCEPT H–4



KENTUCKY TRANSPORTATION CABINET

IE INTEGRATED ENGINEERING

HDR

WSP

I–71 / I–264 INTERCHANGE
ITEM NO. 5–557.00
CONCEPT H–5

Appendix F

Public & Stakeholder Engagement Summary

March 2021

Engineering Planning

Groundbreaking by Design.

SURVEY SUMMARY

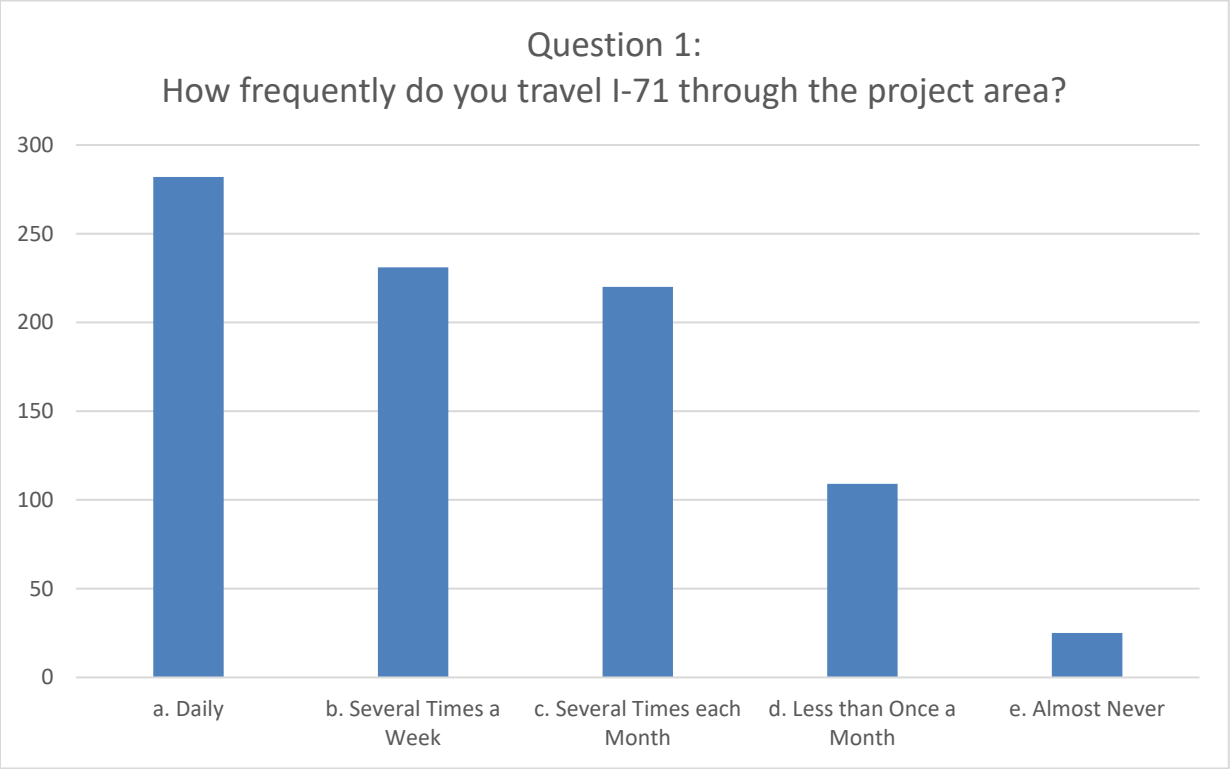
Project: I-71 Widening Projects, I-64 to I-265
Jefferson County
Item Nos. 5-48.1 and 5-557

Purpose: Summary of Public Survey Responses
August 2020

A public survey was published online during July/August 2020 to collect public input on individual components of two adjacent projects: I-71 corridor needs from I-64 to I-265, operational improvements at the I-71/Zorn interchange, and I-71/I-264 interchange improvement needs. The survey was promoted via District 5 social media accounts and through a link posted on the project webpage. Facebook analytics show its posts reached almost 10,000 impressions (views) via target ad campaigns. Throughout the comment period, 872 individuals submitted responses. This memo summarizes input received.

Question 1: How frequently do you travel I-71 through the project area?

The majority of respondents drive the corridor daily (33%), several times a week (27%), or several times each month (25%). The remaining 16% drive it either less than once a month or almost never.



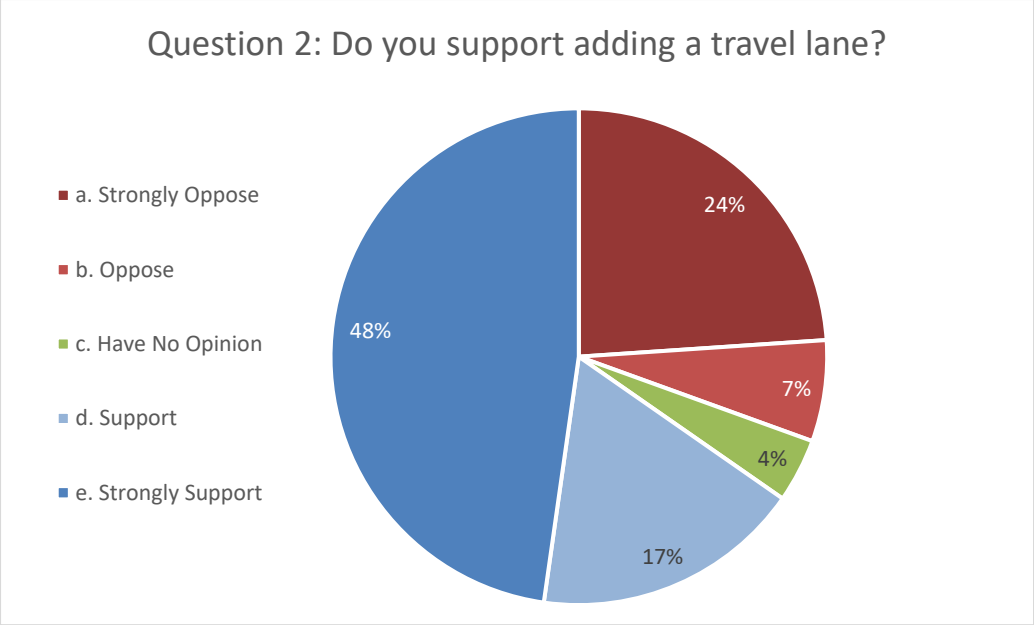
Question 2: Do you support adding a travel lane in each direction?

Most of the respondents (65%) either support or strongly support the project. Themes from those who support the project are listed below.

- Help relieve congestion
- Improve traffic flow
- Reduce travel time
- Improve safety
- Within existing right-of-way
- Addresses noise pollution
- Supports continued growth/development

Only 4% of respondents had no opinion, and the remaining 31% oppose or strongly oppose adding a travel lane in each direction. Reasons for opposition include the following.

- Not needed (i.e., experience no issues, costly, use money elsewhere)
- Adding travel lanes will not address congestion (e.g., induced demand, will just make it worse by adding more cars, supports urban sprawl)
- Will have negative environmental impacts (such as climate change, pollution, increase noise)
- Adding a lane does not improve safety (i.e., speeding will increase)



Considering just responses from daily users of the facility who are most familiar with its operation, over 80% support or strongly support widening.

Other suggestions to consider include: invest the money elsewhere (i.e., invest in transit, bike/ped facilities, or improvements to surface streets); use the additional lane as a carpool/high occupancy vehicle (HOV) lane or TARC express lane; implement congestion pricing; increase ramp lengths to

create safer merge areas; add truck lane restrictions; and add a planted median to create signature gateway into the city.

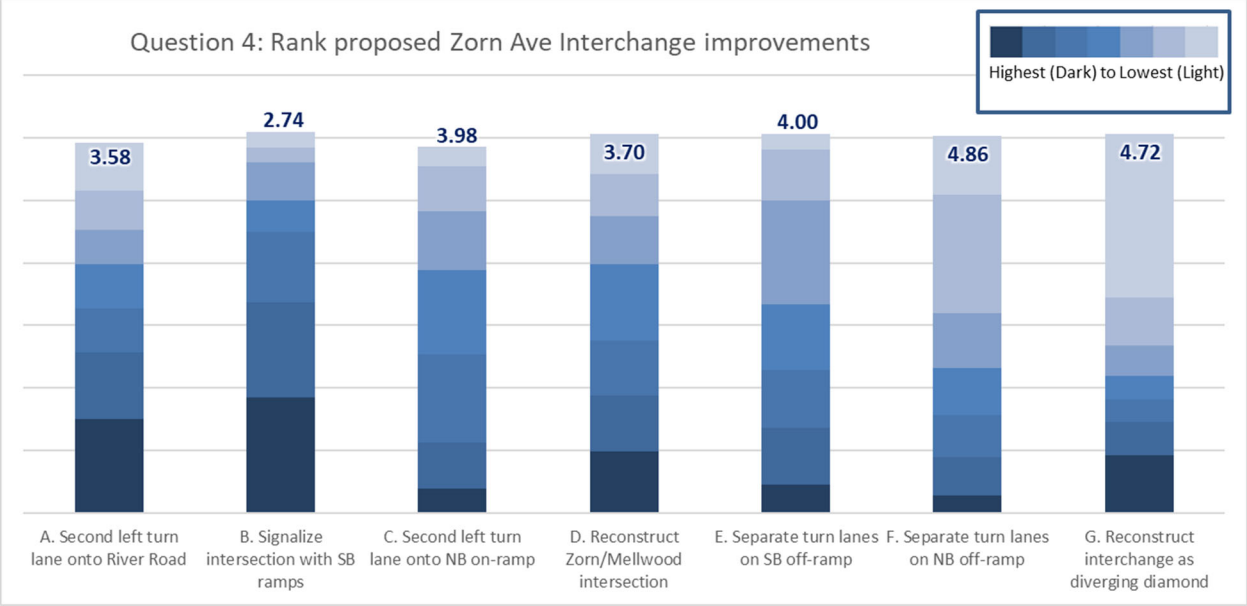
Question 3: Describe safety issues or congestion concerns at the I-71/Zorn Avenue Interchange (Exit 2).

The concerns and suggestions identified are summarized below.

- Congestion/backups onto interstate
- Hard/confusing to make turns
- Short merge lanes/need longer ramps
- Dangerous/scary/lot of accidents
- People are reckless/speeding/distracted
- Issues at Mellwood Ave intersection
- Need traffic signals
- Need noise walls
- Add bike/ped accommodations
- Suggest better lighting/striping/signage
- Improve sight distance at bottom of ramps

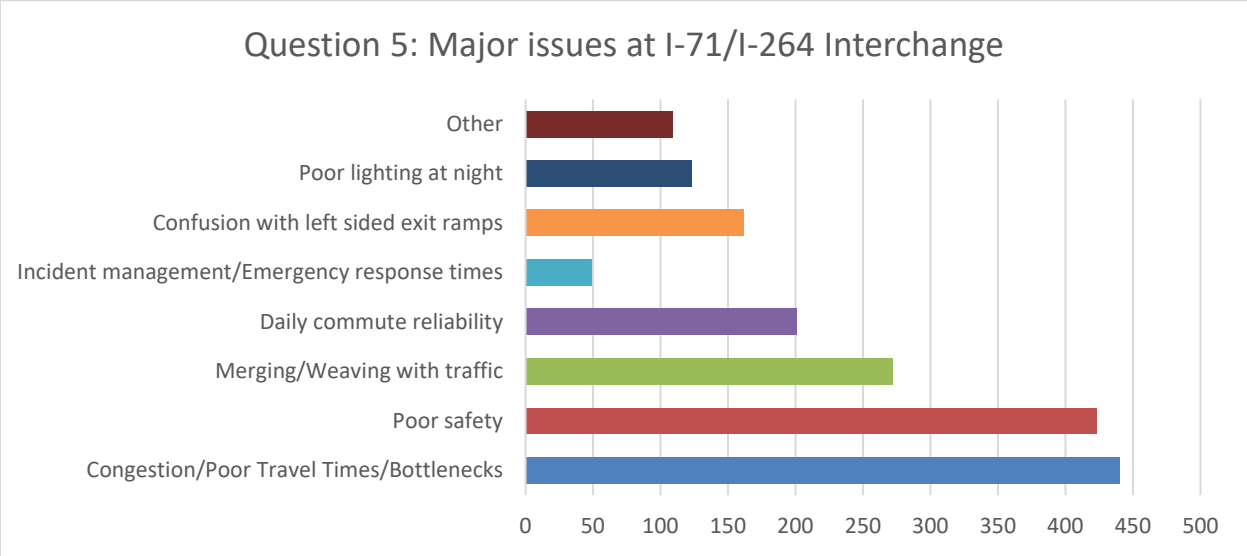
Question 4: Rank the proposed improvements at the Zorn interchange, where 1 is the most important priority and 7 is the least.

The figure below summarizes the input received. Blue bars represent ranked numeric results with the darker bars representing the higher priority. That is, Spot B (signalizing intersection with southbound ramps) received the most #1 rankings, as noted by the largest dark blue bar below. The Average Score represents the mean of numeric results, where the lower number notes the highest priority—again, Spot B with a 2.7 average ranking below is the highest priority of the I-71/Zorn interchange spot improvements. Conversely, Spot F (Separate turn lanes on NB off-ramp) was the lowest priority of identified spots.



Question 5: What major issues do you experience traveling through the I-71/I-264 interchange (Exit 5)? Select your top 3 issues.

The top issues identified include congestion and safety, as shown below:



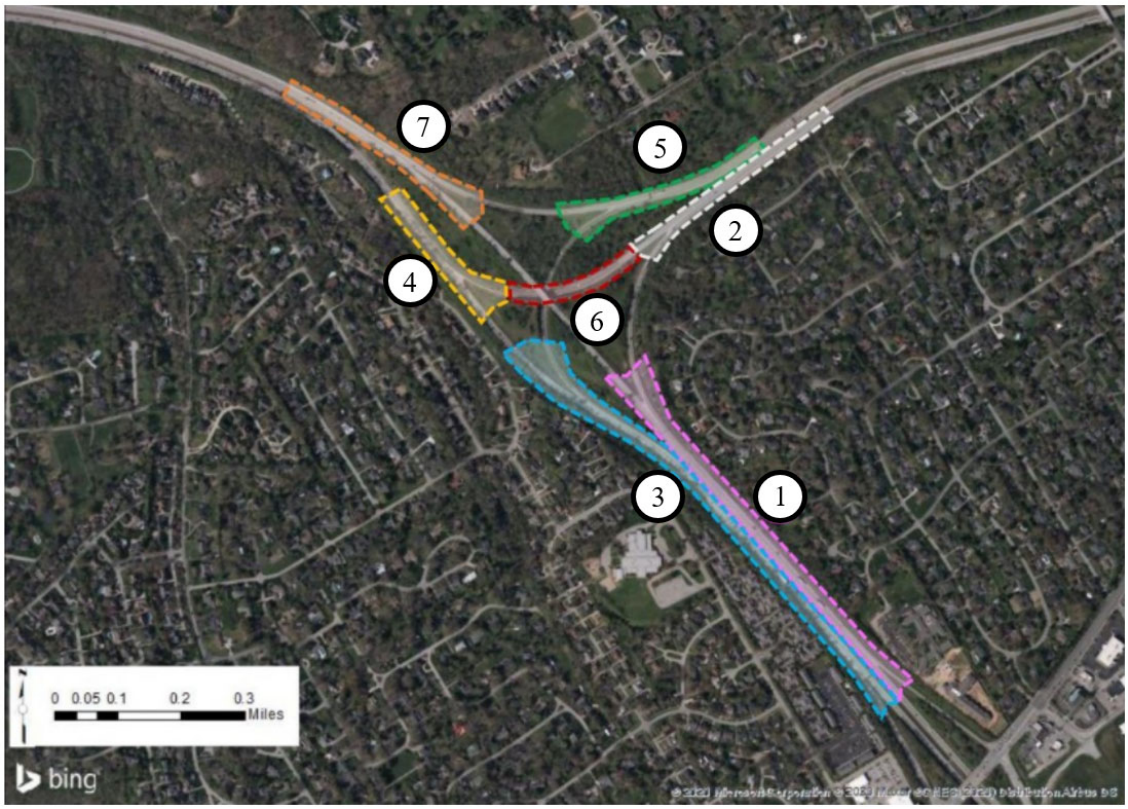
Several other issues were identified from written-in responses, summarized below.

- Distracted driving/speeding
- Noise
- Need more public transit/reduce cars
- Congestion/back-ups onto the interstate
- Pollution
- Sight distance issues merging

Question 6: Select your top 3 problem areas of the I-71/I-264 Interchange.

Based on public feedback, the problem areas were ranked from most responses (1) to least (8) as listed below and labeled on the Question 6 map. Other problem areas identified included noise walls, investing in public transit instead, and alleviating human factors (e.g., reckless driving, speeding, distracted driving).

1) Eastbound I-264 weave between the US 42 interchange and the I-71 interchange
2) The merge between northbound I-71 traffic and the ramp from I-264 eastbound
3) Westbound I-264 weave between the I-71 interchange and the US 42 interchange
4) Northbound I-71 split approaching the interchange. Splits to I-264 westbound and I-71 north
5) Southbound I-71 left sided exit ramp to westbound I-264
6) The curvature and grade of I-71 northbound through the interchange
7) Southbound I-71 left sided entrance ramp from eastbound I-264
8) Other



Question 6 Mapped Results, ordered by frequency of response

Question 7: Do you have any additional comments or concerns about the I-71/I-264 interchange?

Many of the concerns identified through ranking the problem areas from the previous question were repeated here. Additionally, specific merge issues and potential improvement considerations were identified.

- Add lanes to the I-71 South ramp to help merge/avoid back-up onto I-264 East and US 42
- To help left merge to I-264 from I-71, improve signage, add pavement marking of interstate on lanes, and/or add a CD lane
- Fix the weave from US 42 to I-71 South
- Create flyovers at interchange to eliminate blind spots from cliff walls and eliminate weave issues; one responder opposed flyovers for the area.
- Adjust signal timing on US 42 to help alleviate back-ups onto the interstate

Question 8: Do you have any additional comments?

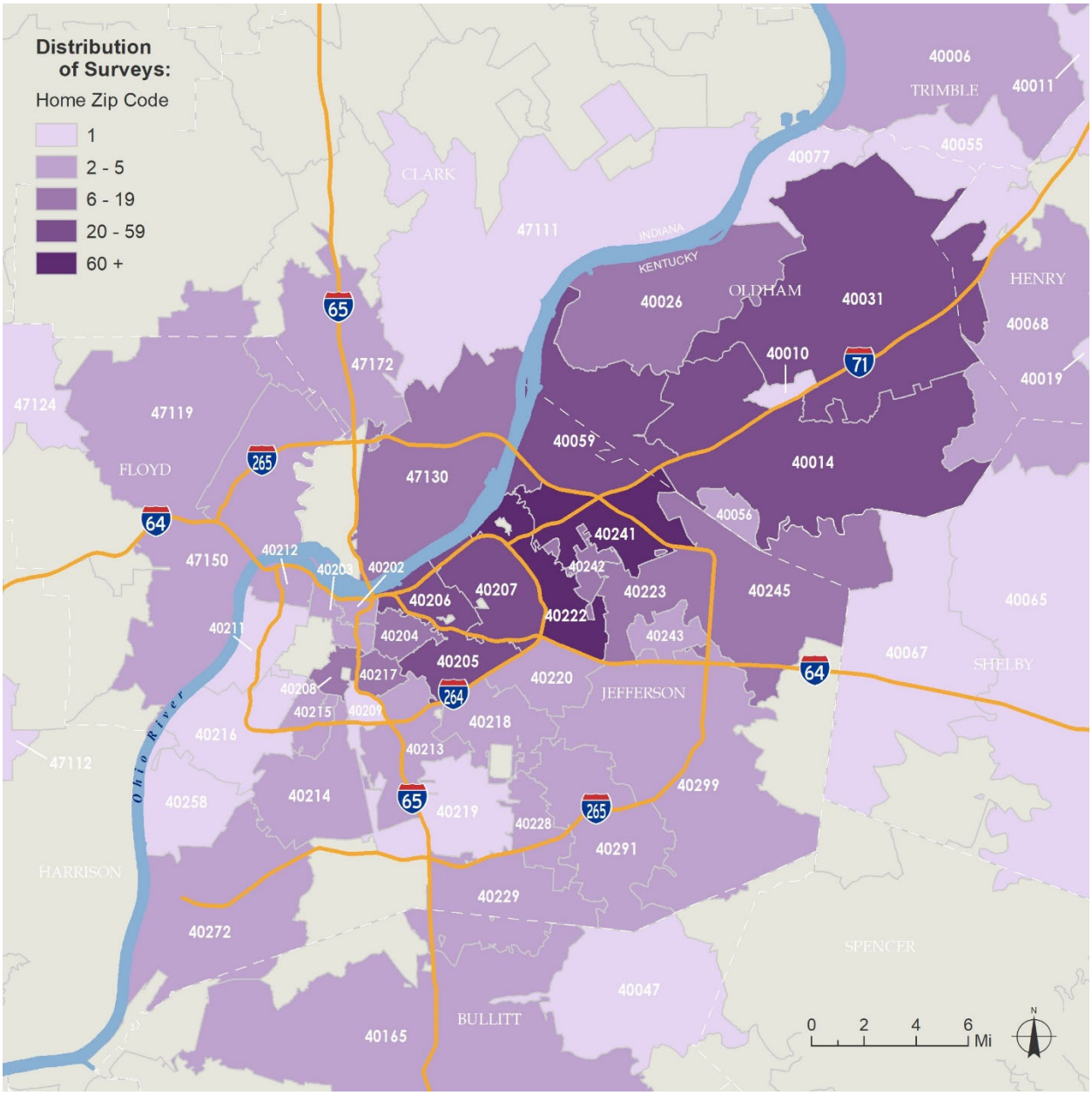
The most frequent response to this question cited noise concerns: 67% of responses identified noise as being an issue. The neighborhoods and streets included in the comments are Limewood Circle,

Barbour Manor, Barbour Lane overpass, Barbour Meade, Spring Creek, Falls Creek, Glenview, Indian Hills, Hills and Dales, Cobblestone, Northfield, and Wolf Pen Branch.

The other primary comments include investing the money elsewhere such as public transit and bike/pedestrian accommodations.

Question 9: What is your home zip code?

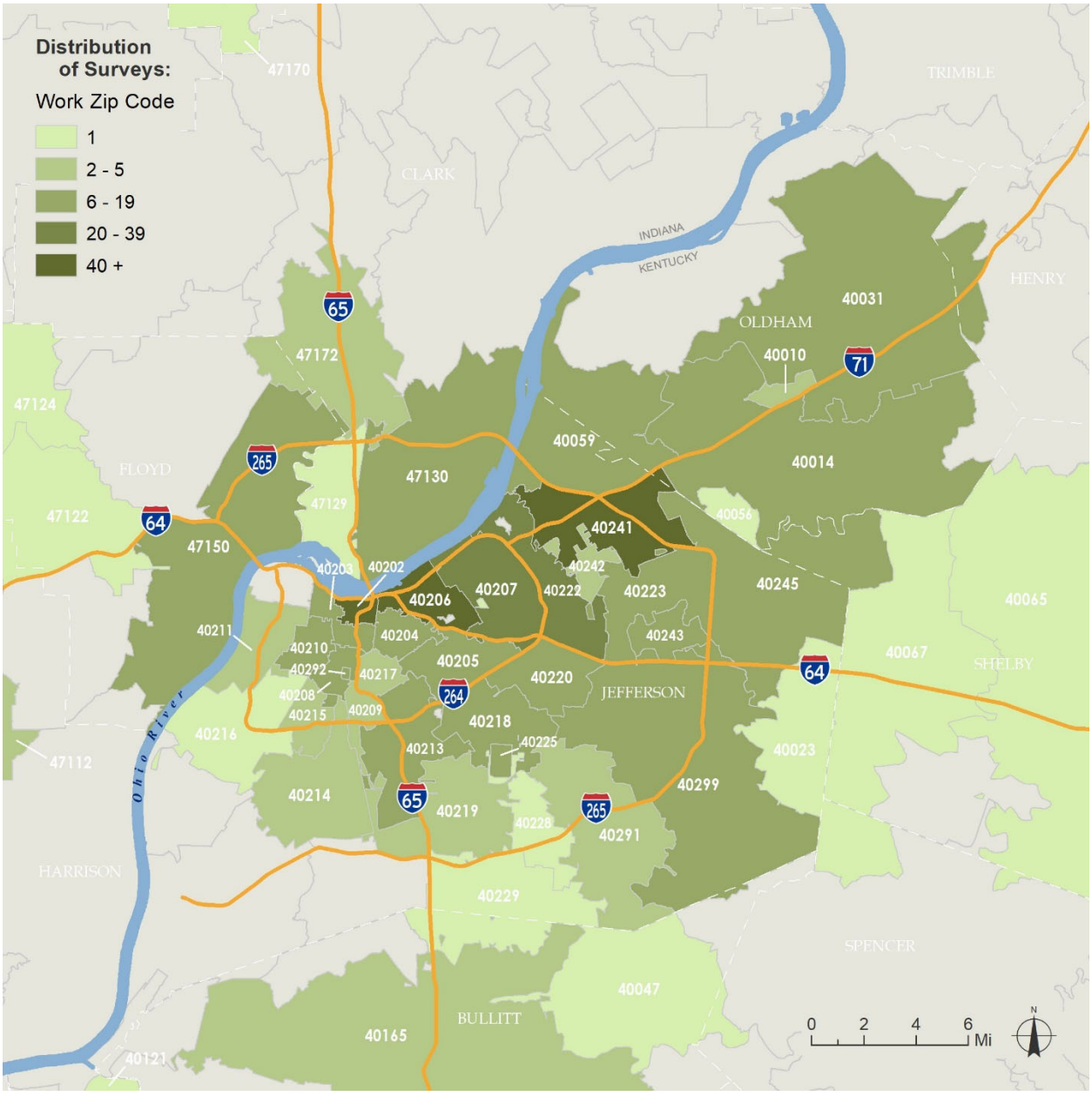
Respondents were given the option to provide their home address zip code. Results are mapped below, representing 77% of surveys received.



Question 9: Distribution of Responses by Home-based Zip Code

Question 10: What is your workplace zip code?

Respondents were also given the option to provide their work address zip code. Results are mapped below, representing 68% of surveys received.



Question 10: Distribution of Responses by Work-based Zip Code

Engineering Planning

Groundbreaking by Design.

MEETING MINUTES

Project: I-71 Widening Projects, I-64 to I-265
Jefferson County
Item Nos. 5-48.1 and 5-557

Purpose: Local Officials Meeting

Place: Virtual Meeting

Meeting Date: July 27, 2020 at 2:00 PM

Prepared By: Qk4

Participants:		
Stakeholders	Charles Aull	Greater Louisville, Inc
	Arnold Rivera	Louisville Metro Police Department
	Barbara Rogers	City of Hills and Dales
	Andreas Wokutch	Commissioner, City of Hills and Dales
	Jean Keats	City of Hills and Dales
	David Howser	St. Matthews Fire/EMS
	Jeff Brown	Louisville Metro Public Works
	Chris Dickinson	Civil Design, Inc
	Ralph Johanson	Mayor, City of Hills and Dales
	Brandon Smith	Northfield City Commission
	Bryan Schmitt	Mayor, City of Glenview Hills
	Tonya Clinkscales	Jefferson County Public Schools
	Michael Adair	
	Aida Copic	TARC
	Maria Sorolis	State Representative
	Marshall Moore	Galen College of Nursing
	Paul Binkel	Mockingbird Valley Preservation
	Paula McCraney	Louisville Metro Council
	Vanessa Burns	Louisville Metro Public Works
	Stephen Black	VA Medical Center
	Brad Wethington	River City Recycling
Project Team	Matt Bullock	KYTC D5 CDE
	Pat Matheny	KYTC D5 Design
	Tracy Lovell	KYTC D5 TEBM
	Kevin Bailey	KYTC D5 Maintenance
	Cody Davis	KYTC D5
	Tom Wright	KYTC D5
	Donna Hardin	KYTC D5 Environmental
	Stephanie Caros	KYTC D5 PIO
	Steve DeWitte	KYTC CO Planning
	Beth Niemann	KYTC CO Planning

	Tonya Higdon	KYTC CO Planning
	Patrick Perry	KYTC CO Design
	Taylor Kelly	Qk4
	Duffy Ford	Qk4
	Rebecca Thompson	Qk4
	Jonathon West	HDR
	Jeff Schafer	HDR
	Rob Frazier	HDR
	Mike Parsons	HDR
	Adam Buck	HDR
	Adam Hedges	HDR
	Steve Slade	WSP

Pat Matheny opened the meeting, welcoming attendees and providing a brief overview of the meeting's purpose. The intent is to share information about the I-71 widening efforts between I-64 and I-265, which is covered by two projects and includes three distinct elements:

- Item No. 5-48.1, which includes mainline widening from I-64 to near Zorn Avenue and operational improvements at the Zorn Avenue interchange (Exit 2).
- Item No. 5-557, which includes mainline widening from Zorn Avenue to I-265 with a planning study to examine improvements at the I-264 systems interchange (Exit 5).

The presentation generally follows the project's StoryMap, available online at https://bit.ly/3guJSSF.

I-71 Widening

Rebecca Thompson, Jonathon West, and Jeff Schafer explained the proposed widening efforts. The purpose of the projects is to reduce traffic congestion and improve safety. Beyond the No-Build option, one Build Alternative is proposed: to add an extra travel lane in each direction, widening within the median to reduce impacts. Some design details—such as shoulder widths, drainage features, etc.—are still being developed. No additional right-of-way is needed for the widening effort.

Environmentally, the project includes streams, wetlands, habitat for protected bat species, and contaminated soils, with numerous parks and historic resources in the vicinity. As the project is contained within existing right-of-way, minimal impacts will occur. The team evaluated the potential for noise impacts, with six barriers identified that satisfy KYTC criteria to be considered reasonable and feasible for further development. Each will be examined further in the design process, with balloting of affected property owners and tenants at a future meeting to gage stakeholder preferences.

As summarized below, group discussion focused primarily on the noise analysis, specifically how barrier locations were determined. The project team noted that the Federal Highway Administration (FHWA) developed a software model to predict noise levels and publishes guidelines that govern the procedures.

- Was a barrier considered at Hills and Dales? Yes, but as the development has a lower density of noise sensitive receptors and sets back further from the highway, it did not satisfy thresholds to advance.
- Was the potential for highway noise to echo off the existing noise wall on the opposite side of I-71 considered? Research shows the effect of reverberation is minimal.

- Is the opposite wall likely to influence air pollution? This is not covered in the model and not traditionally an area of study.
- At what height were noise measurements taken? Noise measures were taken 5 feet above ground level, approximating the height of a person. This is representative of the "outdoor areas of frequent human use" stipulated in the FHWA guidance. For single family homes, this often corresponds to a backyard or patio. For multi-family, multi-story residences, upper story balconies are also modeled.
- Many drivers speed through the corridor, increasing the noise level; were these accounted for in the model? The federal guidance stipulates that typical peak conditions are measured, reflecting the posted speed limit. Excessive speeding is an enforcement issue but not part of the noise analysis.
- Are there other options the community can consider to minimize noise impacts? Noise is largely subjective: if you can't see the traffic, you notice the sound less. A wooden privacy fence or vegetation may have mental benefits while not truly dampening sound. A more massive brick or stone wall would help reduce noise.
- What type of barrier is proposed: cable barrier or concrete? A median barrier will be included with the type decided later in the final design process.
- The VA Hospital's traffic impact study recommended an additional I-71 interchange at US 42. An adjacent project (Item No. 5-804) includes improvements along I-264 at the US 42 interchange, reconstructing it as a single point urban interchange (SPUI).
- What will happen at the old railroad bridge? Several options are being considered as part of the preliminary design process, including potentially eliminating the structures and replacing with engineered fill.

Zorn Avenue Interchange Improvements

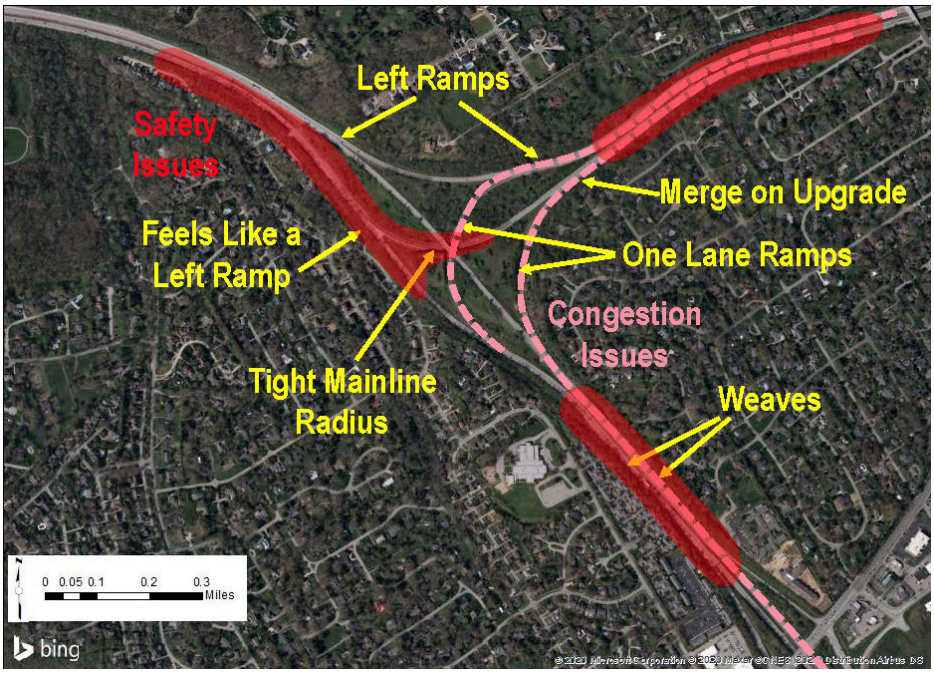
Taylor Kelly and Duffy Ford explained the menu of improvement concepts considered at the Zorn interchange. These can be implemented individually or combined. The team is seeking feedback today or via an online survey to understand community concerns and preferences. The city has a separate project under development to widen River Road to four lanes into downtown.

Possible improvements included dual left turn lanes onto River Road, signalizing the southbound ramps, widening exit ramps, dual left turn lanes onto the northbound on-ramp, or reconstruction of the Zorn Avenue/Mellwood Avenue intersection. A discussion followed, with attendees generally in agreement that these low-cost improvements would be beneficial.

- What impacts are likely for the Mockingbird Valley Historic District? Widening the existing I-71 overpasses to accommodate the extra lanes would close the gap between overhead bridges that exists today. If left and thru movements are eliminated from the Mellwood Avenue approaches, additional traffic may divert to Mockingbird Valley Road to access the soccer complex; these volumes are minimal (10 vehicles per hour) today. The interchange is already lighted although lighting decisions are typically part of final design efforts.
- Metro's River Road widening project is currently in the utility relocation phase. It was noted that as the project moves into final design, coordination with Metro regarding pedestrian facilities would be beneficial.

I-264 Interchange Planning Study

Rob Frazier explained the planning effort associated with the I-71/I-264 systems interchange. With each of the three approaches being widened, existing safety and congestion problems will grow with increasing traffic volumes. The map below highlights the top problem areas identified based on existing data. Any improvements proposed will be coordinated with adjacent improvements, including the US 42/I-264 Interchange Improvement project (Item No. 5-804) currently in final design.



The planning study included an environmental overview to identify key constraints.

A group discussion followed.

- Do traffic growth rates account for the traffic generated by the proposed VA Hospital? Yes, in addition to other regional projects. A sensitivity analysis will be conducted to test a range of growth assumptions.
- The tight radii associated with northbound I-71 through the interchange is a continual problem. Recent lighting and high friction pavement have helped but truck overturning is still a concern.
- Short-term fixes will be considered for the planning effort alongside larger cost, more long-term improvements.

Participants were encouraged to take the online survey and share it with their organizations' distribution lists (https://www.surveymonkey.com/r/GDM5WY5). The meeting ended at 3:30.

End of Minutes

Appendix G

Level 2 Meeting Minutes

Meeting Minutes

Project:	5-557.00: I-71 - Zorn Ave to Gene Snyder
Subject:	I-71 / I-264 Interchange Study – Level 2 Alternative Concepts
Meeting Date:	Friday, July 24, 2020
Document Date:	Tuesday, November 17, 2020
Location:	Virtual (Webex)

Attendees:		
	Pat Matheny – KYTC D5	Patrick.Matheny@ky.gov
	Tracy Lovell – KYTC D5	Tracy.lovell@ky.gov
	Matt Bullock – KYTC D5	Matt.bullock@ky.gov
	Donna Hardin – KYTC D5	Donna.hardin@ky.gov
	Cody Davis – KYTC D5	Cody.davis@ky.gov
	Tom Hall – KYTC D5	Tom.hall@ky.gov
	Larry Chaney – KYTC D5	Larry.chaney@ky.gov
	Beth Niemann – KYTC CO	Elizabeth.niemann@ky.gov
	Steve De Witte – KYTC CO	Stephen.dewitte@ky.gov
	Patrick Perry – KYTC CO	Patrick.perry@ky.gov
	Michael Loyselle - FHWA	Michael.loyselle@dot.gov
	Andy Rush - KIPDA	Andy.rush@kipda.org
	Jonathan West – HDR	Jonathan.west@hdrinc.com
	Rob Frazier – HDR	Robert.frazier@hdrinc.com
	Adam Hedges – HDR	Adam.hedges@hdrinc.com
	Philip Pfaffenberger – HDR	Philip.pfaffenberger@hdrinc.com
	Jeff Schaefer – HDR	Jeff.schaefer@hdrinc.com
	Steve Slade – WSP	Steve.slade@wsp.com
	Anne Warnick – WSP	Anne.warnick@wsp.com
	Cameron Manley – WSP	Cameron.manley@wsp.com

1. Introduction / Kick-off
    - The meeting started at 9:00am and lasted until approximately 11:30am.
    - Jonathan West started the Webex meeting by calling off the names of the attendees, giving a brief recap of the time since the Level 1 Screening meeting, and summarizing the upcoming stakeholder/LEO meeting.
2. Recap of Purpose & Need, Process, and Level 1 Screening
    - Rob Frazier gave a description of how the virtual format of this meeting will be held. Meeting attendees were given the opportunity to ask questions by using the Webex chat function. Attached to these meeting minutes is a summary of the questions asked during the meeting.
    - The draft Purpose & Need for the I-71 / I-264 Planning Study is:
        - The purpose of the I-71 / I-264 systems interchange improvements are:

- Improve traffic operations
- Improve safety
- Promote regional reliability of the interstate corridor

The I-71 / I-264 system interchange in Jefferson County, KY is a critical infrastructure element serving and connecting Louisville with Southern Indiana and the rest of the Commonwealth. Widening projects for I-71 and I-264 near the interchange are currently in project development to improve traffic operations and safety by adding capacity to the existing system to adequately move people and goods.

Traffic delays and congestion in the area are already evident and will become more significant in the next five years. The existing system interchange cannot adequately support current or future traffic demands and has been identified for improvements. The primary need is to better accommodate future peak period traffic volumes.

Traffic operations and safety issues will be evaluated for any needed improvements. Crashes in and near the interchange cause significant delay and there are several crash hot spots. Safety enhancements will be considered to address high crash areas and promote the reliability of the interstate traffic flow.

- Rob Frazier provided an overview of the evaluation process being used for this study, including alternative prescreening (Concept Development Charrette/workshop), Level 1 analysis (Level 1 Screening Meeting), and Level 2 analysis (Level 2 Evaluation Meeting).
- The goals for this Level 2 Evaluation Meeting were to:
    1. Further narrow the alternative concepts
    2. Discuss the number of recommended alternative concepts
    3. Raise important questions
    4. Identify additional supporting analysis
    5. Set the stage for making final recommendations
- The goal of this Planning Study is to not select a preferred alternative, but rather to lay out information for a future design team to pick up in preliminary engineering.

3. Level 1 Screening Results
    - Level 1 Screening included 15 different interchange alternate concepts grouped into 8 Alternative Concept Families (A-H)
    - Six of the 15 alternative concepts were eliminated leaving nine alternatives and four consolidated families of alternatives for further consideration and refinement: A, D, F, and H. Five of the eliminated alternatives did not address the important and beneficial realignment of I-71 northbound. The sixth flipped the northbound and southbound ramps leading to I-264 westbound in a way that did not improve traffic operations and added another bridge. It was eliminated in favor of a similar lower cost and more effective alternative. Further discussion of the 15 original alternatives and the six that

were eliminated can be found in the meeting minutes and materials from the Level I Screening Meeting held on 02-19-2020.

- Seven low-cost and short-term improvements were identified and all were retained from Level 1 Screening for further investigation and refinement. There were no immediate fatal flaws identified that would rule out any of the seven short-term alternatives and it was decided that further evaluation was warranted. Additional information on the seven short-term improvements can be found in the meeting minutes and materials from the Level I Screening Meeting held on 02-19-2020.
- HDR compiled the comments and results from the Level 1 Screening process and reexamined the issues, priorities, and impacts of the interchange concepts.
- Reviewing the comments and results from the Level 1 Screening led to the creation of a priority list of concerns about the interchange focused in the following four topics:
    #1. I-71 northbound (NB) horizontal and vertical alignment
    #2. Weaving movements on I-264 eastbound (EB) and westbound (WB)
    #3. Ramp configurations of I-71 southbound (SB) (left off-ramp to I-264, I-264 left sided on-ramp to southbound I-71)
    #4. Addressing congestion due to the merge condition on northbound I-71.

4. Overview of Level 2 Alternative Concepts
    - Analysis for the I-71 / I-264 interchange was broken down into three major areas of emphasis. These three major areas cover the four Level 1 topics above as noted. The three areas are illustrated in the Level 2 PowerPoint that is an attachment to these meeting minutes.
        - Area A: I-264 eastbound weave between US 42 and I-71 (#2 above)
        - Area B: I-264 westbound weave between I-71 and US 42 (#2 above)
        - Area C: I-71 ramps within the system interchange (#1, #3, and #4 above)
    - Within these three major areas of emphasis and based on the priority list of concerns from the Level I Screening, it was determined that seven independent issues existed to be further evaluated. These seven issues cover the four Level 1 topics above as noted. These seven issues are illustrated in the Level 2 PowerPoint that is an attachment to these meeting minutes.
        - I-264 EB Weave (US 42 to I-71) – Area A (#2 above)
        - I-71 NB at I-264 WB Exit Ramp – Area C (#1 above)
        - I-264 WB Weave (I-71 to US42) – Area B (#2 above)
        - I-71 SB Left Exit to I-264 WB – Area C (#3 above)
        - I-264 Left Entrance to I-71 SB – Area C (#3 above)
        - I-71 NB curve and grade – Area C (#1 above)
        - I-71 NB merge – Area C (#4 above)
    - Area A
        - I-264 EB Weave
        - The weaving volumes and origin-destination pattern were discussed, showing the weaving interaction to be approximately 2,500 vehicles during both peak periods in 2045 conditions.

- The area was evaluated using a traditional weave, a collector-distributor lane, and a bypass lane. All with and without achieving lane balance at the I-264 EB exit to I-71 NB & SB.
- The weave and collector-distributor lane alternatives without lane balance failed to provide the operational improvements needed to meet project purpose & need and were removed from further consideration.
- Maintaining lane balance in the weave condition provides for a Type B weave operation which is critical for operational success as it provides a choice lane and allows for weave movements to occur with 1 or 0 lane changes.

- Area B
  - I-264 WB Weave
  - A discussion of the weaving volumes and origin-destination patterns notes that the weaving interaction is much lower than for the I-264 EB weave movements. Resulting in approximately 500 and 1,800 vehicles in the AM and PM peaks.
  - Components were evaluated using a traditional weave, a collector-distributor lane, and a mainline braid with slip ramp to US 42.
  - The collector-distributor and mainline braid components appeared to be overbuilt, with the traditional weave providing acceptable operational results. Therefore, these two configurations were removed from further consideration.
- Area C (Approaches to I-71 / I-264 Interchange are considered a major fork, per AASHTO Green Book (7th Edition), Figure 10-79)
  - I-71 NB Mainline at I-264 WB Exit Ramp
    - With the existing configuration, the I-71 mainline functions like a left-sided exit ramp with a tight radius (see I-71 mainline through the interchange below)
  - I-71 SB Left Exit to I-264 WB
    - Left-sided exits are atypical of a modern interchange
    - Current design is a parallel type ramp on the left side, this would change if the I-71 mainline was widened to three lanes and the ramp was widened to two lanes
  - I-264 EB Left Entrance to I-71 SB
    - Left sided entrances are atypical of a modern interchange
    - Majority of traffic is entering from I-71 SB and is forced to merge
  - I-71 NB Mainline through the Interchange
    - Insufficient curvature (R~815') in a cut section and in an upgrade
    - This is a capacity and safety constraint
  - I-264 EB Merge with I-71 NB
    - Currently the single lane ramp from I-264 EB merges into the two mainline lanes
    - Existing and future demand volumes require two ramp lanes. In the future, these two ramp lanes would merge with two mainline lanes into a three-lane I-71 NB section

  - I-71 NB Mainline at I-264 WB Exit Ramp and I-71 NB curve & Grade were issues highlighted during the Level 1 screening as being a top priority and the alternative concepts took this into consideration.
  - I-71 NB Merge is required to be a four-lane merge condition based on future volumes, this was also taken into consideration in the alternative concepts.
  - Although atypical, the left-sided entrance and exit ramps on I-71 SB do not demonstrate clear safety issues. There are relatively few crashes in the vicinity of the left-side entrance ramp. There is a cluster of crashes in the vicinity of the southbound left-side exit ramp, but those crashes may be due to both congestion and the current parallel ramp design. It is expected that a future major diverge configuration with lane balance would improve safety. The Highway Safety Manual analysis and a review of available research did not indicate that the left side ramp would yield a substantially different safety outcome compared to a right-side ramp. This is based on the future design being a major diverge with a three-lane main line, a two-lane ramp, and two lanes on the mainline through the interchange. (The results would have been different if it was not a major diverge.)
- After evaluating each of these components it was determined to carry forward the options listed below within each area. (The three areas match the Level 1 priority topics as noted and are illustrated in the Level 2 PowerPoint that is an attachment to these meeting minutes.)
  - Area A – Weave, C-D, Bypass Ramp (Level 1 topic #2)
  - Area B – Weave (Level 1 topic #2)
  - Area C – Left Off-Ramp, Left On-Ramp (existing condition), Right Off-Ramp, Right On-Ramp (Level 1 topics #1, #3, and #4)
- Six alternative concepts were created based on these needs. Each alternative assumes that the project 5-804.00 improvements to the US 42 interchange and to I-264 between I-71 and Westport Rd. are in place when this interchange (I-71/I-264) is reconstructed. It is also assumed that mainline I-71 is widened to six lanes leading into and out of the interchange. I-71 will remain 4 lanes through the interchange. These improvements have been captured in the 2045 future build year models. Refer the attachments including the Level 2 presentation and matrix for images and additional information.
  - Alternative Concept B1
    - Will keep the I-264 EB weave, and I-264 WB weave in place
    - Realigns northbound I-71 through the interchange with a larger radius
    - Keeps the left-sided entrance and exit ramps on I-71 southbound
    - Meets lane balance on all diverges and merges
  - Alternative Concept A1.1
    - Will keep the I-264 EB weave, and I-264 WB weave in place
    - Realigns NB and SB I-71 through the interchange onto a single alignment
    - Creates right-sided entrance and exit ramps on I-71 southbound
    - Meets lane balance on all diverges and merges
  - Alternative Concept A2.1

- Creates a C-D lane from US 42 to I-71 NB & SB
- Keeps I-264 westbound weave
- Realigns NB and SB I-71 through the interchange onto a single alignment
- Creates right-sided entrance and exit ramps on I-71 southbound
- Meets lane balance on all diverges and merges

- Alternative Concept A2.2
  - Creates a C-D lane from US 42 to I-71 NB & SB
  - Keeps I-264 westbound weave
  - Realigns northbound I-71 through the interchange with a larger radius
  - Keeps the left-sided entrance and exit ramps on I-71 southbound
  - Meets lane balance on all diverges and merges
- Alternative Concept A3.1
  - Creates a Bypass lane from US 42 to I-71SB
  - Keeps I-264 westbound weave
  - Realigns NB and SB I-71 through the interchange onto a single alignment
  - Creates right-sided entrance and exit ramps on I-71 southbound
  - Meets lane balance on all diverges and merges, except at the I-264 EB ramps to I-71
    - This can be investigated further for how bypass ties-in
- Alternative Concept A3.2
  - Creates a Bypass lane from US 42 to I-71SB
  - Keeps I-264 westbound weave
  - Realigns northbound I-71 through the interchange with a larger radius
  - Keeps the left-sided entrance and exit ramps on I-71 southbound
  - Meets lane balance on all diverges and merges, except at the I-264 EB ramps to I-71
    - This can be investigated further for how bypass ties-in
- RW and Utility Impacts
  - Approximately 0.25 acres (11 parcels) of fee simple RW, and 0.75 acres (14 parcels) of permanent easement is needed for alternatives A2.1, A2.2, A3.1, & A3.2. In preliminary engineering the alignment could be further refined to potentially eliminate the need for additional RW or reduce the amount of RW needed even further.
  - AT&T buried cable and MSD force main/gravity sewer potentially impacted by alternative concepts A2.1, A2.2, A3.1, & A3.2
  - Windstream buried fiber optic crossing on I-264 between US 42 and I-71 is potentially impacted with all alternative concepts. Coordinate with project 5-804.00 to determine if this utility is being relocated with this project. Possibly relocate to a location not impacted by future I-71 interchange reconstruction

5. Overview of Low-Cost Improvements - Refer the attachments including the Level 2 presentation and low-cost alternatives matrix for images and additional information.
   - L-1: Extend 3rd Lane past Lime Kiln Bridge on I-71 Northbound

  - Cost updated to include RW and Utilities - $1.66 million
  - Would require a design exception for right side shoulder width on I-71 NB under the Lime Kiln bridge
  - Current issue is that traffic on the ramp from I-264 EB to I-71 NB merges with I-71 NB close to the gore, thus not fully utilizing the full ramp length. Lengthening the distance to merge may not change that driving behavior.
  - This improvement would be negated by mainline I-71 widening
- L-2: Lane Tattoos
  - Cost updated to $145,000
  - Improves driver awareness and lane utilization. Encourages advanced lane changes.
  - Based on a before and after comparison of the installation of lane tattoos on I-64/I-75 there is a potential to improve travel speeds
- L-3: Guide Signing
  - New guide signs at the I-71 / I-264 interchange are currently being installed by District 5
  - This improvement is to be implemented if additional overhead signage is needed
  - Cost $500,000 – $750,000
  - Potential or minor safety and operational improvements
- L-4: Vegetation Management to Improve Sight Distance
  - This option will improve sight distance, reduce potential roadside hazards, help with the drying of the roadway following rain events
  - This low-cost alternative would be expected to be completed by maintenance forces or the use of a maintenance contract.
- L-5: Dynamic Message Signs (DMS)
  - Cost updated to between $625,000 and $750,000
  - Addition of four dynamic messaging signs within the project area
    - Arterial DMS at US 42 interchange
    - Side mount DMS on I-264 EB
    - Overhead DMS on I-71 NB
  - Provides drivers with additional information and advanced warning at key decision points, improves driver awareness
  - There is the potential for improved system reliability
  - There is the potential for a reduction (1-5% rear-end reduction) in crashes
- L-6: Barrier & Shoulders through rock cut on I-71 Northbound through interchange
  - Cost updated to $395,000
  - May improve driver comfort and potentially reduce crash severity
  - There would be a reduction in shoulder width and the improvement would be negated with widening or realignment of I-71 NB.
- L-7: Gore extension at I-264 Eastbound Ramp Merge with I-71 Northbound
  - Cost updated to $235,000
  - Potential delay reduction due to improved merge conditions, and reduction in speed differential for merging vehicles
  - Potential maintenance issue with the delineators

6. Discussion of Level 2 Options (Matrix Evaluation)
    - The intent of the evaluation matrix is to show that all alternative concepts can meet the purpose & need, and to help the project team advance the best concepts. Included in this matrix, per alternative concept, are costs, MOT & Design challenges, Right of Way & Environmental impacts, traffic operations & safety analysis results, and benefits & drawbacks.
    - There were some limitations to the ISATe analysis for minimum radius. So the No-Build results may actually be under-predicting the number of crashes.
    - All alternative concepts operate at an acceptable Level of Service (LOS)
    - A sensitivity analysis was performed to test the alternative concepts with an increase to future 2045 year traffic of 25% - All configurations on I-264 EB and WB are still anticipated to operate with acceptable LOS
    - Left sided ramps have been shown to have potential safety issues, but that is mainly applicable to service interchanges and ramps with speed change lanes - not lane drops or major merge/diverge conditions. The historical crash data shows issues at the northbound I-71 diverge to I-264 westbound and at the southbound I-71 speed change lane for the exit to I-264 westbound. All of the top rated options include improving the alignment of the northbound diverge. The southbound diverge will be improved by converting it from a speed change lane to a major diverge.
    - As a general summary in all alternative concepts, each of the three approaches to the interchange are being improved and will tie adjacent improvements together (I-71 mainline widening and 5-804.00 improvements to the US 42 interchange)
    - Potential noise impacts: A noise analysis would be required for all of the alternative concepts: B1, A1.1, A2.1, A2.2, A3.1, and A3.2. (These options include adding a lane to the I-71 SB to I-264 WB ramp. This would be a Type 1 project per FHWA Noise Policy.)
    - If alternative concept B.1 is constructed (possibly with mainline I-71 widening) then in the future, if needed, the Bypass lane could still be constructed and tied-in.
7. Recommendations
    - Interchange alternative concepts: Of the six Build alternative concepts, B1, A2.2, and A3.2 were rated highest considering the overall benefits, drawbacks, and estimated costs (see discussion above). Alternative concepts A1.1, A2.1, A3.1 were rated lower due to high costs relative to the expected benefits. These three options all included the I-71 SB right exit and right entry lanes to/from I-264, which adds approximately 9 million to the cost and does not appear to yield significant travel time or safety benefits. These lower rated options will be documented in the Level 2 analysis report, but will not be carried forward.
    - Low Cost Improvements
        - L-1: Remove from consideration
        - L-2: Advance
        - L-3: Advance, but monitor ongoing signing upgrades
        - L-4: Advance
        - L-5: Advance, check if any DMS could be included in project 5-804.00
        - L-6: Remove from consideration

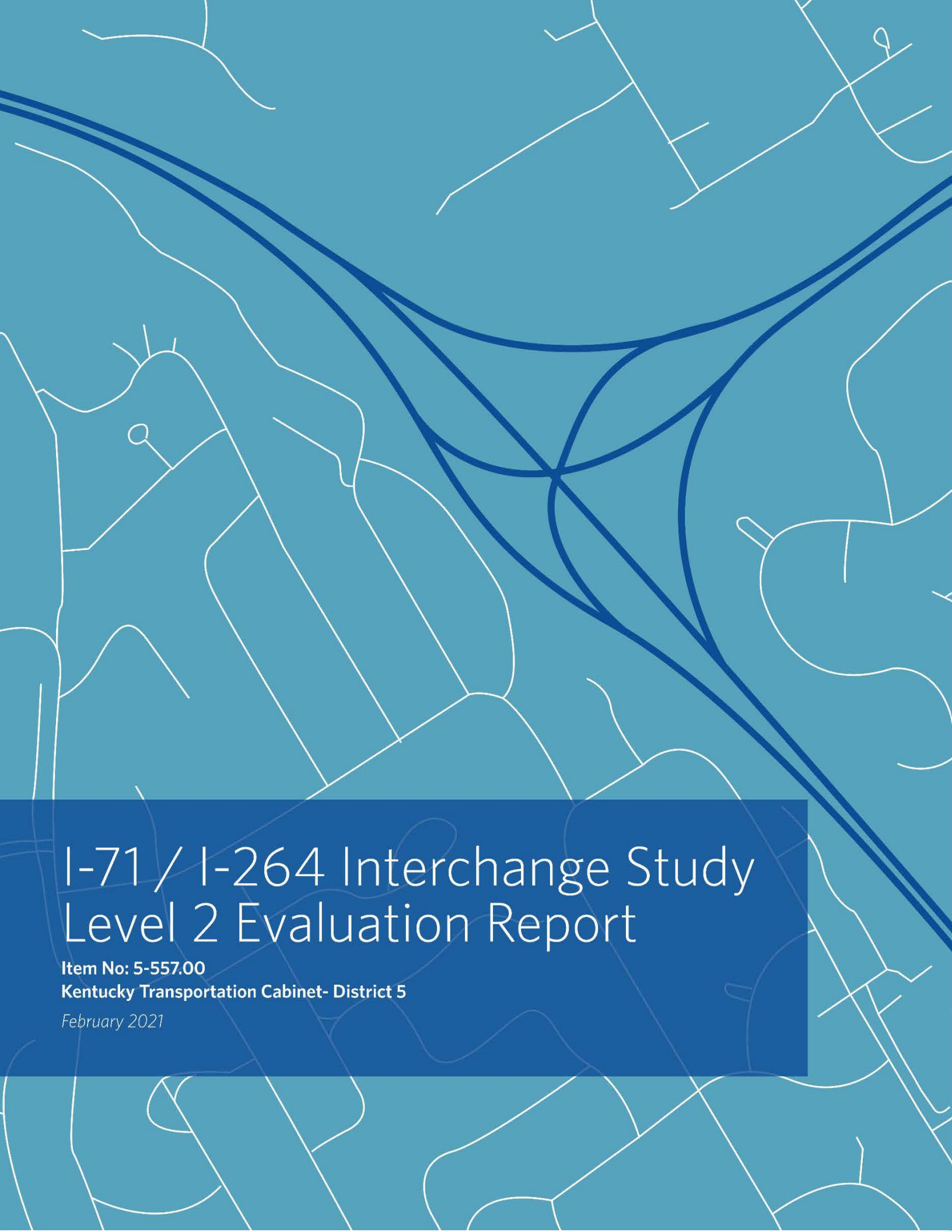
- L-7: Advance, but first create an option to restripe merge.

8. Recap, Next Steps, Closing
    - HDR to create a ranking/implementation order of the low cost improvements
    - HDR will review and respond to all of the chat comments received during the Level 2 meeting.
    - After receiving comments and issuing final meeting minutes, HDR will distribute the draft Level 2 Analysis report
    - 5-557.00 – Stakeholders/LEO meeting scheduled for 7-27-2020
9. Attachments:
    - Level 2 Screening PowerPoint presentation (in PDF format)
    - Meeting Chat Notes and Responses (in PDF format)
    - Level 2 Alternative Concepts Evaluation Matrix
    - Level 2 Lower Cost Options Evaluation Matrix
    - Alternative Concept Exhibits: B1, A1.1, A2.1, A2.2, A3.1, A3.2
    - Alternative Concept MOT Exhibits: B1, A1.1, A2.1, A2.2, A3.1, A3.2



Appendix H

Level 2 Report



I-71 / I-264 Interchange Study
Level 2 Evaluation Report

Item No: 5-557.00
Kentucky Transportation Cabinet- District 5

February 2021

Contents

1 Introduction 1
1.1 Project Overview 1
1.2 Goals and Objectives 2
1.3 Project History 2
1.4 Traffic Overview 3
1.5 Safety Overview 5
1.6 Environmental Overview 6
1.7 Geotechnical Overview 8
2 Level 1 Screening 8
2.1 Level 1 Screening Process 8
2.2 Post Level 1 Screening Concepts 9
2.3 Other Low-Cost, Short-term Improvements 12
3 Level 2 Approach 12
3.1 Examination of Interchange Components 12
3.1.1 Area I – I-264 EB 13
3.1.2 Area II – I-264 WB 15
3.1.3 Area III – System Interchange Area 16
3.2 Analysis of the Individual Components 19
3.2.1 Area I – I-264 EB 19
3.2.2 Area II – I-264 WB 20
3.2.3 Area III – System Interchange Area 21
4 Development of Level 2 Concepts 22
4.1 Development of Level 2 Concepts 22
4.1.1 B-1 23
4.1.2 A-1.1 23
4.1.3 A-2.1 24
4.1.4 A-2.2 24
4.1.5 A-3.1 24
4.1.6 A-3.2 24
5 Evaluation of Level 2 Concepts 24
6 Low-Cost, Short-term Improvements 29
6.1 I-71 NB Lane Extension 29
6.2 Lane Tattoos 29
6.3 Guide Signing 30
6.4 Vegetation Management to Improve Sight Distance 30
6.5 Dynamic Congestion Warning Signs 30
6.6 Barrier and Shoulders through Cut 31
6.7 Gore Extension 32
7 Level 2 Findings 33
7.1 Level 2 Screening Meeting 33
7.2 Interchange Concepts Findings 33
7.3 Low-Cost, Short-Term Improvement Findings 34
7.4 Next Steps 34

Figures

Figure 1: Project Study Steps....1
Figure 2: Project Study Area....1
Figure 3: Design Year (2045) Peak Period Interchange Volumes....4
Figure 4: Design Year (2045) Peak Period I-264 Weaving Volumes....5
Figure 5: Retained Level 1 Interchange Concepts....11
Figure 6: I-71 & I-264 Interchange – Focus Areas and Independent Issues....13
Figure 7: I-264 EB Weave Configurations....14
Figure 8: Area I Configurations....15
Figure 9: Area II Configurations....16
Figure 10: Area III Concepts....18
Figure 11: Level 2 Interchange Concepts....23
Figure 12: Lane Tattoo Example....29
Figure 13: Tree Clearing Existing Condition....30
Figure 14: Existing and Proposed Dynamic Message Signs....31
Figure 15: Barrier and Shoulder through Cut Example....32
Figure 16: Gore Extension Example....32
Figure 17: Level 2 Interchange Concepts Findings....34

Tables

Table 1: Environmental Constraints Summary....6
Table 2: Area I Analysis Results....19
Table 3: Area II Analysis Results....20
Table 4: Area III Analysis Results....21
Table 5: Level 2 Concept Components....22
Table 6: Level 2 Evaluation Matrix....25

1 Introduction

1.1 Project Overview

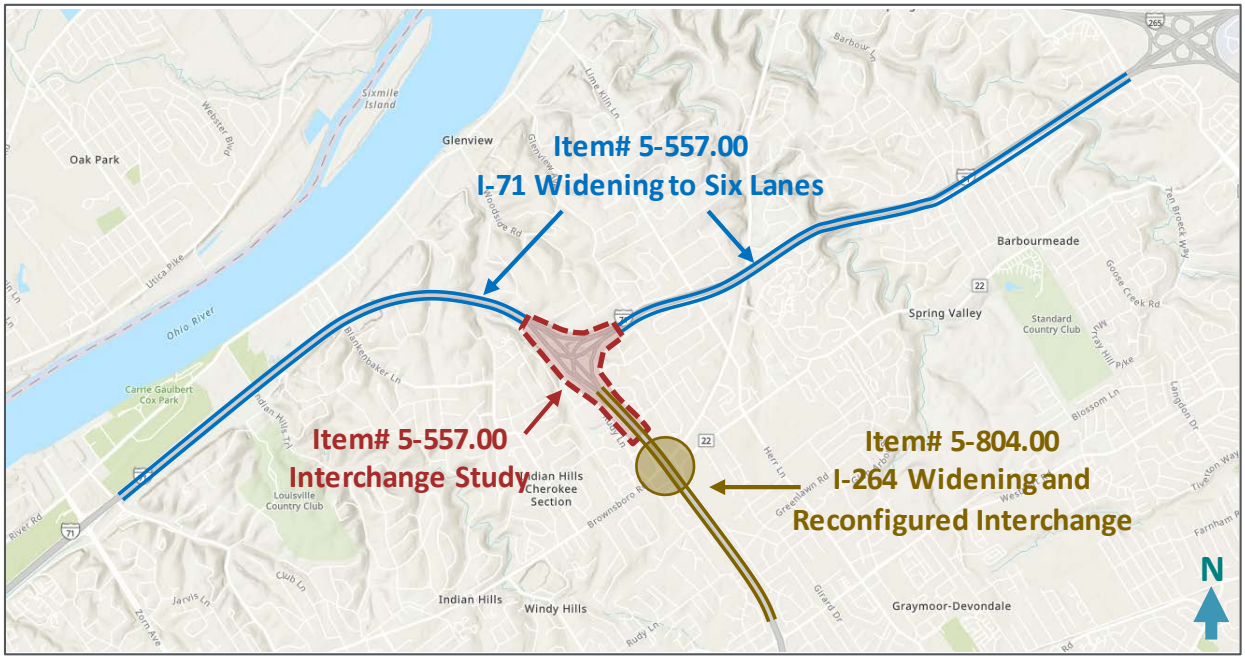
This report presents the Level 2 Evaluation of concepts for improving the I-71/I-264 system interchange. This is the fifth of six steps for studying and evaluating improvement concepts for the interchange as shown in **Figure 1**. Step 1 defined the current and future conditions and project needs. Step 2 developed a range of improvement concepts. Step 3 was the Level 1 Screening of those concepts. Step 4 involved obtaining public input. This report documents Step 5, the detailed Level 2 Evaluation of the concepts coming from the screening analysis. Step 6, developing the final report and project sheets, is the last step. The recommendations will be based on this Level 2 Evaluation, comments and feedback from the project team, public engagement comments and feedback, and any follow-up technical analysis.

Figure 1: Project Study Steps



As illustrated in **Figure 2**, this interchange study is being conducted within the context of the larger project to widen I-71 from Zorn Avenue to the I-265 Interchange (Item #: 5-557.00). Therefore, any improvement concepts developed for the interchange must link to proposed configurations of the widening project. Concepts developed for this study must also tie into the adjacent project under development to improve the US 42 at I-264 interchange and widen I-264 between I-71 and the Westport Road interchange (Item #: 5-804.00).

Figure 2: Project Study Area



The I-71/I-264 interchange currently experiences congestion during both the AM (7-9) and PM (4-6) peak periods. This congestion is not uniform, with the most congested area being the I-264 eastbound (EB) approach to the I-71 interchange. This is due to the proximity of the US 42 / I-264 interchange, weaving interactions, and the single-lane ramp to northbound I-71. The northbound (NB) and southbound (SB) diverge areas along I-71 also experience congestion during the respective peak traffic volume periods (SB in the morning and NB in the afternoon).

In addition to congestion, the interchange has experienced a significant number of crashes impacting the overall corridor safety and reliability. Over the last three years (2017 – 2019) there were 239 crashes in the interchange area. Of these, two were fatal crashes, 38 were injury crashes, and 199 were property damage only crashes. Primary crash clusters have occurred at the NB and SB diverge areas as well as along the I-71 NB curve through the interchange. A total of 47 crashes occurred during the PM peak hour compared to 19 crashes in the AM peak hour, which can be partially attributed to heavier traffic volumes and congestion.

Reliability is defined as the degree of certainty and predictability of travel times on a highway. Travel time reliability can be influenced by many factors including weather, work zones, special events, non-crash incidents (stalls, debris, etc.), and crashes. Crashes by nature are unpredictable events and when they occur in the I-71/I-264 interchange area, they negatively impact travel time reliability. They can increase commute times and cause queues to extend far upstream. This means that when a crash occurs in the interchange area, drivers are more likely to be late reaching their destination.

1.2 Goals and Objectives

The goal of the I-71/I-264 Interchange Study is to develop several physically and fiscally feasible interchange improvement concepts that meet the following three primary objectives:

1. Improve traffic operations
2. Improve safety
3. Promote reliability of the regional interstate system

The I-71 / I-264 system interchange in Jefferson County, KY is a critical piece of infrastructure serving and connecting Louisville, Southern Indiana, and the rest of Kentucky. The current I-71/I-264 interchange cannot adequately support current or future traffic demands and has been identified for improvements. Widening projects for I-71 and I-264 that tie into this interchange are currently in the project development phase. These projects should improve traffic operations and safety by adding capacity to the existing system (new lanes) and upgrading key interchange elements (ramps and intersections) to adequately move people and goods. Traffic delays and congestion at the interchange are already evident and are projected to become more significant in the future. The primary need is to improve the interchange to better accommodate peak period traffic volumes, while improving safety at this interchange. Crashes within the interchange have caused serious injuries and significant traffic delays. Safety enhancements are also needed to reduce severe crashes and to promote the reliability of the interstate traffic flow.

1.3 Project History

The 5-557.00 project was programmed in the Enacted Kentucky 2018 Highway Plan. This project kicked-off in the fall of 2019 with a project team design charrette to examine the I-71 / I-264 interchange. This charrette brainstormed initial improvement concepts, which were evaluated and included in a priority list of ideas to be investigated further in the planning study. Five main interchange design concepts and several low-cost, short-term improvements resulted from this charrette. These design concepts were refined and developed in early 2020. A Level 1 screening analysis was conducted in early 2020 along with a project team working



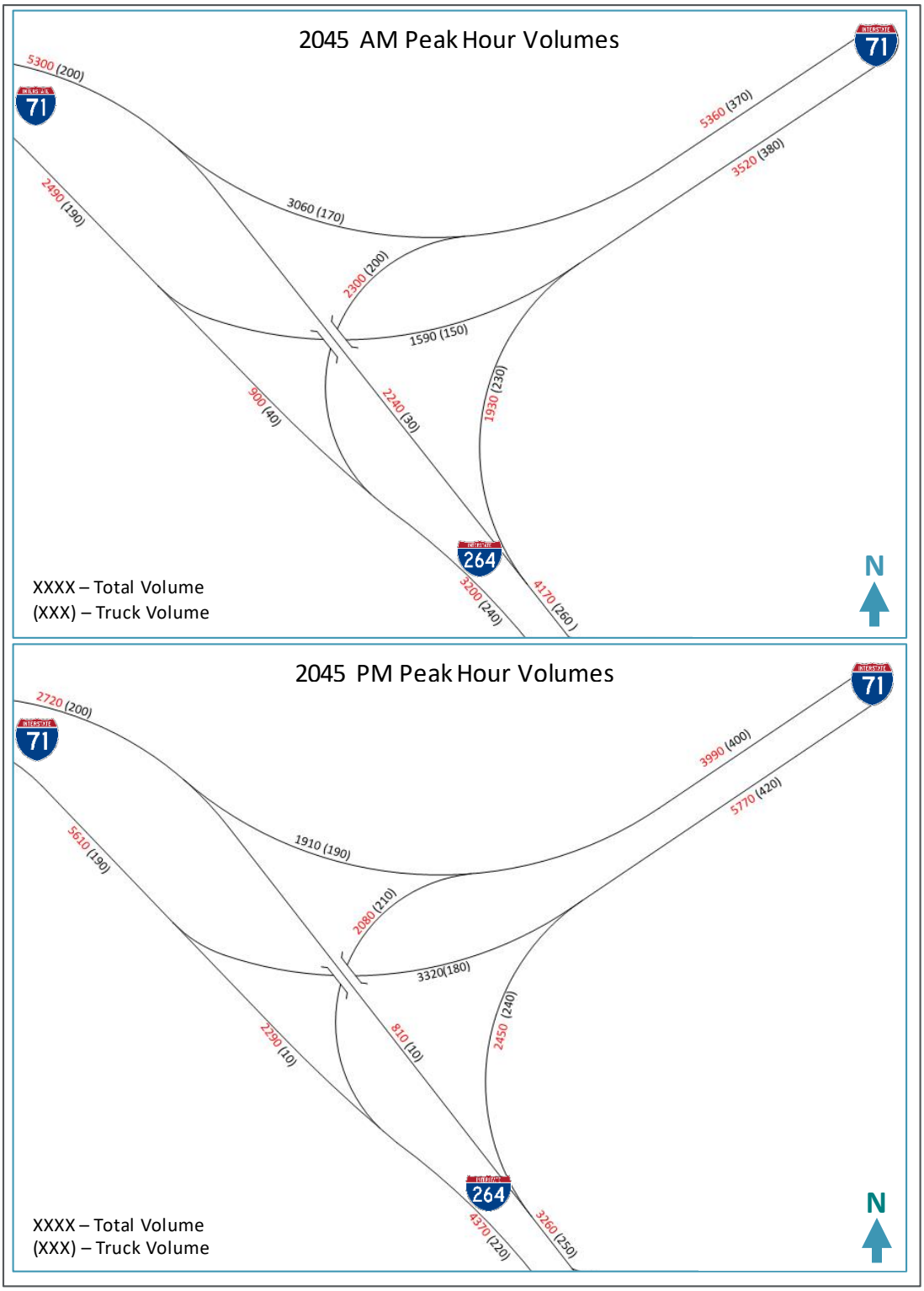
meeting on that topic. In the Summer of 2020, a detailed Level 2 Evaluation was conducted, and a meeting was held to discuss that analysis and the draft findings of that work. This report documents the Level 2 Evaluation and lays the groundwork for the Draft Final Report to be completed before the end of 2020.

1.4 Traffic Overview

During peak periods, the interchange serves a significant volume of traffic and experiences substantial congestion. The existing (2019) daily traffic entering the interchange from the three legs exceeds 100,000 vehicles per day (39,000 approaching on I-71 SB, 29,000 on I-71 NB, and 33,000 on I-264 EB). As this interchange provides connectivity to and from downtown Louisville, the traffic volumes exhibit significant peak congestion with the majority of traffic flowing toward downtown (southbound) during the AM peak and away from downtown (northbound) during the PM peak period.

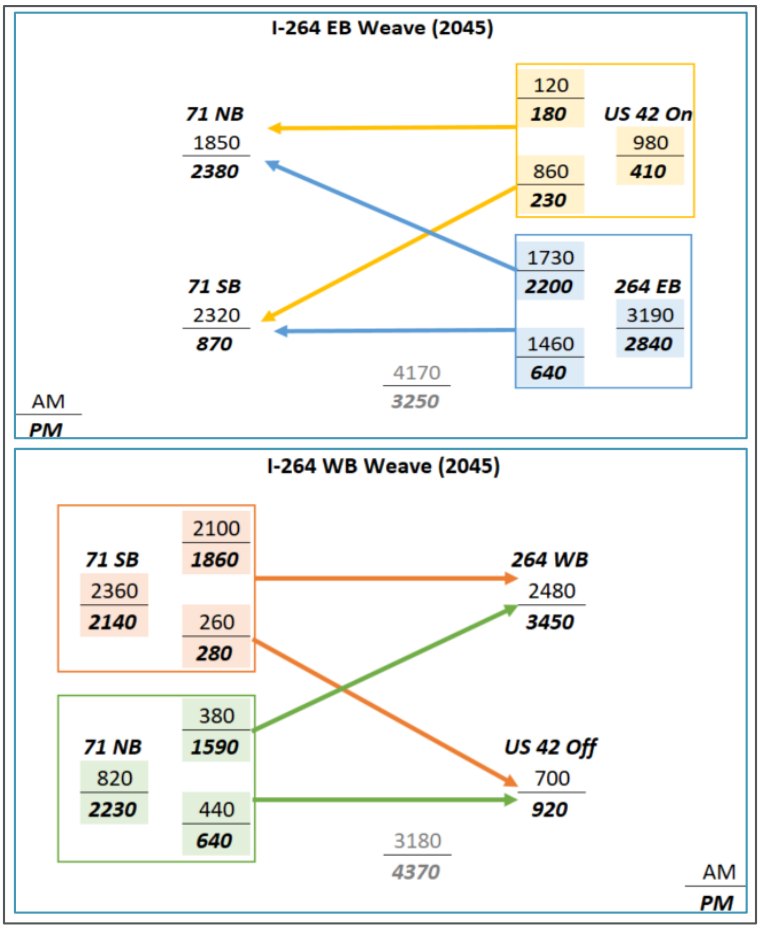
Traffic projections were developed and provided by KYTC for opening (2025) and design (2045) year conditions for daily and peak periods. The project team worked in conjunction with KYTC to amend the design year peak hour volumes based on volume balancing and adjusted land use projections. **Figure 3** shows the design year peak period volumes through the interchange. Additional traffic projection information is included in **Appendix A**.

Figure 3: Design Year (2045) Peak Period Interchange Volumes



In addition to the projected volumes through the interchange, the interacting volumes within the weaving segments are vital to understanding the capacity constraints and developing improvement concepts. The 2045 peak period weaving volumes for the two I-264 weaving segments are shown in **Figure 4**.

Figure 4: Design Year (2045) Peak Period I-264 Weaving Volumes



As shown in **Figure 4**, the I-264 EB weaving volumes are projected to have a significantly higher magnitude than the I-264 WB weaving volumes. The conflicting volume for the I-264 EB weaving movement is more significant during the AM peak periods as the weaving ramp and mainline volumes are projected at 860 and 1,730 respectively. During the PM peak these same volumes are 230 and 2,200. The conflicting volumes in the I-264 WB direction are significantly lower - with less volume destined for the US 42 ramp from I-71 SB with less than 300 vehicles for both peaks and lower I-71 NB to I-264 WB volumes with 380 and 1,590 for the peak periods.

1.5 Safety Overview

Along with improving traffic operations and promoting the reliability of the regional interstate system, improving safety was identified as a primary objective for this study and serves as a key factor in the development and evaluation of the concepts. The historic crash data shows that there were 239 crashes between 2017 and 2019 in the interchange area. Of these, two were fatal crashes, 38 were injury crashes, and 199 were property damage only crashes. The primary collision types through the interchange are rear end (43%), sideswipe – same direction (27%), and single vehicle collisions (24%). These are all indicative of the existing environment of the interchange; rear end and sideswipe collisions are common in areas of congestion and decision making or lane changing and the single-vehicle collisions are likely attributed to the geometric features of the roadway including grade and curvature.



The primary locations of the crashes through the interchange show clustering along I-71 NB near the diverge for I-264 westbound (WB), through the I-71 NB mainline curve section of the interchange, and approaching the I-71 SB diverge for I-264 WB. These locations are key focal areas for the concept designs to address the identified safety issues.

1.6 Environmental Overview

This Environmental Overview (EO) documents the environmental features currently known to exist within the I-71 / I-264 interchange study area. This summary is based on existing GIS datasets, state and federal agency databases, literature research, archival data, and a limited windshield survey. Site reconnaissance and desktop research were performed to identify and locate areas of importance or concern that lie within the study area. **Table 1** shows the environmental categories and associated constraints.

Table 1: Environmental Constraints Summary

Environmental Category	Environmental Constraint
Natural Environment	
Streams	Two intermittent and two ephemeral unnamed streams within existing ROW in the interchange area
Wetlands	None
Floodplains	Southwest portion of the interchange area is within a designated floodplain
Threatened & Endangered Species	Within Indiana bat and Northern Long-Eared bat Summer 1 priority habitat area, three bats, one plant, and eight mussels were listed by the USFWS for the project area; no habitat for plant or mussels
Geology	Outer Bluegrass Physiographic region underlain by limestone
Human Environment	
Air Quality	Project with Low Potential MSAT; Project would need to be included in conforming TIP and STIP
Noise	Noise impacts anticipated; traffic noise analysis to be completed in future for preliminary design concepts
Environmental Justice	None – Minority and low-income populations low compared to state and county %
Land Use	No change in land use
Neighborhoods	Project adjacent to Indian Hills, Riverwood, Glenview, Glenview Hills, Northfield, and Glenview Manor
Community Facilities and Services	None
Farmland	None
Hazardous Materials/USTs	8 EDR sites identified and remediated. Contractor should prepare contingency plan to address the removal/disposal of any petroleum or hazardous contaminated soils that could be encountered during future road construction activities.
Historic Structures	JF-534 - NRHP Listed; JF-2645 – NRHP Eligible
Archaeology	No Phase I archaeological survey expected (unless ground disturbance outside existing ROW in specified areas)
Section 4(f) Properties	No publicly owned parks or wildlife management areas Two NRHP listed and eligible sites in project area
Section 6 (f) Properties	No publicly owned parks in study area

The following information briefly summarizes potential environmental issues that may require consideration as part of the development of new alignment concepts or interchange configurations.

NATURAL ENVIRONMENT

The interchange area contains two unnamed intermittent and ephemeral streams that run adjacent to, perpendicular to, and through culverts underneath the existing interstate. The streams are poor quality with erosional banks. No mapped wetlands are present in the interchange area. The southwest portion of the project area is within a designated FEMA floodplain.

Several endangered species with potential to occur in the study area were identified during early coordination with the US Fish and Wildlife Service. Species included three mammals (bats), one plant, and 10 mussel species. No critical habitats are within the study area. Known Summer 1 priority habitat for the Indiana bat and northern long-eared bat are found in the study area. Gray bat summer foraging habitat is also found along the intermittent stream flowing along the southern extent of the project area. No other endangered species habitat is located in the interchange area.

HUMAN ENVIRONMENT

An alignment concept within the study area should not create environmental concerns related to Environmental Justice, changes in land use or zoning, direct impacts to community facilities (e.g., schools, churches, parks), 6(f) resources, or farmland. Direct small-scale impacts to neighborhoods along I-264 could occur depending on which concept is chosen. Indirect, short-term impacts may occur to neighborhoods and community facilities as a result of construction activities. Improvements to existing infrastructure will occur on or adjacent to the interstate and the interchange. These activities will result in unavoidable disruption of travel to those living or working in or adjacent to the interstate and to all travelers who utilize this interstate corridor during construction activity.

The interchange improvement project is a "Project with Low Potential MSAT (Mobile Source Air Toxics) Effects" since the design year traffic is less than 140,000 to 150,000 AADT. The study area is also in attainment for all transportation criteria air quality pollutants with the exception of the 8-hour Ozone (2015) standard. The future design project would need to be included in a conforming TIP and STIP for it to receive federal funding.

Based on the noise analysis results from the I-71 widening project identifying noise impacts above Noise Abatement Criteria, noise impacts would be anticipated in the interchange planning study area. As such, a traffic noise analysis will likely be necessary for the interchange project as part of the environmental documentation necessary during any future development phase of the interchange.

A review of the Environmental Data Resources, Inc. (EDR) database search dated November 15, 2019 was conducted. Based on the review, eight sites are within the existing right-of-way or sufficiently close to that boundary to be of consideration. Of these sites, five are from the state spill and/or release related (SPILLS) database and three are spills recorded from the State Leads List (KY SHWS). The eight sites have been remediated. However, the selected construction contractor should consider preparing a contingency plan to address the removal/disposal of any petroleum/hazardous contaminated soils that could be encountered during future road construction activities. No underground storage tanks (USTs) were identified in the study area. Should any bridges or other structures be demolished or renovated, they will require an asbestos inspection and abatement if any of the structures contain asbestos.

Corn Island Archaeology, Inc. (Corn Island) completed a cultural historic survey for the I-71 widening project including a large portion of the interchange to determine the presence of above-ground resources within an Area of Potential Effect (APE) within the study area that may be listed in or eligible for listing in the National Register of Historic Places (NRHP). A NRHP-listed property (JF-534) is located just outside of the study area to

the northwest and a NRHP eligible site (JF-2645) is located within the interchange area to the northeast. These two NRHP listed and eligible sites would also be considered Section 4(f) historic resources. (Neither of these sites would be expected to be adversely affected by any of the Level 2 concepts discussed later in this report.) No Section 4(f) use would be expected.

Corn Island prepared an archaeological overview for the I-71 / I-264 interchange study area. They researched existing conditions pertinent to documented archaeological resources within the study area and assessed the potential for undiscovered resources. Most of the area of potential effect for the project is within disturbed right-of-way, and a full Phase I archaeological survey would not be anticipated. If future design changes occur and any new right-of-way is required, an archaeological survey could be required, depending on setting and conditions.

1.7 Geotechnical Overview

The project area is situated within the Bluegrass physiographic province of Kentucky and is depicted on the Jeffersonville Geologic Quadrangle Map (Map No. GQ-1211). This area is characterized by gently rolling hills caused by the gradual ongoing weathering of relatively thick-bedded Paleozoic limestone strata that has been structurally uplifted on a regional level by the Cincinnati Arch. The project area is immediately underlain with near-surface Silurian to Devonian-aged limestone beds of the Louisville and Jeffersonville Formations. This strata is designated to have a medium to high karst potential by the Kentucky Geological Survey – thus the chemical dissolution of limestone can readily form sinkholes and caverns. Limestone beds are sub-horizontal, with no active or known faults or significant structural features mapped within the project area. Near-vertical rock cuts observed within the interchange, along with minor rock debris observed along the catchment areas, suggest relatively competent rock qualities.

The overlying soils within the area consist primarily of clay like materials with sand fractions ranging from 5 to 10 feet in depth. These soils typically achieve adequate stability when constructed on 2H:1V cut slopes. A fifteen (15) foot overburden bench is typically utilized at the soil/rock interfaces. The underlying limestone appears to exhibit qualities sufficient to support 0.5H:1V pre-split cut slopes. Rock slopes less than 10 feet in depth are typically flattened to 2H:1V as preventative maintenance measure. Embankment slopes will vary depending on the quantity and quality of the materials available and heights required.

Subgrade materials within this area typically require chemical stabilization be incorporated into the pavement design. Undercutting beneath areas where the pavement requires removal should be anticipated, as well as in any other low-lying areas.

2 Level 1 Screening

2.1 Level 1 Screening Process

The purpose of the Level 1 screening process was to present the interchange concepts developed from the design charrette, eliminate several of the concepts that did not meet the goals and objectives of the study, and select a smaller number of concepts to carry forward to be further refined, including more detailed cost estimates and safety analysis. The Level 1 screening meeting occurred in early 2020. A preliminary traffic analysis using origin-destination (O-D) data was performed showing weaving issues on I-264 EB between the US42 interchange and the ramp to I-71 NB (see **Figure 4**). A more minor weaving issue was identified on I-264 WB between I-71 and the US42 interchange.

Fifteen different interchange concepts were developed for the Level 1 screening stage. These concepts were grouped into families based on similar attributes resulting in eight distinct families of concepts (A, B, C, D, E,

F, G, H). At the Level 1 screening meeting each concept was presented and evaluated by the project team. Based on the discussion during the Level 1 screening, several concepts and/or pieces of concepts were eliminated as they did not adequately address some of the main concerns regarding the interchange, namely the alignment of the I-71 NB mainline through the interchange. Four families of concepts remained after the Level 1 screening: A, D, F, and H. Based on the initial analysis, these four sets of concepts best met the goals and objectives of the study in a cost-effective manner. As part of the Level 1 follow-on work, the project team agreed to further explore the design challenges presented by the interchange considering: lane balance, ramp braiding, weaving, possible design exceptions, speed differentials, and the use of performance metrics.

In addition to the interchange concepts, lower cost, short-term improvement options for the interchange were also discussed and evaluated. Based on the recommendations by the project team, it was determined that all of the low cost, short-term improvement options should be carried forward for additional consideration and refinement in the Level 2 process.

2.2 Post Level 1 Screening Concepts

The four concept families that were retained for further consideration from the Level 1 screening were the A, D, F, and H concepts. The other families and individual concepts were eliminated because they did not adequately address the primary project needs. Drawings for each of the Level 1 Concepts are shown in **Appendix B**.

Below is a summary and description of each concept that was carried forward from the Level 1 screening. **Figure 5** shows a thumbnail of each of the retained Level 1 concepts and the improvement options listed have been color coded to correspond to the component improvement in each thumbnail.

Concept A-1 (retained)

- Improves the I-71 NB curve through the interchange and moves the diverge point further west. **#1**
- Brings the I-71 NB and SB lanes together to match the proposed I-71 mainline typical section. **#2**
- I-71 SB to I-264 WB becomes a right-sided exit and is widened to a two-lane ramp. **#3**
- I-264 EB to I-71 SB enters mainline on the right side. **#4**
- No impact to the proposed US42 interchange aside from not maintaining lane balance at the I-264 EB diverge.

Concept A-2 (retained)

- Improves the I-71 NB curve through the interchange and moves the diverge point further west. **#1**
- Brings the I-71 NB and SB lanes together to match the proposed I-71 mainline typical section. **#2**
- I-71 SB to I-264 WB becomes a right-sided exit and is widened to a two-lane ramp. **#3**
- I-264 EB to I-71 SB enters mainline on the right side. **#4**
- Addition of C-D braiding of ramps along I-264 between I-71 and US42. **#5**
- I-71 NB to I-264 WB ramp is braided and slip ramp to US42 provided. **#6**
- This concept may require RW in addition to RW that will be acquired for project 5-804.00.
- Maintains lane balance throughout.

Concept A-3 (formerly H-1) (retained)

- Improves the I-71 NB curve through the interchange. **#1**
- Brings the I-71 NB and SB lanes together to match the proposed I-71 mainline typical section, but at tighter radius than A-1. **#2**
- I-71 SB to I-264 WB becomes a right-sided exit and is widened to a two-lane ramp. **#3**
- I-264 EB to I-71 SB enters mainline on the right side. **#4**
- The addition of a slip ramp from I-71 NB to I-264 WB. **#5**
- Does not maintain lane balance at the EB I-264 diverge.

Concept A-4 (formerly G-1) (retained)

- Improves the I-71 NB curve through the interchange. **#1**
- Brings the I-71 NB and SB lanes together to match the proposed I-71 mainline typical section, but at tighter radius than A-1. **#2**
- I-71 SB to I-264 WB becomes a right-sided exit and is widened to a two-lane ramp. **#3**
- I-264 EB to I-71 SB enters mainline on the right side. **#4**
- The addition of a slip ramp from I-71 NB to I-264 WB. **#5**
- Creates a split on the ramp from US42 to EB I-264 to allow direct access to I-71 SB. May require RW in addition to RW that will be acquired for project 5-804.00. **#6**
- Does not maintain lane balance at the EB I-264 diverge.

Concept D-1 (retained)

- Improves the I-71 NB curve through the interchange, moves the diverge point further west, and brings the NB and SB lanes closer together to make I-71 the main movement. **#1**
- I-71 SB to I-264 WB is widened to a two-lane ramp. **#2**
- No impacts to the proposed US42 interchange.
- Does not maintain lane balance at the EB I-264 diverge.

Concept F-1 (retained)

- Improves the I-71 NB curve through the interchange and brings the I-71 NB and SB lanes closer together. **#1**
- I-71 SB to I-264 WB becomes a right-sided exit and is widened to a two-lane ramp. **#2**
- The addition of a slip ramp from I-71 NB to I-264 WB. **#3**
- I-71 NB to I-264 WB ramp is braided. **#4**
- Does not maintain lane balance at the EB I-264 diverge.

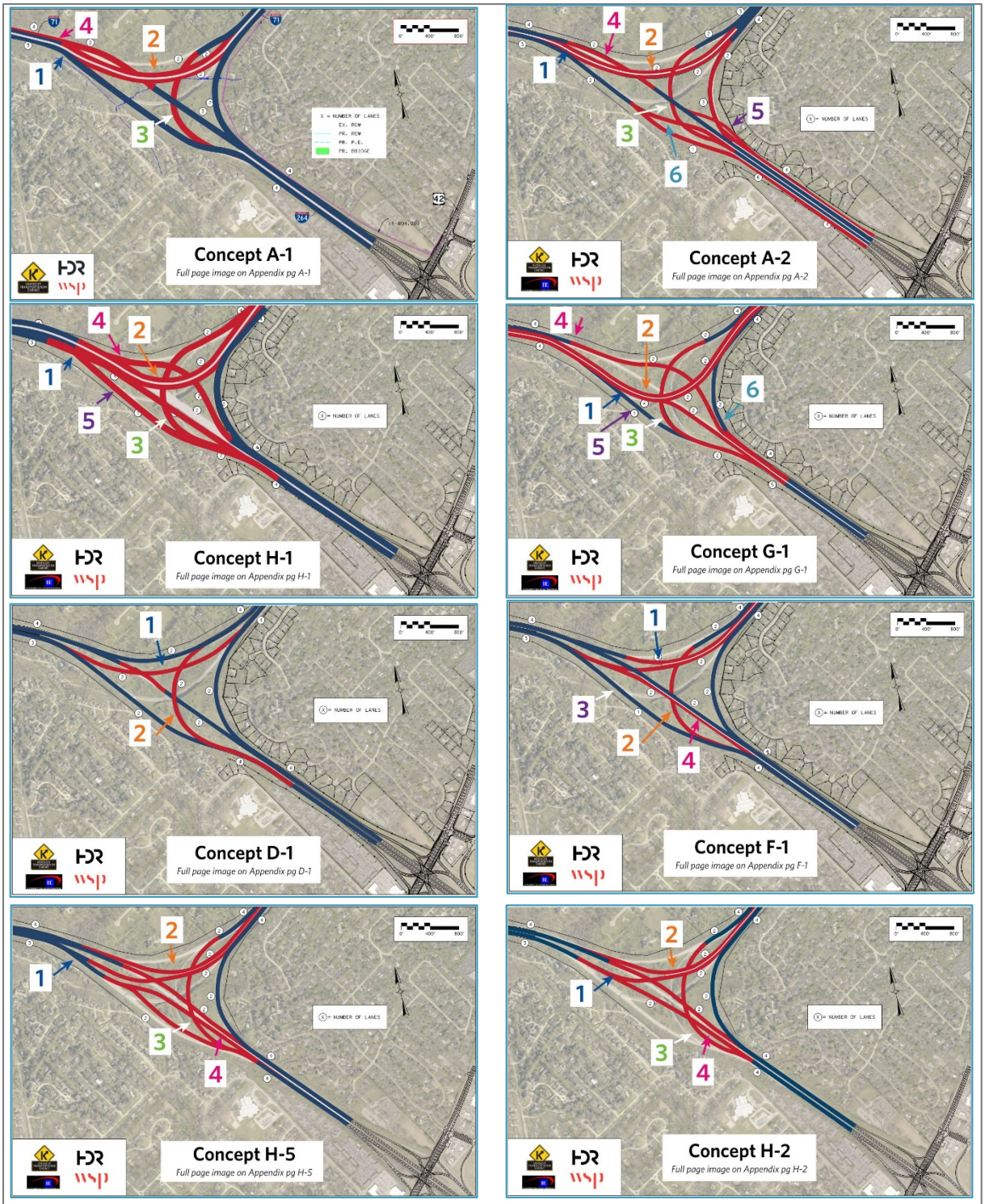
Concept F1.2 (formerly H-5) (retained)

- Improves the I-71 NB curve through the interchange and moves the diverge point further west. **#1**
- Improves the I-71 NB curve through the interchange and brings the I-71 NB and SB lanes closer together. **#2**
- I-71 SB to I-264 WB becomes a right-sided exit and is widened to a two-lane ramp. **#3**
- I-71 NB to I-264 WB ramp is braided. **#4**
- Does not maintain lane balance at the EB I-264 diverge.

Concept F-2 (formerly H-2) (retained)

- Improves the I-71 NB curve through the interchange and moves the diverge point further west. **#1**
- Improves the I-71 NB curve through the interchange and brings the I-71 NB and SB lanes closer together. **#2**
- I-71 SB to I-264 WB becomes a right-sided exit and is widened to a two-lane ramp. **#3**
- I-71 NB to I-264 WB ramp is braided. **#4**
- Does not maintain lane balance at the EB I-264 diverge.

Figure 5: Retained Level 1 Interchange Concepts



*Full page drawings of each concept are included in **Appendix B**.*

2.3 Other Low-Cost, Short-term Improvements

In addition to the interchange concepts several low-cost, short-term improvements were presented during the Level 1 screening process. Seven total improvements were presented to address immediate capacity, safety, or reliability concerns without significant design changes to the interchange. Based on the Level 1 screening, each of these improvements were retained and carried forward for further consideration and refinement. Section 6 of this report provides additional details on these improvements.

3 Level 2 Approach

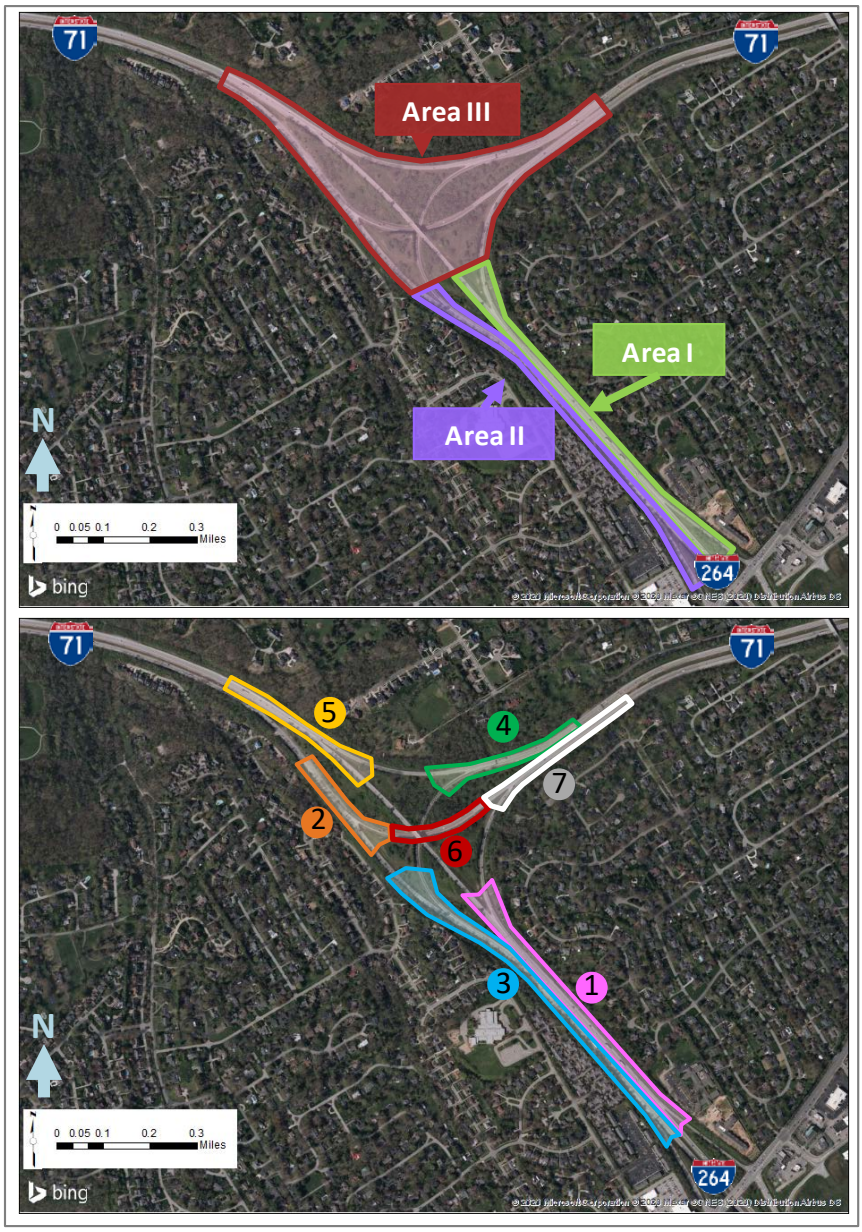
3.1 Examination of Interchange Components

Based on the evaluation of the retained and eliminated concepts from the Level 1 screening process the project team dissected the interchange to identify the major independent issues. These issues were prioritized and isolated to be analyzed independently. This would allow for right-sized options to be considered to adequately address each of the major concerns. The project team identified seven primary concerns for the interchange (listed below) which were separated into three primary areas (I, II, and III).

1. EB I-264 Weave (US42 to I-71)
2. I-71 NB Mainline at I-264 WB Exit Ramp
3. WB I-264 Weave (I-71 to US42)
4. I-71 SB Left Exit to I-264 WB
5. I-71 SB Left Entrance from I-264 EB
6. I-71 NB Horizontal and Vertical Alignment
7. I-71 NB Merge with I-264 EB Ramp

Operational and safety analyses were conducted for potential options addressing each of the seven concerns. Costs were developed for potential options at the area level (i.e. costs were developed for Area I, II, and III separately) as it was possible to maintain independence between the three areas – the solutions to each area can be mixed and matched. However, it was not possible to separate options for each of the five issues in Area III as they are too interrelated. Instead, Area III concepts were developed to address a set of applicable issues as opposed to addressing each issue individually, and the costs were developed accordingly. The three main areas (I, II, and III) and seven independent issues at the interchange are shown in **Figure 6**.

Figure 6: I-71 & I-264 Interchange – Focus Areas and Independent Issues



3.1.1 Area I – I-264 EB

EB I-264 Weave (US42 to I-71) 1

The EB weave on I-264 is a primary concern for the interchange operations based on the existing congestion patterns, anticipated growth & development along US 42, and the future origin-destination patterns through the area. The existing configuration between US 42 and I-71 is a short (approximately 1,400 foot) Type-A weave with an auxiliary lane between the US 42 entrance ramp and the I-71 NB exit ramp. The Type-A weave specifies that a lane change is required for both directions of weaving traffic (ramp-to-freeway and freeway-to-ramp). There is typical peak congestion for this weave area with the existing traffic volumes.

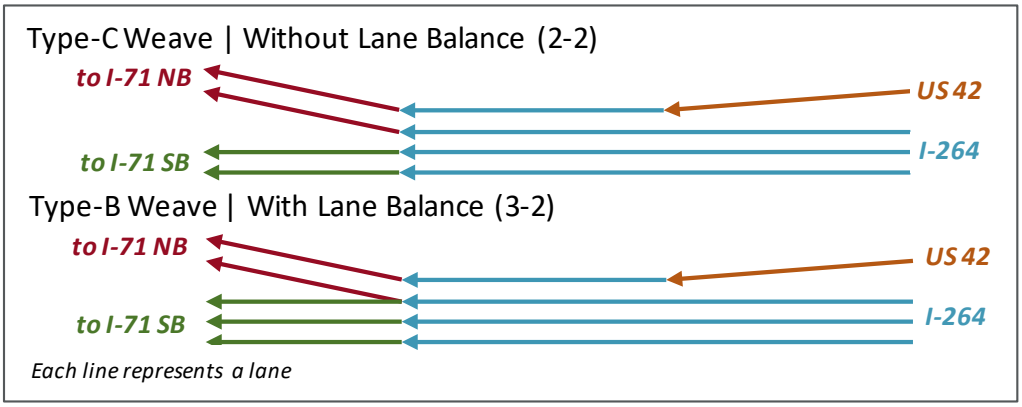
There are several considerations which influenced the potential future options developed for Area I:

- Future development along the US 42 corridor.
- Adjacent project, Item Number: 5-804.00, including US 42 interchange improvements, a two-lane exit from I-264 EB to I-71 NB, and conversion of the Type-A weave to a Type-B weave. (Type-A weaves require one lane change for any weaving vehicle, whereas the proposed Type-B weave allows for mainline-to-ramp traffic to exit without changing lanes, while the ramp-to-mainline traffic requires one lane change.)
- The proposed widening of I-264 between the Westport Road interchange and I-71.
- Available weaving length.

Based on these factors and the previously developed concepts within this area, the following options were analyzed and considered from an operations, safety, and cost perspective.

1. **Traditional Weave** – This option is similar to the existing configuration with the addition of a through lane along I-264, creating a four-lane weaving area instead of the existing three lanes. Within this configuration two weaving conditions were analyzed. The I-71 NB ramp will require two-lanes based on the volume projection, so that was held constant in both conditions. The first configuration is a Type-C weave that does not maintain lane balance. This Type-C weave allows mainline-to-ramp traffic to exit without changing lanes, but the ramp-to-mainline traffic must make two lane changes. The second option is a Type-B weave which does maintain lane balance and has a three-lane, two-lane diverge at the interchange (the design proposed by the 5-804.00 project). Basic line diagrams of these configurations are shown in **Figure 7**. The concept with lane balance is also shown in **Figure 8**.

Figure 7: I-264 EB Weave Configurations



Similar configurations were considered with regard to maintaining lane balance in the subsequent options, this illustration should provide an indication as to the various configurations for those options as well.

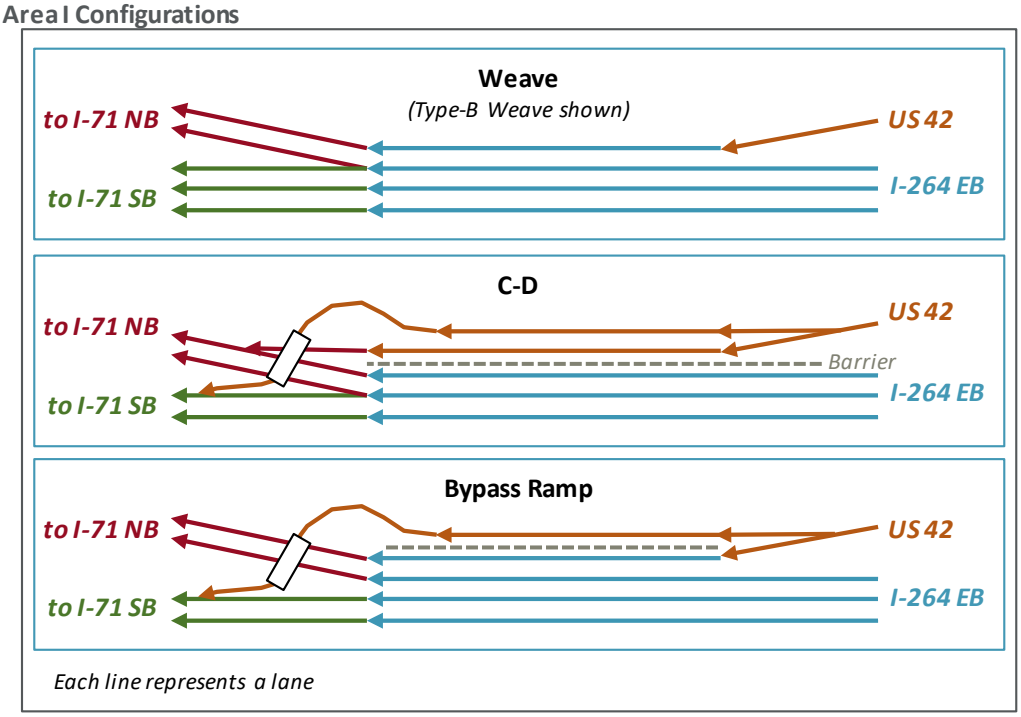
2. **Collector-Distributor (C-D) Road** – This option completely removes the weaving interaction from I-264 by separating the traffic movements and providing a C-D road which would run parallel to mainline I-264 between US 42 and the system interchange (see **Figure 6**). The US 42 entrance ramp volume would feed into the C-D road and avoid interaction with the I-264 mainline volume until the interchange ramps. The C-D road would branch off to connect with the I-71 NB ramp accessing it along the curve on the right-hand side and would connect with the I-71 SB ramp via a flyover ramp (over the I-71 NB ramp) prior to the bridge over the I-71 SB to I-264 WB ramp.

3. **Bypass Ramp** – This option falls somewhere between the weave and C-D road options as it removes the weaving interaction but also maintains some of the existing access (see **Figure 6**). The

Bypass Ramp concept would feature a second lane on the US 42 entrance ramp which would diverge to the right of the entrance ramp to run adjacent to and parallel with the mainline and flyover the I-71 NB ramp and access the I-71 SB ramp beyond the diverge point. This would eliminate the weaving interaction as it would provide immediate access to I-264 for vehicles which would utilize the I-71 NB ramp (merge and then diverge with I-264 traffic) and the traffic bound for I-71 SB would bypass the weave area and merge beyond the diverge point.

Each of the Area I concepts are shown in **Figure 8**.

Figure 8: Area I Configurations



3.1.2 Area II – I-264 WB

WB I-264 Weave (I-71 to US42) 3 *(See **Figure 6**)*

The WB weave on I-264 was also a focal concern area for the interchange. This area is similar to the EB direction in that it is anticipated to experience significant traffic volume growth, see a potential shift in travel patterns, and may be changed or impacted by the adjacent projects. Opposite to EB, this direction serves volumes leaving the I-71 & I-264 system interchange, but if not adequately accommodated it could serve as a major bottleneck to the system interchange.

Based on the anticipated traffic growth, adjacent projects, and concepts developed during the Level 1 screening phase the following options were analyzed in this area.

1. **Traditional Weave** – This option is similar to the existing configuration with the addition of another travel lane, creating a four-lane weave as opposed to a three-lane weave as it exists today (see **Figure 7**). The exit ramp to US 42 is a two-lane ramp with a choice lane (maintaining lane balance) in the existing condition and is anticipated to continue as such with the proposed KYTC 5-804.00 project; therefore, it was maintained in this concept. Additionally, it is anticipated that the mainline segments feeding this weave would both require two-lanes (coming together as four-lanes). To accommodate the ramp requirements and the addition of a through lane, one weave

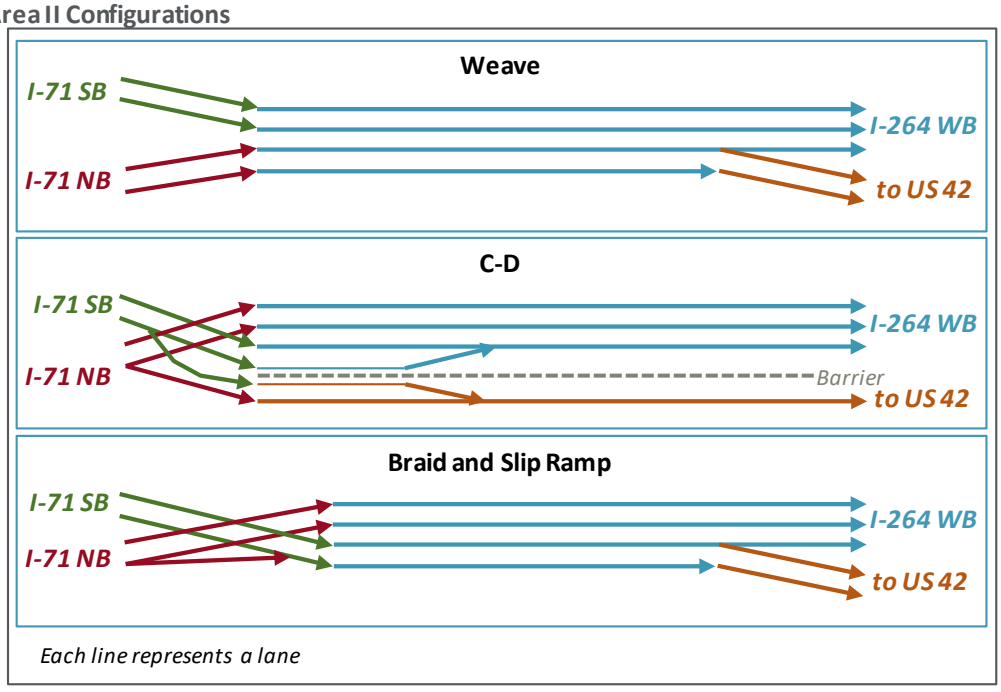
configuration was proposed, which includes three through lanes and a two-lane diverge at the US 42 ramp (maintaining lane balance).

2. **C-D Road** – Similar to the EB direction a C-D road was considered for the WB I-264 direction to eliminate weaving movements throughout the area (see **Figure 7**). This option would separate the incoming movements from I-71 SB and I-71 NB providing braided ramps between each to allow for movements without weaving near the existing connection point for the two system ramps. The I-71 NB ramp would braid over the existing I-71 SB ramp to enter on the left (instead of the right) and would have a one-lane slip ramp following the existing alignment to enter the C-D road serving traffic bound for US 42. The I-71 SB ramp would primarily maintain its current alignment and enter to the right of the NB ramp. It would have a right sided slip ramp to the C-D road for US 42 traffic. This configuration has a four-lane I-264 section which tapers to three-lanes to tie-in to the proposed expansion and a two-lane C-D road tying to the two-lane US 42 exit.

3. **Braid and Slip Ramp** – This concept utilizes the flipping of the incoming I-71 ramps and the I-71 NB slip ramp without the C-D road (see **Figure 7**). This concept alleviates much of the weaving interaction but does not eliminate it. Braiding and splitting the I-71 NB movements allows for I-264 traffic volume to enter on the left and avoid the weaving lanes and the US 42 bound volume to use the slip ramp and enter on the right eliminating the need for weaving. The I-71 SB ramp would tie-in between these two ramps and have access to both I-264 and US 42 with no major lane changing or weaving required. This configuration creates a series of merges and diverges but eliminates the primary weaving interaction.

Each of the Area II concepts are shown in **Figure 9**.

Figure 9: Area II Configurations



3.1.3 Area III – System Interchange Area

Area III features the I-71 mainline movements as well as the system ramps between I-71 and I-264. Within this area there were five key issues. Area III includes the I-71 mainline, the system interchange ramps, and



the related merge/ diverge points. Examining the entire area and all five issues together allowed for the development of more cohesive options than examining each issue separately. The five key issues are detailed below.

I-71 NB Mainline at I-264 WB Exit Ramp 2 *(See **Figure 6**)*

The existing I-71 NB diverge is a three-lane diverge with two-lanes following the I-71 NB mainline and two exiting to the right to access I-264 WB. The diverge itself follows proper design and lane balance requirements; however, the configuration makes the I-71 NB movement feel like the exit ramp as opposed to the mainline movement. The mainline diverges on the left into a significant curve with a reduced speed advisory. This configuration may contribute to driver comfortability and driver confusion through the interchange as it is atypical to follow the mainline through a reduced speed curve into a rock cut. In addition to the configuration of the diverge, the location also creates issues as it is within a large curve of I-71. As the roadway traverses the curve it expands from two-lanes to three-lanes for the diverge which creates issues with lane changing, lane selection, and potential for high speed differentials between lanes and/or passenger cars and heavy vehicles as they navigate the diverge. All of these factors likely contribute to the safety issues and crash history as the area of the diverge and I-71 NB curve has the most significant grouping of crashes through the interchange.

Based on the concepts developed and discussions from the Level 1 screening it was determined that the re-alignment of the I-71 NB mainline is a high priority for the interchange improvement concepts. In developing re-alignment concepts, the I-71 NB diverge was a focal point to provide options which addressed the current issues.

I-71 SB Left Exit to I-264 WB 4 *(See **Figure 6**)*

The existing configuration of the I-71 SB exit to I-264 WB is a single lane left sided exit ramp which is accessed by a tapered deceleration lane from the left lane of the I-71 SB mainline. This is an atypical design for exit ramps, but left-sided ramps are more common at system interchanges as opposed to service interchanges. Based on traffic volume projections, it is anticipated that the ramp from I-71 SB to I-264 WB will be expanded to a two-lane ramp and the I-71 mainline leading to the diverge will be widened to three-lanes, which would impact the existing configuration of the diverge. Based on this configuration and the future changes due to the widening this was identified as an issue.

I-71 SB Left Entrance from I-264 EB 5 *(See **Figure 6**)*

The existing configuration of the I-71 SB and I-264 EB merge is a left-sided entrance ramp from I-264 EB to I-71 SB. Similar to the left-sided exit ramp for the I-71 SB diverge the left-sided entrance is an atypical configuration. The existing merge requires the I-71 SB traffic to merge with the I-264 EB traffic as the lanes drop from the right from four to three and from three to two. Based on the existing and future volumes, this merge configuration requires the heavier volume (I-71 SB) to merge with the lower volume (I-264 EB) movement. It should be noted that the 5-804.00 project will maintain the current configuration as the I-264 EB to I-71 SB ramp will drop from three-lanes to two-lane prior to the merge with I-71 SB mainline.

I-71 NB Horizontal and Vertical Alignment 6 *(See **Figure 6**)*

In addition to the concerns about the diverge for I-71 NB, the alignment of the I-71 mainline in the current condition is a major concern for the interchange. The current alignment is a sharp horizontal curve (radius of approximately 815 feet) which has advisory speed warning and reduces the speeds to 50 mph. Additionally,

there is a significant vertical grade throughout the curve as it is located in a large rock cut section and has to climb to meet the elevation of the I-71 NB mainline and entrance ramp north of the interchange.

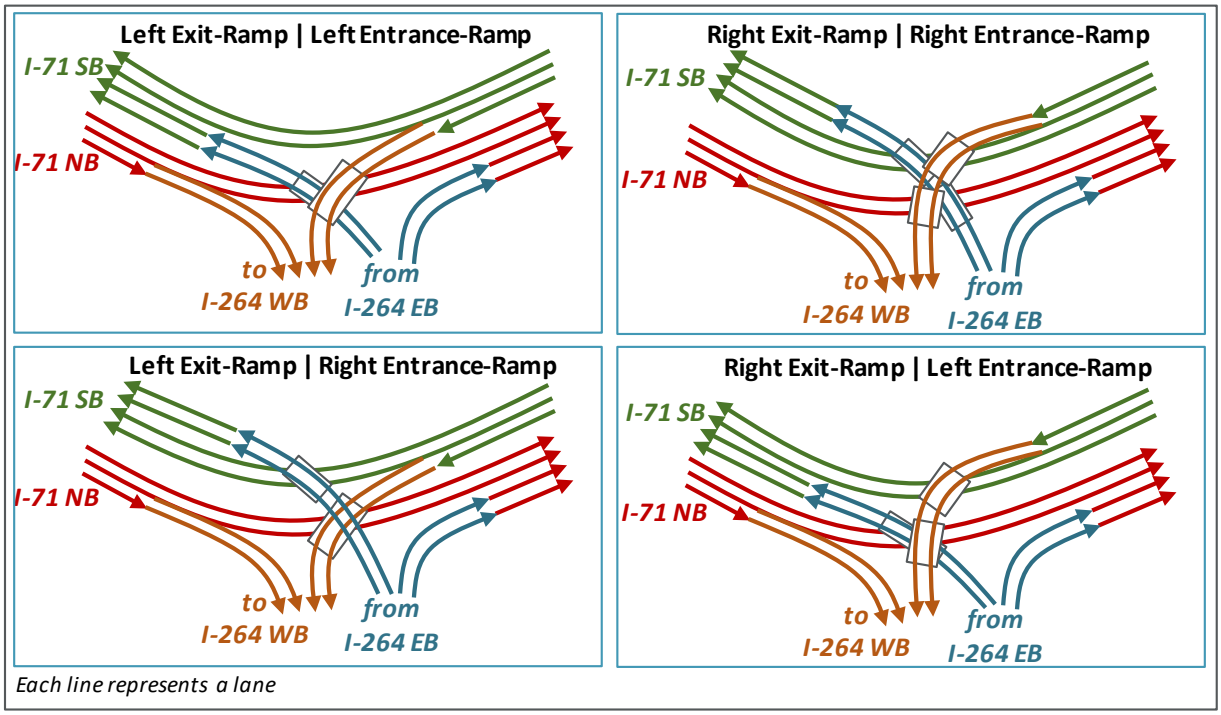
I-71 NB Merge with I-264 EB Ramp (7) *(See **Figure 6**)*

The I-71 NB merge between I-71 NB mainline and the ramp from I-264 EB was identified as a concern area for the interchange based on current congestion and projected traffic growth. The current merge condition is a three-lane merge (two-lanes from I-71 NB and one-lane from I-264 EB) which tapers to two-lanes from the right. The existing merge point is a bottleneck location during peak periods under the existing conditions and with the proposed expansion of the I-264 ramp to two-lanes it could become a focal point for future congestion. The proposed I-71 widening would expand the through lanes north of the interchange to three lanes leading away from this merge location. The connecting 5-804.00 project will tie in at this merge location and as part of the project will expand the I-264 EB ramp to I-71 NB to two lanes. Prior to the I-71 widening, these two lanes will both merge into the two-lane mainline. After the I-71 widening, only the right ramp lane will merge, with the left ramp lane being an add-lane to I-71. The proposed 5-804.00 design is not anticipated to impact the merge location. The options for this area were to assess if three or four lanes would be necessary for merge conditions, and if four lanes were required what length would be sufficient to taper the fourth lane back to three lanes.

Area III Concepts

Area III encompasses five of the seven independent issues associated with the interchange. The development of concepts for this area was primarily based on the ramp configurations for I-71 SB (issues four and five) as those were the main discussion points for consideration, while the other area associated issues were determined to be addressed by features included within each concept. These features include the realignment of I-71 NB through the interchange (which addresses issues two and six) and accommodating a four-lane merge on I-71 NB departing the interchange (which addresses issue seven). Based on that, there were four different configurations of I-71 SB ramps which were considered. These are shown in **Figure 10**.

Figure 10: Area III Concepts



3.2 Analysis of the Individual Components

The options for each of the areas were analyzed for operations, predictive safety performance, and project costs. The operational analysis was conducted based on the design year (2045) peak period volume projections using deterministic tools (HCS and FREEVAL) and then ultimately validated with microsimulation (Vissim). The predictive safety analysis was conducted via the implementation of the AASHTO Enhanced Interchange Safety Analysis Tool (ISATe) spreadsheet tools using the proposed geometry and projected ADT.

3.2.1 Area I – I-264 EB

The Area I options were evaluated for future operational performance, predicted safety performance, and project costs. The results of the analysis are shown for each Area I option in **Table 2**. The Area I options are illustrated in **Figure 8**.

Table 2: Area I Analysis Results

Area I Analysis Results		Operational Analysis		Predictive Safety		Cost ($ in millions)			
		AM Peak LOS	PM Peak LOS	Avg. Crashes per year	Total Crashes	Const. Cost	ROW Cost	Utility Cost	Total Cost
Option 1: Weave	Weave – Type-B *(3-2 diverge)*	C	B	15.1	302.1	$0*	N/A	N/A	$0*
	Weave – Type-C *(2-2 diverge)*	F	F	*Eliminated based on traffic operational analysis*					
Option 2: C-D Road	C-D Road *(2-2 diverge)*	C	C	14.6	291.2	$8M	$0.3M	$0.7M	$9.0M
	C-D Road *(1-2 diverge)*	D	D	*Eliminated based on traffic operational analysis*					
Option 3: Bypass Ramp	Bypass Ramp *(3-2 diverge)*	C	B	15.6	312.3	$7.8M	$0.3M	$0.7M	$8.8M
	Bypass Ramp *(2-2 diverge)*	C	B	15.6	312.3	$7.8M	$0.3M	$0.7M	$8.8M

**To be completed as part of the KYTC 804.00 project, therefore no assumed additional cost*

Operational Analysis

Based on the results from **Table 2**, all of the proposed options are anticipated to operate with LOS of B or C during peak periods with the exception of the weave and C-D options without lane balance (Weave – Type-C 2-2 diverge & C-D Road 1-2 diverge options in **Table 2**). As this is also an undesirable condition those were eliminated from further consideration. The Bypass ramp option without lane balance; however, was retained as operationally there is little impact since it would feature an additional lane of traffic and eliminate weave movements.

Predictive Safety Analysis

Based on the results from **Table 2**, there is negligible difference in safety performance between the three concepts (resulting in four options). Each of the options is anticipated to average approximately 15 crashes per year, resulting in approximately 300 crashes over the 20-year analysis period. The C-D option is anticipated to result in the fewest crashes as it fully eliminates the weaving interactions (but adds additional roadside/ median barrier). The Weave option crash results fall between the C-D and Bypass Ramp options. The Bypass Ramp option has a slightly higher crash prediction than the weave option (0.5 crashes more per year). This is likely because while weaving is minimized with that option, it is not prevented, and the ISATe model is not able to accurately account for that specific situation. In addition, the Bypass Ramp option has a long ramp and ramps typically have slightly higher crash rates than mainline sections.

Cost Analysis

The Weave option is assumed to have no cost as it is anticipated to be constructed as part of the adjacent KYTC 5-804.00 project and is assumed to require no additional right of way (ROW). The C-D and Bypass Ramp options have comparable construction costs with the C-D road being slightly more costly. It is also anticipated that these options will require some ROW and the relocation of utilities due to the additional width and buffers required for the separated lane(s).

3.2.2 Area II – I-264 WB

The Area II options were evaluated for future operational performance, predictive safety performance, and project costs. The results from the analysis are shown in **Table 3**. The Area II options are illustrated in **Figure 9**.

Table 3: Area II Analysis Results

Area II Analysis Results	**Operational Analysis**		**Predictive Safety**		**Cost** ($ in millions)		
	AM Peak LOS	PM Peak LOS	Avg. Crashes per year	Total Crashes	Const. Cost	ROW Cost	Total Cost
Weave – Type B ***(3-2 diverge)***	B	C	16.3	325.9	$1.9M	N/A	$1.9M
C-D Road	B	C	*Eliminated based on traffic operational analysis*				
Mainline Braid + Slip ***(3-2 diverge)***	C	C	19.7	393.4	$9.9M	N/A	$9.9M

Operational Analysis

Based on the HCS/ FREEVAL 2045 peak period analysis, all three options in Area II are anticipated to operate with LOS in the B to C range as shown. Since the C-D road option and the Weave option are anticipated to operate with similar performance it was deemed unnecessary to move the C-D road option forward as it would be a substantial cost increase and differ significantly from the design proposed by the KYTC 5-804.00 project. While the Mainline Braid + Slip concept differs from the proposed 5-804.00 design, the tie-ins would fit closely with the proposed weave area and was therefore carried forward for further consideration.



Predictive Safety Analysis

The ISATe results indicate that the Weave option has fewer predicted crashes than the Braid + Slip option averaging approximately 16.3 crashes per year compared against 19.7. Over the 20 year analysis period this results in an increase in crashes from 325.9 to 393.4.Both options leave a weaving interaction, and while the Braid + Slip changes the functionality of the weave by dividing the traffic stream, this is not fully captured by the ISATe analysis methods. ISATe is able to consider the presence, proximity, and volumes of the ramps but does not consider the weaving volumes, which for the Braid + Slip concept may cause an over-estimation of crashes. Additionally, the presence of the slip ramp in the Braid + Slip concept may account for some of the increase in predicted crashes as it provides an increase in traffic exposure compared to the Weave option. Based on the ISATe results and limitations of analysis for the weave, it is not anticipated that the Braid + Slip concept will show a safety improvement over the Weave option.

Cost Analysis

It is anticipated that the weave option would require approximately $1.9M to construct in addition to what is proposed by the KYTC 5-804.00 project. The Braid + Slip concept is significantly more costly at approximately $9.9M. Neither option is anticipated to require ROW or utility relocations, resulting in a cost difference of $8 million.

3.2.3 Area III – System Interchange Area

The Area III options were analyzed for predictive safety and project costs. An initial operational analysis was conducted; however, the difference in performance between the options (using both deterministic and microsimulation tools) was negligible, therefore no further operational analysis was conducted. The results of the predictive safety and project cost analysis are shown in **Table 4**.

Table 4: Area III Analysis Results

Area III Analysis Results *(See Figure 10 for Images)*		**Predictive Safety**		**Cost** ($ in millions)		
		Avg. Crashes per year	Total Crashes	Const. Cost	ROW Cost	Total Cost
Left Exit-Ramp	Left Entrance-Ramp	37.9	757.9	$11.7M	N/A	$11.7M
Right Exit-Ramp	Right Entrance-Ramp	39	779.5	$25.0M	N/A	$25.0M
Left Exit-Ramp	Right Entrance-Ramp	-*	-*	$22.8M	N/A	$22.8M
Right Exit-Ramp	Left Entrance-Ramp	-*	-*	$20.6M	N/A	$20.6M

**Based on the cost calculations, it was determined that the left-off, right-on and right-off, left-on options were only marginally less costly than the right-off, right-on option and were deemed unnecessary and therefore safety analysis was not conducted.*

Predictive Safety Analysis

The ISATe analysis indicates that the two concepts will function with relatively similar safety performance. While left-side ramps are generally associated with lower safety performance, in this case the curvature and length of the right-sided ramps appears to offset the benefits associated with changing the layout. It is important to mention again, that for major diverges and major merges at system interchanges, left side ramps can be acceptable.



4 Development of Level 2 Concepts

The independent component analysis resulted in multiple options for each area (I, II, and III) that would address the identified concerns and would function adequately with respect to traffic operations, safety, and cost. Options for each area were combined to develop the final Level 2 concepts. Several of these were modifications to the retained Level 1 concepts.

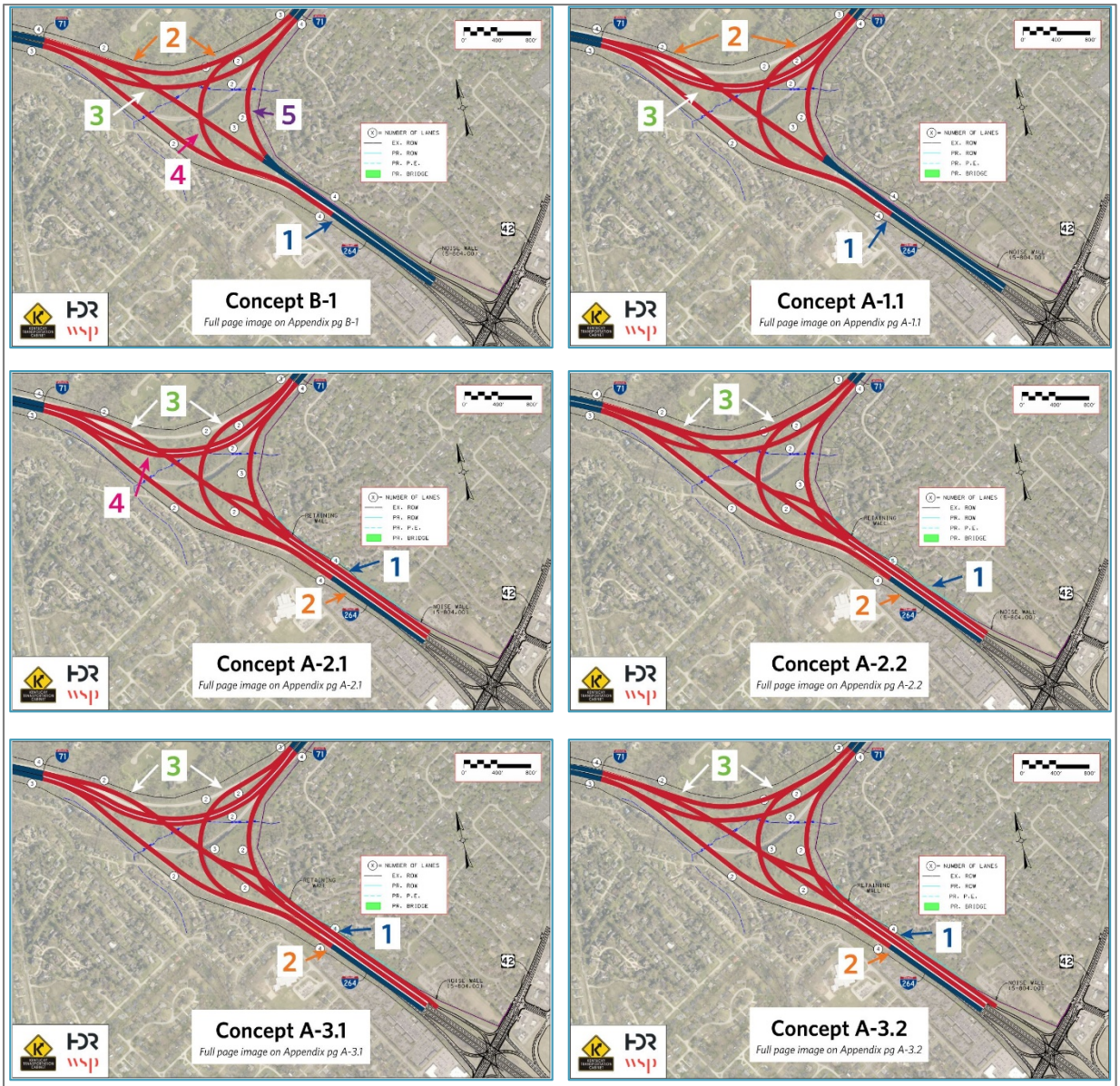
4.1 Development of Level 2 Concepts

Table 5 shows the options for each area that were used in the Level 2 concepts (i.e. Concept B-1 uses a weave in Area I). **Figure 10** provides a thumbnail illustration for each concept. The concepts are discussed further in the subsequent sections and conceptual sketches are provided in **Appendix C**.

Table 5: Level 2 Concept Components

		B-1	A-1.1	A-2.1	A-2.2	A-3.1	A-3.2
AREA I		Weave	Weave	C-D	C-D	Bypass Ramp	Bypass Ramp
AREA II		Weave	Weave	Weave	Weave	Weave	Weave
AREA III	Exit Ramp	Left	Right	Right	Left	Right	Left
	Entrance Ramp	Left	Right	Right	Left	Right	Left

Figure 11: Level 2 Interchange Concepts



*Full page drawings of each concept are included in **Appendix C**.*

4.1.1 B-1

Concept B-1 features weaves in Areas A and B (#1) and retains the left-sided ramp configuration in Area C (#2). This concept is the closest to the No-Build scenario as the only major change within the interchange is the realignment of I-71 NB through the interchange (#3) and the widening of the I-71 SB to I-264 WB (#4) and I-264 EB to I-71 NB ramps (#5). The second of these ramp widening elements will be completed with project 5-804.00.

4.1.2 A-1.1

Concept A-1.1 features weaves in Areas A and B (#1) and switches the ramp configuration in Area C to right-sided ramps for both the entrance and exit ramps on I-71 SB (#2). Switching of the ramp configuration requires the realignment of both directions of I-71 through the interchange, bringing them together (#3).

4.1.3 A-2.1

Concept A-2.1 features the C-D in Area A (#1), weave in Area B (#2), and switches both Area C ramps to be right-sided (#3). This concept significantly changes the interchange as it switches the ramps causing a realignment of I-71 mainline in both directions through the interchange (#4). I-264 EB would also be reconfigured for the C-D road separating the mainline from the US 42 ramp to eliminate weaving movements.

4.1.4 A-2.2

Concept A-2.2 features the C-D in Area A (#1), weave in Area B (#2), and retains the left-sided ramp configuration in Area C (#3). This concept is similar to Concept 2.1 in Areas A and B, but it leaves the I-71 SB ramps in the existing configuration.

4.1.5 A-3.1

Concept A-3.1 features the Bypass Ramp option in Area A (#1), weave in Area B (#2), and switches both Area C ramps to be right-sided (#3). Similar to Concept A-2.1, it substantially changes the interchange, affecting the I-264 EB area, switching the ramp configurations for I-71 SB, and realigning I-71 in both directions. This concept has the potential to be a second phase of Concept A-1.1 as the only difference is the branched bypass ramp from the US 42 entrance ramp and this ramp could be added later when needed.

4.1.6 A-3.2

Concept A-3.2 features the Bypass Ramp option in Area A (#1), weave in Area B (#2), and retains the left-sided ramp configuration in Area C (#3). This concept has the potential to be a later phase of Concept B-1 as the only difference is the branched bypass ramp from the US-42 entrance ramp. The additional bypass ramp could be constructed as needed after the initial B-1 construction.

5 Evaluation of Level 2 Concepts

An evaluation matrix was developed to assess the Level 2 interchange concepts. The key interchange aspects and performance criteria were used to develop a matrix to compare the No-Build scenario and each of the Level 2 concepts. The matrix provided the opportunity for quickly and concisely comparing the concepts to each other and to the No-Build. The major elements of the matrix include: components of each concept (by area), cost (design, utilities, construction, and right-of-way), maintenance of traffic, environmental impact, operational performance (travel time, average speed, average LOS), safety performance, and overall benefits and drawbacks. The Level 2 evaluation matrix is shown in **Table 6**.



Table 6: Level 2 Evaluation Matrix

		No-Build	B-1	A-1.1	A-2.1	A-2.2	A-3.1	A-3.2
PROJECT ELEMENTS	***AREA I (I-264 EB)***	*Weave*	*Weave*	*Weave*	*C-D*	*C-D*	*Bypass Ramp*	*Bypass Ramp*
	AREA II (I-264 WB)	*Weave*	*Weave*	*Weave*	*Weave*	*Weave*	*Weave*	*Weave*
	AREA III (System Ramps)	*Left Exit, Left Entrance*	*Left Exit, Left Entrance*	*Right Exit, Right Entrance*	*Right Exit, Right Entrance*	*Left Exit, Left Entrance*	*Right Exit, Right Entrance*	*Left Exit, Left Entrance*
PROJECT COST	Design	N/A	$2,800,000	$2,800,000	$2,800,000	$2,800,000	$2,800,000	$2,800,000
	Right of Way		-	-	**$340,000**	**$340,000**	**$340,000**	**$340,000**
	Utilities		$180,000	$180,000	$700,000	$700,000	$700,000	$700,000
	Construction		$13,600,000	$26,900,000	$34,900,000	$21,600,000	$34,700,000	$21,400,000
	Total Project Cost		**$16,580,000**	**$29,880,000**	**$38,740,000**	**$25,440,000**	**$38,540,000**	**$25,240,000**
DESIGN CHALLENGES		N/A	I-71 SB to I-264 WB ramp: Design variance for inside shoulder					
MOT	Short Description	N/A	No long-term closures	Wknd closures of 2 ramps	Wknd closures of 3 ramps and lane shifts	Wknd closure of 1 ramp and lane shifts	Wknd closure of 3 ramps and lane shifts	Wknd closure of 1 ramp and lane shifts
	Severity		Moderate	Moderate	Most Difficult	Difficult	Most Difficult	Difficult
ROW	RW (acres) | PE (acres)	N/A	-	-	0.25 | 0.75	0.25 | 0.75	0.25 | 0.75	0.25 | 0.75
	Impacted Parcels		-	-	11 | 14	11 | 14	11 | 14	11 | 14
ENVIRONMENT	Stream Impacts (ft)	N/A	<300	>400	>400	<300	>400	<300
	Known Bat Habitat Impacted		1.18	3.07	3.57	1.68	3.57	1.68
	Existing Noise Wall Impacts		N/A	N/A	1844'	1844'	1844'	1844'
MOBILITY *[2045 Analysis Results]*	Avg Int. Travel-Time AM | PM (s)	131 | 181	76 | 76	76 | 76	78 | 75	81 | 76	79 | 78	80 | 78
	Avg Speed AM | PM (mph)	49 | 42	53 | 53	54 | 54	51 | 52	50 | 51	51 | 52	50 | 51
	Avg Delay AM | PM (s)	30 | 41	21 | 21	20 | 21	20 | 19	21 | 20	18 | 20	20 | 20
	Avg AM LOS	D	C	C	C	C	B	C
	Avg PM LOS	E	C	C	C	C	C	C



Table 6: Level 2 Screening Matrix (cont.)

		No-Build	B-1	A-1.1	A-2.1	A-2.2	A-3.1	A-3.2
SAFETY *[ISATe Results]*	Total Crashes (20year)	1412	1386	1408	1397	1375	1418	1396
	Avg Crashes per year	70.6	69.3	70.4	69.9	68.8	70.9	69.8
	Total Crash Cost (20year, Undiscounted)	$171,055,500	$166,444,400	$169,598,800	$165,229,100	$162,074,700	$170,729,600	$167,575,200
BENEFITS		-	• Low Cost • Simplest to construct • Could be constructed with widening • A 3.2 could be a future phase	• Improve Driver Expectancy - Right Side Ramps • A 3.1 could be a future phase	• Eliminates I-264 EB Weave • Improve Driver Expectancy - Right Side Ramps	• Eliminates I-264 EB Weave	• Can be a Phased Alt to A1.1 • Eliminates I-264 EB Weave • Improve Driver Expectancy - Right Side Ramps	• Can be a Phased Alt to B1 • Eliminates I-264 EB Weave
DRAWBACKS/ LIMITATIONS		• Does not meet the Purpose & Need	• Weaves remain, does not separate movements	• Weaves remain, does not separate movements	• Difficult to construct • Significant Cost Increase • Requires ROW	• Requires ROW	• Difficult to construct • Significant Cost Increase • Requires ROW	• Requires ROW



Project Elements

The project elements for each concept were discussed previously but are included in the table for quick reference. Note that Concept A-3.1 could be a phased addition to Concept A-1.1 and Concept A-3.2 could be a phased addition to Concept B-1. Concepts A-2.1 and A-2.2 are stand-alone concepts.

Project Cost

Project cost was separated into design, right-of-way (ROW), utilities, construction, and total project cost to better show the differentiation between the concepts. The concepts which do not require ROW (B-1 and A-1.1) do not have any associated cost, while it was assumed that the other concepts would require approximately the same amount of ROW resulting in a cost of $340,000. The concepts that required ROW were also assigned a higher utility cost of $700,000, whereas B-1 and A-1.1 have a utility cost of $180,000. This difference is attributed to the additional utility impacts associated with the widening along I-264 EB to accommodate the C-D and Bypass Ramp configurations.

The main contributor to total project cost for all concepts is construction. Construction costs vary between $13.6M and $38.7M depending on the extent of the required reconstruction. The most significant difference in construction cost is the reconfiguration of the I-71 SB ramps to be right-sided. This option (included in A-1.1, A-2.1, and A-3.1) increases the construction cost by approximately $13.3M. Additionally, the cost for the C-D and Bypass Ramp components along I-264 EB represent an additional cost over the weave of approximately $8M and $7.8M, respectively.

Design Challenges

While design issues are an important consideration, they are not a differentiator. All concepts are expected to require a design variance for the inside shoulder width for the I-71 SB to I-264 WB ramp to utilize the existing structure. This variance may be eliminated depending on the selected concept as the bridge may not be necessary if the I-71 NB alignment is shifted.

Maintenance of Traffic (MOT)

The MOT requirements for each concept were examined in detail, but all six concepts appear constructible, assuming that weekend closures are permitted for various ramps as needed. Concepts A-2.1 and A-3.1 would be the most difficult for MOT as they require the closure of three ramps and lane shifts through the interchange due to reconfiguring both directions of the I-71 mainline and I-264 EB weave. The concepts which impact only the northbound I-71 mainline and the I-264 EB configuration (A-2.2 and A-3.2) are the next most difficult due primarily to the impacts to the I-264 weaving area during construction.

Right of Way (ROW)

As discussed under project cost, the need for ROW is a differentiating factor. The only area where ROW would be required is along I-264 EB; therefore, the concepts which leave I-264 EB as a weave do not require ROW, while the others are anticipated to impact 11 parcels (approximately 0.25 acres total).

Environment

The examination of the natural environment showed that the concepts have generally similar potential impacts. Each concept would impact two streams, have six stream crossings, and could impact approximately 200 to 500 feet of stream. Each concept would also impact known bat habitats in the project area. With regard to the human environment, all six concepts would also require a noise analysis to determine if additional noise walls are needed. One factor present for some, but not all, concepts is the potential for

impacting existing noise walls. Concepts B-1 and A-1.1 are not expected to impact the existing noise walls, but the other four could impact approximately 1,800 feet of existing noise wall.

Mobility

The mobility metrics highlight the performance of each concept with regard to travel time, speed, delay, and level of service (LOS). Since improving traffic operations is part of the purpose and need, it was a main aspect of the independent component analysis process for each of the three interchange areas (I, II, and III). The six concepts identified through that process all would provide acceptable design year traffic operations. Additionally, the results between the various concepts do not have high levels of variability with regard to travel-time, average speed, delay, or LOS. All are anticipated to function within the typically accepted thresholds, perform in a comparable manner, and show a significant improvement compared to the No-Build 2045 conditions.

Based on the operational analysis, there is no indication that either of the I-71 SB ramp configurations (right-side ramps or left-side ramps) provides substantial mobility benefits over the other (as shown in the comparison of A-2.1 to A-2.2 or A-3.1 to A-3.2). Similarly, the different configurations of I-264 do not indicate that one option is substantially better than another (as shown by the comparison of A-1.1, A-2.1, and A-3.1). This is because all the proposed configurations can accommodate the 2045 design year volumes at acceptable levels of service.

Safety

Similar to mobility, improving safety is an important part of the purpose and need and is a main driver behind the development of several of the project elements. Using ISATe to analyze the predictive safety of the various components and concepts made it possible to develop 20-year predictive crash metrics. The results of the ISATe analysis indicate a variance in total crashes between 1375 and 1418 for the concepts (or a fluctuation in annual crashes from 68.8 to 70.9). The anticipated performance of the No-Build is 1412 total crashes and 70.6 crashes per year; which is less than Concept A-3.1, but more than the other concepts. It is important to note that the HSM method does not specifically consider or have CMFs for three important elements present in the interchange: left side system ramps, Type-A or Type-C weaves, and over-capacity conditions. The analysis included research-based adjustments for the left-side ramps, but the other two items may explain the low crash predictions for the weave conditions. Adding factors for these second two items would increase the No-Build crashes the most and the weave concept crashes to a lesser degree. They would have little impact on the C-D road or ramp braid concepts, making them look more attractive. The net result of this sensitivity analysis is that the build crash numbers are all better than the no-build and they are in the same range when compared to each other. This result favors lower capital cost concepts since the higher cost concepts do not necessarily yield significant safety benefits over the lower cost concepts.

When crash severity is taken into account (e.g. the number of fatal and serious injury crashes compared to property damage only crashes) it is predicted that the No-Build would be the most costly of the concepts with an undiscounted societal crash cost of $171M. The total societal crash costs of the Build concepts vary from $162M to $170M – all of which fall below the No-Build cost.

While the safety performance differs between the build concepts, they remain relatively similar based on the level of accuracy associated with a predictive crash analysis. The annual crash variance across the concepts is approximately two crashes/year, which is likely within the margin of error for the analysis.

6 Low-Cost, Short-term Improvements

In addition to the overall interchange concepts, during the Level 1 screening process several low-cost, short-term concepts were introduced for consideration to improve operations, safety, and/or reliability without significant alignment or configuration changes. During the Level 1 process seven low-cost, short-term improvements were identified and recommended for further consideration. The Level 2 evaluation evaluated and refined the improvements and developed conclusions for future consideration. Each of the low-cost, short-term improvements is presented below with the additional findings.

6.1 I-71 NB Lane Extension

This improvement proposes the extension of the 3rd I-71 NB lane from the merge point with I-264 EB to beyond the Lime Kiln bridge. The addition of the lane would provide additional merging length for the I-71 NB and I-264 EB traffic. The extension of this third lane could potentially improve safety and capacity in the merge area where a significant volume of traffic comes together. This improvement is anticipated to require some ROW, utility relocation, and a design exception for the outside shoulder under the bridge. The estimated cost is approximately $1.66 million.

While there are some anticipated benefits, it is not expected that the travel time benefits would be significant enough to outweigh the cost of the improvement. Additionally, this improvement would be unnecessary with the widening of I-71 as that will create a continuous three-lane section. Based on that, it is not recommended that this concept be carried forward for additional consideration.

6.2 Lane Tattoos

Lane tattoos are roadway pavement markings providing an indication of lane assignment on the approaches prior to the split for a system interchange or significant junction point. These painted shields help motorists better understand lane assignments, which reduces last-minute lane changes leading to better lane utilization and improved safety. **Figure 11** below shows an example of lane tattoos.

Figure 12: Lane Tattoo Example



The installation of lane tattoos on the three approaches to the I-71 and I-264 interchange would provide motorists with advanced warning of the movements and allow them to make more advanced lane changes. The cost of the lane tattoos is approximately $145,000 and could be implemented as part of the existing maintenance program for the interchange. It is recommended that this option be carried forward to implementation.

6.3 Guide Signing

Signing improvements were suggested during the initial brainstorming charrette for the interchange and were included within the Level 1 screening process. During the Level 1 screening meeting and in subsequent conversations with KYTC District 5 staff it was determined that District 5 was already in the process of ordering and installing updated signage for the interchange which could address several of the identified concerns for this project. Based on this, it was assumed that further signage improvements would not be implemented in the short term but would instead be part of the various widening and improvement projects now in planning and design. The assumed cost for this improvement is approximately $500,000 to $750,000 depending on the signage required. This cost would be included in the I-71 widening project.

6.4 Vegetation Management to Improve Sight Distance

In some areas of the interchange, most notably along the approach and curve of I-71 NB through the interchange (see **Figure 13** for reference) – existing foliage partially obscures sight lines along the roadway. The visual obstructions have potential safety impacts as drivers may have less warning for braking if there is slower traffic or congestion ahead. Additionally, it could have an impact on driver comfort as foliage encroaches onto the travel lanes making the roadway feel more closed in or narrow which could impact speeds and behavior through the interchange and along ramp segments. It is assumed that this improvement could be addressed as part of the existing maintenance efforts on the roadway and does not have an additional attributed cost.

Figure 13: Tree Clearing Existing Condition



6.5 Dynamic Congestion Warning Signs

During the Level 1 screening process a potential improvement of the addition of Dynamic Congestion Warning Signs was suggested. There is some existing ITS infrastructure throughout the I-71 and I-264 corridors in the form of various Dynamic Message Signs (DMS), so the intent of this improvement would be to supplement the existing DMS coverage and work in conjunction with the rest of the system to improve interchange operations. The goal of the DMS signs would be to provide advanced warning of congestion, incidents, closures, and other various warning messages prior to the system interchange to allow drivers enough time to make decisions about their route choice and downstream impacts.

Initially a series of potential locations for additional DMS signs were identified within the project area and it was determined from the Level 1 screening that the improvement should be carried forward for additional consideration. Based on further analysis and discussion by the project team, the DMS locations were refined and prioritized for implementation. The more refined set of DMS installations consists of 4 prioritized locations throughout the corridor which would provide information to drivers in advance of key decision points. The locations and types of signs are shown in **Figure 14** and detailed in the following list:

- Arterial DMS at US 42 interchange near ramp terminal approaches from both directions (2)
- Side mounted DMS on I-264 EB prior to US 42 interchange (1)
- Overhead DMS on I-71 NB adjacent to the existing I-71 SB DMS north of Zorn Avenue.

Figure 14: Existing and Proposed Dynamic Message Signs



The cost of the installation of this improvement is anticipated to be approximately $625,000 to $750,000. The variance is dependent upon the need of structural enhancements at the I-71 NB DMS location as it may be able to be installed on the existing gantry present for the existing I-71 SB DMS. Structure cost is included for the other three DMS locations as they would be new structures. The recommended arterial DMS at the US 42 interchange could be incorporated with the 5-804.00 project to be implemented with the interchange reconstruction reducing potential impacts of later installation and provide immediate benefit to drivers. The other two DMS elements are recommended for implementation to help assist drivers approaching the interchange.

6.6 Barrier and Shoulders through Cut

This improvement would provide shoulder protection along the I-71 NB curve through the interchange (through the rock cut section). The existing shoulder is narrow and drops into a ditch and then to the adjacent rock cut. The proposed improvement would widen the shoulder and add a concrete barrier which would improve safety and driver comfort. The increase in paved shoulder width and presence of concrete barrier would create a more reliable condition from a safety perspective, providing additional refuge and a

barrier of known crash performance as opposed to the exposed rock wall. An example of this improvement is shown in **Figure 15**.

Figure 15: Barrier and Shoulder through Cut Example



This improvement is anticipated to cost approximately $395,000 to construct. If any of the proposed Level 2 concepts are implemented, I-71 NB will be realigned and negate the need for this improvement. Based on the cost, impact, and effectiveness with the proposed interchange concepts it is recommended that this option be dismissed from further consideration, unless the 5-557.00 project has a greater than ten year horizon.

6.7 Gore Extension

The current configuration of the merge for I-264 EB with I-71 NB is a traditional merge where the one lane ramp from I-264 EB connects as a right-side entrance ramp. This entrance lane creates an acceleration lane which tapers into the two through lanes approximately 2,500 feet from the initial merge point. During existing peak period conditions congestion often occurs through this area as vehicles do not fully utilize the available acceleration lane and often merge earlier unnecessarily creating turbulence in the traffic stream. As traffic volumes increase throughout the study area, it is anticipated that this issue will be exacerbated causing more congestion (or longer periods of congestion). The proposed improvement would extend the gore for this merge with stripped or physical separation. The extension would promote later merges focusing the merge interactions on a predictable area beyond the existing 2,000+ feet now available. The gore extension would allow vehicles in the through lanes (which are on an upgrade and coming out of a curve) as well as vehicles on the ramp to accelerate to similar speeds, decreasing the speed differential and creating a smoother merge operation. An example of this improvement is illustrated in **Figure 16**.

Figure 16: Gore Extension Example



There are several practical ways in which this improvement could be implemented. One option is to use physical delineation between the mainline and acceleration lane with qwik curb and delineator sticks. This

option provides traversable physical separation, but is often a maintenance concern as the delineator sticks can be knocked over. Besides being knocked over from vehicular traffic other maintenance issues often experienced from the installation of delineator sticks includes issues with snow removal operations and interruption to traffic flow by crews when the delineators need to be reinstalled after being knocked down.

Another option is delineation by striping. This method is less effective as vehicles can traverse painted lines, but is more cost effective and does not create the maintenance concern associated with delineator sticks. The cost of this improvement is dependent upon which method is utilized, but is anticipated to cost up to $235,000 – a striping only solution would be significantly less costly and could be handled as part of the maintenance efforts for the interchange. The improvement could be completed either in conjunction with the 5-804.00 project or in a manner consistent with the final plans for that project, so that little or no rework is needed when that project is constructed (the current design drops the outside lane on the ramp and the mainline gore point does not shift). Depending upon the final I-71 NB re-alignment, tie-in location, and required maintenance of traffic it is also possible that this improvement could remain with the implementation of the Level 2 interchange concepts. If it is determined that the gore extension cannot easily integrate into the selected Level 2 concept, it is still recommended for implementation if the interchange improvements are not anticipated to go to construction for 10+ years.

7 Level 2 Findings

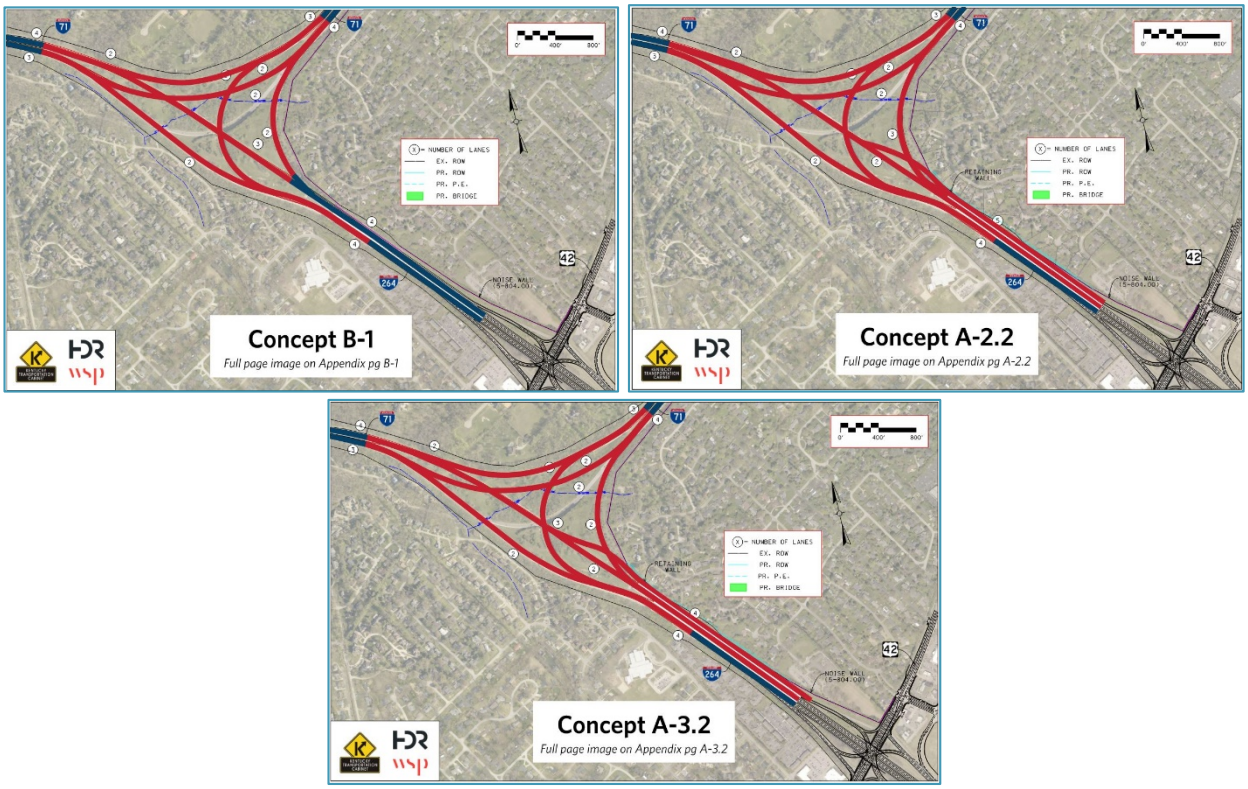
7.1 Level 2 Screening Meeting

As with the Level 1 screening, the project team had a Level 2 screening meeting with KYTC and FHWA to discuss the developed concepts and performance as detailed in the evaluation matrix (**Table 6**). The Level 2 screening meeting was held virtually on July 24, 2020. The meeting minutes from that meeting are included in **Appendix D**. During the meeting, the interchange concepts and the low-cost, short-term improvements were presented and discussed noting pros, cons, and some conclusions regarding next steps.

7.2 Interchange Concepts Findings

Based on the discussions amongst the project team and the results shown in the evaluation matrix it was determined that the reconfiguration of the I-71 SB ramps to be right-sided does not show enough benefit to outweigh the associated cost for such improvements. Based on the analysis, this design does not illustrate benefit over leaving the ramps as left-sided for either operations or safety performance. The left-sided ramps are an improvement over the No-Build as they improve the merge and diverge conditions due to the associated roadway and/or ramp widening in both areas. The ramp reconfiguration option was included in the A-1.1, A-2.1, and A-3.1 concepts; which have been removed from further consideration. The other features of these concepts are captured in the remaining three concepts B-1, A-2.2, and A-3.2 which are retained for further consideration. Thumbnails from these three concepts are shown in **Figure 17**.

Figure 17: Level 2 Interchange Concepts Findings



Full page drawings of each concept are included in ***Appendix C****.*

7.3 Low-Cost, Short-Term Improvement Findings

Based on the discussions from the Level 2 screening and conclusions from the project team several determinations were made for the low-cost, short-term improvements. The *I-71 NB Lane Extension* and the *Barrier and Shoulder through Cut* options were eliminated from further consideration based on the functionality of the improvements with the consideration of the proposed concepts and widening project. Both options represent a significant cost and would be negated by other interchange improvements. It was determined that the other low-cost, short-term improvements be moved forward for implementation, some of which (vegetation management and lane tattoos) are anticipated to be handled with the KYTC maintenance for the interchange.

7.4 Next Steps

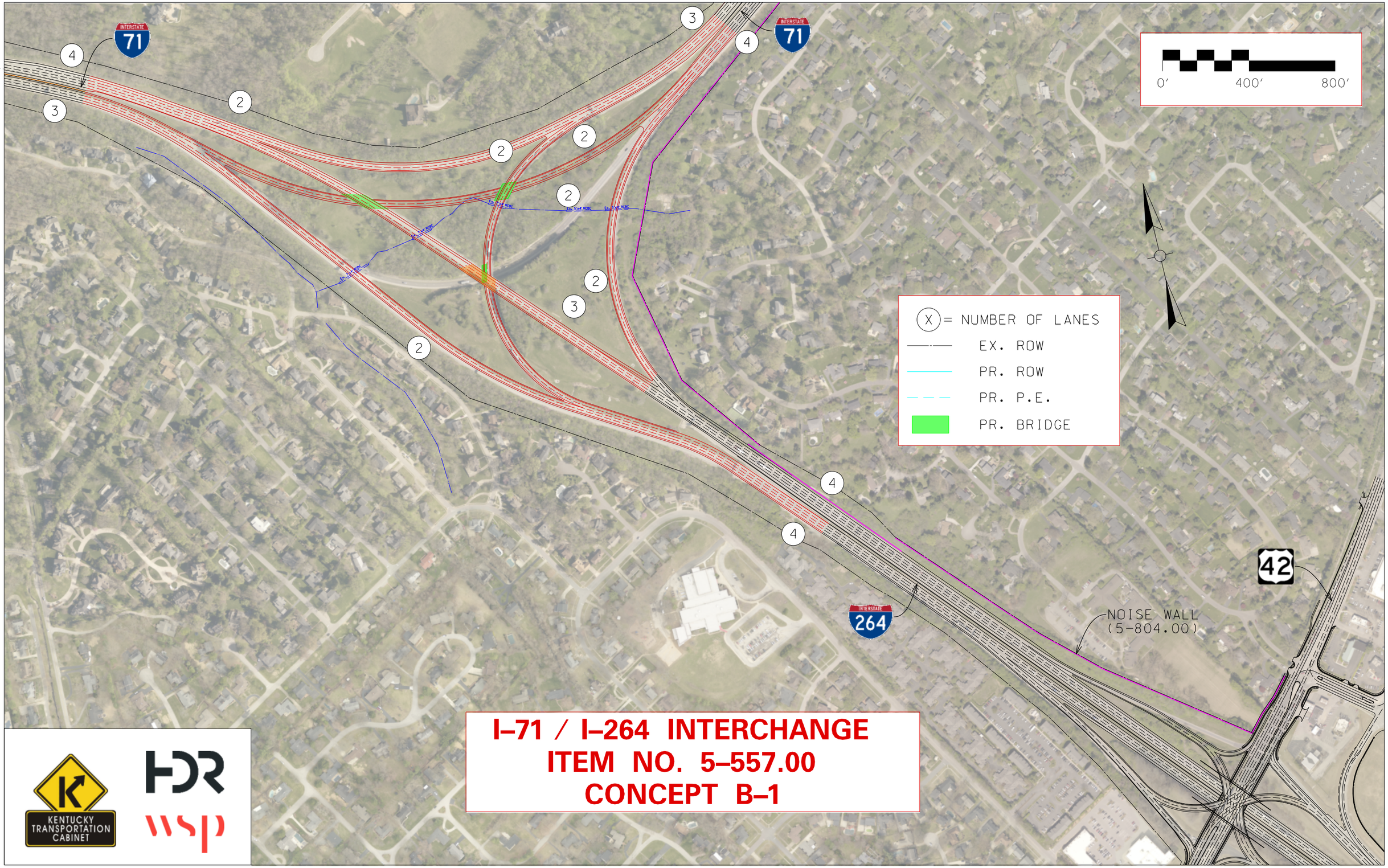
As discussed in Section 1.1, this report documents Step 4 of 5 in the interchange planning study process. The concepts discussed and conclusions from this report will be finalized into final recommendations and project sheets under Step 5 of the process. A subsequent report will serve to encompass the overall interchange study process and include final recommendations.





Appendix I

Level 2 Concepts



I–71 / I–264 INTERCHANGE
ITEM NO. 5–557.00
CONCEPT B–1

KENTUCKY TRANSPORTATION CABINET

HDR

WSP

0′ 400′ 800′

X = NUMBER OF LANES
EX. ROW
PR. ROW
PR. P.E.
PR. BRIDGE

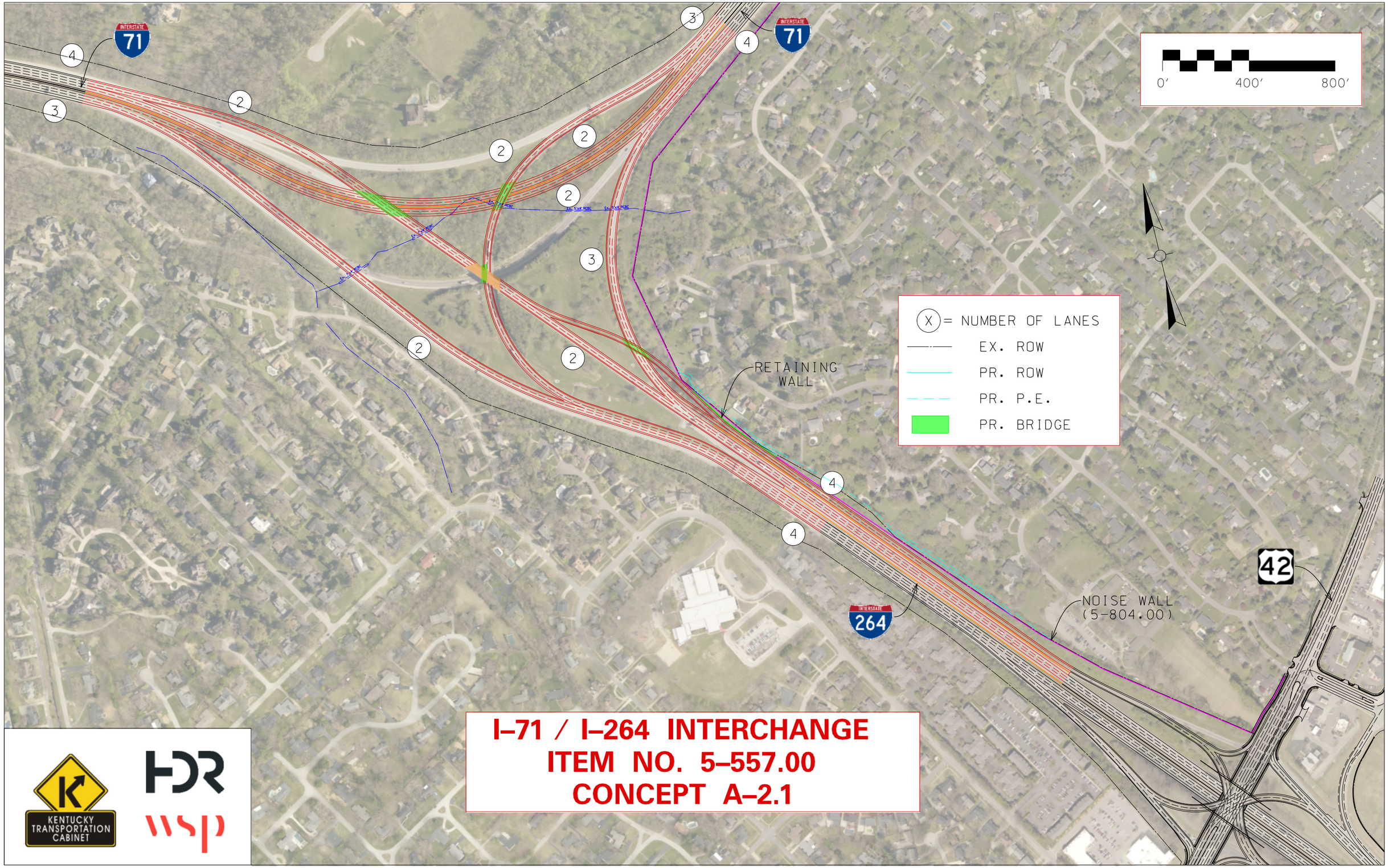
NOISE WALL
(5-804.00)

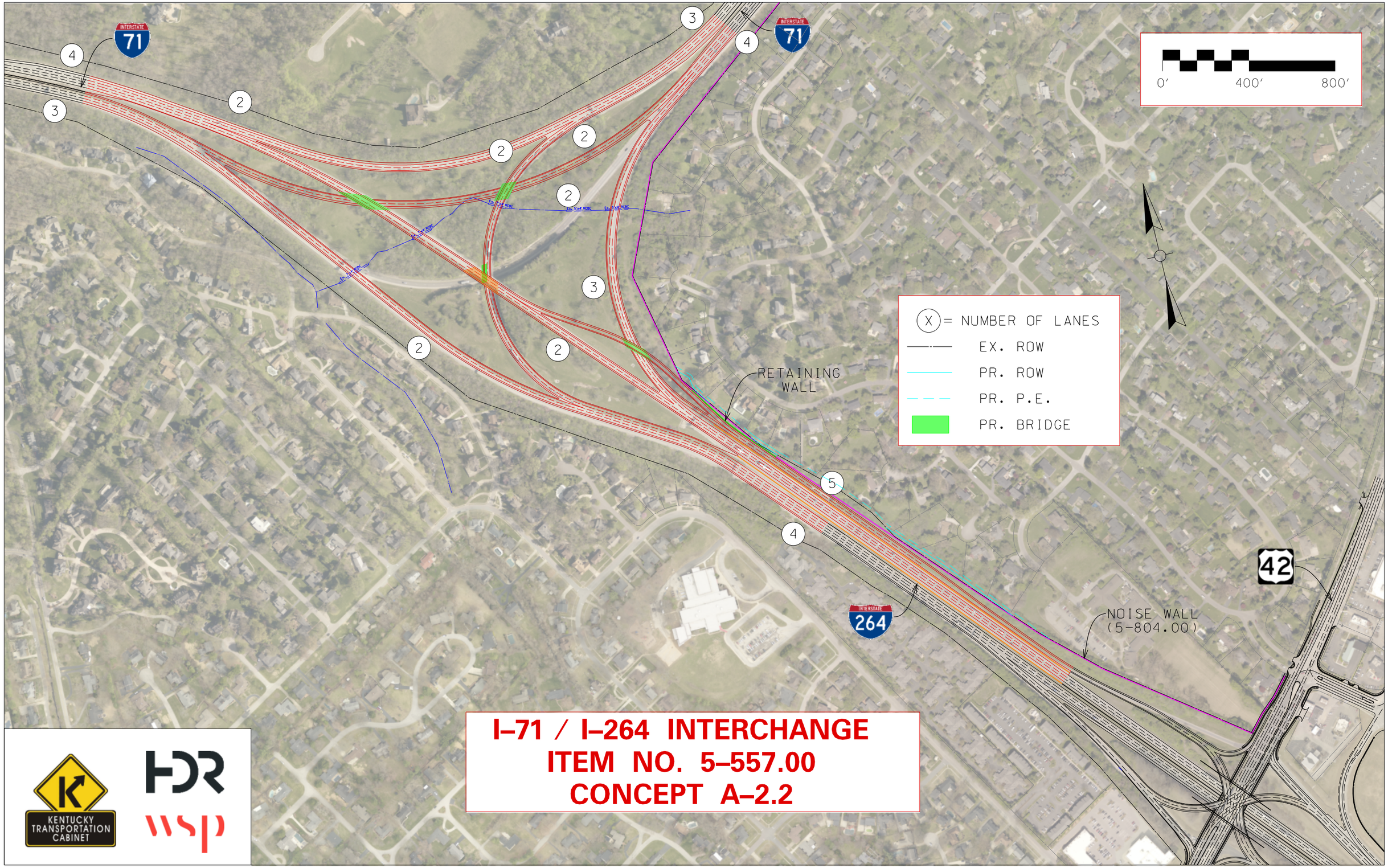
I–71 / I–264 INTERCHANGE
ITEM NO. 5–557.00
CONCEPT A–1.1

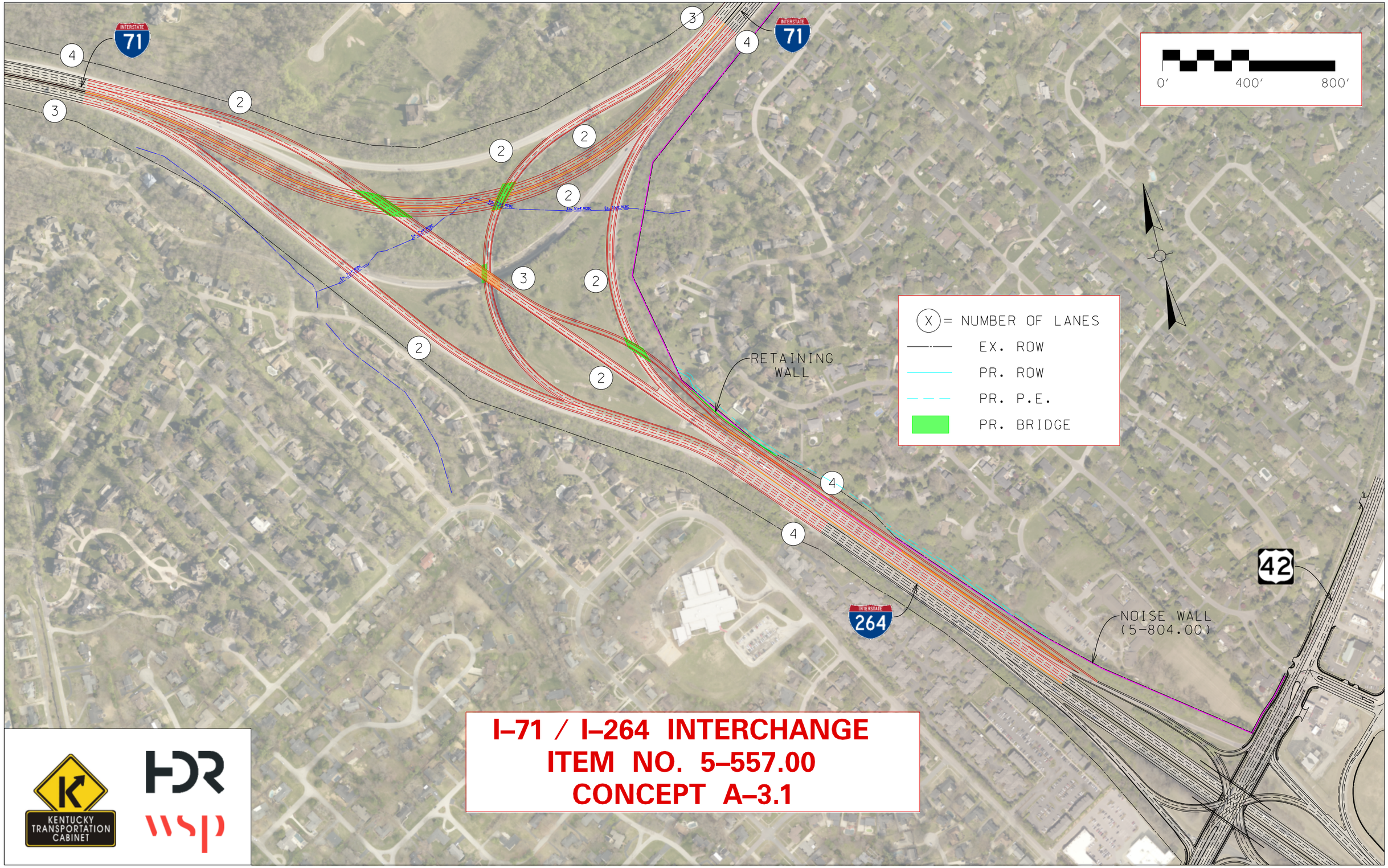
KENTUCKY TRANSPORTATION CABINET

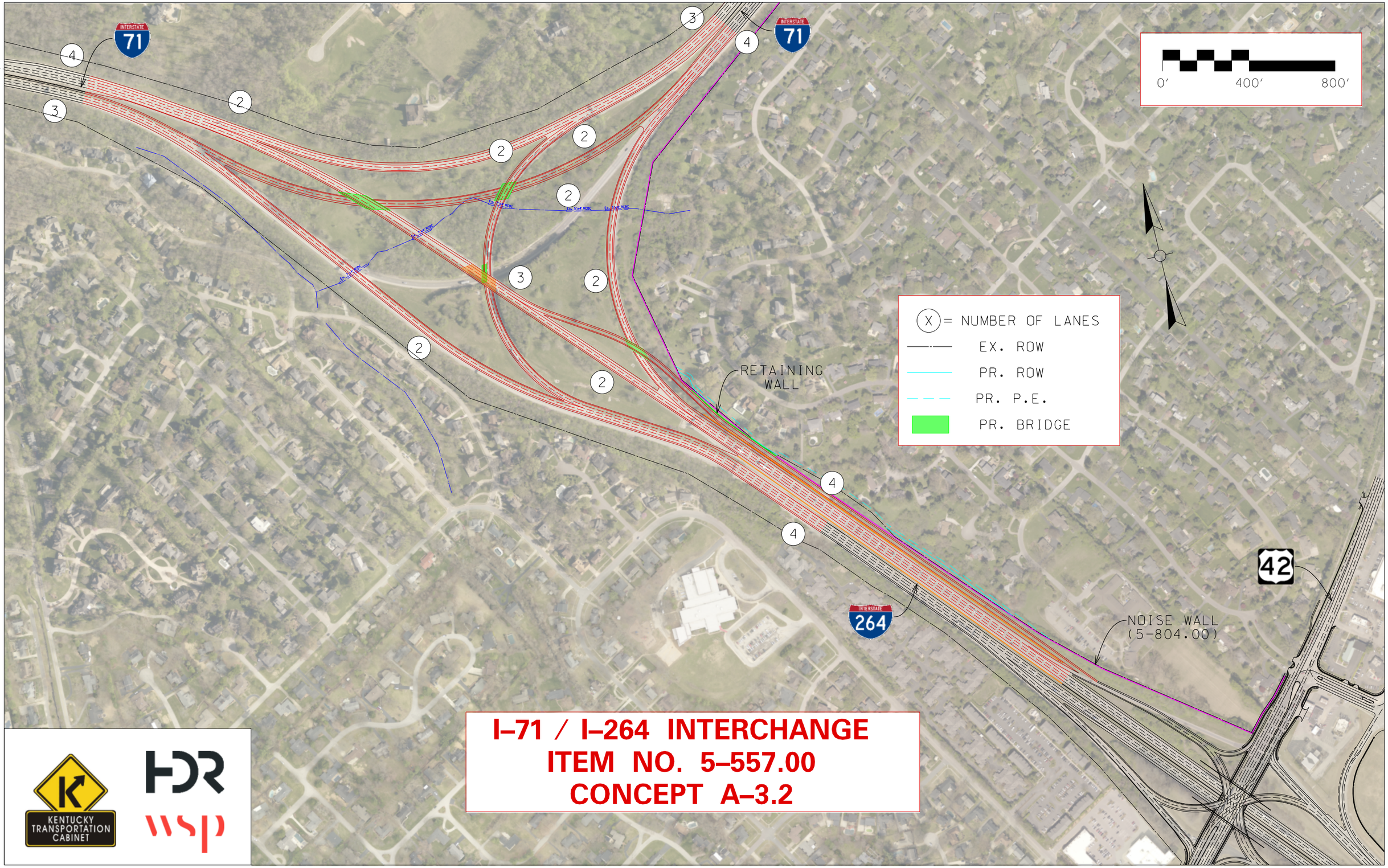
HDR

WSP


INTERSTATE 71
INTERSTATE 71
INTERSTATE 264
42
RETAINING WALL
NOISE WALL (5-804.00)
0'
400'
800'
X = NUMBER OF LANES
EX. ROW
PR. ROW
PR. P.E.
PR. BRIDGE
I–71 / I–264 INTERCHANGE
ITEM NO. 5–557.00
CONCEPT A–2.1
KENTUCKY TRANSPORTATION CABINET
HDR
WSP


INTERSTATE 71
INTERSTATE 71
INTERSTATE 264
42
RETAINING WALL
NOISE WALL (5-804.00)
0'
400'
800'
X = NUMBER OF LANES
EX. ROW
PR. ROW
PR. P.E.
PR. BRIDGE
I–71 / I–264 INTERCHANGE
ITEM NO. 5–557.00
CONCEPT A–2.2
KENTUCKY TRANSPORTATION CABINET
HDR
WSP


INTERSTATE 71
INTERSTATE 71
INTERSTATE 264
42
RETAINING WALL
NOISE WALL (5-804.00)
0'
400'
800'
X = NUMBER OF LANES
EX. ROW
PR. ROW
PR. P.E.
PR. BRIDGE
I–71 / I–264 INTERCHANGE
ITEM NO. 5–557.00
CONCEPT A–3.1
KENTUCKY TRANSPORTATION CABINET
HDR
WSP

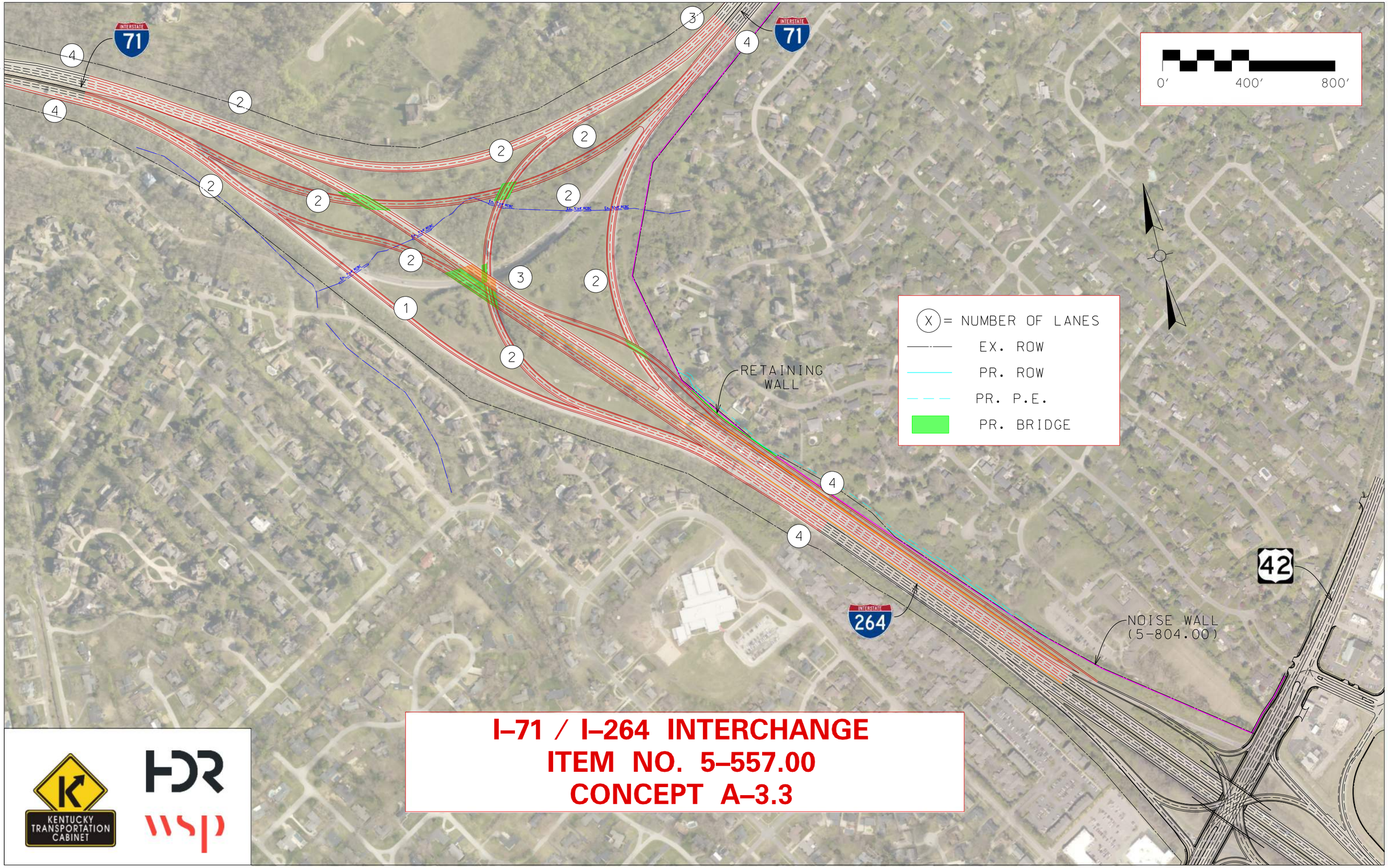


I–71 / I–264 INTERCHANGE
ITEM NO. 5–557.00
CONCEPT A–3.2

KENTUCKY TRANSPORTATION CABINET

HDR

WSP



I–71 / I–264 INTERCHANGE
ITEM NO. 5–557.00
CONCEPT A–3.3

KENTUCKY TRANSPORTATION CABINET

HDR

WSP

Appendix J

Project Sheets

Short-Term Low-Cost Improvement L-2

Name: Route Shield Pavement Markings (Lane Tattoos)

Description: Add route shield pavement markings on interchange approaches.

Location: Approx. I-71 MP 4.71 (NB); I-71 MP 5.45 (SB); and I-264 MP 22.57 (EB) [see map]

Estimated Project Cost (2020 Dollars)

D	$0
R	$0
U	$0
C	$145,000
Total	**$145,000**

Identified Needs

Traffic Operations	Safety	Other
Crashes and incidents on the interchange approaches reduce speeds and increase travel times.	From 2017 to 2019, 278 crashes occurred in the interchange area, with 60% occurring in the approach / diverge areas. I-71 NB Approach (37 crashes, 5 side-swipe), I-71 SB Approach (66 crashes, 14 side-swipe, 2 angle), I-264 EB approach (62 crashes, 11 side-swipe, 3 angle)	Crashes and incidents reduce travel time reliability through the interchange.

Proposed Improvement

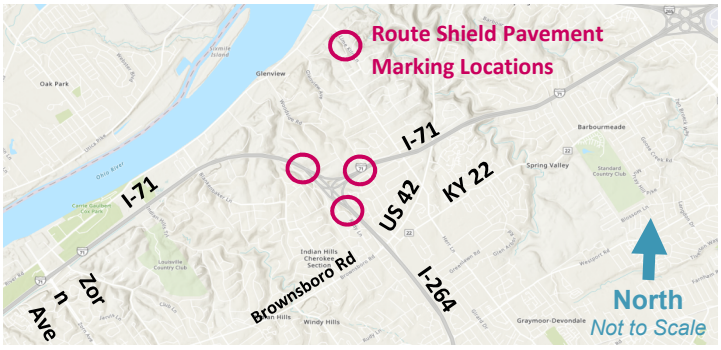
This improvement would add Interstate route shield pavement markings (lane tattoos) in advance of the major diverge points leading into the interchange, including the I-71 NB diverge, I-71 SB diverge, and the I-264 EB diverge. Route shield pavement markings are expected to improve lane utilization and lane assignments by providing additional, digestible information to drivers in advance of diverges. Route shield pavement markings are present today at the I-65 / I-64 interchange in downtown Louisville a few miles away from the project area.

Challenges

There are no challenges related to installing the pavement markings, but they do create additional maintenance responsibilities.



Example of Lane Tattoo Application



Location Map

Short-Term Low-Cost Improvement L-4

Name: Vegetation Management

Description: Trim vegetation so that it does not obstruct sight distance or reduce sunlight on roadway surfaces.

Location: I-71 MP 4.7-5.4, I-264 MP 22.65-22.92 (see map below)

Estimated Project Cost (2020 Dollars)

D	$0
R	$0
U	$0
C	$0
Total	**$75,000 Maint. Activity**

Identified Needs

Traffic Operations	Safety	Other
NA	Vegetation can obstruct sight distance around horizontal curves. It can also increase pavement drying times after rain events. Between 2017 and 2019 there were 131 total crashes in the interchange area where vegetation trimming may be needed, including 30 crashes during rain events and 41 crashes flagged as wet pavement crashes.	NA

Proposed Improvement

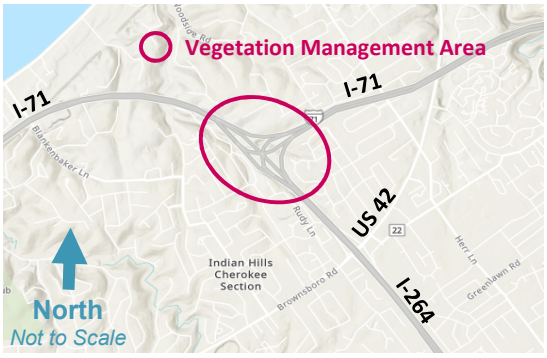
The improvement would remove trees, branches, and other vegetation along the ramps within the interchange to increase horizontal offset sight distance and decrease drying times for wet pavement.

Challenges

N/A



I-71 NB ramp through interchange



Location Map

Short-Term Low-Cost Improvement L-5

Name: Dynamic Message Signs (DMS)

Description: Add 4 DMS within Project Area (2 Arterial DMS at US-42 Interchange, 1 Side Mount DMS on I-264 EB, 1 Overhead DMS on I-71 NB.

Location: I-71 MP 2.3; I-264 MP 21.68; US 42 MP 5.6 and 6.0 (see map below)

Estimated Project Cost (2020 Dollars)

D	$0
R	$0
U	$0
C	$750,000
Total	**$750,000**

Identified Needs

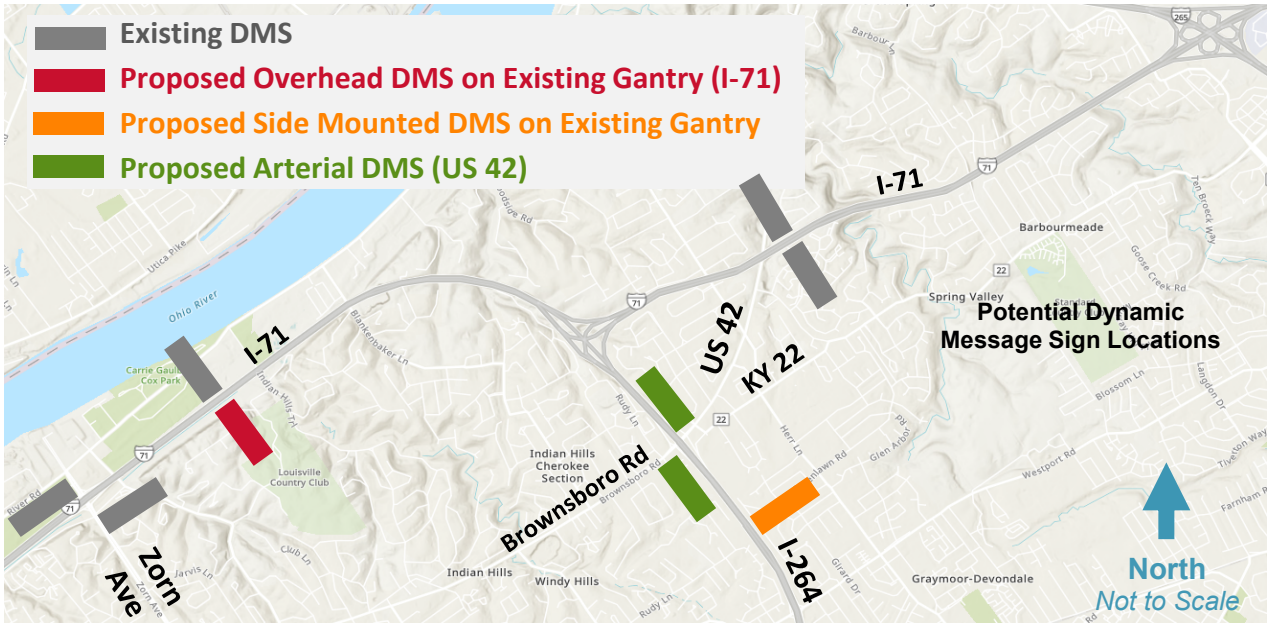
Traffic Operations	Safety	Other
There are currently no DMS on the I-264 EB approach, I-71 NB approach, or on US42 in advance of the interchange to notify drivers of incidents.	Without advance information, drivers can be surprised by unexpected backups, leading to secondary crashes. Of the 278 total crashes in the interchange area, 119 were rear end crashes. (These signs would also benefit the mainline sections of I-71 and I-264.)	Without advance information, drivers can be caught in traffic congestion that could be avoided (reliability issue).

Proposed Improvement

This improvement adds four Dynamic Message Signs (DMS) within the project area at key locations to inform drivers of incidents (to reduce secondary crashes) and to give drivers an opportunity to seek other routes to their destination. Locations include two DMS on US42 approaching the I-264 interchange, one side mounted DMS on I-264 EB (east of the US42 interchange), and one overhead DMS on I-71 NB (north of Zorn Ave. interchange).

Challenges

DMS should be located, designed, constructed, and operated in the context of the regional ITS/ATDM system. The northbound I-71 sign may require a new or reinforced structure.



Short-Term Low-Cost Improvement L-7

Name: Gore Extension

Description: Extend gore by adding additional thermoplastic pavement striping.

Location: I-71 MP 5.32 to 5.6 (see map)

Estimated Project Cost
(2020 Dollars)

D	$0
R	$0
U	$0
C	$0
Total	**$5,000 Maint. Activity**

Identified Needs

Traffic Operations	Safety	Other
Queuing and reductions in travel speed occur at the I-71 NB / I-264 EB Ramp merge.	Same Direction-Side Swipe crashes tend to cluster around the I-71 NB / I-264 EB Ramp merge area. From 2017 to 2019, 21 crashes occurred within the merge area (2 injury, 19 PDO).	NA

Proposed Improvement

The improvement would shift the I-71 NB / I-264 EB Ramp gore approximately 1,500' further north using delineation. The delineation would be provided by adding additional thermoplastic striping to the pavement. The extension of the gore area would decrease speed differentials for merging vehicles, shift the merge away from the upgrades, shorten the merge area to remove turbulence from the traffic stream, and improve driver expectations.

Challenges

There are no major challenges, but it will create additional maintenance responsibilities.





Long-Term Improvement B-1 - Minimum Improvement Meeting Purpose and Need

Description: Realign I-71 NB Through Interchange and Widen I-71 SB to I-264 WB Ramp to 2 lanes. **This is the minimum cost improvement that meets the purpose and need.**

Location: I-71 MP 4.70 to 5.42; I-264 MP 22.49 to 22.92 (see figure)

Cost (2020 dollars)

D	$	2,800,000
R	$	-
U	$	180,000
C	$	13,600,000
Total	**$**	**16,580,000**

Identified Needs

Traffic Operations

Existing and No-Build Level of Service (HCM Analysis)

Interchange Element	Existing (2019) AM	Existing (2019) PM	No-Build (2045)* AM	No-Build (2045)* PM
I-71 NB Diverge	A	E	B	D
I-71 NB Merge	C	F	B	D
I-71 SB Diverge	F	C	D	C
I-71 SB to I-264 WB Ramp	F	C	F	F
I-71 SB Merge	C	A	C	A
I-264 EB Weave	F	F	B	B
I-264 WB Weave	B	C	B	B
I-264 EB to I-71 NB Ramp	C	F	B	D

** No-Build + Project 5-804 + 6 lanes on I-71 mainline*

Safety and Reliability

Crashes by Severity (2017-2019)

Fatal	Injury	Property Damage Only	Total
2	41	235	278

278 crashes occurred in the interchange area from 2017-2019. That is over 90 per year or nearly 2 per week. There are crash clusters in the I-264 EB weave, I-71 NB diverge, and I-71 SB exit to I-264 WB. The alignment of the I-71 NB through lanes is an issue (feels like left exit, tight curve, and grade) as is the single lane diverge to I-264 EB. The SB I-71 mainline has left side exit and entrance ramps. Crashes and congestion impact reliability of the Interstate system.

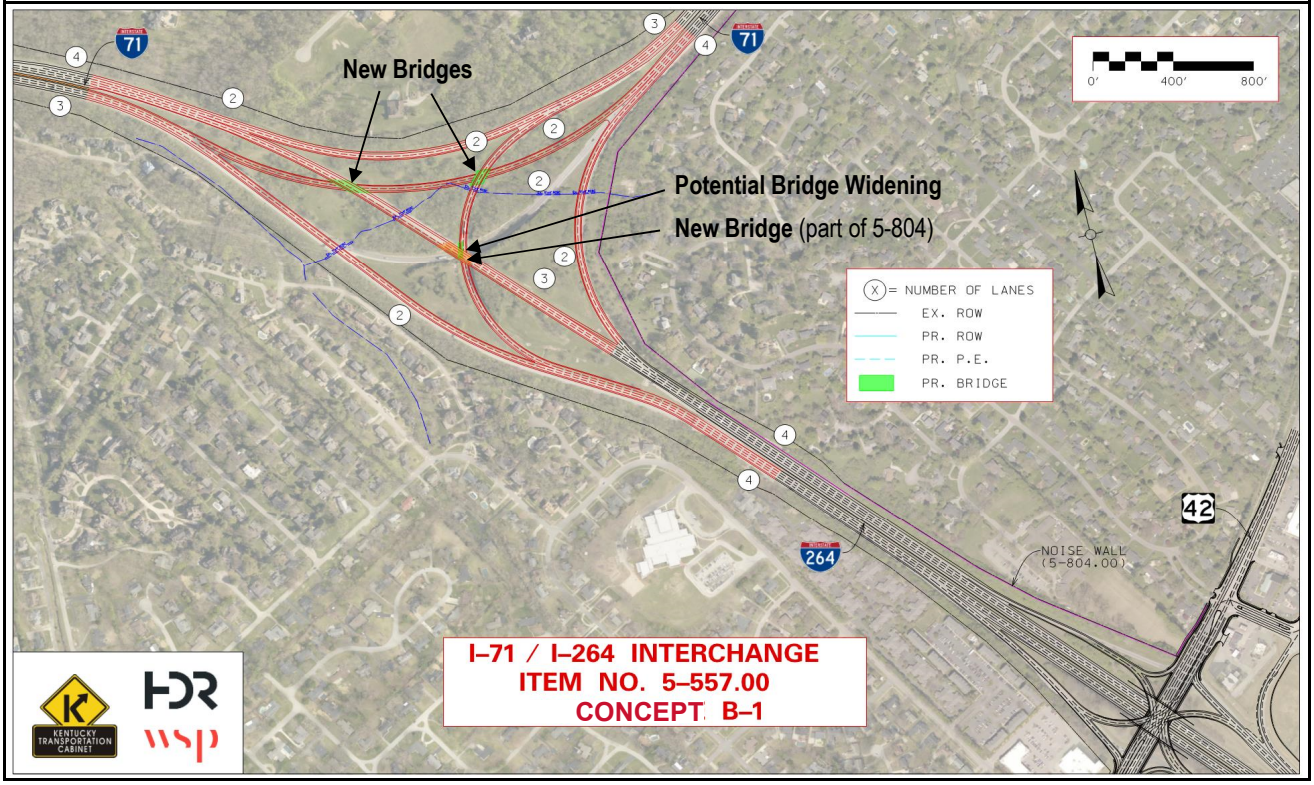
Note: I-71/I-264 is adjacent to two active interstate widening projects (5-

Proposed Improvement

Improvement would realign I-71 NB through the interchange with an improved radius. It would widen the I-71 SB to I-264 WB ramp to two lanes. It addresses several critical safety and capacity issues resulting in an overall LOS C (2045) and fewer projected crashes. This concept maintains lane balance at ramp diverges and merges. The left-sided ramps on I-71 SB and the weaving movements on I-264 EB and WB will remain. Two new bridges and one bridge widening are needed (if no design variance is obtained). This improvement would tie into improvements from project 5-804.00 on I-264 and project 5-557.00 on I-71.

Challenges

Maintenance of traffic challenges and need for an inside shoulder design variance for I-71 SB to I-264 WB Ramp.



Long-Term Improvement A-2.2 - Comparable to Concepts B-1 & A-3.2

Description: Realign I-71 NB Through Interchange, Widen I-71 SB to I-264 WB Ramp, and Construct a Collector-Distributor Roadway on I-264 EB between US42 and the bridge over the I-71 SB Ramp.

Location: I-71 MP 4.70 to 5.42; I-264 MP 22.49 to 22.92 (see figure)

Cost (2020 dollars)

D	$	2,800,000
R	$	340,000
U	$	700,000
C	$	21,600,000
Total	**$**	**25,440,000**

Identified Needs

Traffic Operations

Existing and No-Build Level of Service (HCM Analysis)

Interchange Element	Existing (2019) AM	Existing (2019) PM	No-Build (2045)* AM	No-Build (2045)* PM
I-71 NB Diverge	A	E	B	D
I-71 NB Merge	C	F	B	D
I-71 SB Diverge	F	C	D	C
I-71 SB to I-264 WB Ramp	F	C	F	F
I-71 SB Merge	C	A	C	A
I-264 EB Weave	F	F	B	B
I-264 WB Weave	B	C	B	B
I-264 EB to I-71 NB Ramp	C	F	B	D

** No-Build + Project 5-804 + 6 lanes on I-71 mainline*

Safety and Reliability

Crashes by Severity (2017-2019)

Fatal	Injury	Property Damage Only	Total
2	41	235	278

278 crashes occurred in the interchange area from 2017-2019. That is over 90 per year or nearly 2 per week. There are crash clusters in the I-264 EB weave, I-71 NB diverge, and I-71 SB exit to I-264 WB. The alignment of the I-71 NB through lanes is an issue (feels like left exit, tight curve, and grade) as is the single lane diverge to I-264 EB. The SB I-71 mainline has left side exit and entrance ramps. Crashes and congestion impact reliability of the Interstate system.

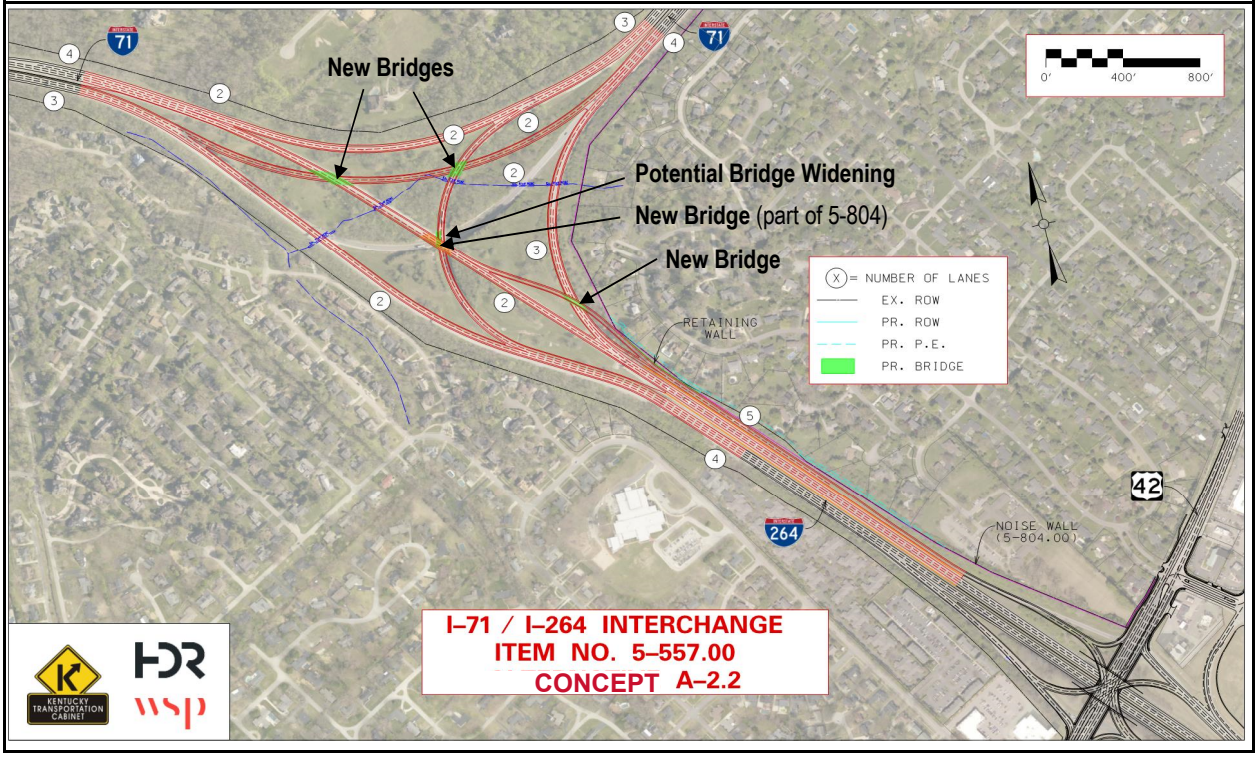
Note: I-71/I-264 is adjacent to two active interstate widening projects

Proposed Improvement

Improvement would realign I-71 NB through the interchange with an improved radius and it would widen the I-71 SB to I-264 WB ramp to two lanes. A Collector-Distributor roadway would be added on I-264 EB to remove the weave between US42 and I-71. It addresses several critical safety and capacity issues resulting in an overall LOS C (2045) and fewer projected crashes. This concept maintains lane balance at ramp diverges and merges except for the I-264 EB diverge. The left-sided ramps on I-71 SB and the weaving movements on I-264 WB will remain. Three new bridges and one bridge widening are needed (if no design variance obtained). This improvement would tie into improvements from project 5-804.00 on I-264 and project 5-557.00 on I-71.

Challenges

ROW needed. Utility relocations. MOT challenges. Need for inside shoulder design variance for I-71 SB to I-264 WB Ramp.



Long-Term Improvement A-3.2 - Possible Future Phase of B-1

Description: Realign I-71 NB through interchange; Widen I-71 SB to I-264 WB ramp; and Construct a bypass ramp that runs parallel to I-264 EB starting at the US42 ramp, bridging over the I-264 EB to I-71 NB ramp and tying into the I-71 SB ramp.

Location: I-71 MP 4.70 to 5.42; I-264 MP 22.49 to 22.92 (see figure)

Cost (2020 dollars)

D	$	2,800,000
R	$	340,000
U	$	700,000
C	$	21,400,000
Total	**$**	**25,240,000**

Identified Needs

Traffic Operations

Existing and No-Build Level of Service (HCM Analysis)

Interchange Element	Existing (2019) AM	Existing (2019) PM	No-Build (2045)* AM	No-Build (2045)* PM
I-71 NB Diverge	A	E	B	D
I-71 NB Merge	C	F	B	D
I-71 SB Diverge	F	C	D	C
I-71 SB to I-264 WB Ramp	F	C	F	F
I-71 SB Merge	C	A	C	A
I-264 EB Weave	F	F	B	B
I-264 WB Weave	B	C	B	B
I-264 EB to I-71 NB Ramp	C	F	B	D

** No-Build + Project 5-804 + 6 lanes on I-71 mainline*

Safety and Reliability

Crashes by Severity (2017-2019)

Fatal	Injury	Property Damage Only	Total
2	41	235	278

278 crashes occurred in the interchange area from 2017-2019. That is over 90 per year or nearly 2 per week. There are crash clusters in the I-264 EB weave, I-71 NB diverge, and I-71 SB exit to I-264 WB. The alignment of the I-71 NB through lanes is an issue (feels like left exit, tight curve, and grade) as is the single lane diverge to I-264 EB. The SB I-71 mainline has left side exit and entrance ramps. Crashes and congestion impact reliability of the Interstate system.

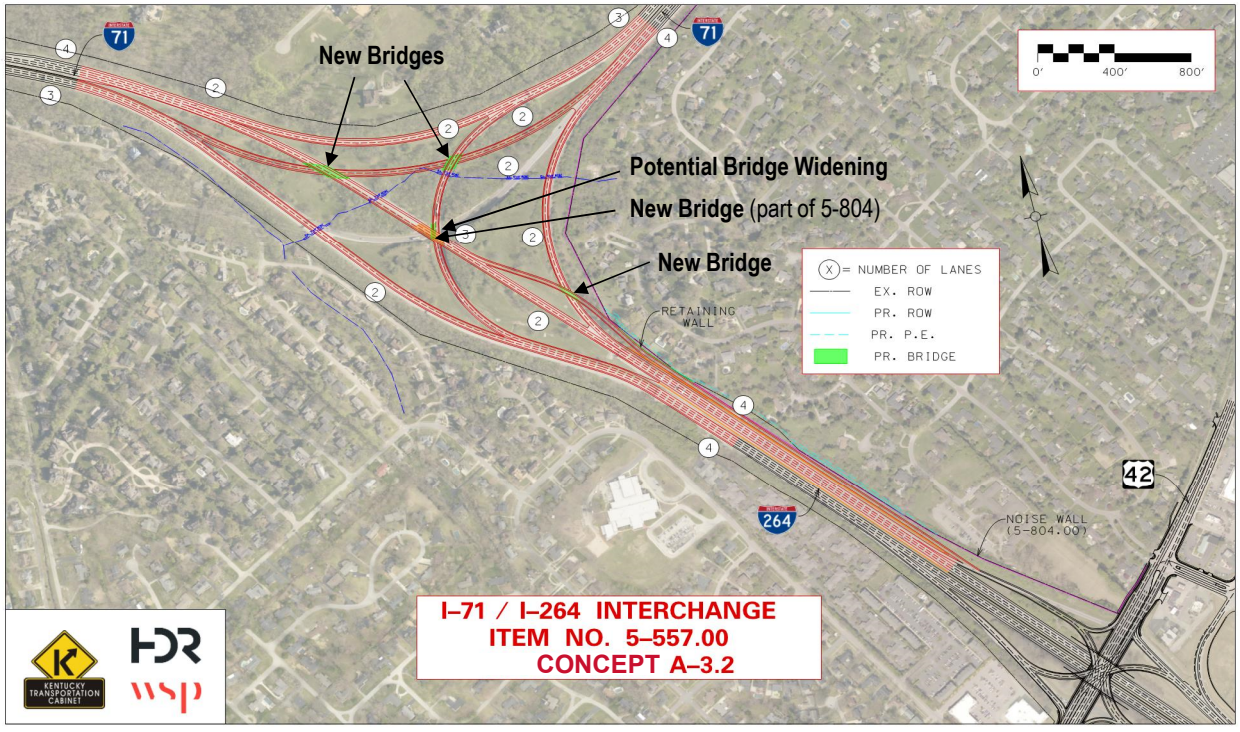
Note: I-71/I-264 is adjacent to two active interstate widening projects (5-

Proposed Improvement

Improvement would realign I-71 NB through the interchange with an improved radius. It would widen the I-71 SB to I-264 WB ramp to two lanes. A bypass lane would be added from US 42 to I-264 EB to remove the weave between US42 and the I-71 SB bridge (could be a future phase to project B-1 at this location). It addresses several critical safety and capacity issues resulting in an overall LOS C (2045) and fewer projected crashes. This concept maintains lane balance at ramp diverges and merges except for the I-264 EB diverge. The left-sided ramps on I-71 SB and the weaving movements on I-264 WB will remain. Three new bridges and one bridge widening (if no design variance obtained) are needed. This improvement would tie into improvements from project 5-804.00 on I-264 and project 5-557.00 on I-71.

Challenges

ROW needed. Utility relocations. MOT challenges. Need for inside shoulder design variance for I-71 SB to I-264 WB Ramp.



Long-Term Improvement A-3.3 - Possible Future Phase to Concepts B-1 & A-3.2

Description: Realign I-71 NB through interchange; Widen I-71 SB to I-264 WB ramp; and Construct a bypass ramp that runs parallel to I-264 EB from US42 to the I-71 SB ramp. The ramps from I-71 SB and I-71 NB to I-264 WB would also be braided.

Location: I-71 MP 4.70 to 5.42; I-264 MP 22.49 to 22.92 (see figure)

Cost (2020 dollars)

D	$	3,470,000
R	$	340,000
U	$	700,000
C	$	27,500,000
Total	**$**	**32,010,000**

Identified Needs

Traffic Operations

Existing and No-Build Level of Service (HCM Analysis)

Interchange Element	Existing (2019) AM	Existing (2019) PM	No-Build (2045)* AM	No-Build (2045)* PM
I-71 NB Diverge	A	E	B	D
I-71 NB Merge	C	F	B	D
I-71 SB Diverge	F	C	D	C
I-71 SB to I-264 WB Ramp	F	C	F	F
I-71 SB Merge	C	A	C	A
I-264 EB Weave	F	F	B	B
I-264 WB Weave	B	C	B	B
I-264 EB to I-71 NB Ramp	C	F	B	D

** No-Build + Project 5-804 + 6 lanes on I-71 mainline*

Safety and Reliability

Crashes by Severity (2017-2019)

Fatal	Injury	Property Damage Only	Total
2	41	235	278

278 crashes occurred in the interchange area from 2017-2019. That is over 90 per year or nearly 2 per week. There are crash clusters in the I-264 EB weave, I-71 NB diverge, and I-71 SB exit to I-264 WB. The alignment of the I-71 NB through lanes is an issue (feels like left exit, tight curve, and grade) as is the single lane diverge to I-264 EB. The SB I-71 mainline has left side exit and entrance ramps. Crashes and congestion impact reliability of the Interstate system.

Note: I-71/I-264 is adjacent to two active interstate widening projects

Proposed Improvement

Improvement would realign I-71 NB through the interchange with an improved radius. It would widen the I-71 SB to I-264 WB ramp to two lanes. A bypass lane would be added on I-264 EB to remove the weave between US42 and the I-71 SB bridge. The ramp from I-71 NB to I-264 WB would be split into a slip ramp to US42 and a second rand that would be braided with the I-71 SB ramp. This would eliminate the need for weaving. (This could be a future phase of Project B-1 in this same location.) It addresses several critical safety and capacity issues resulting in an overall LOS C (2045) and fewer projected crashes. This concept maintains lane balance at ramp diverges and merges except for the I-264 EB diverge and I-71 NB diverge. The left-sided ramps on I-71 SB will remain. Four new bridges and one bridge widening are needed (if no design variance obtained). This improvement would tie into improvements from project 5-804.00 on I-264 and project 5-557.00 on I-71.

Challenges

ROW needed. Utility relocations. MOT challenges. Need for inside shoulder design variance for I-71 SB to I-264 WB Ramp.

