

# **SH-412B/PATROL ROAD INTERSECTION MODIFICATION REGULATORY PROVISIONS CHECKLIST**

Mayes County

JP # 35353(04)

**Prepared for:**

Oklahoma Ordinance Work Authority

P.O. Box 945

Pryor, Oklahoma 74362-0945

**Prepared by:**

Olsson, Inc.

Oklahoma City, OK



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# **1 INTRODUCTION**

## **1.1 Purpose of Environmental Review**

The purpose of this environmental review is to document the existing potential environmental resources that may be impacted by the intersection improvement project along SH-412B and County Road EW-0555 (Patrol Road) in the MidAmerica Industrial Park (MAIP), Mayes County, Oklahoma (Figure 1). The project is not funded with any Federal Highway Administration (FHWA) funds and does not require a NEPA document approved by FHWA. State and Federal laws and permits, however, may apply. The permits and provisions that may be stipulated as part of the environmental review are part of the oversight required for ODOT to follow during the construction phase of the project and are required before ODOT can place the project on a bid letting and are obligations of the project sponsor regardless of the letting or contracting process used. This report summarizes existing information gathered for the project and documents summaries of individual resource evaluations.

## **1.2 Project Information**

The existing SH-412B and County Road EW-0555 (Patrol Road) have two lanes in each direction with a skewed intersection. The current Annual Average Daily Traffic on SH-412B is 3,900 vehicles per day. The proposed improvement consists of safety improvements to correct poor site distance at SH-412B and Patrol Road, to include a 4-leg roundabout plus drive for future wastewater treatment facility. To accommodate the roundabout an alignment modification will be made to SH-412B at the tie in location.

## **1.3 Project Setting**

The proposed project's environmental study area is approximately 22.3 acres located in Section 16, Township 20 North, Range 19 East. The geometric center of the proposed project area is located at latitude -95.2875486 and longitude 36.2139847.

The proposed project is located within the Osage Cuestas of the Central Irregular Plains ecoregion (Woods et al. 2005). The Central Irregular Plains is a belt of prairie that separates the Cross Timbers from the forests of the Boston Mountains and Ozark Highlands. The Osage Cuestas ecoregion is an irregular to undulating plain that is underlain by interbedded, westward-dipping sandstone, shale, and limestone. East-facing ridges and low hills occur. Natural vegetation is mostly tall grass prairie, but a mix of tall grass prairie and oak-hickory forest is native to eastern areas. Today, rangeland, cropland, riparian forests, and on rocky hills, oak woodland or oak forest occur.

The study area consists of predominately maintained rights-of-way (ROW) surrounded by open grassland and upland forest, and was comprised of the following community types: open

grassland dominated by tall fescue (*Schedonorus arudinaceus*), field clover (*Trifolium campestre*), Johnsongrass (*Sorghum halepense*), blackberry (*Rubus argutus*), and Bermuda grass (*Cyndodon dactylon*); and upland forest dominated by hackberry (*Celtis occidentalis*), honey locust (*Gleditsia triacanthos*), bitternut hickory (*Carya cordirofmis*), and cat greenbrier (*Smilex glauca*).

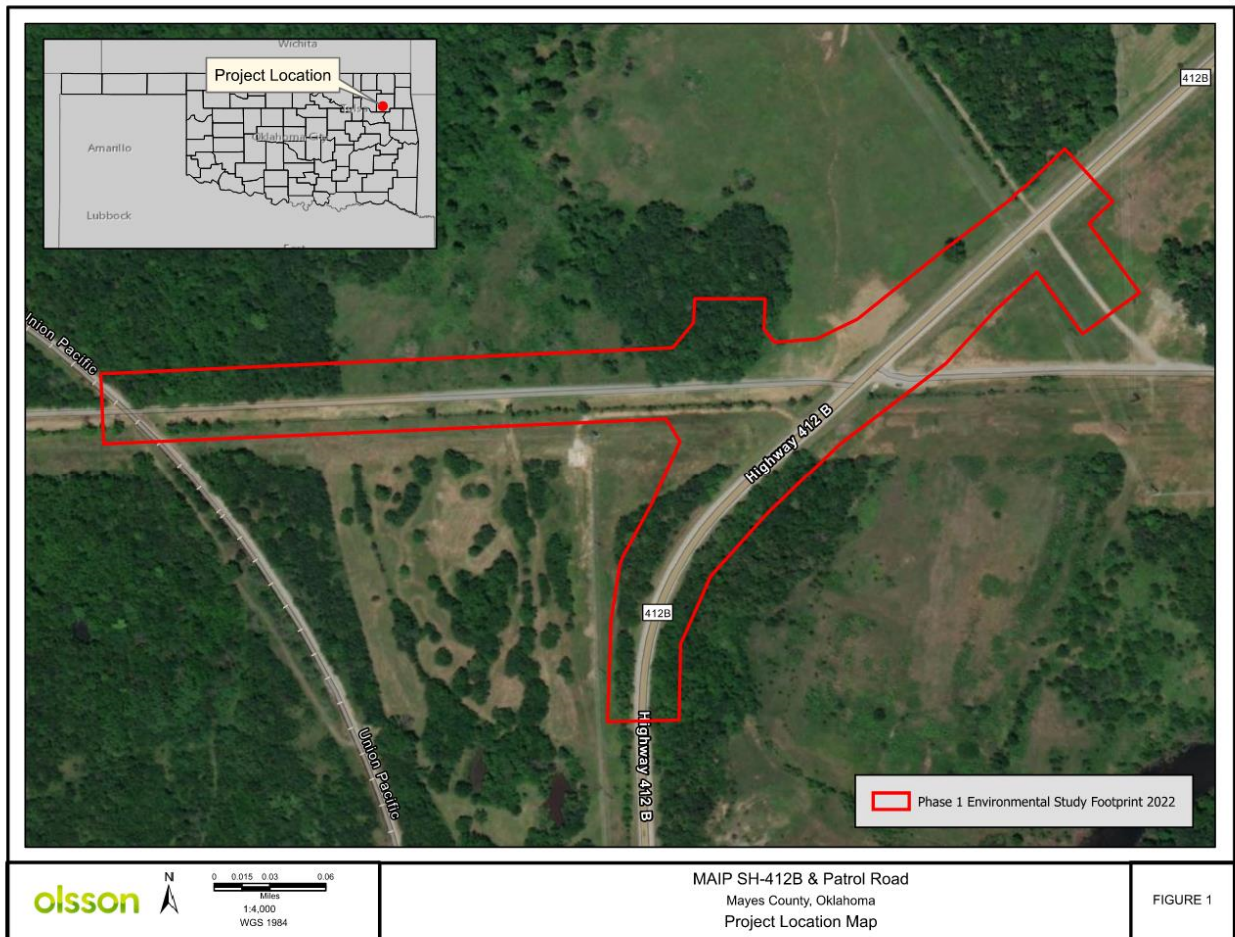


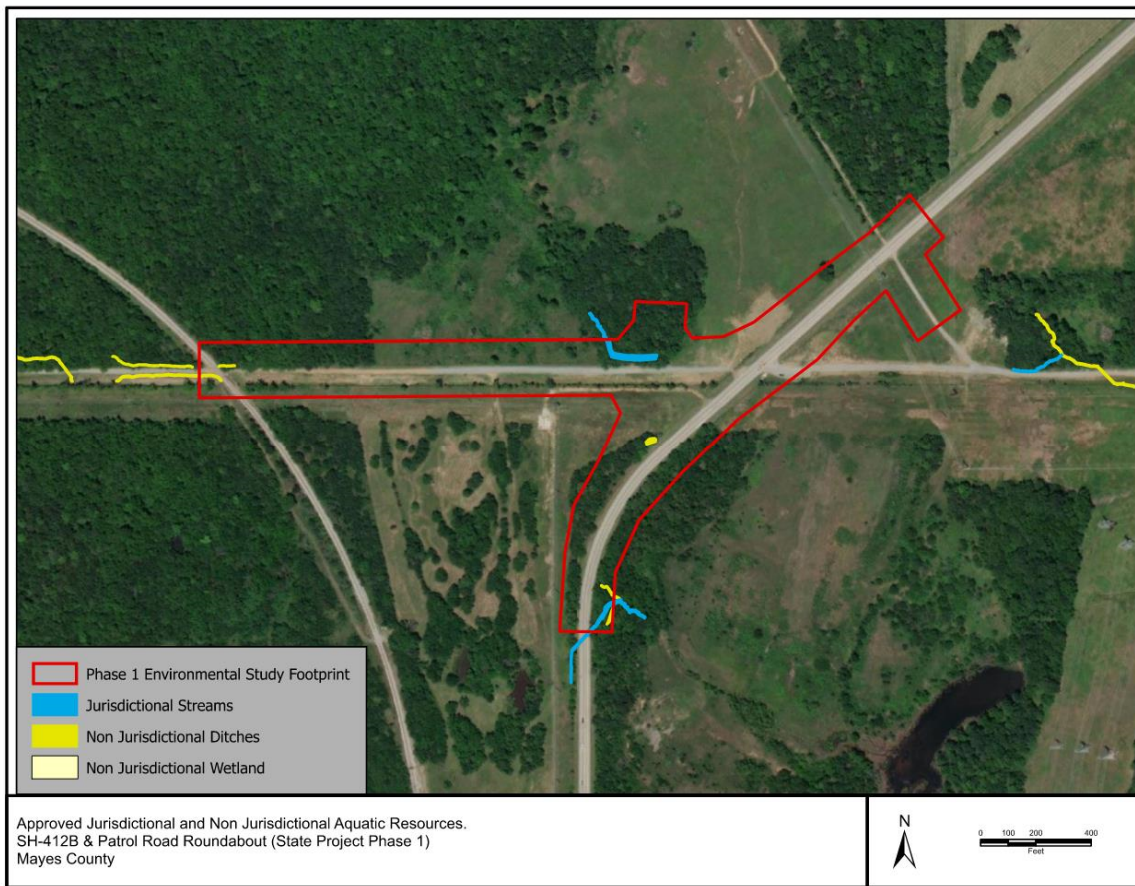
Figure 1. SH-412B and Patrol Road Intersection Improvement Project Proposed project area.

## 2 WATERS AND WETLANDS

Due to the vacatur and remanding of the Navigable Water Protection Rule by the U.S. District Court for the District of Arizona on August 30, 2021, the U.S. Army Corps of Engineers (USACE) was directed on September 2, 2021, by the Acting Assistant Secretary of the Army for Civil Works to resume conducting Approved Jurisdictional Determinations (AJDs) nationwide, consistent with the pre-2015 waters of the U.S. (WOTUS) regulatory regime. Consequently, an

AJD was evaluated for this proposed project area as part of a larger review for the presence or absences of WOTUS.

The USACE examined the property within the environmental study footprint and concluded it contains 2 streams which have been determined to be jurisdictional pursuant to Section 404 of the Clean Water Act, and 5 streams and 1 wetland which has been determined not to be jurisdictional pursuant to Section 404 of the Clean Water Act (Figure 2). The basis for this determination is documented in Appendix A.



**Figure 2. Aquatic resources within SH-412B and Patrol Road Intersection Improvement Project Proposed project area.**

### **3 SECTION 404 PERMIT**

Depending on the amount of disturbance, activities resulting from the proposed project will likely fall within the criteria of Clean Water Act (CWA) Section 404 Nationwide Permit (NWP) - 14 Linear Transportation Projects with the discharge not causing the loss of greater than 0.5 acre

of Waters of the U.S. and will require preconstruction notification to the U.S. Army Corps of Engineers if the loss of waters of the U.S. exceeds 1/10 acre.

## 4 THREATENED AND ENDANGERED SPECIES

A biological evaluation of the federally listed threatened and endangered species, federal candidate species, and federally designated critical habitat was conducted to determine the potential impacts of the proposed project on these resources. A field site visit to assess habitat availability and impacts was conducted on January 11, 2022. Because the proposed project may require a CWA 404 NWP, consultation with U.S. Fish and Wildlife Service (USFWS) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 et seq.) was initiated on January 10, 2022, consultation code 02EKOK00-2022-SLI-0708 (Appendix B). Based on the USFWS' Information for Planning and Consultation (IPaC) information, the following species occur within the proposed project's vicinity: gray bat (*Myotis grisescens*), northern long-eared bat (*Myotis septentrionalis*), piping plover (*Charadrius melodus*), red knot (*Calidris canutus rufa*), Ozark cavefish (*Amblyopsis rosae*), American burying beetle (*Nicrophorus americanus*), and monarch butterfly (*Danaus plexippus*). The IPaC Official Species List, Online Project Review Concurrence Letter, and Consistency letters for the American burying beetle and northern long-eared bat are included in Appendix B. Table 1 includes the species effects analysis and determination. Only those species where the effect determination was may affect for listed species or unlikely to jeopardize the continued existence for candidate species are discussed further.

**Table 1. Species Conclusion Table for SH-412B and Patrol Road Intersection Improvement Project.**

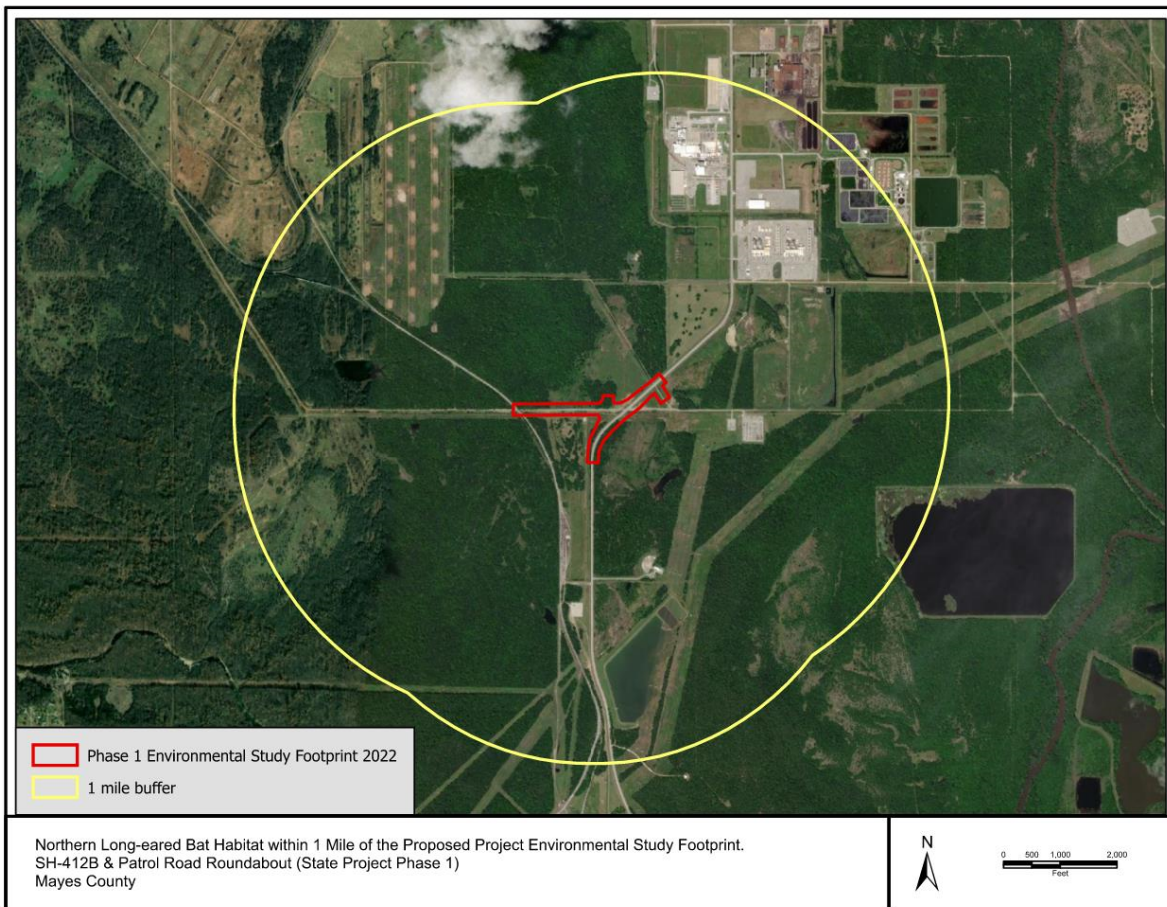
Species / Critical Habitat	Habitat Determination	Notes / Documentation	ESA Determination
Gray Bat ( <i>Myotis grisescens</i> )	No limestone karst features or riparian forest near streams, rivers, and associated wetlands occur within 0.5 miles of the project study area.	Field visit found no suitable habitat for the gray bat present or in the project's action area. No historical or recent observations of this species in the vicinity of the project are present in ONHI records.	No effect
Northern Long-eared Bat ( <i>Myotis septentrionalis</i> )	See Determination Key Attached	Appropriate Effect Determination for NLEB has been made under the BO for the final 4(d) rule	May affect
Piping Plover ( <i>Charadrius melodus</i> )	No sparsely vegetated sandy or gravelly shorelines and islands associated with major river systems or salt flats, or mudflats associated with reservoirs occur within 0.25 miles the project study area.	Field visit found no suitable habitat for the piping plover present or in the project's action area. No historical or recent observations in the vicinity of the project are present in ONHI records.	No effect

Species / Critical Habitat	Habitat Determination	Notes / Documentation	ESA Determination
Red Knot ( <i>Calidris canutus rufa</i> )	No mudflats associated with reservoirs occur within 0.25 miles the project study area.	Field visit found no suitable habitat for the red knot present or in the project's action area. No historical or recent observations in the vicinity of the project are present in ONHI records.	No effect
Ozark Cavefish ( <i>Amblyopsis rosae</i> )	No clear groundwater-fed streams in caves with chert and rubble beds occur within 0.5 miles of the project study area. Project is not located within an Ozark cavefish recharge watershed.	Field visit found no suitable habitat for the Ozark cavefish is present or in the project's action area. No historical or recent observations in the vicinity of the project are present in ONHI records.	No effect
American Burying Beetle ( <i>Nicrophorus americanus</i> )	See Determination Key Attached	Appropriate Effect Determination for ABB has been made under the BO for the final 4(d) rule	May Affect
Monarch Butterfly ( <i>Danaus plexippus</i> )	Native perennial vegetation with flowering or potentially flowering nectar plants are present within the project study area and action area.	Field visit found suitable monarch butterfly habitat within the project's action area that will likely be impacted by project activities.	Unlikely to jeopardize the continued existence

#### 4.1 Northern Long-eared Bat

Mayes County is located within the known range of the northern long-eared bat. The proposed project will involve the removal of approximately 5.7 acres of trees within areas of suitable foraging and roosting habitat. The proposed project, however, will not affect a cave or mine where northern long-eared bats are known to hibernate (i.e., hibernaculum), remove trees within 0.25 miles of a known northern long-eared bat hibernaculum at any time of year, or remove a known occupied northern long-eared bat maternity roost tree or any trees within 150 feet of a known occupied maternity roost tree from June 1 through July 31.

The proposed project may affect the northern long-eared bat, however, any take of the northern long-eared bat that may occur as a result of the proposed project is not prohibited under the Act Section 4(d) rule adopted for this species at 50 CFR §17.40(o). Under the USFWS 4(d) rule, incidental take involving tree removal is not prohibited if the activity does not cut or destroy known occupied maternity roost trees, or any other trees within a 150-foot (45-m) radius around the maternity roost tree, during the pup season (June 1 through July 31), and the activity does not occur within 0.25 mile from a known occupied northern long-eared bat hibernacula.



**Figure 3. Northern long-eared bat foraging and travel corridor habitat within 1 mile of the SH-412B and Patrol Road Intersection Improvement Project environmental study area.**

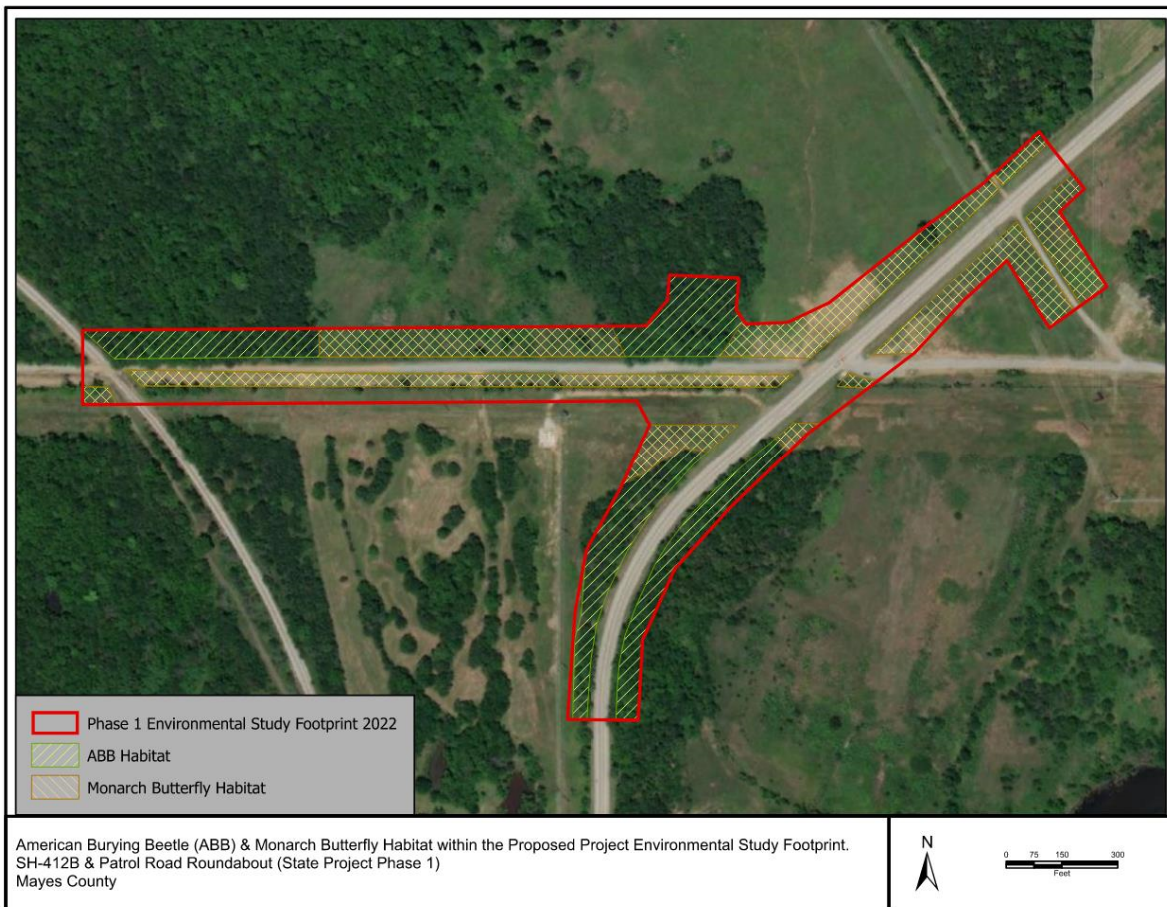
## 4.2 American Burying Beetle

Suitable American burying beetle habitat will be impacted if the action involves soil disturbance, use of vehicles or heavy equipment, artificial lighting, vegetation removal, use of herbicides, pesticides, other hazardous chemicals. The proposed project will affect approximately 16.2 acres of suitable habitat, with 8.6 acres of temporary impacts and 7.6 acres of permanent or long-term habitat impacts. Any incidental take of the American burying beetle that may occur as a result of the proposed project is not prohibited under the Act, Section 4(d) rule adopted for this species at 50 CFR § 17.47(d).

## 4.3 Monarch Butterfly

Suitable monarch butterfly habitat - native perennial vegetation with flowering or potentially flowering nectar plants - will be impacted by the use of vehicles or heavy equipment, vegetation removal, use of herbicides, pesticides, other hazardous chemicals. The proposed project will impact approximately 10.1 acres of suitable habitat. Impacts, however, are not expected to jeopardize the continued existence of the species.





**Figure 4. American burying beetle (ABB) and monarch butterfly habitat within 1 mile of the SH-412B and Patrol Road Intersection Improvement Project environmental study area.**

## 5 BALD EAGLE

The Bald and Golden Eagle Protection Act prohibits any actions which disturb/agitate an eagle to the degree that causes or is likely to (1) cause injury, (2) interfere with breeding, feeding, or sheltering behavior, or (3) nest abandonment. The bald eagle (*Haliaeetus leucocephalus*) nesting season in Oklahoma extends from September 16 through May 31. Bald eagles typically breed in forested areas adjacent to large bodies of water. Nests are mainly in mature and old-growth forest with some open habitat edge, relatively close (usually <2 km) to water with suitable foraging opportunities nearby. Suitable nesting, roosting or foraging habitat for the Bald Eagle occurs within the proposed project's vicinity. Nest surveys can only be conducted when leaves are not on the trees, typically between December 1st and February 28. If a nest is observed, a buffer of at least 660 feet shall be maintained between project activities and the nest. If a buffer cannot be maintained, then clearing and construction activities shall be conducted between June 1 and September 15, outside the nesting season. A nest search

survey was conducted at the time of the field site visit since it occurred during the nest survey period. No nests were observed. Typically, nest surveys are valid for one year.

## **6 MIGRATORY BIRDS**

The Migratory Bird Treaty Act (MBTA) prohibits the taking and killing of migratory birds, their eggs, parts and nests, except as authorized under a valid permit (50 CFR 21.11). No USFWS migratory birds of concern within the vicinity of the Project were listed on the IPaC.

## **7 HAZARDOUS WASTE**

An Initial Site Assessment (ISA) for industrial and hazardous waste sites within the proposed project area was conducted in conformance with the scope and limitations of ASTM Practice E1527-13. There were no significant data gaps, exceptions to, or deletions from, this standard. The ISA included a review of regulatory databases, state and local government databases and officials, historical and physical record resources, interviews (as applicable), user-provided information, and visual non-invasive reconnaissance of the proposed project area and adjoining properties. The field reconnaissance occurred on January 17, 2022. Olsson does not consider the remaining features, listings, and observations identified in the report to represent environmental concerns for the Property due to location, regulatory status, and/or documented conditions. The ISA did not identify any recognized environmental conditions (RECs) or controlled recognized environmental condition (CRECs) were identified over the course of this ISA. The ISA is included as Appendix C.

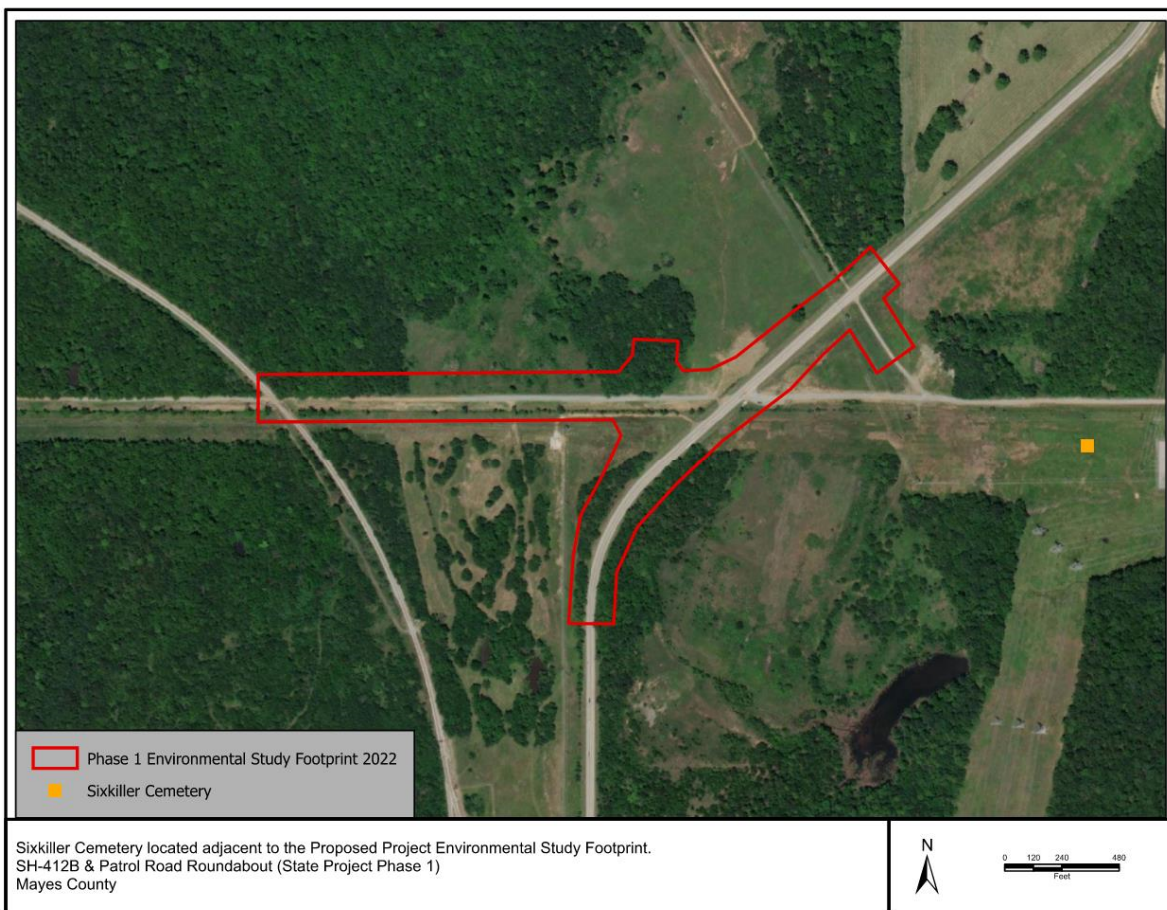
## **8 CULTURAL RESOURCES REVIEW**

ODOT Cultural Resources Program performed a cultural resource reconnaissance study and report. The full cultural resource reconnaissance report is included in Appendix D. This report documents a cultural resources file review, conducted by staff from ODOT's Cultural Resources Program (CRP) and has been compiled to assist the County and any potential Federal Agency in planning the proposed project. At the time of the reconnaissance request, the project was not being funded or approved by FHWA. CRP has reviewed the project as part of the oversight provided by ODOT in its contract administration of projects let through ODOT's letting process. Any opinions expressed herein are meant to assist the County and Federal Agency, but do not represent recommendations from a federal agency, SHPO, or the State Archaeologist.

No NRHP eligible or listed properties are located within the reconnaissance area. No bridges are located within the reconnaissance area. There are no previously recorded archaeological

sites mapped within the reconnaissance area, however three previously recorded archaeological sites (34MY164, 34MY350, and 34MY351) are mapped within reconnaissance area's one-mile vicinity.

One cemetery (Sixkiller Cemetery) is located adjacent to the reconnaissance area, approximately 870 feet east of the reconnaissance area along County Road EW-0555 (see Figure 2). The Sixkiller Cemetery is neither maintained nor does it have clear boundaries).



**Figure 5. Sixkiller Cemetery adjacent to the SH-412B and Patrol Road Intersection Improvement Project environmental study area.**

There are no buildings currently located within the reconnaissance area. Review of the available historic maps and aerial photographs does not indicate that any known buildings have been located within the reconnaissance area. However, the scale of the early maps (particularly the GLO maps) precludes precisely determining if buildings were located within the reconnaissance area. If the proposed project were to become federalized in any way, the lead Federal agency may require documentation assessing the potential for archaeological materials through a cultural resources survey.

The soils mapped on the NRCS soil survey—particularly the Collinsville loam—dominates the reconnaissance area and generally represents settings with low potential for containing buried surfaces and buried archaeological materials.

## **9 SCENIC RIVERS**

The project is not located on or near any Scenic Rivers. Therefore, coordination with the Scenic Rivers Commission should not be required.

## **10 CONSTRUCTION STORMWATER ISSUES**

One (1) acre or more of total ground disturbance is anticipated by the construction of this project. Therefore, an OKR10 Construction Stormwater Permit is required to be submitted to the Oklahoma Department of Environmental Quality (ODEQ). The OKR10 Notice of Intent will be completed and submitted by the awarded construction contractor at least 30 days prior to construction. The proposed construction site is located within a Federal or State identified ARC. Projects that discharge to an ARC, must implement inspections, corrective actions, and stabilization requirements, including the following measures:

- Sediment, solid waste, and human waste must be retained on site to the greatest extent practicable; all control measures must be properly installed and maintained at all times; and off-site accumulations of any escaped sediment must be removed.
- Inspections must be completed within 7 calendar days after the temporarily or permanent cessation of earth-disturbing activities. and within 24 hours of a storm event of 0.5 inches or greater.
- Hazardous construction materials and waste must be stored in a manner that minimizes their contact with stormwater.

## **11 GENERAL AVIATION AIRPORTS**

The Mid-America Industrial Airport is within 4 miles of the proposed project location. An FAA Permit may be required.

## **12 SECTION 10 NAVIGABLE WATERS**

There are no Section 10 navigable waters within the project area. Therefore, a Section 10 permit should not be required.

## **13 SECTION 9 NAVIGABLE WATERS**

There are no Section 9 navigable waters within the project area. Therefore, a Section 10 Coast Guard Permit should not be required.

**APPENDIX A**  
**WT-2021-00451, AJD**



DEPARTMENT OF THE ARMY  
CORPS OF ENGINEERS, TULSA DISTRICT  
2488 EAST 81<sup>ST</sup> STREET  
TULSA, OKLAHOMA 74137-4290

April 20, 2022

Regulatory Office

Mr. Jason Stutzman  
MidAmerica Industrial Park  
4075 Sanders Mitchell St.  
Pryor, OK 74361

Dear Mr. Stutzman:

This is in reference to your letter dated August 31, 2021, requesting a jurisdictional determination (JD) on property located at Latitude: 36.220746, Longitude: -95.322802, Mayes County, Oklahoma. The area marked in red on the enclosed map denotes the limits of the properties examined under this request. We have reviewed the submitted data relative to Section 404 of the Clean Water Act (CWA).

Due to the vacatur and remanding of the Navigable Water Protection Rule by the U.S. District Court for the District of Arizona on August 30, 2021, the Corps was directed on September 2, 2021, by the Acting Assistant Secretary of the Army for Civil Works to resume conducting AJDs nationwide, consistent with the pre-2015 waters of the U.S. (WOTUS) regulatory regime. The pre-2015 WOTUS regulatory regime is the 1986 WOTUS, as informed by the 2003 SWANCC and 2008 Rapanos Guidance documents. The Environmental Protection Agency has posted additional information on their webpage at: <https://www.epa.gov/wotus/current-implementation-waters-united-states>. Consequently, this AJD was evaluated using the pre-2015 WOTUS regulatory regime and guidance documents for the presence or absence of "waters of the United States" on the identified parcels of land. In accordance with 33 CFR 331.2, under the existing Corps' policy, AJDs are generally valid for five years unless new information warrants revision prior to the expiration date.

We have examined the property and concluded that the referenced property contains 14 streams (shown in light blue on the enclosed map), one pond (shown in blue on the enclosed map), and three wetlands (shown in green on the enclosed map), which have been determined to be jurisdictional pursuant to Section 404 of the Clean Water Act and one pond, three erosional features, 18 ditches, and three wetlands (shown in yellow on the enclosed map), which has been determined not to be jurisdictional pursuant to Section 404 of the Clean Water Act.

The basis for this determination is documented on the enclosed approved jurisdictional determination form.

We believe this determination to be an accurate assessment of the presence of jurisdictional wetlands and other waters on the site which are subject to Section 404. This is a final determination of federal jurisdiction on the property pursuant to Section 404. This determination is valid for 5 years from the date of this letter unless new information warrants revision of the determination before the expiration date.

This delineation or determination has been conducted to identify the limits of the Corps CWA jurisdiction for the particular site(s) identified in this request. This delineation or determination may not be valid for the wetland conservation provisions of the Food Security Act of 1985, as amended. If you or your tenant are USDA program participants, or anticipate participation in USDA programs, you should request a certified wetland determination from the local office of the Natural Resources Conservation Service prior to starting work.

This final determination constitutes an approved JD subject to the optional Corps Administrative Appeal Process. If you object to this determination, you may request an administrative appeal under Corps regulations at 33 CFR Part 331. Enclosed is a copy of the Notification of Administrative Appeal Options and Process (NAP) and Request for Appeal (RFA) form. If you request to appeal this determination you must submit a completed RFA form to the Southwestern Division Office at the following address:

Mr. Jamie Hyslop  
Administrative Appeals Review Officer  
Southwestern Division (CESWD-PD-O)  
U.S. Army Corps of Engineers  
1100 Commerce Street, Suite 831  
Dallas, Texas 75242-1317  
Phone: 469-216-8324  
Email: [jamie.r.hyslop@usace.army.mil](mailto:jamie.r.hyslop@usace.army.mil)

In order for a RFA form to be accepted by the Corps, the Corps must determine that it is complete, that it meets the criteria for appeal under 33 CFR Part 331.5, and that it has been received by the Division Office within 60 days of the date of the NAP. Should you decide to submit a RFA form, it must be received at the above address by June 20, 2022. It is not necessary to submit a RFA form to the Division Office if you do not object to the determination in this letter.



Your project has been assigned Identification Number SWT-2021-00451. Please refer to this number during future correspondence. If further assistance is required, contact Ms. Eva Zaki-Dellitt at 918-669-7009.

Sincerely,

*Ed Parisotto*

*For* Andrew R. Commer  
Chief, Regulatory Office

Enclosures

## NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND REQUEST FOR APPEAL

Applicant: Mr. Jason Stutzman, MidAmerica Industrial Park		File Number: SWT-2021-00451	Date: 20 APR 2022
Attached is:			See Section below
	INITIAL PROFFERED PERMIT (Standard Permit or Letter of permission)	A	
	PROFFERED PERMIT (Standard Permit or Letter of permission)	B	
	PERMIT DENIAL	C	
X	APPROVED JURISDICTIONAL DETERMINATION	D	
	PRELIMINARY JURISDICTIONAL DETERMINATION	E	

**SECTION I -** The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at <http://www.usace.army.mil/Missions/CivilWorks/RegulatoryProgramandPermits/appeals.aspx> or Corps regulations at 33 CFR Part 331.

**A: INITIAL PROFFERED PERMIT:** You may accept or object to the permit.

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- **OBJECT:** If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.

**B: PROFFERED PERMIT:** You may accept or appeal the permit

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- **APPEAL:** If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

**C: PERMIT DENIAL:** You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

**D: APPROVED JURISDICTIONAL DETERMINATION:** You may accept or appeal the approved JD or provide new information.

- **ACCEPT:** You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice, means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.
- **APPEAL:** If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

**E: PRELIMINARY JURISDICTIONAL DETERMINATION:** You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.

**SECTION II - REQUEST FOR APPEAL or OBJECTIONS TO AN INITIAL PROFFERED PERMIT**

**REASONS FOR APPEAL OR OBJECTIONS:** (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

**ADDITIONAL INFORMATION:** The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the record. However, you may provide additional information to clarify the location of information that is already in the administrative record.

**POINT OF CONTACT FOR QUESTIONS OR INFORMATION:**

If you have questions regarding this decision and/or the appeal process you may contact:  
Ms. Eva Zaki-Dellitt  
2488 East 81st Street  
Tulsa, OK 74137-4290  
Telephone 918-669-7009

If you only have questions regarding the appeal process you may also contact:  
Mr. Jamie Hyslop  
Southwestern Division (CESWD-PD-O)  
U.S. Army Corps of Engineers  
1100 Commerce Street, Suite 831  
Dallas, Texas 75242-1317  
469-487-7037

**RIGHT OF ENTRY:** Your signature below grants the right of entry to Corps of Engineers personnel, and any government consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a 15 day notice of any site investigation, and will have the opportunity to participate in all site investigations.

\_\_\_\_\_  
Signature of appellant or agent.

Date:

Telephone number:

**APPROVED JURISDICTIONAL DETERMINATION FORM**  
**U.S. Army Corps of Engineers**

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

**SECTION I: BACKGROUND INFORMATION**

**A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): 20 APR 2022**

**B. DISTRICT OFFICE, FILE NAME, AND NUMBER: SWT-2021-00451**

**C. PROJECT LOCATION AND BACKGROUND INFORMATION:**

State: Oklahoma County/parish/borough: Mayes City: Pryor  
Center coordinates of site (lat/long in degree decimal format): Lat. 36.215123° **N**, Long. -95.2299596° **W**. Universal  
Transverse Mercator:  
Name of nearest waterbody: Choteau Creek

Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Neosho River Name of watershed or Hydrologic Unit Code (HUC): 11070209, Lower Neosho, Arkansas, Oklahoma

- Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.  
 Check if other sites (e.g., offsite mitigation sites, disposal sites, etc...) are associated with this action and are recorded on a different JD form.

**D. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):**

- Office (Desk) Determination. Date: 20 APR 2022  
 Field Determination. Date(s):

**SECTION II: SUMMARY OF FINDINGS**

**A. RHA SECTION 10 DETERMINATION OF JURISDICTION.**

There **Are no** "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [Required]

- Waters subject to the ebb and flow of the tide.  
 Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.  
Explain: .

**B. CWA SECTION 404 DETERMINATION OF JURISDICTION.**

There **Are** "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required]

**1. Waters of the U.S.**

**a. Indicate presence of waters of U.S. in review area (check all that apply):<sup>1</sup>**

- TNWs, including territorial seas  
 Wetlands adjacent to TNWs  
 Relatively permanent waters<sup>2</sup> (RPWs) that flow directly or indirectly into TNWs  
 Non-RPWs that flow directly or indirectly into TNWs  
 Wetlands directly abutting RPWs that flow directly or indirectly into TNWs  
 Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs  
 Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs  
 Impoundments of jurisdictional waters  
 Isolated (interstate or intrastate) waters, including isolated wetlands

**b. Identify (estimate) size of waters of the U.S. in the review area:**

Non-wetland waters: SEE ATTACHED SPREADSHEET  
linear feet: width (ft) and/or acres.  
Wetlands: SEE ATTACHED SPREADSHEET acres.

**c. Limits (boundaries) of jurisdiction based on: Established by OHWM.**

Elevation of established OHWM (if known): .

**2. Non-regulated waters/wetlands (check if applicable):<sup>3</sup>**

- Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional.  
Explain: **S1, S2, S3, S8, S11, S12, S13, S16, S18, S19, S20, S21, S22, S25, S26, S27, S28, S35 and S36 are not mapped on USGS topographic map. Based on the delineation and historic aerial and topographic maps, the flow paths are linear in shape and were not created in WOTUS. Therefore, have been determined to be ditches excavated in the uplands and**

<sup>1</sup> Boxes checked below shall be supported by completing the appropriate sections in Section III below.

<sup>2</sup> For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

<sup>3</sup> Supporting documentation is presented in Section III.F.

not regulated pursuant to Section 404 of the Clean Water Act. S5, S6, and S31 are not mapped on topographic map. Based on the delineation, historic aeriels, and topographic maps, the flow paths are not well-defined channels. While the features do provide flow to downstream waters, the features do not contain indications of an OHWM or bed and banks. Therefore, S5, S6, and S31 have been determined to be erosional features and are not jurisdictional pursuant to Section 404 of the Clean Water Act. Based on observation as noted in the delineation report, W1, W4, and W6 exhibited all three parameters of a wetland, but did not have indirect or direct connectivity to downstream waters. Therefore, W1, W4, and W6 has been determined to be an isolated wetland, not jurisdictional or regulated by Section 404 of the Clean Water Act. P-2 is mapped on USGS topographic map. Based on the delineation, aerial photographs, and topographic maps, P2 is part of ponds excavated in the uplands with no connectivity to downstream waters.

### SECTION III: CWA ANALYSIS

#### A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

1. **TNW**

Identify TNW: **Neosho River**.

Summarize rationale supporting determination: AJD was completed determining that the Neosho River is a traditionally navigable water.

2. **Wetland adjacent to TNW**

Summarize rationale supporting conclusion that wetland is “adjacent”:

#### B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under *Rapanos* have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are “relatively permanent waters” (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody<sup>4</sup> is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

1. **Characteristics of non-TNWs that flow directly or indirectly into TNW**

(i) **General Area Conditions:**

Watershed size: 426 **acres**  
Drainage area: 426 **acres**  
Average annual rainfall: 45 inches  
Average annual snowfall: 10 inches

(ii) **Physical Characteristics:**

(a) **Relationship with TNW:**

- Tributary flows directly into TNW.  
 Tributary flows through **3** tributaries before entering TNW.

Project waters are **2-5** river miles from TNW.

Project waters are **2-5** river miles from RPW.

Project waters are **2-5** aerial (straight) miles from TNW.

Project waters are **2-5** aerial (straight) miles from RPW.

Project waters cross or serve as state boundaries. Explain: The on-site waters do not cross or serve as a state boundary.

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<sup>4</sup> Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

Identify flow route to TNW<sup>5</sup>: S7, S14, S15, S17, S24, S30, S32, S33, S34 (RPWs), S4, S9, S23, S29 (Non-RPWs), W2, W3, and W5 (Adjacent Wetlands), and P1 (impoundment) flow into unnamed tributaries, which flow into Choteau Creek and Pryor Creek, which flow into the Neosho River, a TNW.

Tributary stream order, if known: .

(b) General Tributary Characteristics (check all that apply):

**Tributary is:**  Natural  
 Artificial (man-made). Explain: .  
 Manipulated (man-altered). Explain: On-site waters have been heavily manipulated and straightened due to the construction of several roads and industrial development.

**Tributary properties with respect to top of bank (estimate):**

Average width: 2 feet  
Average depth: 1 feet  
Average side slopes: **2:1**.

Primary tributary substrate composition (check all that apply):

Silts  Sands  Concrete  
 Cobbles  Gravel  Muck  
 Bedrock  Vegetation. Type/% cover:  
 Other. Explain: .

Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: Although the on-site waters have been altered and manipulated, the on-site waters are currently in stable condition as indicated by the well-developed riparian corridors and/or bed and banks, which are staying in the same position within the landscape.

Presence of run/riffle/pool complexes. Explain: On-site waters contained riffle pool complexes.

Tributary geometry: **Meandering**

Tributary gradient (approximate average slope): 2 %

(c) Flow:

Tributary provides for: **Seasonal flow**

Estimate average number of flow events in review area/year: **2-5**

Describe flow regime: S7, S14, S15, S17, S24, S30, S32, S33, and S34 are mapped on USGS topographic map as an intermittent streams and on aerial photographs showing evidence of seasonal flow (March of 2017, 2016, 2012, 1995, September 2021, and October 2021). S4, S9, S23, and S29 are indicated on USGS topographic map with contour lines, indicating a channel and on aerial photographs showing evidence of seasonal flow (March 2012 and 2016).

Other information on duration and volume: .

Surface flow is: **Confined**. Characteristics: S7, S14, S15, S17, S24, S30, S32, S33, S34, S4, S9, S23, and S29 contain well defined bed and banks and are evident on topographic maps and aerial photographs.

Subsurface flow: **Unknown**. Explain findings: .

Dye (or other) test performed: .

Tributary has (check all that apply):

Bed and banks  
 OHWM<sup>6</sup> (check all indicators that apply):  
 clear, natural line impressed on the bank  the presence of litter and debris  
 changes in the character of soil  destruction of terrestrial vegetation  
 shelving  the presence of wrack line  
 vegetation matted down, bent, or absent  sediment sorting  
 leaf litter disturbed or washed away  scour  
 sediment deposition  multiple observed or predicted flow events  
 water staining  abrupt change in plant community  
 other (list):  
 Discontinuous OHWM.<sup>7</sup> Explain: .

If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply):

High Tide Line indicated by:  Mean High Water Mark indicated by:  
 oil or scum line along shore objects  survey to available datum;

<sup>5</sup> Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

<sup>6</sup> A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.

<sup>7</sup>Ibid.

- fine shell or debris deposits (foreshore)
- physical markings/characteristics
- tidal gauges
- other (list):
- physical markings;
- vegetation lines/changes in vegetation types.

**(iii) Chemical Characteristics:**

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).

Explain: S7, S14, S15, S17, S24, S30, S32, S33, S34, S4, S9, S23, and S29 do not contain any evidence of pollution.

Identify specific pollutants, if known: .



(iv) **Biological Characteristics. Channel supports (check all that apply):**

- Riparian corridor. Characteristics (type, average width): Forested riparian, 50 ft.
- Wetland fringe. Characteristics:
- Habitat for:
  - Federally Listed species. Explain findings:
  - Fish/spawn areas. Explain findings:
  - Other environmentally-sensitive species. Explain findings:
  - Aquatic/wildlife diversity. Explain findings: S7, S14, S15, S17, S24, S30, S32, S33, S34, S4, S9, S23, and S29

contain well defined bed and bank with evidence of OHWM. S7, S14, S15, S17, S24, S30, S32, S33, S34, S4, S9, S23, and S29 are either surrounded by well developed forested riparian corridors and/or directly abutting wetlands, which provide diverse habitats for a variety of species.

2. **Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW**

(i) **Physical Characteristics:**

(a) General Wetland Characteristics:

Properties:

Wetland size:SEE ATTACHED SPREADSHEET

acres

Wetland type. Explain:SEE ATTACHED SPREADSHEET.

Wetland quality. Explain:W2, W3, and W5 directly abut RPWs, and appear to be in stable condition. Therefore, W2, W3, W5 have been determined to of medium quality.

Project wetlands cross or serve as state boundaries. Explain: None of the on-site wetlands cross or serve as state boundaries.

(b) General Flow Relationship with Non-TNW:

Flow is: **Intermittent flow**. Explain: W2, W3, and W5 directly abut RPWs, which are mapped on USGS topographic map as intermittent streams.

Surface flow is: **Confined**

Characteristics: W2, W3, and W5 directly abut RPWs.

Subsurface flow: **Unknown**. Explain findings:

Dye (or other) test performed:

(c) Wetland Adjacency Determination with Non-TNW:

Directly abutting

Not directly abutting

Discrete wetland hydrologic connection. Explain:

Ecological connection. Explain:

Separated by berm/barrier. Explain:

(d) Proximity (Relationship) to TNW

Project wetlands are **2-5** river miles from TNW.

Project waters are **2-5** aerial (straight) miles from TNW.

Flow is from: **Wetland to navigable waters**.

Estimate approximate location of wetland as within the **50 - 100-year** floodplain.

(ii) **Chemical Characteristics:**

Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: W2, W3, and W5 did not contain any evidence of pollution.

Identify specific pollutants, if known:

(iii) **Biological Characteristics. Wetland supports (check all that apply):**

Riparian buffer. Characteristics (type, average width):50 ft.

Vegetation type/percent cover. Explain:

Habitat for:

Federally Listed species. Explain findings:

Fish/spawn areas. Explain findings:

Other environmentally-sensitive species. Explain findings:

Aquatic/wildlife diversity. Explain findings: W2, W3, and W5 directly abut RPWs, which provide diverse habitats

for a variety of species.

3. **Characteristics of all wetlands adjacent to the tributary (if any)**

All wetland(s) being considered in the cumulative analysis: **3**

Approximately ( 0.676 ) acres in total are being considered in the cumulative analysis.

For each wetland, specify the following:

<u>Directly abuts? (Y/N)</u>		<u>Size (in acres)</u>	<u>Directly abuts? (Y/N)</u>		<u>Size (in acres)</u>
W2	Y	0.165			
W3	Y	0.09			
W4	Y	0.421			

Summarize overall biological, chemical and physical functions being performed: Each of these wetlands act as a small catchment area for sediments carried via storm water toward the abutting tributary. Sediments and attached nutrients, pollutants, and/or other elements become deposited and captured within the wetland, as opposed to flowing directly to the tributary in question and ultimately to the Neosho River, a TNW. Due to the wetland's location (directly abutting tributary systems), the hydrologic conditions, and the diverse vegetation present, the wetlands will host a diverse group of organisms. .

### C. SIGNIFICANT NEXUS DETERMINATION

**A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.**

**Draw connections between the features documented and the effects on the TNW, as identified in the *Rapanos* Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:**

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

**Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:**

1. **Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D: These RPWs and non-RPWs possess a hydrologic connection to the Neosho River through open and defined channels. Due to this hydrologic connection, the unnamed tributaries have the capacity to contribute hydrology, carry pollutants, provide habitat for aquatic life cycles, and provide food in the form of organic matter to waters downstream, all of which illustrates that the unnamed non- RPWs possess a significant nexus to Neosho River. All jurisdictional wetlands directly abut the RPWs..
2. **Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:
3. **Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:

### D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY):

1. **TNWs and Adjacent Wetlands.** Check all that apply and provide size estimates in review area:
  - TNWs: linear feet width (ft), Or, acres.
  - Wetlands adjacent to TNWs: acres.
2. **RPWs that flow directly or indirectly into TNWs.**

- Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial: .
- Tributaries of TNW where tributaries have continuous flow “seasonally” (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally: S7, S14, S15, S17, S24, S30, S32, S33, and S34 are mapped on USGS topographic map as an intermittent streams and on aerial photographs showing evidence of seasonal flow (March of 2017, 2016, 2012, 1995, September 2021, and October 2021). S4, S9, S23, and S29 are indicated on USGS topographic map with contour lines, indicating a channel and on aerial photographs showing evidence of seasonal flow (March 2012 and 2016). SEE ATTACHED SPREADSHEET.

Provide estimates for jurisdictional waters in the review area (check all that apply):

- Tributary waters: **3,549** linear feet **3** width (ft).
  - Other non-wetland waters:        acres.
- Identify type(s) of waters: .

**3. Non-RPWs<sup>8</sup> that flow directly or indirectly into TNWs.**

- Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional waters within the review area (check all that apply):

- Tributary waters: **4,397** linear feet **3** width (ft).
- Other non-wetland waters: **0.059** acres.

Identify type(s) of waters: **P1 is an impoundment of S29, a Non-RPW with direct downstream connectivity to the TNW.**

**4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.**

- Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.
  - Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: .
  - Wetlands directly abutting an RPW where tributaries typically flow “seasonally.” Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: W2, W3, and W5 are located directly adjacent (and touching) RPWs. Therefore, W2, W3, and W5 have been determined to directly abut RPWs.

Provide acreage estimates for jurisdictional wetlands in the review area: **0.676** acres.

**5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.**

- Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide acreage estimates for jurisdictional wetlands in the review area:        acres.

**6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

- Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional wetlands in the review area:        acres.

**7. Impoundments of jurisdictional waters.<sup>9</sup>**

As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.

- Demonstrate that impoundment was created from “waters of the U.S.,” or
- Demonstrate that water meets the criteria for one of the categories presented above (1-6), or
- Demonstrate that water is isolated with a nexus to commerce (see E below).

<sup>8</sup>See Footnote # 3.

<sup>9</sup> To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

**E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK ALL THAT APPLY):<sup>10</sup>**

- which are or could be used by interstate or foreign travelers for recreational or other purposes.
- from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.
- which are or could be used for industrial purposes by industries in interstate commerce.
- Interstate isolated waters. Explain: .
- Other factors. Explain: .

**Identify water body and summarize rationale supporting determination:** .

Provide estimates for jurisdictional waters in the review area (check all that apply):

- Tributary waters: linear feet width (ft).
- Other non-wetland waters: acres.  
Identify type(s) of waters: .
- Wetlands: acres.

**F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):**

- If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.
- Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.
  - Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR).
- Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain: .
- Other: (explain, if not covered above): **S1, S2, S3, S8, S11, S12, S13, S16, S18, S19, S20, S21, S22, S25, S26, S27, S28, S35 and S36 are not mapped on USGS topographic map. Based on the delineation and historic aerial and topographic maps, the flow paths are linear in shape and were not created in WOTUS. Therefore, have been determined to be ditches excavated in the uplands and not regulated pursuant to Section 404 of the Clean Water Act. S5, S6, and S31 are not mapped on topographic map. Based on the delineation, historic aeriels, and topographic maps, the flow paths are not well-defined channels. While the features do provide flow to downstream waters, the features do not contain indications of an OHWM or bed and banks. Therefore, S5, S6, and S31 have been determined to be erosional features and are not jurisdictional pursuant to Section 404 of the Clean Water Act. Based on observation as noted in the delineation report, W1, W4, and W6 exhibited all three parameters of a wetland, but did not have indirect or direct connectivity to downstream waters. Therefore, W1, W4, and W6 has been determined to be an isolated wetland, not jurisdictional or regulated by Section 404 of the Clean Water Act. P-2 is mapped on USGS topographic map. Based on the delineation, aerial photographs, and topographic maps, P2 is part of ponds excavated in the uplands with no connectivity to downstream waters.**

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply):

- Non-wetland waters (i.e., rivers, streams): linear feet width (ft).
- Lakes/ponds: acres.
- Other non-wetland waters: acres. List type of aquatic resource: .
- Wetlands: acres.

Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply):

- Non-wetland waters (i.e., rivers, streams): **SEE ATTACHED SPREADSHEET** linear feet, width (ft).
- Lakes/ponds: acres.
- Other non-wetland waters: acres. List type of aquatic resource: .
- Wetlands: acres.

**SECTION IV: DATA SOURCES.**

**A. SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked and requested, appropriately reference sources below):**

- Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: "Approved Jurisdictional Determination Requet Report, 263 acre Proposed Project Area, Mayes County, Oklahoma" dated July 21, 2021.
- Data sheets prepared/submitted by or on behalf of the applicant/consultant.

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<sup>10</sup> Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

- Office concurs with data sheets/delineation report.
- Office does not concur with data sheets/delineation report.
- Data sheets prepared by the Corps: .
- Corps navigable waters' study: .
- U.S. Geological Survey Hydrologic Atlas: .
  - USGS NHD data.
  - USGS 8 and 12 digit HUC maps.
- U.S. Geological Survey map(s). Cite scale & quad name: USGS Topographic Map, 7.5 minute Quad, 1:24,000, Chouteau, Ok.
- USDA Natural Resources Conservation Service Soil Survey. Citation: .
- National wetlands inventory map(s). Cite name: <https://www.fws.gov/wetlands/data/mapper.html>.
- State/Local wetland inventory map(s): .
- FEMA/FIRM maps: .
- 100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)
- Photographs:  Aerial (Name & Date): Google Earth and Digital Globe (2012, 2016, 2017, 2016, 2012, 1995, 2021, 2021).
  - or  Other (Name & Date): .
- Previous determination(s). File no. and date of response letter: .
- Applicable/supporting case law: .
- Applicable/supporting scientific literature: .
- Other information (please specify): .

**B. ADDITIONAL COMMENTS TO SUPPORT JD:** S7, S14, S15, S17, S24, S30, S32, S33, and S34 are mapped intermittent streams on a topographic map. Based on the submitted delineation report, USGS topographic map, and aerial photography, the flow paths are natural, well-defined channels with connectivity to the downstream waters, indirectly to the Arkansas River, a TNW. Therefore, S7, S14, S15, S17, S24, S30, S32, S33, and S34 have been determined to be RPWs, jurisdictional pursuant to Section 404 of the Clean Water Act.

S4, S9, S23, and S29 are mapped on a topographic map as headwaters of mapped intermittent streams. Based on the submitted delineation report, USGS topographic map, and aerial photography, the flow paths are natural, well-defined channels with connectivity to the downstream waters, indirectly to the Arkansas River, a TNW. Therefore, S4, S9, S23, and S29 have been determined to be non-RPWs, jurisdictional pursuant to Section 404 of the Clean Water Act.

Based on observation noted in the delineation report, W2, W3, and W5 exhibited all three parameters of a wetland and to directly abut RPWs, which were indirectly connected to downstream waters and the Arkansas River, a TNW. Therefore, W2, W3, and W5 have been determined to be adjacent wetlands, jurisdictional pursuant to Section 404 of the Clean Water Act.

P1 is not mapped on USGS topographic map. Based on the delineation, aerial photographs, and topographic maps, P1 contains water and is connected to downstream waters through an ephemeral stream, which flows onto the adjacent property. Therefore, P1 has been determined to be a impoundment of a jurisdictional water and jurisdictional pursuant to Section 404 of the Clean Water Act

S1, S2, S3, S8, S11, S12, S13, S16, S18, S19, S20, S21, S22, S25, S26, S27, S28, S35 and S36 are not mapped on USGS topographic map. Based on the delineation and historic aerial and topographic maps, the flow paths are linear in shape and were not created in WOTUS. Therefore, have been determined to be ditches excavated in the uplands and not regulated pursuant to Section 404 of the Clean Water Act.

S5, S6, and S31 are not mapped on topographic map. Based on the delineation, historic aeriels, and topographic maps, the flow paths are not well-defined channels. While the features do provide flow to downstream waters, the features do not contain indications of an OHWM or bed and banks. Therefore, S5, S6, and S31 have been determined to be erosional features and are not jurisdictional pursuant to Section 404 of the Clean Water Act.

Based on observation as noted in the delineation report, W1, W4, and W6 exhibited all three parameters of a wetland, but did not have indirect or direct connectivity to downstream waters. Therefore, W1, W4, and W6 has been determined to be an isolated wetland, not jurisdictional or regulated by Section 404 of the Clean Water Act.

P2 is mapped on USGS topographic map. Based on the delineation, aerial photographs, and topographic maps, P2 is part of ponds excavated in the uplands with no connectivity to downstream waters. Therefore, P2 have been determined to be a pond excavated wholly in the uplands and not jurisdictional pursuant to Section 404 of the Clean Water Act.

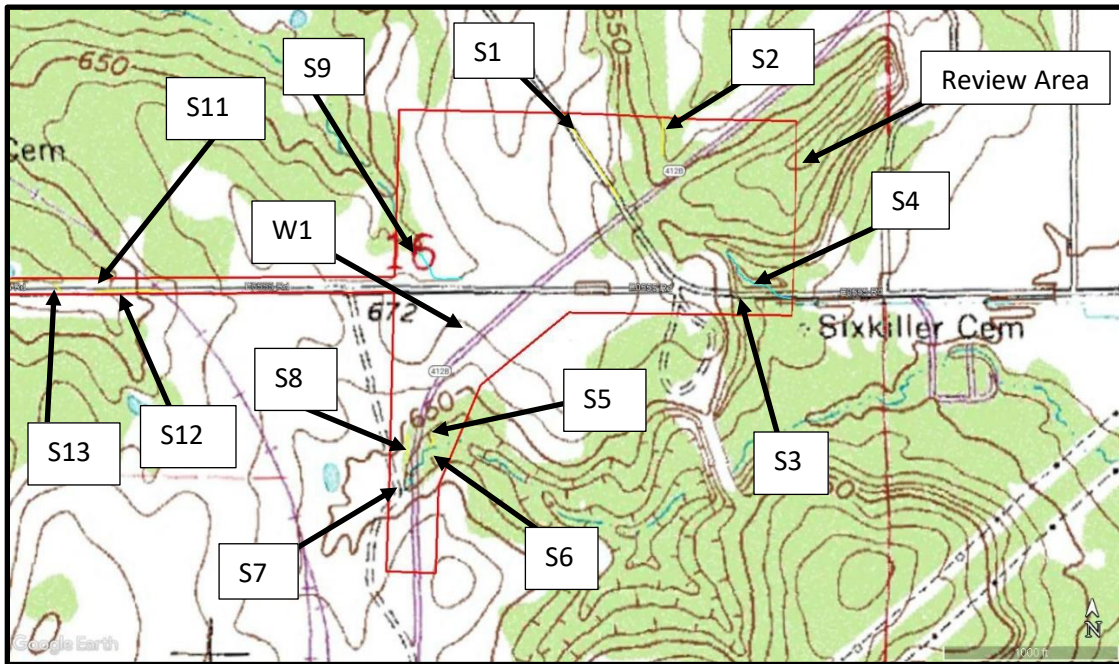
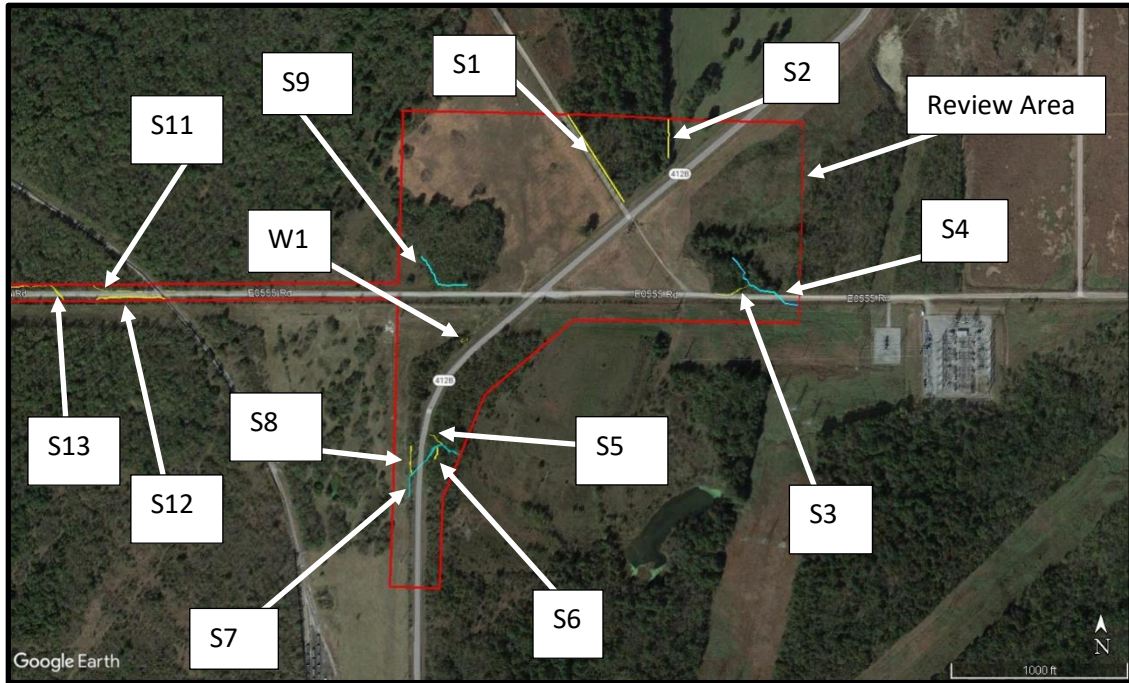
Jurisdictional Aquatic Resources

Delimited Name	Name	Type	length (ft.)	Average width (ft.)	Average depth (ft.)	acres	Flow
OW2	P1	Impoundment				0.059	
UMMDD2	S04	Non-RPW	217	1	0.5		After rain events
ES4	S07	RPW	528	4	0.5		Seasonal
ES12, FW1	S09	Non-RPW	145	2	0.5		After rain events
ES11	S14	RPW	13	2	0.5		Seasonal
IS1	S15	RPW	116	2	0.5		Seasonal
ES9	S16	Non-RPW	137				
ES1	S17	RPW	152	2	0.5		Seasonal
ES7	S23	Non-RPW	445	1	0.5		After rain events
ES6, EW8, ES8	S24	RPW	1424	2	0.5		Seasonal
EW14	S29	Non-RPW	258	1	0.5		After rain events
SSW1	S30	RPW	43	2	0.5		Seasonal
PS2	S32	RPW	545	5	0.5		Seasonal
EW3, PS2, EW2	S33	RPW	545	5	0.5		Seasonal
PS1 and EW1	S34	RPW	183	5	0.5		Seasonal
EW10	W2	Emergent/ medium				0.165	
FW4	W3	Forested/ medium				0.09	
EW4, EW5, EW6	W5	Emergent/ medium				0.421	

Non-Jurisdictional Aquatic Resources

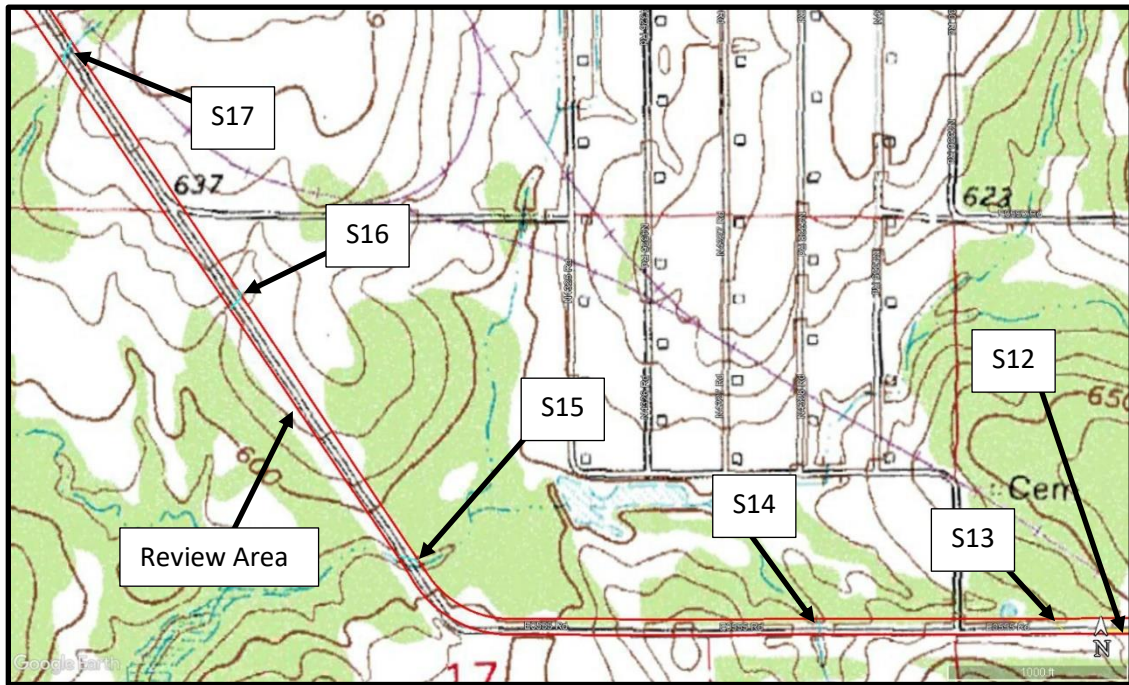
Delineated Name	Name	Type	length	acres
OW1	P2	Pond		0.03
UMMDD15	S1	Ditch	574	
UMMDD16	S2	Ditch	214	
ES13	S3	Ditch	531	
ES3	S5	Erosional	99	
FW3	S6	Erosional	70	
UMMDD17	S8	Ditch	158	
UMMDD4, UMMDD3	S11	Ditch	383	
UMMDD1	S12	Ditch	420	
ES2, EW15	S13	ditch	274	
ES10	S18	Ditch	196	
UMMDD12	S19	Ditch	136	
UMMDD11	S20	Ditch	91	
EW9	S21	Ditch	204	
UMMDD7, 8, 9, EW11	S22	Ditch	513	
UMMDD10	S25	Ditch	68	
UMMDD13	S26	Ditch	118	
UMMDD14	S27	Ditch	122	
ES5	S28	Ditch	213	
EW7	S31	Erosional	82	
UMMDD5	S35	Ditch	95	
UMMDD6	S36	Ditch	364	
FW2	W1	Forested		0.011
EW13	W4	Emergent		0.123
EW12	W6	Emergent		0.002

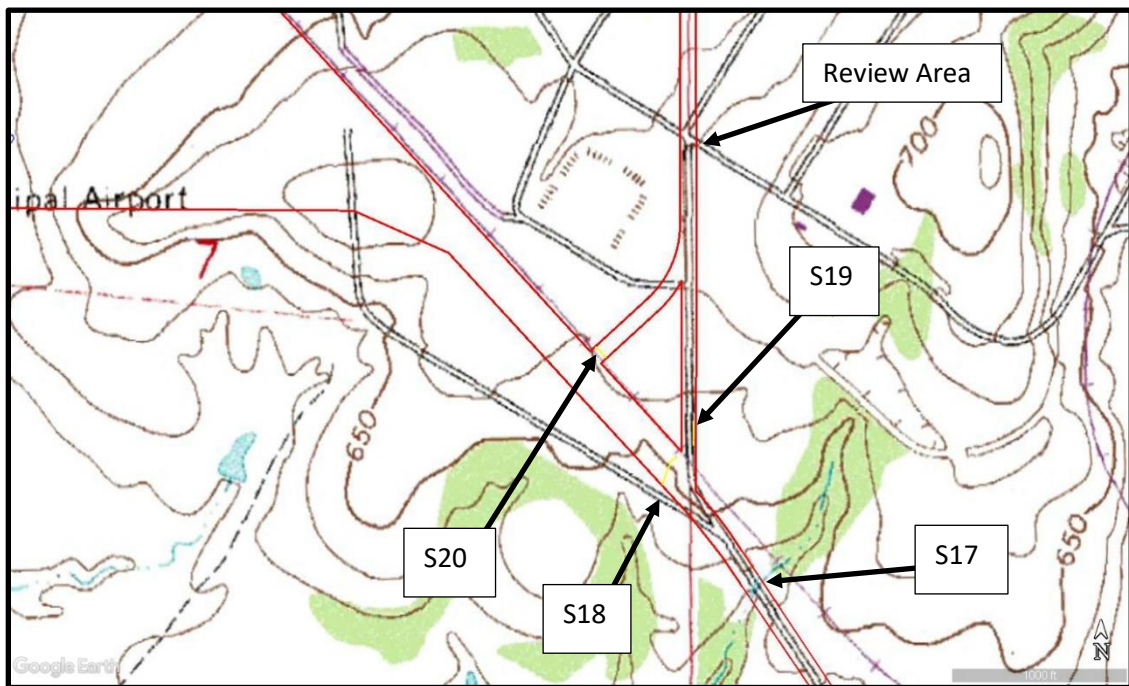
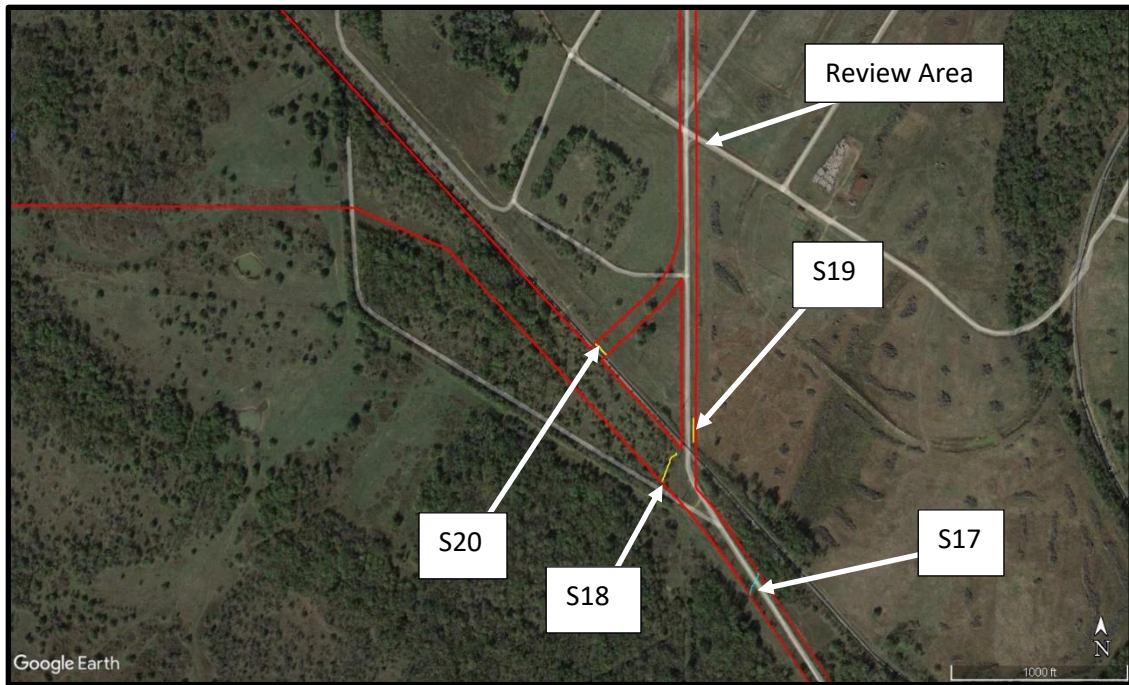
SWT-2021-00451  
Approved Jurisdictional Determination  
Chouteau, Mayes County, Oklahoma



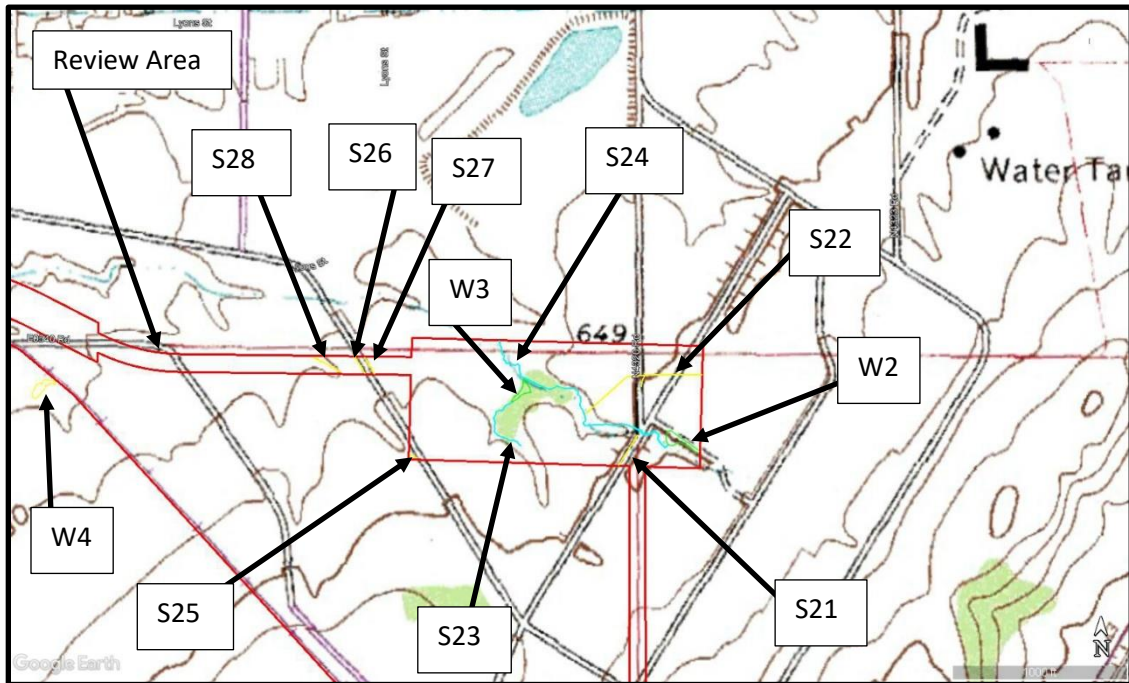
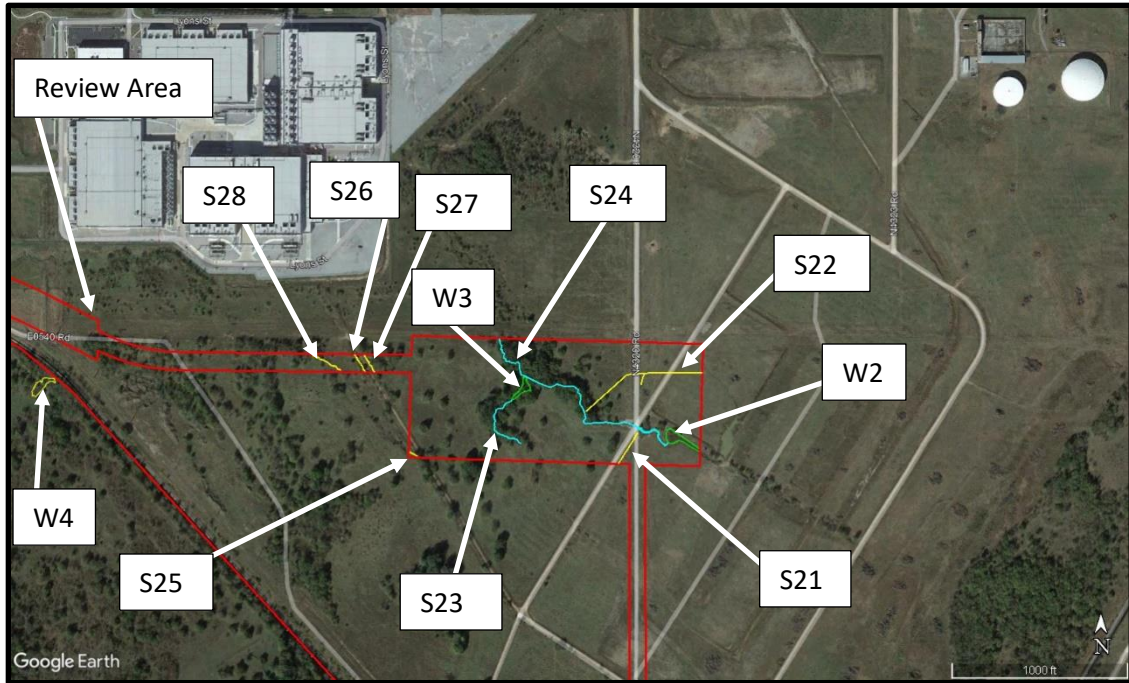


SWT-2021-00451  
Approved Jurisdictional Determination  
Chouteau, Mayes County, Oklahoma

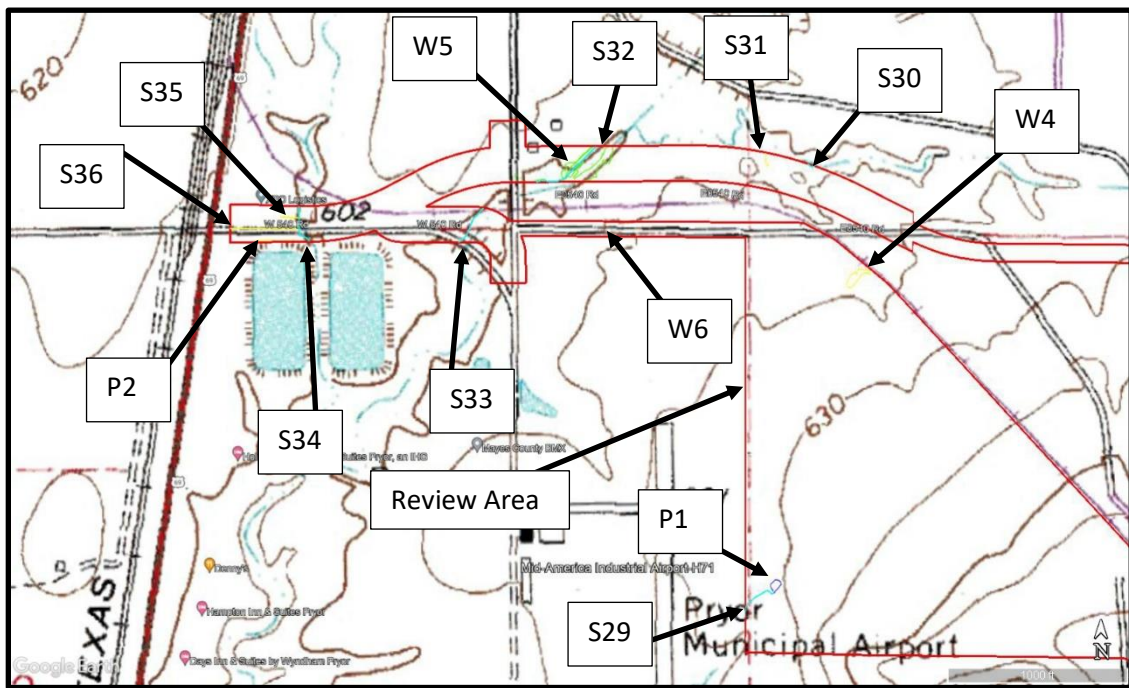
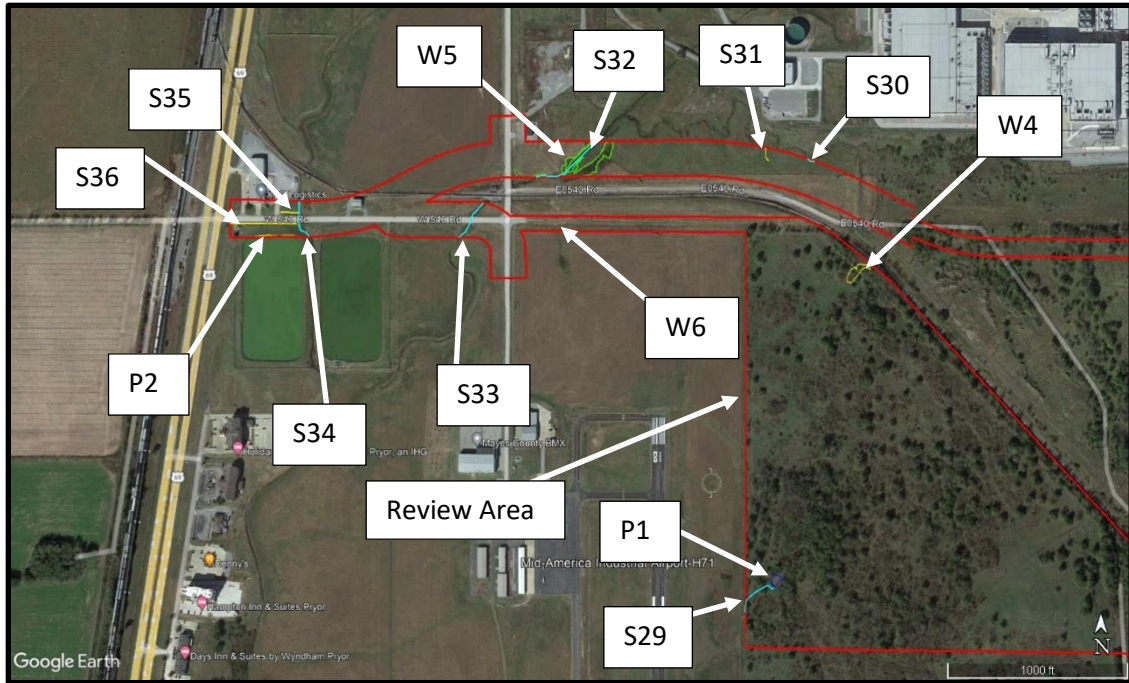




SWT-2021-00451  
Approved Jurisdictional Determination  
Chouteau, Mayes County, Oklahoma



SWT-2021-00451  
Approved Jurisdictional Determination  
Chouteau, Mayes County, Oklahoma



**APPENDIX B**  
**IPAC SPECIES REPORT**



## United States Department of the Interior



FISH AND WILDLIFE SERVICE  
Oklahoma Ecological Services Field Office  
9014 East 21st Street  
Tulsa, OK 74129-1428  
Phone: (918) 581-7458 Fax: (918) 581-7467  
<http://www.fws.gov/southwest/es/Oklahoma/>

In Reply Refer To:

January 10, 2022

Consultation Code: 02EKOK00-2022-SLI-0708

Event Code: 02EKOK00-2022-E-02604

Project Name: SH412-B and Patrol Road Intersection Improvement Roundabout

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

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

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 feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. 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 information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act 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.

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)). 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. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service 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>

Non-federal entities conducting activities that may result in take of listed species should consider seeking coverage under section 10 of the ESA, either through development of a Habitat Conservation Plan (HCP) or, by becoming a signatory to the General Conservation Plan (GCP) currently under development for the American burying beetle. Each of these mechanisms provides the means for obtaining a permit and coverage for incidental take of listed species during otherwise lawful activities.

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan ([http://www.fws.gov/windenergy/eagle\\_guidance.html](http://www.fws.gov/windenergy/eagle_guidance.html)). Additionally, wind energy projects should follow the wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at:

<http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>;

<http://www.towerkill.com>; and

[http://](http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html)

[www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html](http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html).

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit through our Project Review step-wise process <http://www.fws.gov/southwest/es/oklahoma/OKESFO%20Permit%20Home.htm>.

Attachment(s):

- Official Species List
-

- USFWS National Wildlife Refuges and Fish Hatcheries
  - Migratory Birds
  - Wetlands
-



## 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:

**Oklahoma Ecological Services Field Office**

9014 East 21st Street

Tulsa, OK 74129-1428

(918) 581-7458

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## Project Summary

Consultation Code: 02EKOK00-2022-SLI-0708

Event Code: Some(02EKOK00-2022-E-02604)

Project Name: SH412-B and Patrol Road Intersection Improvement Roundabout

Project Type: TRANSPORTATION

Project Description: Intersection Improvement for SH-412B and Patrol Road with construction of a roundabout.

Project Location:

Approximate location of the project can be viewed in Google Maps: [https://](https://www.google.com/maps/@36.213678,-95.28671995092402,14z)

[www.google.com/maps/@36.213678,-95.28671995092402,14z](https://www.google.com/maps/@36.213678,-95.28671995092402,14z)



Counties: Mayes County, Oklahoma

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## Endangered Species Act Species

There is a total of 7 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.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries<sup>1</sup>, 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 <i>Myotis grisescens</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/6329">https://ecos.fws.gov/ecp/species/6329</a>	Endangered
Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/9045">https://ecos.fws.gov/ecp/species/9045</a>	Threatened

### Birds

NAME	STATUS
Piping Plover <i>Charadrius melodus</i> Population: [Atlantic Coast and Northern Great Plains populations] - Wherever found, except those areas where listed as endangered. There is <b>final</b> critical habitat for this species. The location of the critical habitat is not available. Species profile: <a href="https://ecos.fws.gov/ecp/species/6039">https://ecos.fws.gov/ecp/species/6039</a>	Threatened
Red Knot <i>Calidris canutus rufa</i> There is <b>proposed</b> critical habitat for this species. The location of the critical habitat is not available. Species profile: <a href="https://ecos.fws.gov/ecp/species/1864">https://ecos.fws.gov/ecp/species/1864</a>	Threatened

## Fishes

NAME	STATUS
<p>Ozark Cavefish <i>Amblyopsis rosae</i></p> <p>No critical habitat has been designated for this species.</p> <p>Species profile: <a href="https://ecos.fws.gov/ecp/species/6490">https://ecos.fws.gov/ecp/species/6490</a></p>	Threatened

## Insects

NAME	STATUS
<p>American Burying Beetle <i>Nicrophorus americanus</i></p> <p>Population: Wherever found, except where listed as an experimental population</p> <p>No critical habitat has been designated for this species.</p> <p>Species profile: <a href="https://ecos.fws.gov/ecp/species/66">https://ecos.fws.gov/ecp/species/66</a></p>	Threatened
<p>Monarch Butterfly <i>Danaus plexippus</i></p> <p>No critical habitat has been designated for this species.</p> <p>Species profile: <a href="https://ecos.fws.gov/ecp/species/9743">https://ecos.fws.gov/ecp/species/9743</a></p>	Candidate

## Critical habitats

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

# USFWS National Wildlife Refuge Lands And Fish Hatcheries

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

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## Migratory Birds

Certain birds are protected under the Migratory Bird Treaty Act<sup>1</sup> and the Bald and Golden Eagle Protection Act<sup>2</sup>.

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described [below](#).

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1. The [Migratory Birds Treaty Act](#) of 1918.
2. The [Bald and Golden Eagle Protection Act](#) of 1940.
3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

THERE ARE NO FWS MIGRATORY BIRDS OF CONCERN WITHIN THE VICINITY OF YOUR PROJECT AREA.

### Migratory Birds FAQ

**Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.**

[Nationwide Conservation Measures](#) describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. [Additional measures](#) or [permits](#) may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

**What does IPaC use to generate the migratory birds potentially occurring in my specified location?**

The Migratory Bird Resource List is comprised of USFWS [Birds of Conservation Concern \(BCC\)](#) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle ([Eagle Act](#) requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the [AKN Phenology Tool](#).

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### **What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?**

The probability of presence graphs associated with your migratory bird list are based on data provided by the [Avian Knowledge Network \(AKN\)](#). This data is derived from a growing collection of [survey, banding, and citizen science datasets](#).

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go to the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

### **How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?**

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may refer to the following resources: [The Cornell Lab of Ornithology All About Birds Bird Guide](#), or (if you are unsuccessful in locating the bird of interest there), the [Cornell Lab of Ornithology Neotropical Birds guide](#). If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

### **What are the levels of concern for migratory birds?**

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are [Birds of Conservation Concern](#) (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the [Eagle Act](#) requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

### **Details about birds that are potentially affected by offshore projects**

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the [Northeast Ocean Data Portal](#). The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the [NOAA NCCOS Integrative Statistical](#)

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[Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf](#) project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the [Diving Bird Study](#) and the [nanotag studies](#) or contact [Caleb Spiegel](#) or [Pam Loring](#).

### **What if I have eagles on my list?**

If your project has the potential to disturb or kill eagles, you may need to [obtain a permit](#) to avoid violating the Eagle Act should such impacts occur.

### **Proper Interpretation and Use of Your Migratory Bird Report**

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

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## Wetlands

Impacts to [NWI wetlands](#) and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

WETLAND INFORMATION WAS NOT AVAILABLE WHEN THIS SPECIES LIST WAS GENERATED. PLEASE VISIT [HTTPS://WWW.FWS.GOV/WETLANDS/DATA/MAPPER.HTML](https://www.fws.gov/wetlands/data/mapper.html) OR CONTACT THE FIELD OFFICE FOR FURTHER INFORMATION.

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## Species Conclusions Table

Project Name: SH-412B & Patrol Road Phase 1 Roundabout

Date: February 10, 2022

Species / Critical Habitat	Habitat Determination	Notes / Documentation	ESA Determination
Gray Bat ( <i>Myotis grisescens</i> )	No limestone karst features or riparian forest near streams, rivers, and associated wetlands occur within 0.5 miles of the project footprint.	Field visit found no suitable habitat for the gray bat present or in the project's action area. No historical or recent observations of this species in the vicinity of the project are present in ONHI records.	No effect
Northern Long-eared Bat ( <i>Myotis septentrionalis</i> )	See Determination Key Attached	Appropriate Effect Determination for NLEB has been made under the BO for the final 4(d) rule	May affect
Piping Plover ( <i>Charadrius melodus</i> )	No sparsely vegetated sandy or gravelly shorelines and islands associated with major river systems or salt flats, or mudflats associated with reservoirs occur within 0.25 miles the project footprint.	Field visit found no suitable habitat for the piping plover present or in the project's action area. No historical or recent observations in the vicinity of the project are present in ONHI records.	No effect
Red Knot ( <i>Calidris canutus rufa</i> )	No mudflats associated with reservoirs occur within 0.25 miles the project footprint.	Field visit found no suitable habitat for the red knot present or in the project's action area. No historical or recent observations in the vicinity of the project are present in ONHI records.	No effect
Ozark Cavefish ( <i>Amblyopsis rosae</i> )	No clear groundwater-fed streams in caves with chert and rubble beds occur within 0.5 miles of the project footprint. Project is not located within an Ozark cavefish recharge watershed.	Field visit found no suitable habitat for the Ozark cavefish is present or in the project's action area. No historical or recent observations in the vicinity of the project are present in ONHI records.	No effect
American Burying Beetle ( <i>Nicrophorus americanus</i> )	See Determination Key Attached	Appropriate Effect Determination for ABB has been made under the BO for the final 4(d) rule	May Affect
Monarch Butterfly ( <i>Danaus plexippus</i> )	Native perennial vegetation with flowering or potentially flowering nectar plants are present within the project footprint and action area.	Field visit found suitable monarch butterfly habitat within the project's action area that will likely be impacted by project activities.	Unlikely to jeopardize the continued existence

Remember to save a copy of this form once you have filled it out. This table is part of your project review package.



## United States Department of the Interior



FISH AND WILDLIFE SERVICE  
Oklahoma Ecological Services Field Office  
9014 East 21st Street  
Tulsa, OK 74129-1428  
Phone: (918) 581-7458 Fax: (918) 581-7467  
<http://www.fws.gov/southwest/es/Oklahoma/>

In Reply Refer To:

February 10, 2022

Project code: 2022-0006231

Project Name: SH412-B and Patrol Road Intersection Improvement Roundabout

Subject: Consistency letter for the 'SH412-B and Patrol Road Intersection Improvement Roundabout' project indicating that any take of the northern long-eared bat that may occur as a result of the Action is not prohibited under the ESA Section 4(d) rule adopted for this species at 50 CFR §17.40(o).

Dear Julianne Whitaker:

The U.S. Fish and Wildlife Service (Service) received on February 10, 2022 your effects determination for the 'SH412-B and Patrol Road Intersection Improvement Roundabout' (the Action) using the northern long-eared bat (*Myotis septentrionalis*) key within the Information for Planning and Consultation (IPaC) system. You indicated that no Federal agencies are involved in funding or authorizing this Action. This IPaC key assists users in determining whether a non-Federal action may cause “take”<sup>[1]</sup> of the northern long-eared bat that is prohibited under the Endangered Species Act of 1973 (ESA) (87 Stat.884, as amended; 16 U.S.C. 1531 et seq.).

Based upon your IPaC submission, any take of the northern long-eared bat that may occur as a result of the Action is not prohibited under the ESA Section 4(d) rule adopted for this species at 50 CFR §17.40(o). Unless the Service advises you within 30 days of the date of this letter that your IPaC-assisted determination was incorrect, this letter verifies that the Action is not likely to result in unauthorized take of the northern long-eared bat.

Please report to our office any changes to the information about the Action that you entered into IPaC, the results of any bat surveys conducted in the Action area, and any dead, injured, or sick northern long-eared bats that are found during Action implementation.

If your Action proceeds as described and no additional information about the Action’s effects on species protected under the ESA becomes available, no further coordination with the Service is required with respect to the northern long-eared bat.

The IPaC-assisted determination for the northern long-eared bat **does not** apply to the following ESA-protected species that also may occur in your Action area:

- American Burying Beetle *Nicrophorus americanus* Threatened

- Gray Bat *Myotis grisescens* Endangered
- Monarch Butterfly *Danaus plexippus* Candidate
- Ozark Cavefish *Amblyopsis rosae* Threatened
- Piping Plover *Charadrius melodus* Threatened
- Red Knot *Calidris canutus rufa* Threatened

You may coordinate with our Office to determine whether the Action may cause prohibited take of the animal species listed above.

---

[1]Take means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct [ESA Section 3(19)].

---

## Action Description

You provided to IPaC the following name and description for the subject Action.

### 1. Name

SH412-B and Patrol Road Intersection Improvement Roundabout

### 2. Description

The following description was provided for the project 'SH412-B and Patrol Road Intersection Improvement Roundabout':

Intersection Improvement for SH-412B and Patrol Road with construction of a roundabout.

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@36.21365245,-95.28675014690367,14z>



### Determination Key Result

This non-Federal Action may affect the northern long-eared bat; however, any take of this species that may occur incidental to this Action is not prohibited under the final 4(d) rule at 50 CFR §17.40(o).

### Determination Key Description: Northern Long-eared Bat 4(d) Rule

This key was last updated in IPaC on **May 15, 2017**. Keys are subject to periodic revision.

This key is intended for actions that may affect the threatened northern long-eared bat.

The purpose of the key for non-Federal actions is to assist determinations as to whether proposed actions are excepted from take prohibitions under the northern long-eared bat 4(d) rule.

If a non-Federal action may cause prohibited take of northern long-eared bats or other ESA-listed animal species, we recommend that you coordinate with the Service.

---

## Determination Key Result

Based upon your IPaC submission, any take of the northern long-eared bat that may occur as a result of the Action is not prohibited under the ESA Section 4(d) rule adopted for this species at 50 CFR §17.40(o).

## Qualification Interview

1. Is the action authorized, funded, or being carried out by a Federal agency?

*No*

2. Will your activity purposefully **Take** northern long-eared bats?

*No*

3. [Semantic] Is the project action area located wholly outside the White-nose Syndrome Zone?

**Automatically answered**

*No*

4. Have you contacted the appropriate agency to determine if your project is near a known hibernaculum or maternity roost tree?

Location information for northern long-eared bat hibernacula is generally kept in state Natural Heritage Inventory databases – the availability of this data varies state-by-state. Many states provide online access to their data, either directly by providing maps or by providing the opportunity to make a data request. In some cases, to protect those resources, access to the information may be limited. A web page with links to state Natural Heritage Inventory databases and other sources of information on the locations of northern long-eared bat roost trees and hibernacula is available at [www.fws.gov/midwest/endangered/mammals/nleb/nhisites.html](http://www.fws.gov/midwest/endangered/mammals/nleb/nhisites.html).

*Yes*

5. Will the action affect a cave or mine where northern long-eared bats are known to hibernate (i.e., hibernaculum) or could it alter the entrance or the environment (physical or other alteration) of a hibernaculum?

*No*

6. Will the action involve Tree Removal?

*Yes*

7. Will the action only remove hazardous trees for the protection of human life or property?

*No*

8. Will the action remove trees within 0.25 miles of a known northern long-eared bat hibernaculum at any time of year?

*No*

---

9. Will the action remove a known occupied northern long-eared bat maternity roost tree or any trees within 150 feet of a known occupied maternity roost tree from June 1 through July 31?

*No*

---

## Project Questionnaire

**If the project includes forest conversion, report the appropriate acreages below. Otherwise, type '0' in questions 1-3.**

1. Estimated total acres of forest conversion:

5.7

2. If known, estimated acres of forest conversion from April 1 to October 31

5.7

3. If known, estimated acres of forest conversion from June 1 to July 31

0

**If the project includes timber harvest, report the appropriate acreages below. Otherwise, type '0' in questions 4-6.**

4. Estimated total acres of timber harvest

0

5. If known, estimated acres of timber harvest from April 1 to October 31

0

6. If known, estimated acres of timber harvest from June 1 to July 31

0

**If the project includes prescribed fire, report the appropriate acreages below. Otherwise, type '0' in questions 7-9.**

7. Estimated total acres of prescribed fire

0

8. If known, estimated acres of prescribed fire from April 1 to October 31

0

9. If known, estimated acres of prescribed fire from June 1 to July 31

0

**If the project includes new wind turbines, report the megawatts of wind capacity below. Otherwise, type '0' in question 10.**

10. What is the estimated wind capacity (in megawatts) of the new turbine(s)?

0

---



## **IPaC User Contact Information**

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City: Oklahoma City

State: OK

Zip: 73114

Email: [jwhitaker@olsson.com](mailto:jwhitaker@olsson.com)

Phone: 4057408912

---



## United States Department of the Interior



FISH AND WILDLIFE SERVICE  
Oklahoma Ecological Services Field Office  
9014 East 21st Street  
Tulsa, OK 74129-1428  
Phone: (918) 581-7458 Fax: (918) 581-7467  
<http://www.fws.gov/southwest/es/Oklahoma/>

In Reply Refer To:

February 10, 2022

Project code: 2022-0006231

Project Name: SH412-B and Patrol Road Intersection Improvement Roundabout

Subject: Consistency letter for 'SH412-B and Patrol Road Intersection Improvement Roundabout' project indicating that any take of the American burying beetle that may occur as a result of the Action is not prohibited under the ESA Section 4(d) rule adopted for this species at 50 CFR § 17.47(d), Federal Register Citation 85 FR 65241.

Dear Julianne Whitaker:

The U.S. Fish and Wildlife Service (Service) received on **February 10, 2022** your effect determination(s) for the 'SH412-B and Patrol Road Intersection Improvement Roundabout' (the Action) using the American burying beetle (*Nicrophorus americanus*) determination key within the Information for Planning and Consultation (IPaC) system.

You indicated that no Federal agencies are involved in funding or authorizing this Action. This determination key assists users in determining whether a non-Federal action may cause incidental "take" of the American burying beetle that is prohibited under the Endangered Species Act of 1973 (Act) (87 Stat.884, as amended; 16 U.S.C. 1531 et seq.).

Based upon your IPaC submission, any incidental take of the American burying beetle that may occur as a result of the Action is not prohibited under the Act, Section 4(d) rule adopted for this species at 50 CFR § 17.47(d). Unless the Service advises you within 30 days of the date of this letter that your IPaC-assisted determination was incorrect, this letter verifies that the Action is not likely to result in unauthorized take of the American burying beetle.

Please report any changes to the information about the Action that you entered into IPaC, the results of any American burying beetle surveys conducted in the Action area, and any dead, injured, or sick American burying beetles that are found during Action implementation. All project review information should be directed to [OKProjectReview@fws.gov](mailto:OKProjectReview@fws.gov).

If your Action proceeds as described and no additional information about the Action's effects on species protected under the Act becomes available, no further coordination with the Service is required with respect to the American burying beetle.

This letter covers only the American burying beetle. It **does not** apply to the following ESA-protected species that also may occur in the Action area:

- Gray Bat *Myotis grisescens* Endangered
- Monarch Butterfly *Danaus plexippus* Candidate
- Northern Long-eared Bat *Myotis septentrionalis* Threatened
- Ozark Cavefish *Amblyopsis rosae* Threatened
- Piping Plover *Charadrius melodus* Threatened
- Red Knot *Calidris canutus rufa* Threatened

If your project may affect additional listed species, you must evaluate additional DKeys for other species, or submit a request for consultation for the additional species to your local Ecological Services Field Office.

---

**Action Description**

You provided to IPaC the following name and description for the subject Action.

**1. Name**

SH412-B and Patrol Road Intersection Improvement Roundabout

**2. Description**

The following description was provided for the project 'SH412-B and Patrol Road Intersection Improvement Roundabout':

Intersection Improvement for SH-412B and Patrol Road with construction of a roundabout.

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@36.21365245,-95.28675014690367,14z>



## Qualification Interview

1. Is the action authorized, funded, or being carried out by a Federal agency?

*No*

2. Have you determined that the proposed action will have “no effect” on the American burying beetle? (If you are unsure select "No")

*No*

3. Will your activity **purposefully take** American burying beetles?

*No*

4. Is your project wholly inside the 4d rule Analysis Area? For areas of your project occurring inside the Analysis Area (New England, Northern Plains, Southern Plains), your project may qualify for exemptions. For areas of your project occurring outside the Analysis Area, all incidental take is exempted according to the ABB 4d Rule.

**Automatically answered**

*Yes*

5. Is American burying beetle [suitable habitat](#) present within the action area?

*Yes*

6. Will suitable habitat be affected by the proposed action? Suitable habitat may be impacted if the action involves soil disturbance, use of vehicles or heavy equipment, artificial lighting, vegetation removal, use of herbicides, pesticides, other hazardous chemicals.

*Yes*

---

## Project Questionnaire

Please select the activity that best matches your proposed action.

*8. Soil disturbance related to road construction and maintenance*

If you chose 13 above, please describe below. If you did not choose 13 above, please type "0".

0

Estimate the total acres of suitable American burying beetle habitat that may be affected.

16.2

Please estimate the total number of acres of **temporary impacts** to American burying beetle habitat. See definitions

8.6

Please estimate the total number of acres of **permanent impacts** to American burying beetle habitat. See definitions

7.6

---

## **IPaC User Contact Information**

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State: OK

Zip: 73114

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Phone: 4057408912

---

**APPENDIX C**  
**HAZARDOUS WASTE ISA**



# **PHASE I ENVIRONMENTAL SITE ASSESSMENT**

**Prepared for:**

Oklahoma Ordnance Works Authority

4075 Sanders Mitchell Street

Pryor, Oklahoma 74361

January 2022

Olsson Project No. G20-1030



## ACRONYMS AND ABBREVIATIONS

AAI .....	All appropriate inquiry
AIRS .....	Aerometric information retrieval system
ASTM .....	American Society for Testing and Materials
AST .....	Aboveground storage tank
AUL .....	Activity and use limitation
BGS .....	Below ground surface
CERCLA .....	Comprehensive Environmental Response, Compensation, and Liability Act
CERCLIS .....	CERCLA Information System
CESQG .....	Conditionally exempt small quantity generator
CFR .....	Code of Federal Regulations
COC .....	Chemicals of Concern
CORRACTS .....	Corrective Action Sites
CREC .....	Controlled recognized environmental condition
EPA .....	U.S. Environmental Protection Agency
ERNS .....	Emergency Response Notification System
ESA .....	Environmental Site Assessment
FINDS .....	Facility Index System
HREC .....	Historical recognized environmental condition
LAST .....	Leaking aboveground storage tank
LQG .....	Large quantity generator
LUST .....	Leaking underground storage tank
MCL .....	Maximum contaminant level
MSDS .....	Material safety data sheet
NFA .....	No further action
NFRAP .....	No further remedial action planned
NonGens .....	No longer generates hazardous waste
NPL .....	National priorities list
PCB .....	Polychlorinated biphenyl
RCRA .....	Resource Conservation and Recovery Act
REC .....	Recognized environmental condition
SHWS .....	State hazardous waste site
SQG .....	Small quantity generator
TRI .....	Toxic release inventory
TSDf .....	Treatment, storage, and disposal facility
USGS .....	U.S. Geological Survey
UST .....	Underground storage tank
VCP .....	Voluntary cleanup program
VSQG .....	Very small quantity generator

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## **APPENDICES**

- Appendix A Figures
- Appendix B User Questionnaire
- Appendix C Historical Information
- Appendix D Environmental Database Report
- Appendix E Reconnaissance Photographs

## **SUMMARY**

Olsson, Inc. (Olsson) was retained by Oklahoma Ordnance Work Authority to perform a Phase I Environmental Site Assessment (ESA) for the MidAmerica Industrial Park located at SH-412B and Patrol Road in Pryor, Mayes County, Oklahoma (hereinafter referred to as the "Property" and shown on Figure 1 in Appendix A). Olsson has performed this ESA in conformance with the scope and limitations of the American Society for Testing and Materials Practice E1527-13 (ASTM E1527-13). No recognized environmental conditions (RECs) or vapor encroachment conditions (VECs) were identified over the course of this ESA.

This report must be read in its entirety to develop a comprehensive understanding of the ESA information process.

# 1. INTRODUCTION

The Property and vicinity are generally characterized as agricultural and undeveloped. The following table summarizes the Property description and physical setting. The following table summarizes the Property description and physical setting. A Vicinity Map depicting the Property location and Site Map are included in Appendix A.

PROPERTY DESCRIPTION AND PHYSICAL SETTING		
<b>Property Legal Description</b>	Section 16, Township 20 North, Range 19 East, Indian Meridian	
<b>Potable Water Provider</b>	City of Pryor	
<b>Sanitary Sewer Provider</b>	City of Pryor	
<b>Primary Class, Use/Zoning</b>	Undeveloped and Agricultural	
<b>Land Area</b>	Approximately 13 acres	
PHYSICAL SETTING INFORMATION FOR SITE AND SURROUNDING AREA		SOURCE
<b>Topography (Refer to Appendix A for an excerpt of the USGS Topographic Map)</b>		
<b>Property Elevation</b>	671 feet above sea level	USGS 7.5-Minute Topographic Map, Chouteau Quad, Oklahoma, 2019
<b>Groundwater Flow Direction *</b>	Southeast	
<b>Surface Runoff/ Topographic Gradient</b>	Southeast	

\* The hydrogeologic gradient is unknown but is inferred based on the topographic gradient.

## 1.1 Purpose of the Environmental Site Assessment

This ESA was prepared in a manner consistent with the E1527-13 procedures. The purpose of this ESA is to assist Oklahoma Ordnance Work Authority (also referred to as “User”) in developing information to identify Recognized Environmental Conditions (RECs) in connection with the Property as defined by the ASTM E1527-13, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process. The intent of the ESA is to assist the User in achieving an innocent landowner defense through the completeness of “all appropriate inquiry” (AAI) under Section 107 of the Comprehensive Environmental Response, Compensation,

and Liability Act of 1980 (CERCLA, 42 U.S.C. 9607), as modified by the Brownfields Amendment. It is the responsibility of the User to notify Olsson if this ESA is intended for any other purpose.

ASTM E1527-13 defines a REC as the presence or likely presence of any hazardous substances or petroleum products (as defined in ASTM E1527-13) in, on, or at a Property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment.

*De minimis conditions* are conditions that generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate government agencies. Conditions determined to be *de minimis* are not RECs nor controlled recognized environmental conditions (CRECs).

A CREC is a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations (AULs), institutional controls, or engineering controls).

ASTM E1527-13 also utilizes the term historical recognized environmental condition (HREC) to describe a past release of any hazardous substances or petroleum products that has occurred in connection with the Property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the Property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). In subsequent updates or revisions to an ESA, conditions initially identified as HRECs may be considered RECs if there has been a change in the regulatory criteria since the past release received closure approval.

Additionally, ASTM E2600-15 identifies a vapor encroachment condition (VEC) as the presence or likely presence of chemical of concern (COC) vapors in the sub-surface of the Property caused by the release of vapors from contaminated soil or groundwater either on or near the Property. Although ASTM E2600-15 is not intended to alter or in any way define the scope of ASTM E1527-13, COC vapors must be taken into consideration when investigating contamination that could be located on the Property, having originated on the Property or having migrated onto the Property.

## **1.2 Scope of Services**

This ESA was performed in accordance with our Client-approved proposal dated January 1, 2022. The ESA scope of services was undertaken through a review of regulatory databases; state and local government databases and officials; historical and physical record resources; interviews as



applicable; User-provided information; and visual noninvasive reconnaissance of the Property and adjoining properties. Any limitations, ASTM E1527-13 deviations, or significant data gaps are presented in the report text.

Other additional services, including business environmental risk, and other non-scope issues detailed in ASTM E1527-13 (e.g. asbestos sampling, lead-based paint sampling, wetlands review, lead in drinking water sampling, radon testing, etc.), were not conducted as part of the ESA for the Property.

### **1.3 Limitations and Exceptions**

This ESA is not to be construed as legal interpretation or advice. We have endeavored to meet the ASTM E1527-13 standard, but we may have been limited by Property conditions or by the inability to review information not received by the report date. An evaluation of the significance of these limitations and missing information with respect to our findings has been conducted, and where appropriate, significant data gaps are identified and discussed in the text of the report.

No ESA can wholly eliminate uncertainty regarding the potential for RECs in connection with a property. Performance of an ESA is intended to reduce, but not eliminate, uncertainty regarding the potential for RECs. No warranties, express or implied, are intended or made. The limitations herein must be considered when the User of this report formulates opinions as to risks associated with the Property or otherwise uses the report for any other purpose.

The conclusions presented in this report are qualified and limited by the fact that certain indicators of the presence of hazardous materials may have been latent at the time of the site reconnaissance. Olsson cannot and does not accept responsibility for latent conditions, which may, subsequent to the site reconnaissance, become apparent in light of changed circumstances.

Based upon the agreed-on scope of services, this ESA did not include subsurface or other invasive assessments, business environmental risk evaluations, or other services not particularly identified and discussed herein. Information obtained for this ESA was received from several sources that we believe to be reliable; nonetheless, the authenticity or reliability of these sources cannot and is not warranted hereunder.

This report has been prepared for the sole benefit of Client. The material in it reflects Olsson's best opinion considering the information available at the time of preparation. The report may not be used or relied upon by any other person or entity without the express written consent of the Client and Olsson. All parties are subject to the same limit of liability as agreed to in the contract under which the work was completed. Any use which a third party makes of this report, or any reliance on decisions made based on it, are the responsibility of such third parties. Olsson accepts

no responsibility for damages, if any suffered by any third party as a result of decisions made or actions taken based on this report.

## **1.4 Reliance**

The effective date of the report is January 10, 2022, the date when the database report was generated. Oklahoma Ordnance Work Authority may rely on the findings and conclusions of this report through the viability date of July 9, 2022. Continued viability of the ESA is contingent on the terms set forth in ASTM E1527-13 Sections 4.6 and 4.8.

## **2. USER-PROVIDED INFORMATION**

The following information in this Section was provided by Jason Stutzman, the User representative to assist in the identification of environmental concerns. A copy of the User provided information is presented in Appendix B.

### **2.1 Environmental Liens or Activity and Use Limitations**

These records are used to determine if there are any environmental liens or AULs in connection with the Property. Recorded land title records and lien records were provided by the User. A review of these records did not identify any environmental liens or AULs encumbering the Property or in connection with the Property.

### **2.2 Specialized Knowledge**

The User was not aware of any specialized knowledge or experience that is material to RECs in connection with the Property.

### **2.3 Commonly Known or Reasonably Ascertainable Information**

The User was not aware of any commonly known or reasonably ascertainable information within the local community about the Property that is material to RECs in connection with the Property.

### **2.4 Valuation Reduction for Environmental Issues**

Purchase prices that are significantly lower than market value may indicate the presence of hazardous substances or petroleum products. The User was not aware of a significantly lower purchase price.

### **2.5 Obvious Indicators of Presence or Absence of Contamination**

The User was not aware of obvious indicators regarding the presence or likely presence of releases or threatened releases at the Property and the ability to detect releases or threatened releases.

### **2.6 Other Information**

The User provided a previous Environmental Site Assessment that was completed in 2018 by Enercon for use by the Environmental Professional. This previous Environmental Site Assessment found no evidence of RECs, CRECs or VEC's in connection with the Property.

### **3. HISTORICAL RESOURCE REVIEW**

Olsson reviewed historical records provided by Environmental Data Resources (EDR) in an attempt to identify past uses of the Property and adjoining properties and conditions that could represent RECs for the Property. Copies of historical documents are included in Appendix C.

The following historical data sources were reviewed for this ESA.

- Historical aerial photographs: 1968, 1971, 1980, 1995, 2006, 2010, 2013, and 2017;
- Historical topographic maps: 1896, 1901, 1970, 1982, 2012, 2016, and 2019;
- City directory information: 1992, 1995, 2000, 2005, 2010, 2014, and 2017; and,
- Sanborn Maps: The Sanborn Maps library was searched and no maps were located for the Property, .

The Property was crossed by a north-south road based on topographic maps from 1896-1901; the remaining portions of the Property are vacant. The 1968 aerial shows a road running southeast to northwest on the eastern end of the Property. By 1970, SH-412b has been constructed running east to west through the Property. Aerial imagery from 1980 shows a railroad has been constructed at the western edge of the Property. The Property remains unchanged.

#### East

The 1896 -1901 topographic maps identified one dwelling located on the adjacent property to the east. The dwelling is not shown in the 1970 topographic map or the 1968 aerial imagery. The adjacent property to the east remains unchanged.

#### South

Based on the topographic maps, south of the Property is shown as vacant starting in 1896. Aerial imagery from 1968 shows a road running south from the Property is present, this road is grown over by 2006. Aerial imagery from 1980 shows a railroad and SH-412b have been constructed running to the south. The 2017 aerial shows a natural gas structure has been constructed south of the Property.

#### West

The 1896-1901 topographic maps identified one dwelling located on the adjacent property to the west. The dwelling is not shown in the 1970 topographic map or the 1968 aerial imagery. The adjacent property to the east remains unchanged.

#### North

Based on the topographic maps, south of the Property is shown as vacant starting in 1896. Based on aerial imagery from 1980, a residence has been constructed. Aerial imagery from 2010 shows large wooded areas have been cleared. The adjacent property to the north remains unchanged.

## 4. ENVIRONMENTAL RECORDS REVIEW

Database information provided by EDR was reviewed to identify RECs in connection with the Property. Information in this section is subject to the accuracy of the data and the date at which the information was updated by the information services company.

Olsson reviewed the database information for its relevance to the Property; that is, as the information referred to spills or releases either occurring on the Property, or at properties having the potential to affect the Property. As used in this report, the terms “upgradient”, “downgradient”, and “cross-gradient” are used to describe the topographic relationship between the Property and offsite properties relative to the general groundwater flow direction. Refer to the discussion provided in Section 1.

### 4.1 State and Federal Regulatory Databases

Appendix D contains the database report including the list of searched databases (both ASTM E1527-13-required as well as supplemental databases), database descriptions and results, dates of updates, approximate minimum search distances, and maps. The following table summarizes the database listings identified within the ASTM E1527-13 search radii (second column).

**Database Findings Summary**

Database Record	ASTM E1527-13 Search Distance (Miles)	Identified Listings
<b>Federal Databases</b>		
NPL	1.0	0
Delisted NPL	0.5	0
CERCLIS/SEMS	0.5	0
CERLCIS NFRAP/SEMS Archive	0.5	0
RCRA CORRACTS	1.0	0
RCRA TSDF	0.5	0
RCRA-LQG	Property/Adjoining Properties	0
RCRA-SQG		0
RCRA-CESQG		0

RCRA-NonGen		0
Federal Institutional Controls	Property Only	0
Federal Engineering Control	Property Only	0
ERNS	Property Only	0
Database Record	ASTM E1527-13 Search Distance (Miles)	Identified Listings
State and Tribal Databases		
State/Tribal NPL (SCS or SHWS)	1.0	0
State/Tribal SEMS	0.5	0
State/Tribal Licensed Landfill List	0.5	0
LUST	0.5	0
LAST	Property/Adjoining Properties	0
USTs		0
ASTs		0
State/Tribal Institutional Controls	Property Only	0
State/Tribal Engineering Controls	Property Only	0
State/Tribal Voluntary Cleanup Sites	0.5	0
State/Tribal Brownfield Sites	0.5	0

The following sections provide a description of the ASTM E1527-13 databases. Section 4.2 provides discussions regarding pertinent database listings for the Property and immediate vicinity.

#### **4.1.1 NPL, Delisted NPL, SEMS, and SEMS Archive**

The U.S. Environmental Protection Agency (EPA) maintains a Superfund Enterprise Management System (SEMS) database of potentially hazardous waste facilities that have been reported to the EPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the CERCLA. The National Priorities List (NPL) database is a subset of SEMS that identifies facilities that the EPA has assigned a priority cleanup status under the Superfund Program. These may become Delisted NPL (removed from the NPL list), CERCLA Information System (CERCLIS) No Further Remedial Action Planned (NFRAP), or SEMS Archive (SEMS Archive) facilities when the EPA determines that no further response is appropriate or planned for a facility.

### **4.1.2 RCRA CORRACTS**

The EPA maintains a Resource Conservation and Recovery Act (RCRA) corrective action facility database (CORRACTS) of hazardous waste handler facilities where corrective action activity has occurred or is occurring.

### **4.1.3 RCRA TSDF**

The RCRA treatment, storage, and/or disposal facility (TSDF) database is maintained by EPA to identify facilities that treat, store, or dispose of hazardous waste as defined by RCRA.

### **4.1.4 RCRA Generators**

The EPA manages a database of RCRA facilities that generate hazardous waste. RCRA Large Quantity Generator (LQG) facilities generate over 1,000 kilograms (kg) of hazardous waste or over 1 kg of acutely hazardous waste per month. RCRA Small Quantity Generator (SQG) facilities generate between 100 kg and 1,000 kg of hazardous waste per month. RCRA Very Small Quantity Generator (VSQG) facilities generate less than 100 kg of hazardous waste or 1 kg of acutely hazardous waste per month. VSQGs were formerly called Conditionally Exempt Small Quantity Generator (CESQG) facilities and may be referenced as such in state databases. The EPA RCRA generator database also lists facilities that have filed a status change from RCRA waste generator to an operation that no longer generates hazardous waste (NonGen).

### **4.1.5 Federal Institutional and Engineering Controls**

The EPA maintains a list of facilities where institutional controls/engineering controls are in place to manage contamination that the agency approved to remain onsite. Administrative measures involving institutional controls can include groundwater use restrictions, construction restrictions, activity use limitations, and post-remediation care requirements intended to prevent exposure to contaminants. Deed restrictions are generally required as part of the institutional controls.

Engineering controls include various physical capping barriers, building foundations, liners, and treatment methods protective of human health and the environment.

### **4.1.6 Emergency Response Notification System (ERNS)**

The U.S. Coast Guard National Response Center maintains a database of reported releases of oil and hazardous substances.

### **4.1.7 State/Tribal Superfund or Hazardous Waste Sites (SHWS)**

A State/Tribal Superfund or Hazardous Waste Sites (SHWS) database is maintained by the Oklahoma Department of Environmental Quality (ODEQ). The SHWS facility list is intended to be a state-level equivalent of the NPL and CERCLIS databases.

### **4.1.8 State/Tribal Landfill and/or Solid Waste Disposal Sites**

The State/Tribal Landfill and/or Solid Waste Disposal Sites databases are a list of facilities maintained for the disposal of municipal solid waste (landfills).

### **4.1.9 State/Tribal Leaking Storage Tank Lists**

ODEQ maintains a listing of leaking underground storage tank (LUST) and leaking aboveground storage tank (LAST) facilities.

### **4.1.10 State/Tribal Storage Tanks**

ODEQ maintains a database of registered aboveground storage tanks (ASTs) and underground storage tanks (USTs).

### **4.1.11 State/Tribal Institutional Controls**

Similar to the EPA federal list of institutional controls/engineering control facilities, the ODEQ maintains a listing of facilities assigned with State institutional controls.

### **4.1.12 State/Tribal Voluntary Cleanup Sites**

ODEQ maintains a listing of facilities where owners and parties responsible for contamination have voluntarily undertaken cleanup activities overseen by the state.

### **4.1.13 State/Tribal Brownfields**

ODEQ maintains a database of facilities where expansion, redevelopment, or reuse of the facilities may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant.

### **4.1.14 Other**

Database providers frequently report supplemental database search findings outside the required ASTM E1527-13 coverage. These may include: Facility Index System/Facility Registry System (FINDS), the Aerometric Information Retrieval System (AIRS), SPILLS, TANKS, Historical Gas Stations, Historical Dry Cleaners, and other supplemental database resources. The supplemental database information is discussed where relevant to the Property.

## **4.2 Database Information**

The regulatory database review identified no database listings within the prescribed ASTM E1527-13 search radii.

### **4.2.3 Unmapped “Orphan” Listings**

Unmapped orphan database listings are facilities that a database provider typically could not locate because of inadequate geocode or address information. The database report listed no



unmapped or “orphan” facilities located in the Property zip code area. Confirmation of the location of “unmappable” facilities listed by the information service company is beyond the scope of this study. However, a cursory review of the unmapped listings was performed.

No orphan sites were identified within the ASTM E1527-13 search distances listed in Section 4.1

### **4.3 Vapor Encroachment Screening**

Information gathered during the ESA was used to perform a Tier 1 vapor encroachment screening (VES) in general accordance with ASTM E2600-15 minimum search distances to satisfy the vapor migration requirements of ASTM E1527-13. The approximate minimum search distance is based upon the type of COC, that is, petroleum hydrocarbons versus non-petroleum hydrocarbons, and the location of the known or suspect source of contamination with respect to the Property. The search distances used for petroleum hydrocarbon COCs are:

- 1/10-mile upgradient or cross-gradient
- 100 feet downgradient

The search distances used for non-petroleum hydrocarbon COCs and light non-aqueous phase liquid (LNAPL) are:

- 1/3-mile upgradient or cross-gradient
- 300 feet downgradient

The VES has revealed no evidence of potential sources of COC vapor that could exist in the Property sub-surface.

### **4.4 State and Local Government Databases & Officials**

Olsson contacted pertinent state and local government agencies for information regarding the Property. The following sections summarize the government agency contact information.

#### **4.4.1 Oklahoma Department of Environmental Quality**

The ODEQ regulatory database was accessed on January 11, 2022 to research environmental permits, citations, or violations for the Property. Review of the ODEQ records did not identify listings of record for the Property or adjoining properties.

#### **4.4.2 Pryor Fire Department**

Olsson contacted Fire Chief BK Young with Pryor Fire Department (PFD) via phone to request whether that agency-maintained hazmat incident or spill records for the Property. Fire Chief and

Fire Marshal BK Young responded that he was familiar with the Property and vicinity. He was not aware of any hazmat incidents or spill releases reported for the Property.

## 5. PROPERTY AND ADJOINING PROPERTY RECONNAISSANCE

The following sections describe the Property and adjoining property features noted during Olsson’s site reconnaissance on January 18, 2022.

### 5.1 Limiting Conditions

Observation of the Property surface features was not restricted at the time of the reconnaissance; therefore, limiting conditions which would otherwise represent a data gap were not encountered.

### 5.2 Reconnaissance Methodology

Upon arrival at the Property, Olsson personnel walked the Property boundary. Olsson observed the adjacent property features from property boundary. Photo documentation of representative features observed during the Property reconnaissance is provided in Appendix E.

### 5.3 Current and Past Uses of the Property

The Property is currently improved with two roadways (SH-412B and E0555 Road), the rights-of-way for both roads and sections of unimproved grasslands and woodlands. The Property is accessed via SH-412B and E0555 Road.

### 5.4 Property Reconnaissance

Notable features identified during Olsson’s Property reconnaissance are designated by an “X” in the following table. Paragraphs following the summary table discuss the reconnaissance observations in greater detail.

Category	Item or Feature	Observed
<b>Site Operations, Processes, and Equipment</b>	Emergency generators	
	Elevators	
	Air compressors	
	Hydraulic lifts	
	Dry cleaning	
	Photo processing	
	Other processes or equipment	
<b>Aboveground Petroleum or Chemical Storage</b>	Aboveground storage tanks (AST)	
	Drums, barrels and/or containers $\geq$ 5 gallons	

Category	Item or Feature	Observed
<b>Underground Petroleum or Chemical Storage, or Waste and Drainage Collection Systems</b>	Evidence of underground storage tanks (UST) or ancillary UST equipment	
	Floor drains, sumps, or storm water drains	
	Cisterns or sand traps	
	Oil/water separators	
	Septic tanks and/or leach fields	
	Grease traps	
<b>Equipment Containing Potential Polychlorinated Biphenyls (PCBs)</b>	Pad or pole-mounted electrical transformers and/or capacitors	
	Other equipment	
<b>Potential Release Sources and/or Indicators</b>	Discolored vegetation	
	Areas bare of vegetation	
	Stained soil or pavement	
	Strong, pungent, or noxious odors other than that associated with property processes	
	Surface water discoloration, odor, sheen, and/or floating free product	
	Dumped trash, construction or demolition debris, fill dirt, artificial fill, or disposal areas	
	Exterior pipe discharges and/or other effluent discharges	
	Leachate and/or waste seeps	
	Laboratory hoods and/or incinerators	
	Waste treatment systems and/or water treatment systems	
	Material safety data sheets (MSDS)	
<b>Other Notable Property Features</b>	Pits, ponds, or lagoons	
	Pipeline markers	X
	Wells – irrigation, dry, monitoring, or abandoned	
	Other features	

## 5.4.1 Other Notable Property Features

### Pipeline Markers

A sewer line marker was observed running along the southern boundary of 0555 Road in the study area. The City of Pryor provides sewer service to the Property vicinity. Based on observations, this sewer pipeline does not represent a REC for the property.

## 5.5 Adjoining Property Reconnaissance

Visual observations of adjoining properties (from property boundaries) are summarized below:

Direction	Description
<b>North</b>	North of the Property consists of wooded lots and pastureland.
<b>East</b>	East of the Property primarily consists of wooded lots and pastureland. A power substation is present downgradient further to the east.
<b>South</b>	South of the Property primarily consists of wooded lots and pastureland. Approximately 150 feet south of the Property is a natural gas line.
<b>West</b>	West of the Property primarily consists of unimproved wooded lots.

## **6. INTERVIEWS**

Fire Chief BK Young was contacted regarding his knowledge regarding any hazardous waste issues on the Property and is referred to in Section 4.

## **7. EVALUATION AND CONCLUSIONS**

Olsson has performed this ESA in conformance with the scope and limitations of ASTM Practice E1527-13. There were no significant data gaps, exceptions to, or deletions from, this standard.

The following paragraphs discuss our evaluation of features, database listings, and observations that warrant further discussion. Olsson does not consider the remaining features, listings, and observations identified in the report to represent environmental concerns for the Property due to location, regulatory status, and/or documented conditions.

In Olsson's opinion, no RECs or VECs were identified over the course of this ESA

## 8. SIGNATURE OF ENVIRONMENTAL PROFESSIONAL

Olsson conducted this ESA and reviewed all appropriate records made available to Olsson within the performance period of this assessment, conducted property inspection, and performed an analysis of current and historical information collected during the record search. The information contained within the ESA report, to the best of Olsson's knowledge, is correct.

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional, as defined in Section 312.10 of 40 Code of Federal Regulations (CFR) 312; and I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Property. I have developed and performed the All Appropriate Inquiries in conformance with the standards and practice set forth in 40 CFR Part 312. Qualifications and credentials for the Environmental Professional and the qualifications of the personnel conducting the site reconnaissance and interviews if conducted by someone other than an environmental professional are included in Appendix F.



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Nathan Hillis

Environmental Professional

5/2/2022

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Date



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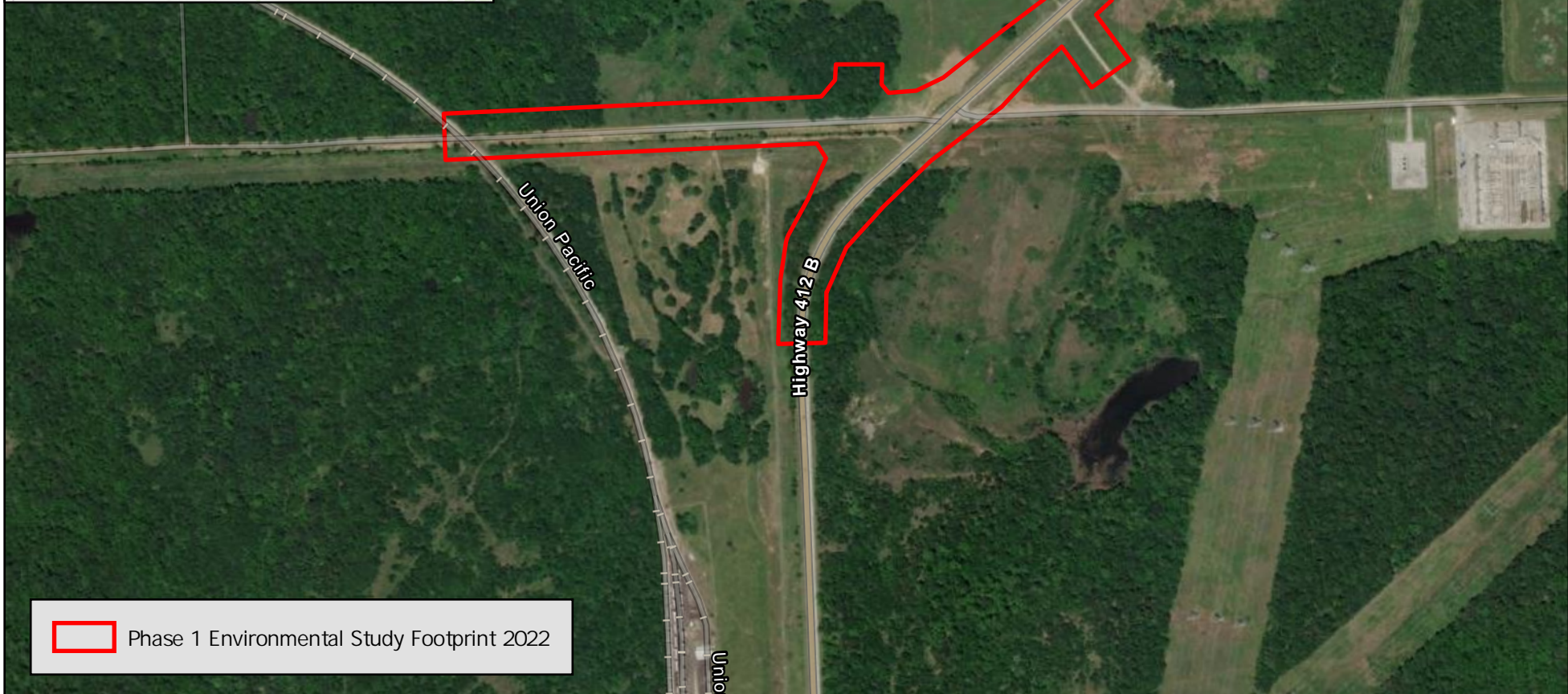
Shannon DeVivo


Reviewer

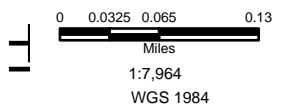


# **APPENDIX A**

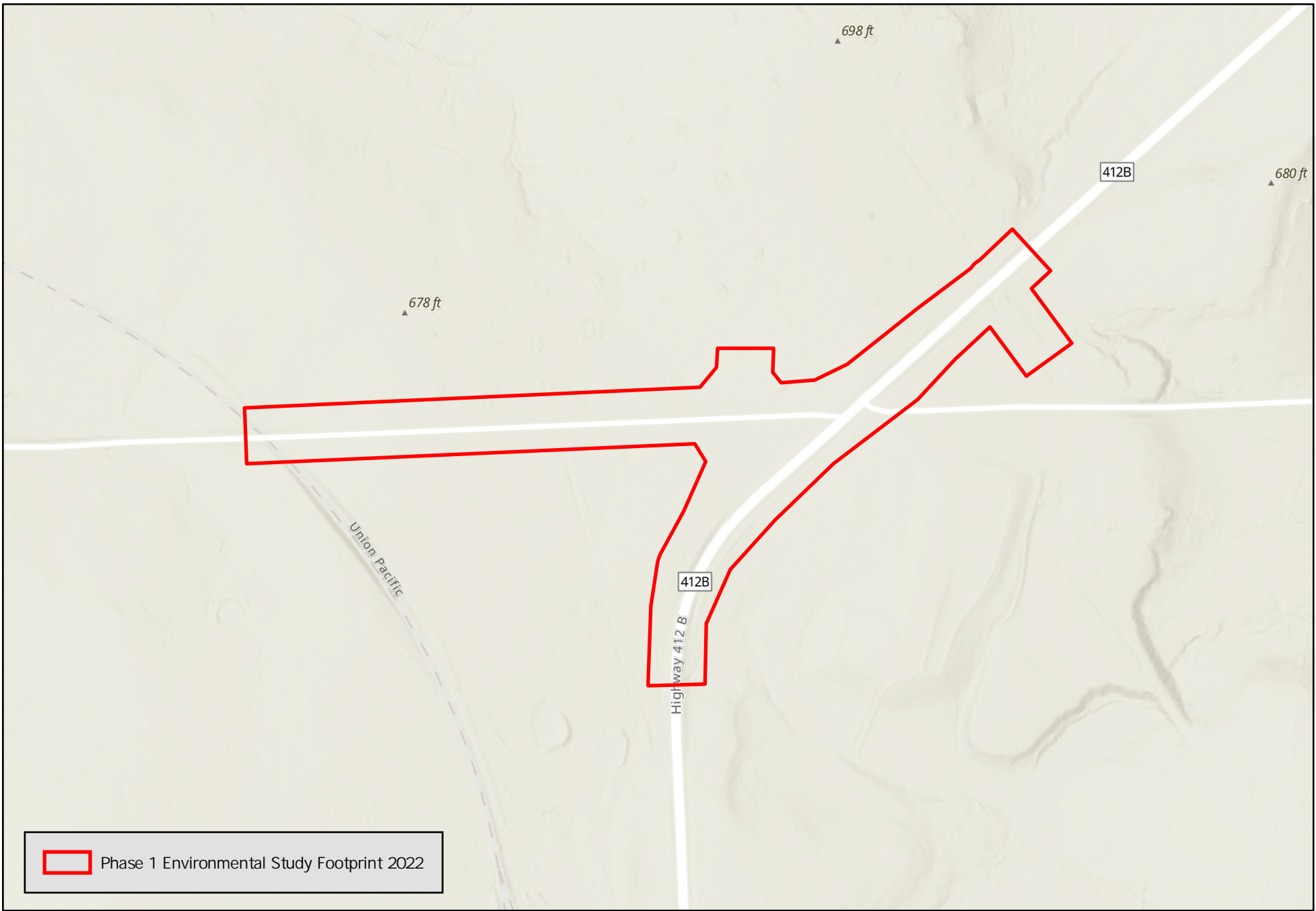
Figures




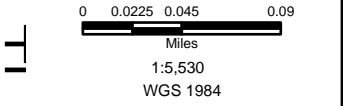
 Phase 1 Environmental Study Footprint 2022



MIDAMERICA INDUSTRIAL PARK  
SOUTH RIDGE PROPERTY  
PROJECT STUDY FOOTPRINT



 Phase 1 Environmental Study Footprint 2022

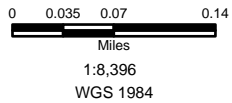


MIDAMERICA INDUSTRIAL PARK  
SOUTH RIDGE PROPERTY  
USGS TOPOGRAPHIC MAP



Phase 1 Environmental Study Footprint 2022

Photo Locations



MIDAMERICA INDUSTRIAL PARK  
SOUTH RIDGE PROPERTY  
SITE RECONNAISSANCE PHOTOS



1. Point 1 looking north down SH-412B.



2. Point 1 looking east.



3. Point 1 Looking south down SH-412B



4. Point 1 looking west along W 0555 Road.



5. Point 2 looking west.



6. Point 2 looking north.



7. Point 2 looking to the west



8. Point 2 looking south.



9. Point 3 looking to the north



10. Point 3 looking to the east



11. Point 3 looking to the south



12. Point 3 looking to the west



13. Point 4 looking north.



14. Point 4 looking to the east across SH-412B



15. Point 4 looking to the south down SH-412B



16. Point 4 looking to the west.



17. Point 5 looking to the east



18. Point 5 looking to the north along the railroad



19. Point 5 looking to the west



20. Point 5 looking to the north along the railroad.



21. Point 6 looking to the south towards a oil and gas structure.



22. Point 6 looking to the east.



23. Point 6 looking to the north



24. Point 6 looking to west.



## **APPENDIX B**

### User Questionnaire



**ASTM E 1527-13  
PHASE I ENVIRONMENTAL SITE ASSESSMENT (ESA)  
USER QUESTIONNAIRE**

**Property Name: MidAmerica Industrial Park**

**Property Address: SH-412B and Patrol Road in Pryor, Mayes County, Oklahoma**

**Introduction**

In order to qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the “Brownfields Amendments”), the user must conduct the following inquiries required by 40 CFR 312.25, 312.28, 312.29, 312.30, and 312.31. These inquiries must also be conducted by EPA Brownfield Assessment and Characterization grantees. The user should provide the following information to the environmental professional. Failure to conduct these inquiries could result in a determination that “all appropriate inquiries” is not complete.

ASTM E 1527-13 defines the “User” as the party seeking to use Practice E1527 to complete an environmental site assessment of the property. A user may include, without limitation, a potential purchaser of property, a potential tenant of property, an owner of property, a lender, or a property manager.

**1. Environmental liens that are filed or recorded against the property (40 CFR 312.25).**

Did a search of recorded land title records (or judicial records where appropriate, see Note 1 below) identify any environmental liens filed or recorded against the property under federal, tribal, state or local law?

NOTE 1— In certain jurisdictions, federal, tribal, state, or local statutes, or regulations specify that environmental liens and AULs be filed in judicial records rather than in land title records. In such cases judicial records must be searched for environmental liens and AULs.

No     Yes    If yes, please explain.

**2. Activity and use limitations that are in place on the property or that have been filed or recorded against the property (40 CFR 312.2(a)1(v) and vi).**

Did a search of recorded land title records (or judicial records where appropriate, see Note 1 above) identify any AULs, such as engineering controls, land use restrictions or institutional controls that are in place at the property and/or have been filed or recorded against the property under federal, tribal, state or local law?

No     Yes    If yes, please explain.

**3. Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.29).**

Do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?

No  Yes If yes, please explain. See Pre-Construction Desktop Environmental Review and Phase I for South Ridge Property dated March 31, 2022.

**4. Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CR 312.29).**

Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?

No  Yes  Not Applicable (N/A) If you conclude that there is a price difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?  No  Yes If yes, please explain.

**5. Commonly known or reasonably ascertainable information about the property (40 CFR 312.30).**

Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example,

- (a) Do you know of the past uses of the property?
- (b) Do you know of specific chemicals that are present or were once present at the property?
- (c) Do you know of spills or other chemical releases that have taken place at the property?
- (d) Do you know of any environmental cleanups that have taken place at the property?

No  Yes If yes to any of the above, please explain. See Pre-Construction Desktop Environmental Review and Phase I for South Ridge Property dated March 31, 2022.

**6. The degree of obviousness of the presence of likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31).**

Based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of releases at the property?

No     Yes    If yes, please explain.

**Helpful Documents Checklist**

Pursuant to ASTM E 1527-13 §10.8, certain information should be collected, if available, and provided to the environmental professional selected to conduct the Phase I ESA. The information is intended to assist the environmental professional, but is not necessarily required to qualify for one of the LLPs.

- Environmental site assessment reports
- Environmental compliance audit reports
- ALTA / ASCM or Site Improvement Map
- Environmental permits (for example solid waste disposal permits, hazardous waste disposal permits, wastewater permits, NPDES permits, underground injection permits)
- Registrations for above or underground storage tanks
- Registration for underground injection systems
- Material safety data sheets
- Community right-to-know plan
- Risk assessments
- Safety plans; preparedness and prevention plans; spill prevention, countermeasure and control (SPCC) plans, facility response plans, etc.
- Reports regarding hydrogeologic conditions on the property or surrounding area
- Notices or other correspondence from any governmental agency relating to past or current violations of environmental laws with respect to the site or relating to environmental liens encumbering the site
- Hazardous waste generation notices or reports
- Geotechnical studies
- Recorded activity and land use limitations (AULs)

Pursuant to ASTM E 1527-13 §10.9, the following information should be provided prior to the site visit. Are you aware of:

7. Any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property?     No     Yes
8. Any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the property?     No     Yes

9. Any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?  No  Yes
- 

10. Purpose for completing the ESA  
MAIP Roundabout construction project.

11. Please verify the correct property address, land area, and building square footage, if known (A map is helpful).  
MAIP Roundabout

12. Provide the property type (commercial, retail, office, etc.) and the property transaction type (sale, purchase, exchange, etc.)  
Commercial

13. List any special Phase I ESA terms and conditions, and all parties who will be relying on the report.  
None

14. Property contact name and information (telephone, email, etc.).  
Jason Stutzman, [jstutzman@maip.com](mailto:jstutzman@maip.com), 918.825.3500

**This questionnaire was completed by:**

Jason Stutzman

---

April 29, 2022

---

Name

Date

Executive Director

---

Oklahoma Ordnance Works Authority  
dba MidAmerica Industrial Park

---

Title

Company Name

Owner

---

918.825.3500

---

Relationship to the property

Telephone

## **APPENDIX C**

### Historical Information

MAIP - Roundabout

412B/E0555 Rd

Pryor, OK 74361

Inquiry Number: 6814465.4

January 10, 2022

# EDR Historical Topo Map Report

with QuadMatch™



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

# EDR Historical Topo Map Report

01/10/22

**Site Name:**

MAIP - Roundabout  
412B/E0555 Rd  
Pryor, OK 74361  
EDR Inquiry # 6814465.4

**Client Name:**

Olsson  
11600 Broadway Extension, Suite 300  
Oklahoma City, OK 73114  
Contact: Nathan Hillis



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Olsson were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDR's Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

**Search Results:**

**Coordinates:**

<b>P.O.#</b>	NA	<b>Latitude:</b>	36.214143 36° 12' 51" North
<b>Project:</b>	MAIP - Roundabout	<b>Longitude:</b>	-95.287086 -95° 17' 14" West
		<b>UTM Zone:</b>	Zone 15 North
		<b>UTM X Meters:</b>	294412.47
		<b>UTM Y Meters:</b>	4010125.43
		<b>Elevation:</b>	671.22' above sea level

**Maps Provided:**

- 2019
- 2016
- 2012
- 1982
- 1970
- 1901
- 1896

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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.

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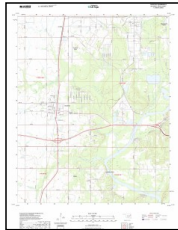
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## **Topo Sheet Key**

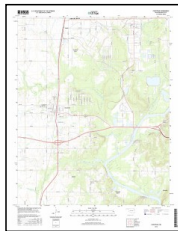
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### **2019 Source Sheets**



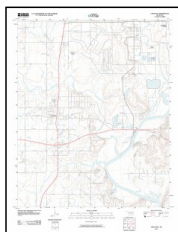
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2019  
7.5-minute, 24000

### **2016 Source Sheets**



Chouteau  
2016  
7.5-minute, 24000

### **2012 Source Sheets**



Chouteau  
2012  
7.5-minute, 24000

### **1982 Source Sheets**



Chouteau  
1982  
7.5-minute, 24000  
Aerial Photo Revised 1980

## **Topo Sheet Key**

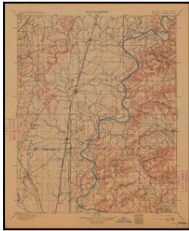
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### **1970 Source Sheets**



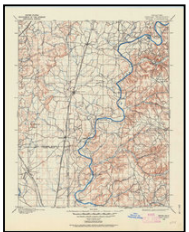
Chouteau  
1970  
7.5-minute, 24000  
Aerial Photo Revised 1968

### **1901 Source Sheets**

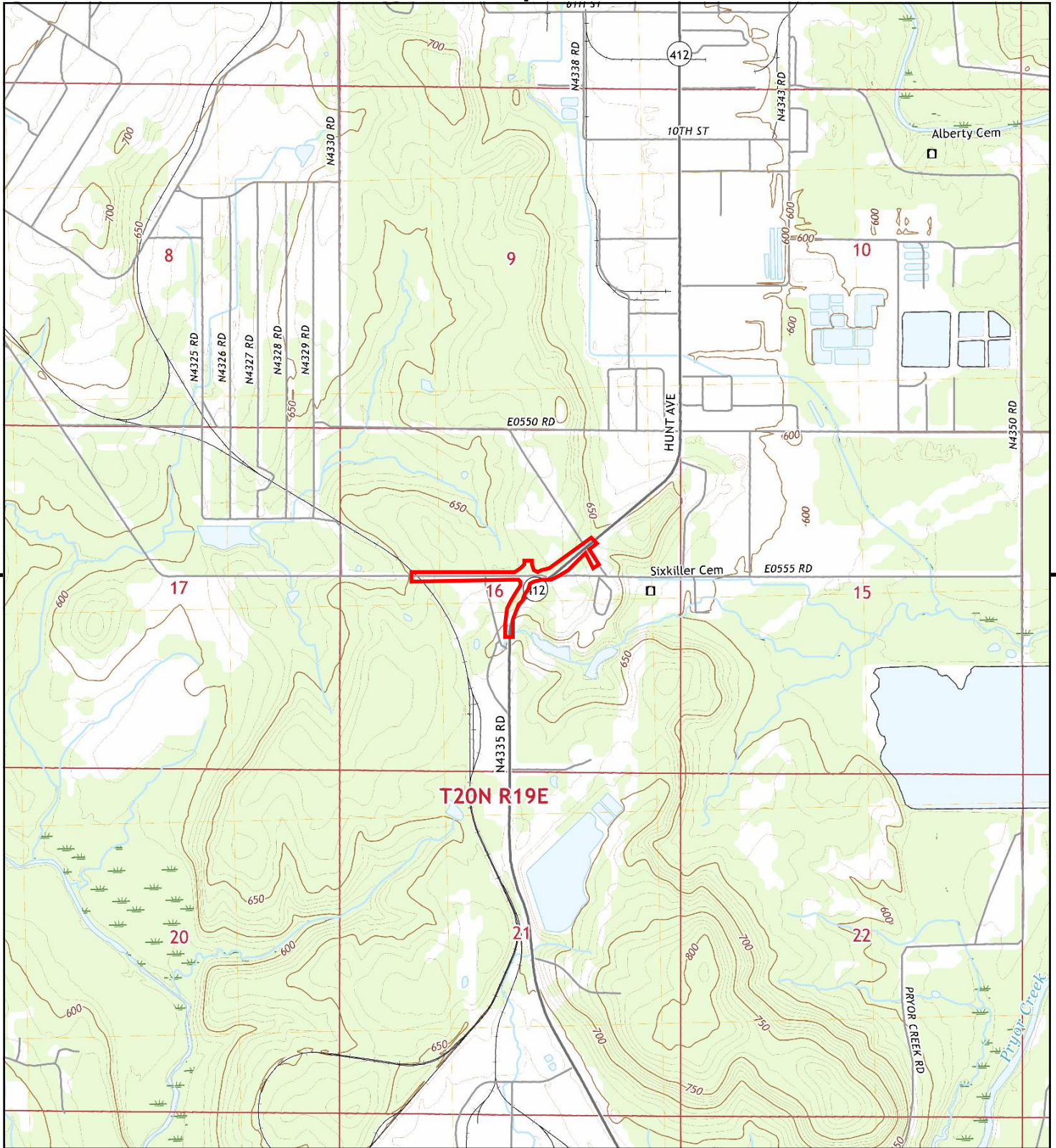


Pryor  
1901  
30-minute, 125000

### **1896 Source Sheets**



Pryor  
1896  
30-minute, 125000



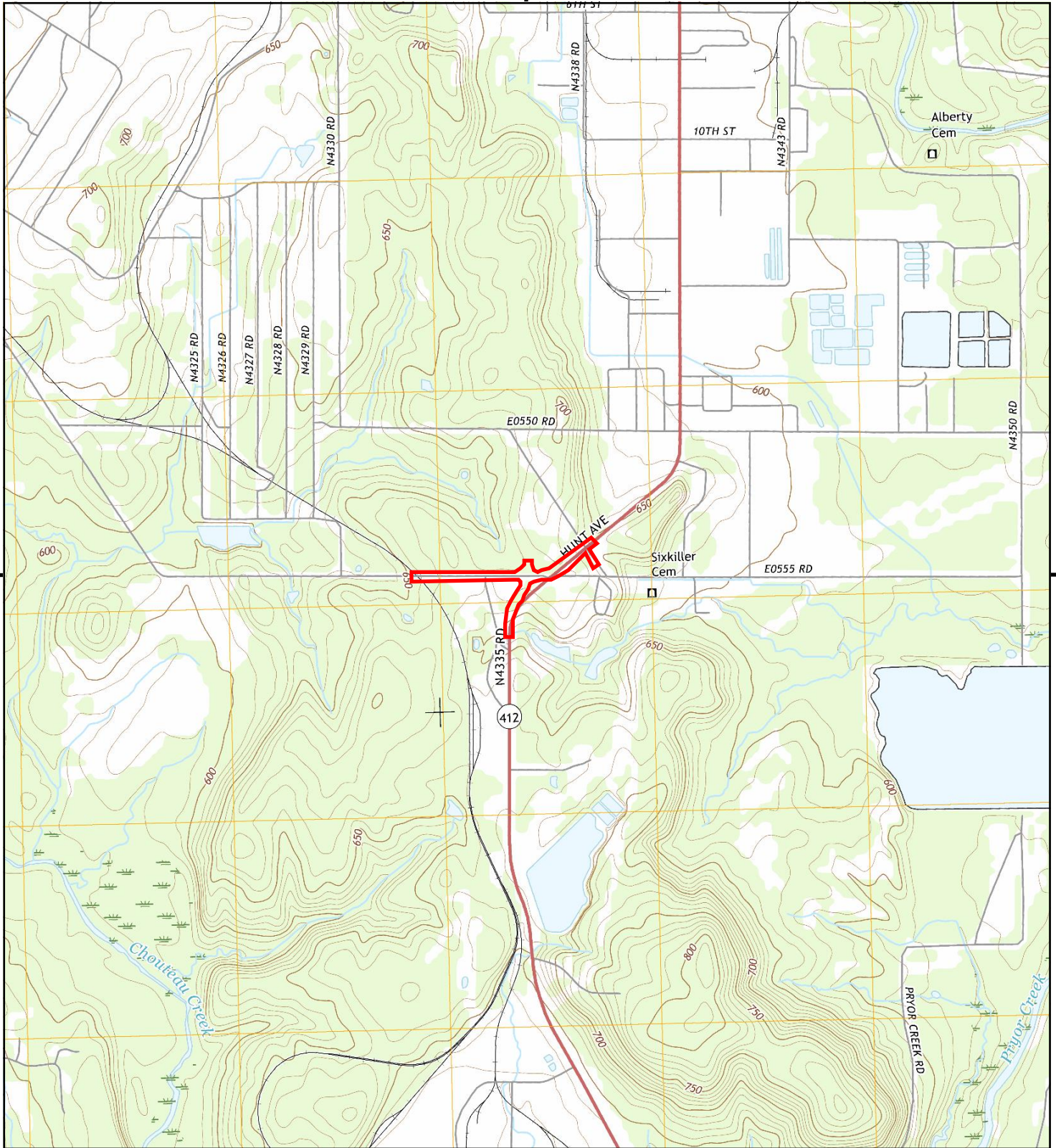
This report includes information from the following map sheet(s).



TP, Chouteau, 2019, 7.5-minute

**SITE NAME:** MAIP - Roundabout  
**ADDRESS:** 412B/E0555 Rd  
 Pryor, OK 74361  
**CLIENT:** Olsson





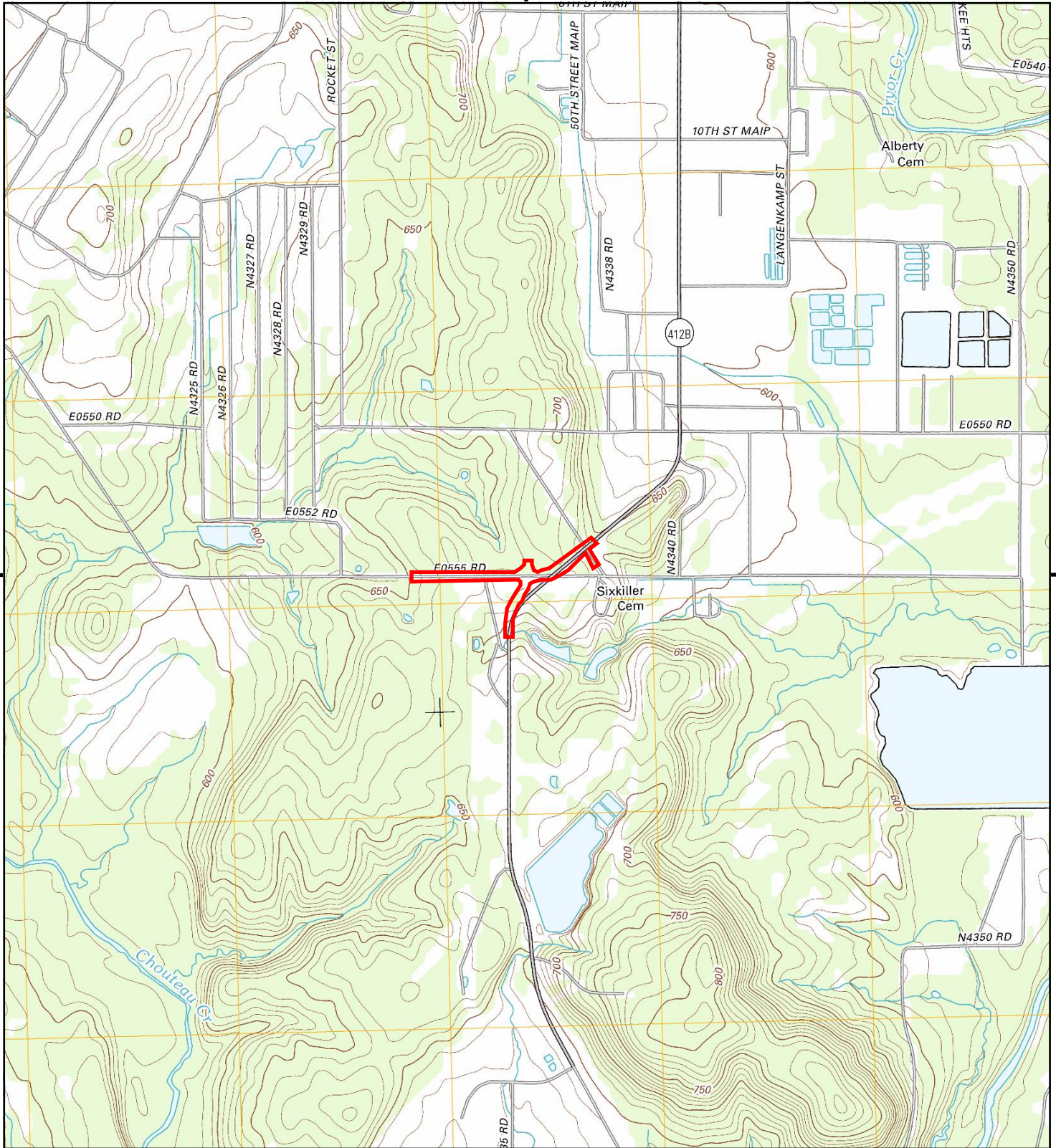
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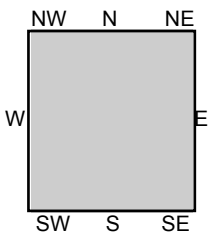
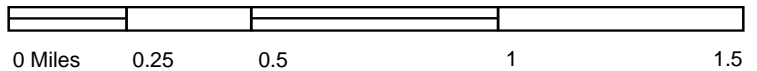
TP, Chouteau, 2016, 7.5-minute

**SITE NAME:** MAIP - Roundabout  
**ADDRESS:** 412B/E0555 Rd  
 Pryor, OK 74361  
**CLIENT:** Olsson





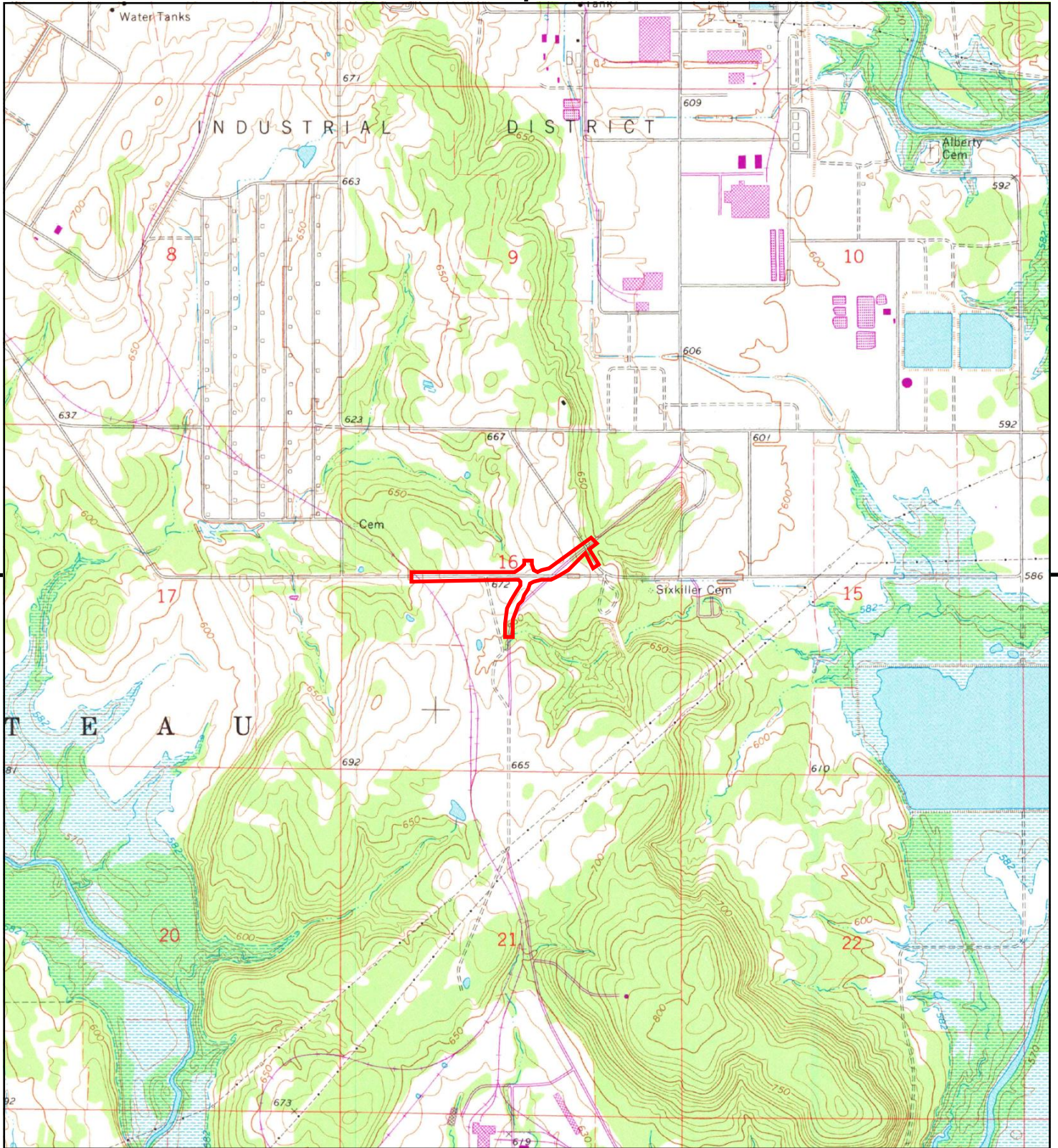
This report includes information from the following map sheet(s).



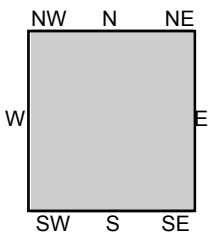
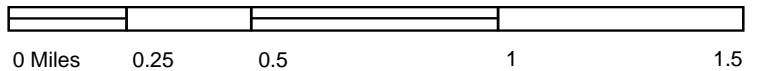
TP, Chouteau, 2012, 7.5-minute

**SITE NAME:** MAIP - Roundabout  
**ADDRESS:** 412B/E0555 Rd  
Pryor, OK 74361  
**CLIENT:** Olsson





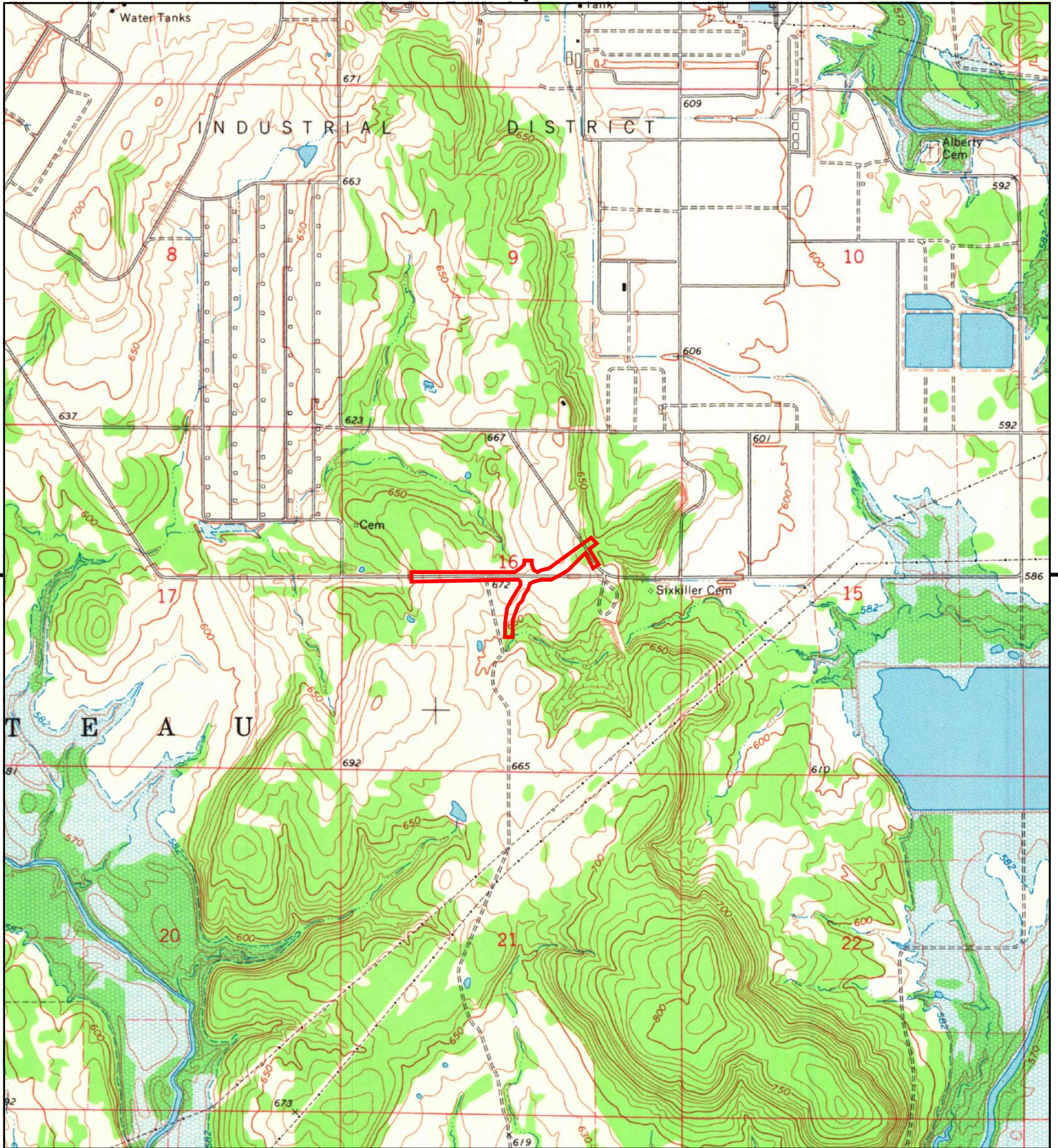
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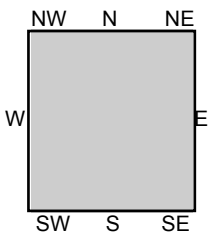
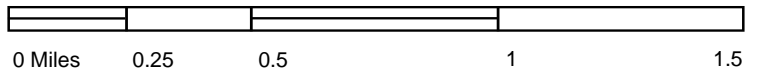
TP, Chouteau, 1982, 7.5-minute

**SITE NAME:** MAIP - Roundabout  
**ADDRESS:** 412B/E0555 Rd  
 Pryor, OK 74361  
**CLIENT:** Olsson





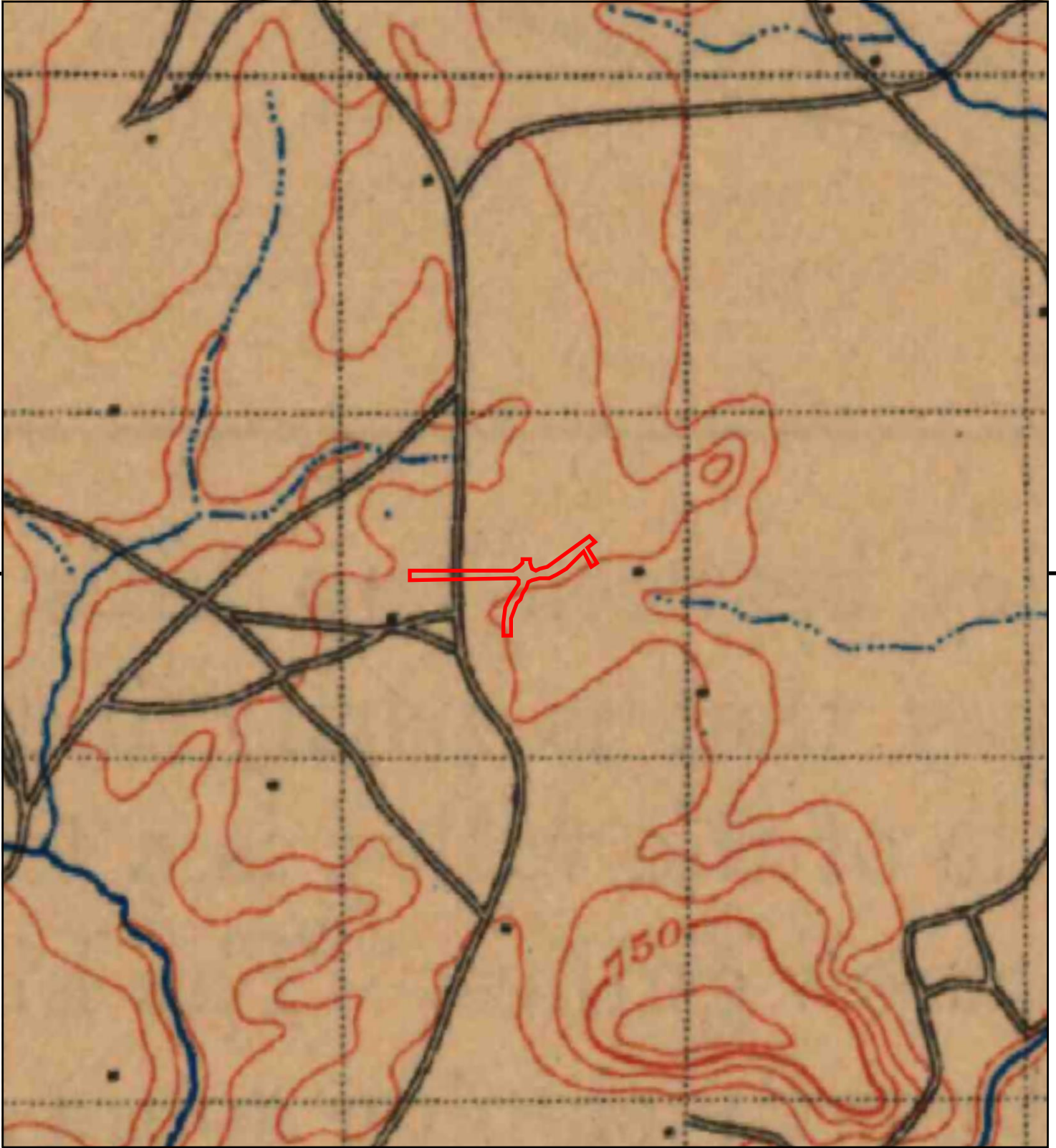
This report includes information from the following map sheet(s).



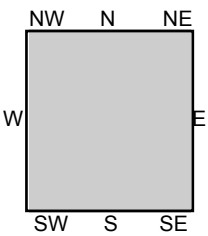
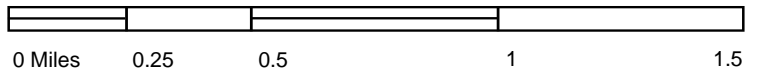
TP, Chouteau, 1970, 7.5-minute

**SITE NAME:** MAIP - Roundabout  
**ADDRESS:** 412B/E0555 Rd  
 Pryor, OK 74361  
**CLIENT:** Olsson





This report includes information from the following map sheet(s).

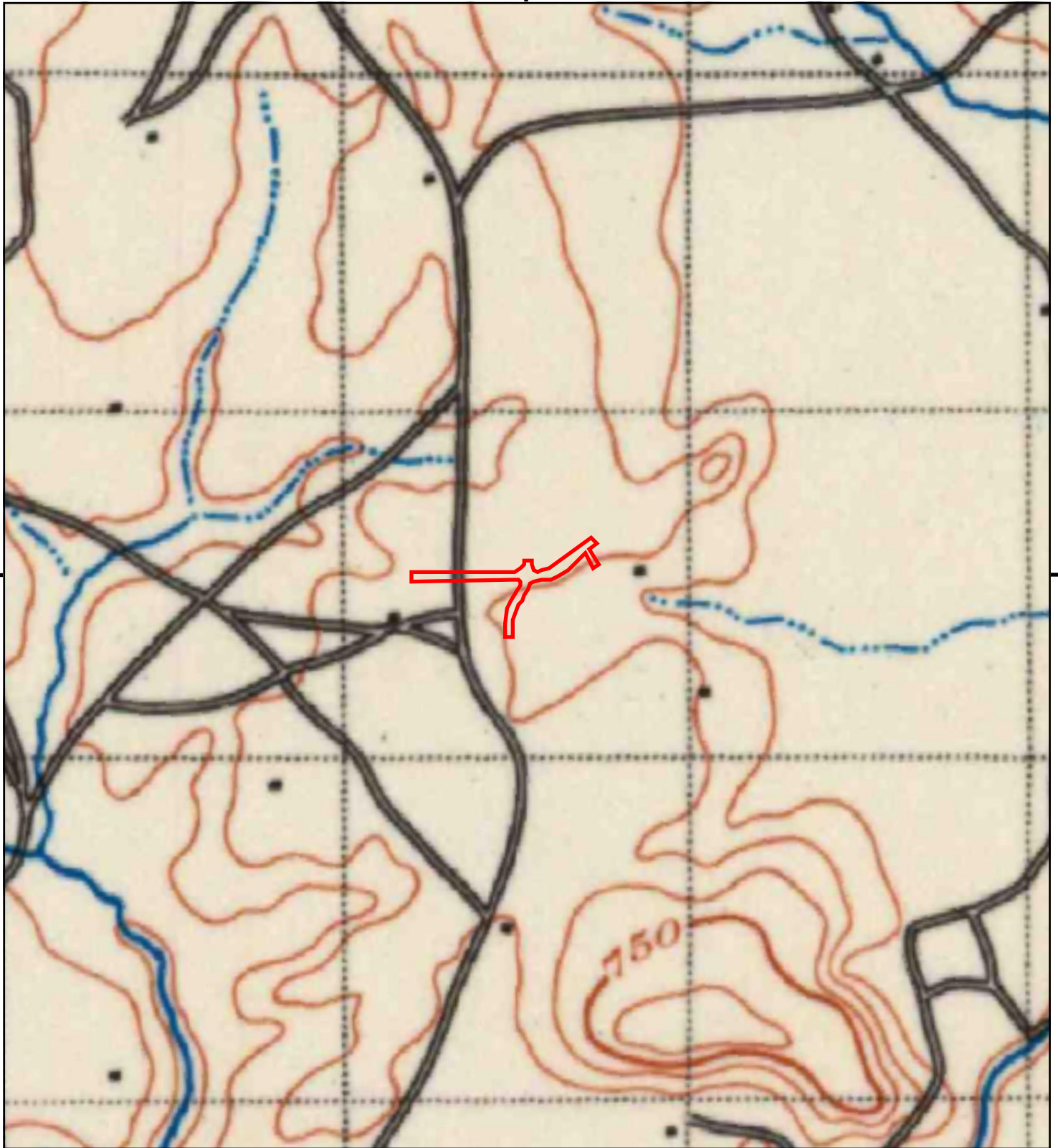


TP, Pryor, 1901, 30-minute

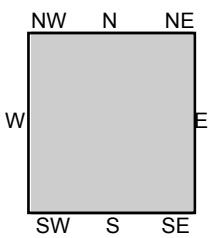
SITE NAME: MAIP - Roundabout  
ADDRESS: 412B/E0555 Rd  
Pryor, OK 74361  
CLIENT: Olsson







This report includes information from the following map sheet(s).



TP, Pryor, 1896, 30-minute

SITE NAME: MAIP - Roundabout  
ADDRESS: 412B/E0555 Rd  
Pryor, OK 74361  
CLIENT: Olsson



## **APPENDIX D**

### Environmental Database Report

**MAIP - Roundabout**

412B/E0555 Rd  
Pryor, OK 74361

Inquiry Number: 6814465.2s  
January 10, 2022

# The EDR Radius Map™ Report with GeoCheck®



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

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

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## 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 (E1527-21), 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.

### TARGET PROPERTY INFORMATION

#### ADDRESS

412B/E0555 RD  
PRYOR, OK 74361

#### COORDINATES

Latitude (North): 36.2141430 - 36° 12' 50.91"  
Longitude (West): 95.2870860 - 95° 17' 13.50"  
Universal Transverse Mercator: Zone 15  
UTM X (Meters): 294407.6  
UTM Y (Meters): 4009924.5  
Elevation: 672 ft. above sea level

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 14238164 CHOUTEAU, OK  
Version Date: 2019

### AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20150808  
Source: USDA

MAPPED SITES SUMMARY

Target Property Address:  
412B/E0555 RD  
PRYOR, OK 74361

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
--------	-----------	---------	-------------------	--------------------	----------------------------

NO MAPPED SITES FOUND

# EXECUTIVE SUMMARY

## TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

## DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

## STANDARD ENVIRONMENTAL RECORDS

### ***Lists of Federal NPL (Superfund) sites***

NPL..... National Priority List  
Proposed NPL..... Proposed National Priority List Sites  
NPL LIENS..... Federal Superfund Liens

### ***Lists of Federal Delisted NPL sites***

Delisted NPL..... National Priority List Deletions

### ***Lists of Federal sites subject to CERCLA removals and CERCLA orders***

FEDERAL FACILITY..... Federal Facility Site Information listing  
SEMS..... Superfund Enterprise Management System

### ***Lists of Federal CERCLA sites with NFRAP***

SEMS-ARCHIVE..... Superfund Enterprise Management System Archive

### ***Lists of Federal RCRA facilities undergoing Corrective Action***

CORRACTS..... Corrective Action Report

### ***Lists of Federal RCRA TSD facilities***

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

### ***Lists of Federal RCRA generators***

RCRA-LQG..... RCRA - Large Quantity Generators  
RCRA-SQG..... RCRA - Small Quantity Generators  
RCRA-VSQG..... RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

### ***Federal institutional controls / engineering controls registries***

LUCIS..... Land Use Control Information System

## EXECUTIVE SUMMARY

US ENG CONTROLS..... Engineering Controls Sites List  
US INST CONTROLS..... Institutional Controls Sites List

### ***Federal ERNS list***

ERNS..... Emergency Response Notification System

### ***Lists of state- and tribal hazardous waste facilities***

SHWS..... The Land Report

### ***Lists of state and tribal landfills and solid waste disposal facilities***

SWF/LF..... Permitted Solid Waste Disposal & Processing Facilities

### ***Lists of state and tribal leaking storage tanks***

LAST..... Leaking Aboveground Storage Tanks List  
LUST..... Leaking Underground Storage Tank List  
INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

### ***Lists of state and tribal registered storage tanks***

FEMA UST..... Underground Storage Tank Listing  
UST..... Underground Storage Tank Listing  
AST..... Aboveground Storage Tanks  
INDIAN UST..... Underground Storage Tanks on Indian Land

### ***State and tribal institutional control / engineering control registries***

INST CONTROL..... Institutional Control Sites

### ***Lists of state and tribal voluntary cleanup sites***

INDIAN VCP..... Voluntary Cleanup Priority Listing  
VCP..... Voluntary Cleanup Site Inventory

### ***Lists of state and tribal brownfield sites***

BROWNFIELDS..... Brownfield Sites

### **ADDITIONAL ENVIRONMENTAL RECORDS**

#### ***Local Brownfield lists***

US BROWNFIELDS..... A Listing of Brownfields Sites

#### ***Local Lists of Landfill / Solid Waste Disposal Sites***

SWRCY..... Recycling Facilities  
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands  
ODI..... Open Dump Inventory  
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations  
IHS OPEN DUMPS..... Open Dumps on Indian Land



## EXECUTIVE SUMMARY

### **Local Lists of Hazardous waste / Contaminated Sites**

US HIST CDL..... Delisted National Clandestine Laboratory Register  
US CDL..... National Clandestine Laboratory Register

### **Local Lists of Registered Storage Tanks**

HIST UST..... Underground Storage Tank List, List II Version

### **Local Land Records**

LIENS 2..... CERCLA Lien Information

### **Records of Emergency Release Reports**

HMIRS..... Hazardous Materials Information Reporting System  
OK COMPLAINT..... Oklahoma Complaint System Database

### **Other Ascertainable Records**

RCRA NonGen / NLR..... RCRA - Non Generators / No Longer Regulated  
FUDS..... Formerly Used Defense Sites  
DOD..... Department of Defense Sites  
SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing  
US FIN ASSUR..... Financial Assurance Information  
EPA WATCH LIST..... EPA WATCH LIST  
2020 COR ACTION..... 2020 Corrective Action Program List  
TSCA..... Toxic Substances Control Act  
TRIS..... Toxic Chemical Release Inventory System  
SSTS..... Section 7 Tracking Systems  
ROD..... Records Of Decision  
RMP..... Risk Management Plans  
RAATS..... RCRA Administrative Action Tracking System  
PRP..... Potentially Responsible Parties  
PADS..... PCB Activity Database System  
ICIS..... Integrated Compliance Information System  
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)  
MLTS..... Material Licensing Tracking System  
COAL ASH DOE..... Steam-Electric Plant Operation Data  
COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List  
PCB TRANSFORMER..... PCB Transformer Registration Database  
RADINFO..... Radiation Information Database  
HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing  
DOT OPS..... Incident and Accident Data  
CONSENT..... Superfund (CERCLA) Consent Decrees  
INDIAN RESERV..... Indian Reservations  
FUSRAP..... Formerly Utilized Sites Remedial Action Program  
UMTRA..... Uranium Mill Tailings Sites  
LEAD SMELTERS..... Lead Smelter Sites  
US AIRS..... Aerometric Information Retrieval System Facility Subsystem  
US MINES..... Mines Master Index File  
ABANDONED MINES..... Abandoned Mines  
FINDS..... Facility Index System/Facility Registry System

## EXECUTIVE SUMMARY

ECHO.....	Enforcement & Compliance History Information
DOCKET HWC.....	Hazardous Waste Compliance Docket Listing
UXO.....	Unexploded Ordnance Sites
FUELS PROGRAM.....	EPA Fuels Program Registered Listing
AIRS.....	Permitted AIRS Facility Listing
ASBESTOS.....	Asbestos Notification
DRYCLEANERS.....	PFAS Contamination Site Location Listing
DRYCLEANERS.....	Drycleaner Facility Listing
Financial Assurance.....	Financial Assurance Information Listing
TIER 2.....	Tier 2 Data Listing
UIC.....	Underground Injection Wells Database Listing
MINES MRDS.....	Mineral Resources Data System

### EDR HIGH RISK HISTORICAL RECORDS

#### *EDR Exclusive Records*

EDR MGP.....	EDR Proprietary Manufactured Gas Plants
EDR Hist Auto.....	EDR Exclusive Historical Auto Stations
EDR Hist Cleaner.....	EDR Exclusive Historical Cleaners

### EDR RECOVERED GOVERNMENT ARCHIVES

#### *Exclusive Recovered Govt. Archives*

RGA HWS.....	Recovered Government Archive State Hazardous Waste Facilities List
RGA LF.....	Recovered Government Archive Solid Waste Facilities List
RGA LUST.....	Recovered Government Archive Leaking Underground Storage Tank

### SURROUNDING SITES: SEARCH RESULTS

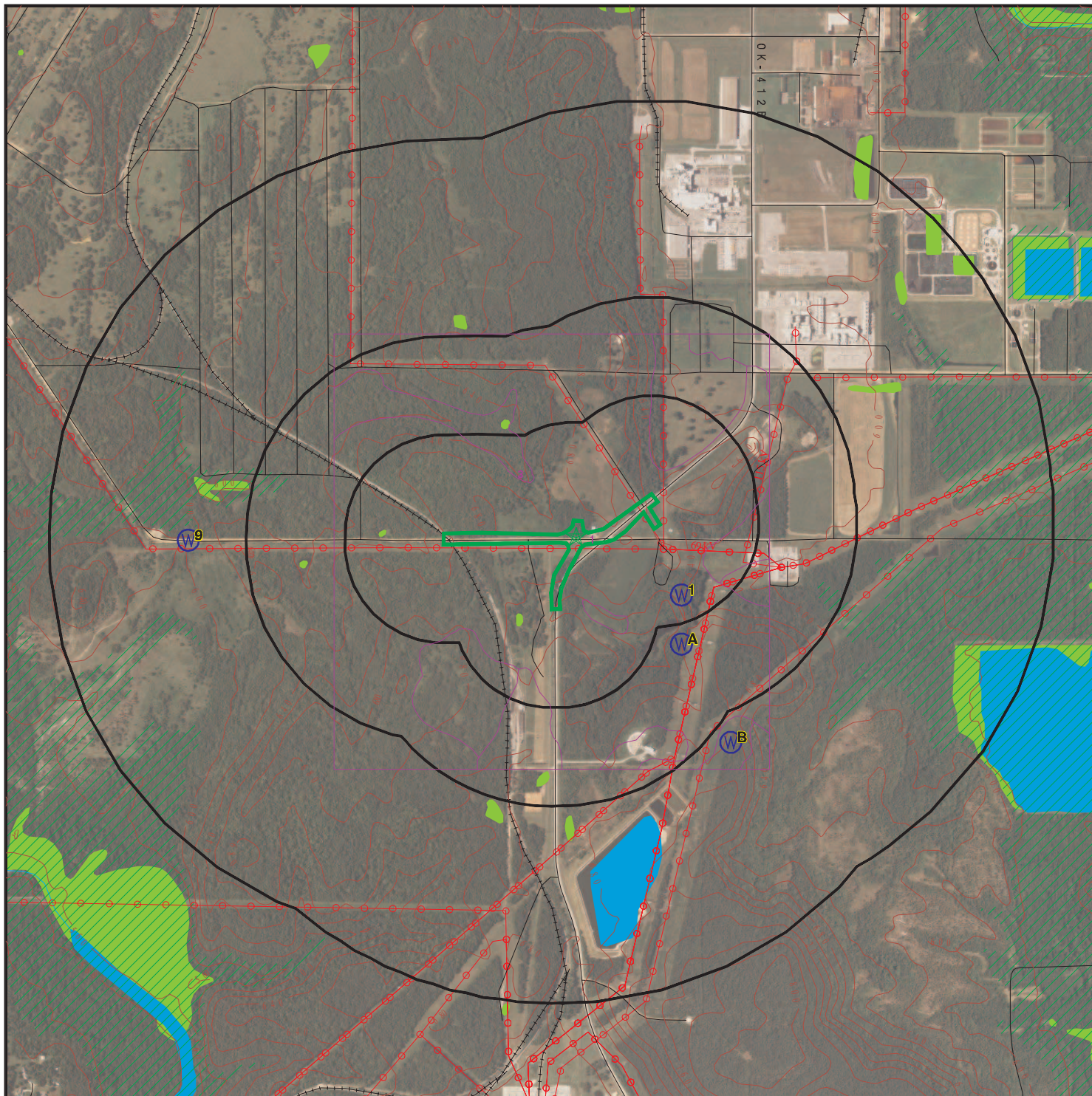
Surrounding sites were not identified.

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


## EXECUTIVE SUMMARY


There were no unmapped sites in this report.

# OVERVIEW MAP - 6814465.2S



 Target Property

 Sites at elevations higher than or equal to the target property

 Sites at elevations lower than the target property

 Manufactured Gas Plants

 National Priority List Sites

 Dept. Defense Sites

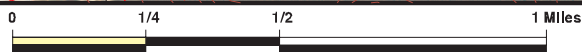
 Indian Reservations BIA

 Power transmission lines

 Special Flood Hazard Area (1%)

 0.2% Annual Chance Flood Hazard

 National Wetland Inventory

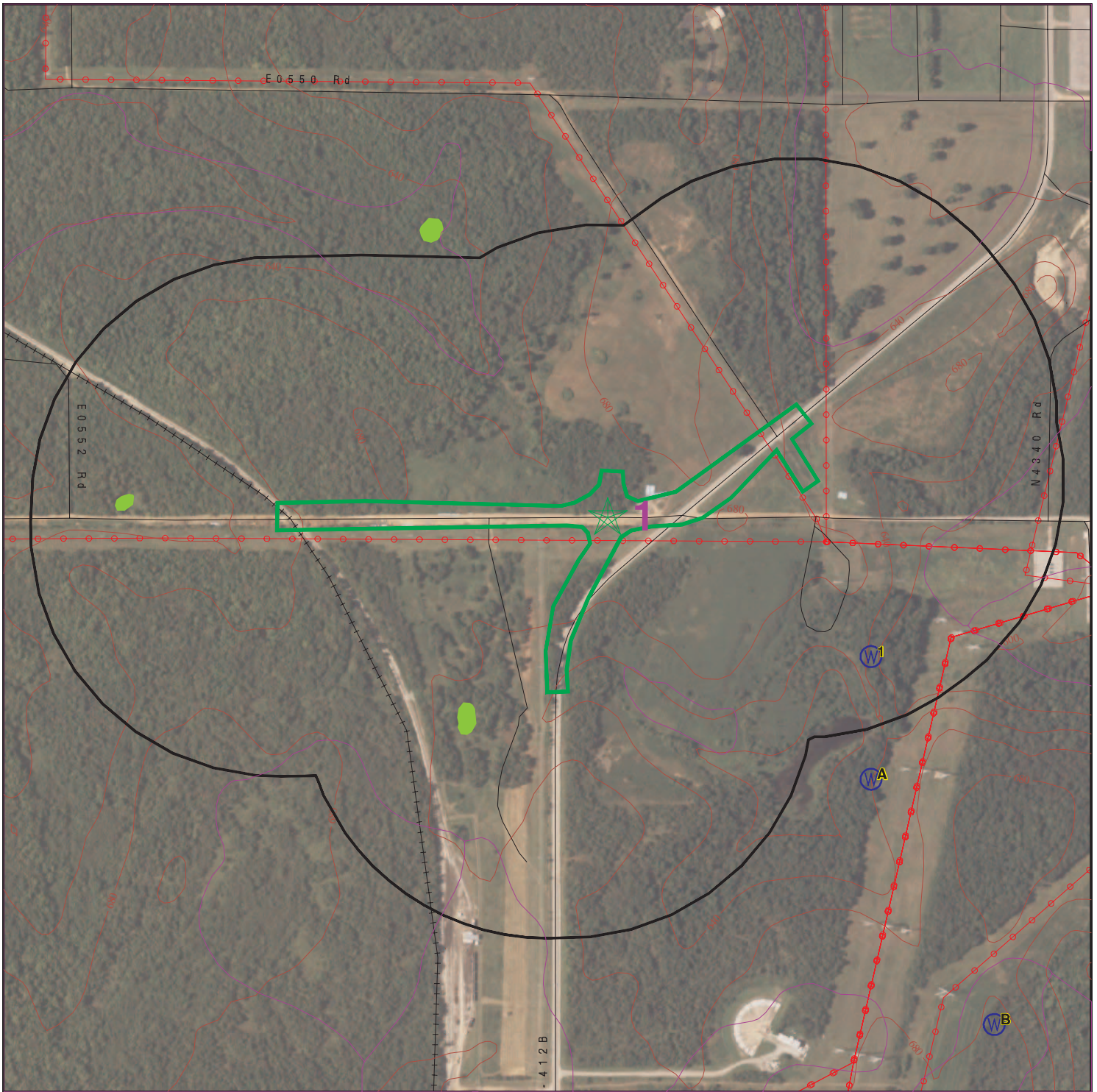









This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.






SITE NAME: MAIP - Roundabout  
 ADDRESS: 412B/E0555 Rd  
 Pryor OK 74361  
 LAT/LONG: 36.214143 / 95.287086

CLIENT: Olsson  
 CONTACT: Nathan Hillis  
 INQUIRY #: 6814465.2s  
 DATE: January 10, 2022 5:03 pm

# DETAIL MAP - 6814465.2S



-  Target Property
-  Sites at elevations higher than or equal to the target property
-  Sites at elevations lower than the target property
-  Manufactured Gas Plants
-  Sensitive Receptors
-  National Priority List Sites
-  Dept. Defense Sites

-  Indian Reservations BIA
-  Power transmission lines
-  Special Flood Hazard Area (1%)
-  0.2% Annual Chance Flood Hazard
-  National Wetland Inventory



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: MAIP - Roundabout  
 ADDRESS: 412B/E0555 Rd  
 Pryor OK 74361  
 LAT/LONG: 36.214143 / 95.287086

CLIENT: Olsson  
 CONTACT: Nathan Hillis  
 INQUIRY #: 6814465.2s  
 DATE: January 10, 2022 5:03 pm

## 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
<b><u>STANDARD ENVIRONMENTAL RECORDS</u></b>								
<b><i>Lists of Federal NPL (Superfund) sites</i></b>								
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
<b><i>Lists of Federal Delisted NPL sites</i></b>								
Delisted NPL	1.000		0	0	0	0	NR	0
<b><i>Lists of Federal sites subject to CERCLA removals and CERCLA orders</i></b>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<b><i>Lists of Federal CERCLA sites with NFRAP</i></b>								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
<b><i>Lists of Federal RCRA facilities undergoing Corrective Action</i></b>								
CORRACTS	1.000		0	0	0	0	NR	0
<b><i>Lists of Federal RCRA TSD facilities</i></b>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<b><i>Lists of Federal RCRA generators</i></b>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
<b><i>Federal institutional controls / engineering controls registries</i></b>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
<b><i>Federal ERNS list</i></b>								
ERNS	0.001		0	NR	NR	NR	NR	0
<b><i>Lists of state- and tribal hazardous waste facilities</i></b>								
SHWS	1.000		0	0	0	0	NR	0
<b><i>Lists of state and tribal landfills and solid waste disposal facilities</i></b>								
SWF/LF	0.500		0	0	0	NR	NR	0
<b><i>Lists of state and tribal leaking storage tanks</i></b>								
LAST	0.500		0	0	0	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
LUST	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
<b><i>Lists of state and tribal registered storage tanks</i></b>								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
<b><i>State and tribal institutional control / engineering control registries</i></b>								
INST CONTROL	0.500		0	0	0	NR	NR	0
<b><i>Lists of state and tribal voluntary cleanup sites</i></b>								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
<b><i>Lists of state and tribal brownfield sites</i></b>								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b><u>ADDITIONAL ENVIRONMENTAL RECORDS</u></b>								
<b><i>Local Brownfield lists</i></b>								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b><i>Local Lists of Landfill / Solid Waste Disposal Sites</i></b>								
SWRCY	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
<b><i>Local Lists of Hazardous waste / Contaminated Sites</i></b>								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
<b><i>Local Lists of Registered Storage Tanks</i></b>								
HIST UST	0.250		0	0	NR	NR	NR	0
<b><i>Local Land Records</i></b>								
LIENS 2	0.001		0	NR	NR	NR	NR	0
<b><i>Records of Emergency Release Reports</i></b>								
HMIRS	0.001		0	NR	NR	NR	NR	0
OK COMPLAINT	0.001		0	NR	NR	NR	NR	0
<b><i>Other Ascertainable Records</i></b>								
RCRA NonGen / NLR	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
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	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	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	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	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	0.001		0	NR	NR	NR	NR	0
ECHO	0.001		0	NR	NR	NR	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
AIRS	0.001		0	NR	NR	NR	NR	0
ASBESTOS	TP		NR	NR	NR	NR	NR	0
DRYCLEANERS	TP		NR	NR	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
TIER 2	0.001		0	NR	NR	NR	NR	0
UIC	0.001		0	NR	NR	NR	NR	0
MINES MRDS	0.001		0	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		0	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
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
<b><u>EDR RECOVERED GOVERNMENT ARCHIVES</u></b>								
<b><i>Exclusive Recovered Govt. Archives</i></b>								
RGA HWS	0.001		0	NR	NR	NR	NR	0
RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		0	0	0	0	0	0	0

**NOTES:**

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

NO SITES FOUND

Count: 0 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
NO SITES FOUND					

# 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.

## **STANDARD ENVIRONMENTAL RECORDS**

### ***Lists of Federal NPL (Superfund) sites***

#### **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: 10/20/2021	Source: EPA
Date Data Arrived at EDR: 11/05/2021	Telephone: N/A
Date Made Active in Reports: 11/29/2021	Last EDR Contact: 12/29/2021
Number of Days to Update: 24	Next Scheduled EDR Contact: 04/11/2022
	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 6  
Telephone: 214-655-6659

EPA Region 3  
Telephone 215-814-5418

EPA Region 7  
Telephone: 913-551-7247

EPA Region 4  
Telephone 404-562-8033

EPA Region 8  
Telephone: 303-312-6774

EPA Region 5  
Telephone 312-886-6686

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: 10/20/2021	Source: EPA
Date Data Arrived at EDR: 11/05/2021	Telephone: N/A
Date Made Active in Reports: 11/29/2021	Last EDR Contact: 12/29/2021
Number of Days to Update: 24	Next Scheduled EDR Contact: 04/11/2022
	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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

## ***Lists of Federal Delisted NPL sites***

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: 10/20/2021  
Date Data Arrived at EDR: 11/05/2021  
Date Made Active in Reports: 11/29/2021  
Number of Days to Update: 24

Source: EPA  
Telephone: N/A  
Last EDR Contact: 12/29/2021  
Next Scheduled EDR Contact: 04/11/2022  
Data Release Frequency: Quarterly

## ***Lists of Federal sites subject to CERCLA removals and CERCLA orders***

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: 05/25/2021  
Date Data Arrived at EDR: 06/24/2021  
Date Made Active in Reports: 09/20/2021  
Number of Days to Update: 88

Source: Environmental Protection Agency  
Telephone: 703-603-8704  
Last EDR Contact: 12/29/2021  
Next Scheduled EDR Contact: 04/11/2022  
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 known 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: 10/20/2021  
Date Data Arrived at EDR: 11/05/2021  
Date Made Active in Reports: 11/29/2021  
Number of Days to Update: 24

Source: EPA  
Telephone: 800-424-9346  
Last EDR Contact: 12/01/2021  
Next Scheduled EDR Contact: 01/24/2022  
Data Release Frequency: Quarterly

## ***Lists of Federal CERCLA sites with NFRAP***

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 10/20/2021	Source: EPA
Date Data Arrived at EDR: 11/05/2021	Telephone: 800-424-9346
Date Made Active in Reports: 11/29/2021	Last EDR Contact: 12/01/2021
Number of Days to Update: 24	Next Scheduled EDR Contact: 01/24/2022
	Data Release Frequency: Quarterly

## ***Lists of Federal RCRA facilities undergoing Corrective Action***

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 09/13/2021	Source: EPA
Date Data Arrived at EDR: 09/15/2021	Telephone: 800-424-9346
Date Made Active in Reports: 10/12/2021	Last EDR Contact: 12/17/2021
Number of Days to Update: 27	Next Scheduled EDR Contact: 04/04/2022
	Data Release Frequency: Quarterly

## ***Lists of Federal RCRA TSD facilities***

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: 09/13/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/15/2021	Telephone: 214-665-6444
Date Made Active in Reports: 10/12/2021	Last EDR Contact: 12/17/2021
Number of Days to Update: 27	Next Scheduled EDR Contact: 04/04/2022
	Data Release Frequency: Quarterly

## ***Lists of Federal RCRA generators***

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: 09/13/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/15/2021	Telephone: 214-665-6444
Date Made Active in Reports: 10/12/2021	Last EDR Contact: 12/17/2021
Number of Days to Update: 27	Next Scheduled EDR Contact: 04/04/2022
	Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 09/13/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/15/2021	Telephone: 214-665-6444
Date Made Active in Reports: 10/12/2021	Last EDR Contact: 12/17/2021
Number of Days to Update: 27	Next Scheduled EDR Contact: 04/04/2022
	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: 09/13/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/15/2021	Telephone: 214-665-6444
Date Made Active in Reports: 10/12/2021	Last EDR Contact: 12/17/2021
Number of Days to Update: 27	Next Scheduled EDR Contact: 04/04/2022
	Data Release Frequency: Quarterly

## ***Federal institutional controls / engineering controls registries***

### 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: 07/12/2021	Source: Department of the Navy
Date Data Arrived at EDR: 08/06/2021	Telephone: 843-820-7326
Date Made Active in Reports: 10/22/2021	Last EDR Contact: 11/08/2021
Number of Days to Update: 77	Next Scheduled EDR Contact: 02/21/2022
	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: 08/23/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/23/2021	Telephone: 703-603-0695
Date Made Active in Reports: 11/12/2021	Last EDR Contact: 11/18/2021
Number of Days to Update: 81	Next Scheduled EDR Contact: 03/06/2022
	Data Release Frequency: Varies

### US INST CONTROLS: Institutional Controls Sites List

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: 08/23/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/23/2021	Telephone: 703-603-0695
Date Made Active in Reports: 11/12/2021	Last EDR Contact: 11/19/2021
Number of Days to Update: 81	Next Scheduled EDR Contact: 03/07/2022
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***Federal ERNS list***

### **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: 09/13/2021

Source: National Response Center, United States Coast Guard

Date Data Arrived at EDR: 09/21/2021

Telephone: 202-267-2180

Date Made Active in Reports: 12/15/2021

Last EDR Contact: 12/16/2021

Number of Days to Update: 85

Next Scheduled EDR Contact: 04/04/2022

Data Release Frequency: Quarterly

## ***Lists of state- and tribal hazardous waste facilities***

### **SHWS: Voluntary Cleanup & Superfund Site Status Report**

Land restoration projects carried out in several DEQ programs.

Date of Government Version: 06/01/2020

Source: Department of Environmental Quality

Date Data Arrived at EDR: 08/11/2020

Telephone: 405-702-5100

Date Made Active in Reports: 11/02/2020

Last EDR Contact: 11/10/2021

Number of Days to Update: 83

Next Scheduled EDR Contact: 02/21/2022

Data Release Frequency: No Update Planned

## ***Lists of state and tribal landfills and solid waste disposal facilities***

### **SWF/LF: Permitted Solid Waste Disposal & Processing Facilities**

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: 09/20/2021

Source: Department of Environmental Quality

Date Data Arrived at EDR: 09/22/2021

Telephone: 405-702-5184

Date Made Active in Reports: 12/13/2021

Last EDR Contact: 12/17/2021

Number of Days to Update: 82

Next Scheduled EDR Contact: 04/04/2022

Data Release Frequency: Annually

## ***Lists of state and tribal leaking storage tanks***

### **LAST: Leaking Aboveground Storage Tanks List**

Leaking aboveground storage tank site locations.

Date of Government Version: 09/06/2021

Source: Oklahoma Corporation Commission

Date Data Arrived at EDR: 09/22/2021

Telephone: 405-522-4640

Date Made Active in Reports: 12/13/2021

Last EDR Contact: 12/17/2021

Number of Days to Update: 82

Next Scheduled EDR Contact: 04/04/2022

Data Release Frequency: Varies

### **LUST: Leaking Underground Storage Tank List**

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 09/06/2021

Source: Oklahoma Corporation Commission

Date Data Arrived at EDR: 09/22/2021

Telephone: 405-521-3107

Date Made Active in Reports: 12/13/2021

Last EDR Contact: 12/17/2021

Number of Days to Update: 82

Next Scheduled EDR Contact: 04/04/2022

Data Release Frequency: Varies

### **INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land**

A listing of leaking underground storage tank locations on Indian Land.



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/28/2021	Source: EPA Region 1
Date Data Arrived at EDR: 06/11/2021	Telephone: 617-918-1313
Date Made Active in Reports: 09/07/2021	Last EDR Contact: 11/15/2021
Number of Days to Update: 88	Next Scheduled EDR Contact: 01/31/2022
	Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 05/17/2021	Source: EPA Region 6
Date Data Arrived at EDR: 06/11/2021	Telephone: 214-665-6597
Date Made Active in Reports: 09/07/2021	Last EDR Contact: 11/15/2021
Number of Days to Update: 88	Next Scheduled EDR Contact: 01/31/2022
	Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 05/28/2021	Source: EPA Region 4
Date Data Arrived at EDR: 06/22/2021	Telephone: 404-562-8677
Date Made Active in Reports: 09/20/2021	Last EDR Contact: 11/15/2021
Number of Days to Update: 90	Next Scheduled EDR Contact: 01/31/2022
	Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land  
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/06/2021	Source: EPA, Region 5
Date Data Arrived at EDR: 06/11/2021	Telephone: 312-886-7439
Date Made Active in Reports: 09/07/2021	Last EDR Contact: 11/15/2021
Number of Days to Update: 88	Next Scheduled EDR Contact: 01/31/2022
	Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/27/2021	Source: EPA Region 10
Date Data Arrived at EDR: 06/11/2021	Telephone: 206-553-2857
Date Made Active in Reports: 09/07/2021	Last EDR Contact: 11/15/2021
Number of Days to Update: 88	Next Scheduled EDR Contact: 01/31/2022
	Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 05/27/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/11/2021	Telephone: 415-972-3372
Date Made Active in Reports: 09/07/2021	Last EDR Contact: 11/15/2021
Number of Days to Update: 88	Next Scheduled EDR Contact: 01/31/2022
	Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 05/27/2021	Source: EPA Region 8
Date Data Arrived at EDR: 06/11/2021	Telephone: 303-312-6271
Date Made Active in Reports: 09/07/2021	Last EDR Contact: 11/15/2021
Number of Days to Update: 88	Next Scheduled EDR Contact: 01/31/2022
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 06/01/2021	Source: EPA Region 7
Date Data Arrived at EDR: 06/11/2021	Telephone: 913-551-7003
Date Made Active in Reports: 09/07/2021	Last EDR Contact: 11/15/2021
Number of Days to Update: 88	Next Scheduled EDR Contact: 01/31/2022
	Data Release Frequency: Varies

## ***Lists of state and tribal registered storage tanks***

FEMA UST: Underground Storage Tank Listing  
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/29/2021	Source: FEMA
Date Data Arrived at EDR: 02/17/2021	Telephone: 202-646-5797
Date Made Active in Reports: 03/22/2021	Last EDR Contact: 12/18/2021
Number of Days to Update: 33	Next Scheduled EDR Contact: 04/18/2022
	Data Release Frequency: Varies

UST: Underground Storage Tank Listing  
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: 09/06/2021	Source: Oklahoma Corporation Commission
Date Data Arrived at EDR: 09/22/2021	Telephone: 405-521-3107
Date Made Active in Reports: 12/13/2021	Last EDR Contact: 12/17/2021
Number of Days to Update: 82	Next Scheduled EDR Contact: 04/04/2022
	Data Release Frequency: Varies

AST: Aboveground Storage Tanks  
Registered Aboveground Storage Tanks.

Date of Government Version: 09/06/2021	Source: Oklahoma Corporation Commission
Date Data Arrived at EDR: 09/22/2021	Telephone: 405-521-3107
Date Made Active in Reports: 12/13/2021	Last EDR Contact: 12/17/2021
Number of Days to Update: 82	Next Scheduled EDR Contact: 04/04/2022
	Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land  
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/27/2021	Source: EPA Region 10
Date Data Arrived at EDR: 06/11/2021	Telephone: 206-553-2857
Date Made Active in Reports: 09/07/2021	Last EDR Contact: 11/15/2021
Number of Days to Update: 88	Next Scheduled EDR Contact: 01/31/2022
	Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land  
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/28/2021	Source: EPA, Region 1
Date Data Arrived at EDR: 06/11/2021	Telephone: 617-918-1313
Date Made Active in Reports: 09/07/2021	Last EDR Contact: 11/15/2021
Number of Days to Update: 88	Next Scheduled EDR Contact: 01/31/2022
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 05/27/2021	Source: EPA Region 9
Date Data Arrived at EDR: 06/11/2021	Telephone: 415-972-3368
Date Made Active in Reports: 09/07/2021	Last EDR Contact: 11/15/2021
Number of Days to Update: 88	Next Scheduled EDR Contact: 01/31/2022
	Data Release Frequency: Varies

## INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 05/27/2021	Source: EPA Region 8
Date Data Arrived at EDR: 06/11/2021	Telephone: 303-312-6137
Date Made Active in Reports: 09/07/2021	Last EDR Contact: 11/15/2021
Number of Days to Update: 88	Next Scheduled EDR Contact: 01/31/2022
	Data Release Frequency: Varies

## INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 06/01/2021	Source: EPA Region 7
Date Data Arrived at EDR: 06/11/2021	Telephone: 913-551-7003
Date Made Active in Reports: 09/07/2021	Last EDR Contact: 11/15/2021
Number of Days to Update: 88	Next Scheduled EDR Contact: 01/31/2022
	Data Release Frequency: Varies

## INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/06/2021	Source: EPA Region 5
Date Data Arrived at EDR: 06/11/2021	Telephone: 312-886-6136
Date Made Active in Reports: 09/07/2021	Last EDR Contact: 11/15/2021
Number of Days to Update: 88	Next Scheduled EDR Contact: 01/31/2022
	Data Release Frequency: Varies

## INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations).

Date of Government Version: 05/28/2021	Source: EPA Region 4
Date Data Arrived at EDR: 06/22/2021	Telephone: 404-562-9424
Date Made Active in Reports: 09/20/2021	Last EDR Contact: 11/15/2021
Number of Days to Update: 90	Next Scheduled EDR Contact: 01/31/2022
	Data Release Frequency: Varies

## INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/17/2021	Source: EPA Region 6
Date Data Arrived at EDR: 06/11/2021	Telephone: 214-665-7591
Date Made Active in Reports: 09/07/2021	Last EDR Contact: 11/15/2021
Number of Days to Update: 88	Next Scheduled EDR Contact: 01/31/2022
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***State and tribal institutional control / engineering control registries***

INST CONTROL: Institutional Control Sites  
Sites with institutional controls in place.

Date of Government Version: 08/07/2021	Source: Department of Environmental Quality
Date Data Arrived at EDR: 08/10/2021	Telephone: 405-702-5100
Date Made Active in Reports: 11/04/2021	Last EDR Contact: 11/10/2021
Number of Days to Update: 86	Next Scheduled EDR Contact: 02/21/2022
	Data Release Frequency: Quarterly

## ***Lists of state and tribal voluntary cleanup sites***

INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 07/08/2021
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: Varies

VCP: Voluntary Cleanup Site Inventory

Investigations and cleanups by groups or individuals participating in the Voluntary Cleanup Program (VCP).

Date of Government Version: 08/07/2021	Source: Department of Environmental Quality
Date Data Arrived at EDR: 08/10/2021	Telephone: 405-702-5100
Date Made Active in Reports: 11/04/2021	Last EDR Contact: 11/10/2021
Number of Days to Update: 86	Next Scheduled EDR Contact: 02/21/2022
	Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015	Source: EPA, Region 1
Date Data Arrived at EDR: 09/29/2015	Telephone: 617-918-1102
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 12/14/2021
Number of Days to Update: 142	Next Scheduled EDR Contact: 04/04/2022
	Data Release Frequency: Varies

## ***Lists of state and tribal brownfield sites***

BROWNFIELDS: Brownfield Sites

Brownfields are defined by Oklahoma law as abandoned, idled or under used industrial or commercial facilities or other real property at which expansion or redevelopment of the real property is complicated by environmental contamination caused by regulated substances. This program provides a means for private parties and government entities to voluntarily investigate and if warranted, clean up properties that may be contaminated with hazardous wastes. The formal Brownfields Program provides specific state liability relief and protects the property from federal Superfund actions.

Date of Government Version: 09/07/2012	Source: Department of Environmental Quality
Date Data Arrived at EDR: 09/07/2012	Telephone: 405-702-5100
Date Made Active in Reports: 10/10/2012	Last EDR Contact: 11/08/2021
Number of Days to Update: 33	Next Scheduled EDR Contact: 02/21/2022
	Data Release Frequency: No Update Planned

BROWNFIELDS 2: Brownfields Public Record Listing

The Brownfields program provides a means for private parties and government entities to voluntarily investigate and if warranted, clean up properties that may be contaminated with hazardous wastes. The formal Brownfields Program provides specific state liability relief and protects the property from federal Superfund actions.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/12/2021  
Date Data Arrived at EDR: 08/11/2021  
Date Made Active in Reports: 11/04/2021  
Number of Days to Update: 85

Source: Department of Environmental Quality  
Telephone: 405-702-5100  
Last EDR Contact: 11/09/2021  
Next Scheduled EDR Contact: 02/21/2022  
Data Release Frequency: Varies

## **ADDITIONAL ENVIRONMENTAL RECORDS**

### ***Local Brownfield lists***

#### **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: 06/10/2021  
Date Data Arrived at EDR: 06/10/2021  
Date Made Active in Reports: 08/17/2021  
Number of Days to Update: 68

Source: Environmental Protection Agency  
Telephone: 202-566-2777  
Last EDR Contact: 12/08/2021  
Next Scheduled EDR Contact: 03/28/2022  
Data Release Frequency: Semi-Annually

### ***Local Lists of Landfill / Solid Waste Disposal Sites***

#### **SWRCY: Recycling Facilities**

A listing of recycling facility locations.

Date of Government Version: 07/10/2019  
Date Data Arrived at EDR: 07/17/2019  
Date Made Active in Reports: 08/29/2019  
Number of Days to Update: 43

Source: Department of Environmental Quality  
Telephone: 405-702-5100  
Last EDR Contact: 10/15/2021  
Next Scheduled EDR Contact: 01/24/2022  
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: 10/22/2021  
Next Scheduled EDR Contact: 02/07/2022  
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: 10/14/2021  
Next Scheduled EDR Contact: 01/31/2022  
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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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 Services, Indian Health Service  
Telephone: 301-443-1452  
Last EDR Contact: 10/28/2021  
Next Scheduled EDR Contact: 02/07/2022  
Data Release Frequency: Varies

## **Local Lists of Hazardous waste / Contaminated Sites**

### 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: 05/18/2021  
Date Data Arrived at EDR: 05/18/2021  
Date Made Active in Reports: 08/03/2021  
Number of Days to Update: 77

Source: Drug Enforcement Administration  
Telephone: 202-307-1000  
Last EDR Contact: 11/16/2021  
Next Scheduled EDR Contact: 03/07/2022  
Data Release Frequency: No Update Planned

### 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: 05/18/2021  
Date Data Arrived at EDR: 05/18/2021  
Date Made Active in Reports: 08/03/2021  
Number of Days to Update: 77

Source: Drug Enforcement Administration  
Telephone: 202-307-1000  
Last EDR Contact: 11/16/2021  
Next Scheduled EDR Contact: 03/07/2022  
Data Release Frequency: Quarterly

## **Local Lists of Registered Storage Tanks**

### HIST UST: Underground Storage Tank List, List II Version

This underground storage tank listing includes tank information through March 2003. This listing is no longer updated by the Oklahoma Corporation Commission.

Date of Government Version: 03/21/2003  
Date Data Arrived at EDR: 04/28/2003  
Date Made Active in Reports: 05/27/2003  
Number of Days to Update: 29

Source: Oklahoma Corporation Commission  
Telephone: 405-521-3107  
Last EDR Contact: 01/19/2009  
Next Scheduled EDR Contact: 04/19/2009  
Data Release Frequency: No Update Planned

## **Local Land Records**

### 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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/20/2021  
Date Data Arrived at EDR: 11/05/2021  
Date Made Active in Reports: 11/29/2021  
Number of Days to Update: 24

Source: Environmental Protection Agency  
Telephone: 202-564-6023  
Last EDR Contact: 12/29/2021  
Next Scheduled EDR Contact: 04/11/2022  
Data Release Frequency: Semi-Annually

## **Records of Emergency Release Reports**

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 09/12/2021  
Date Data Arrived at EDR: 09/13/2021  
Date Made Active in Reports: 09/28/2021  
Number of Days to Update: 15

Source: U.S. Department of Transportation  
Telephone: 202-366-4555  
Last EDR Contact: 12/16/2021  
Next Scheduled EDR Contact: 04/04/2022  
Data Release Frequency: Quarterly

OK COMPLAINT: Oklahoma Complaint System Database

Environmental complaints reported to the Oklahoma Corporation Commission.

Date of Government Version: 06/30/2021  
Date Data Arrived at EDR: 07/28/2021  
Date Made Active in Reports: 10/28/2021  
Number of Days to Update: 92

Source: Oklahoma Conservation Commission  
Telephone: 405-521-4828  
Last EDR Contact: 11/08/2021  
Next Scheduled EDR Contact: 02/21/2022  
Data Release Frequency: Annually

## **Other Ascertainable Records**

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: 09/13/2021  
Date Data Arrived at EDR: 09/15/2021  
Date Made Active in Reports: 10/12/2021  
Number of Days to Update: 27

Source: Environmental Protection Agency  
Telephone: 214-665-6444  
Last EDR Contact: 12/17/2021  
Next Scheduled EDR Contact: 04/04/2022  
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: 08/10/2021  
Date Data Arrived at EDR: 08/17/2021  
Date Made Active in Reports: 10/22/2021  
Number of Days to Update: 66

Source: U.S. Army Corps of Engineers  
Telephone: 202-528-4285  
Last EDR Contact: 11/16/2021  
Next Scheduled EDR Contact: 02/28/2022  
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: 10/15/2021  
Next Scheduled EDR Contact: 01/24/2022  
Data Release Frequency: Semi-Annually

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### 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	Source: U.S. Geological Survey
Date Data Arrived at EDR: 04/11/2018	Telephone: 888-275-8747
Date Made Active in Reports: 11/06/2019	Last EDR Contact: 01/07/2022
Number of Days to Update: 574	Next Scheduled EDR Contact: 04/18/2022
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/03/2017	Telephone: 615-532-8599
Date Made Active in Reports: 04/07/2017	Last EDR Contact: 11/08/2021
Number of Days to Update: 63	Next Scheduled EDR Contact: 02/21/2022
	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: 09/13/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/15/2021	Telephone: 202-566-1917
Date Made Active in Reports: 09/28/2021	Last EDR Contact: 12/17/2021
Number of Days to Update: 13	Next Scheduled EDR Contact: 04/04/2022
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/21/2014	Telephone: 617-520-3000
Date Made Active in Reports: 06/17/2014	Last EDR Contact: 11/01/2021
Number of Days to Update: 88	Next Scheduled EDR Contact: 02/14/2022
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/08/2018	Telephone: 703-308-4044
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 11/05/2021
Number of Days to Update: 73	Next Scheduled EDR Contact: 02/14/2022
	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	Source: EPA
Date Data Arrived at EDR: 06/17/2020	Telephone: 202-260-5521
Date Made Active in Reports: 09/10/2020	Last EDR Contact: 12/17/2021
Number of Days to Update: 85	Next Scheduled EDR Contact: 03/28/2022
	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: 12/31/2018	Source: EPA
Date Data Arrived at EDR: 08/14/2020	Telephone: 202-566-0250
Date Made Active in Reports: 11/04/2020	Last EDR Contact: 11/16/2021
Number of Days to Update: 82	Next Scheduled EDR Contact: 02/28/2022
	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: 07/19/2021	Source: EPA
Date Data Arrived at EDR: 07/19/2021	Telephone: 202-564-4203
Date Made Active in Reports: 10/12/2021	Last EDR Contact: 10/20/2021
Number of Days to Update: 85	Next Scheduled EDR Contact: 01/31/2022
	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: 10/20/2021	Source: EPA
Date Data Arrived at EDR: 11/05/2021	Telephone: 703-416-0223
Date Made Active in Reports: 11/29/2021	Last EDR Contact: 12/01/2021
Number of Days to Update: 24	Next Scheduled EDR Contact: 03/14/2022
	Data Release Frequency: Annually

## RMP: Risk Management Plans

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 10/20/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/05/2021	Telephone: 202-564-8600
Date Made Active in Reports: 11/12/2021	Last EDR Contact: 10/18/2021
Number of Days to Update: 7	Next Scheduled EDR Contact: 01/31/2022
	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	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	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: 10/20/2021	Source: EPA
Date Data Arrived at EDR: 11/05/2021	Telephone: 202-564-6023
Date Made Active in Reports: 12/15/2021	Last EDR Contact: 12/01/2021
Number of Days to Update: 40	Next Scheduled EDR Contact: 02/14/2022
	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: 11/19/2020	Source: EPA
Date Data Arrived at EDR: 01/08/2021	Telephone: 202-566-0500
Date Made Active in Reports: 03/22/2021	Last EDR Contact: 01/07/2022
Number of Days to Update: 73	Next Scheduled EDR Contact: 04/18/2022
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/23/2016	Telephone: 202-564-2501
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 12/29/2021
Number of Days to Update: 79	Next Scheduled EDR Contact: 04/18/2022
	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	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	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)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	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: 07/29/2021	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 08/24/2021	Telephone: 301-415-7169
Date Made Active in Reports: 11/19/2021	Last EDR Contact: 10/18/2021
Number of Days to Update: 87	Next Scheduled EDR Contact: 01/31/2022
	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: 12/31/2019	Source: Department of Energy
Date Data Arrived at EDR: 12/01/2020	Telephone: 202-586-8719
Date Made Active in Reports: 02/09/2021	Last EDR Contact: 11/30/2021
Number of Days to Update: 70	Next Scheduled EDR Contact: 03/14/2022
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/05/2019	Telephone: N/A
Date Made Active in Reports: 11/11/2019	Last EDR Contact: 12/02/2021
Number of Days to Update: 251	Next Scheduled EDR Contact: 03/14/2022
	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: 09/13/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/06/2019	Telephone: 202-566-0517
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 11/05/2021
Number of Days to Update: 96	Next Scheduled EDR Contact: 02/14/2022
	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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 12/27/2021  
Next Scheduled EDR Contact: 04/11/2022  
Data Release Frequency: Quarterly

## HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative 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: 12/17/2007  
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 Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020  
Date Data Arrived at EDR: 01/28/2020  
Date Made Active in Reports: 04/17/2020  
Number of Days to Update: 80

Source: Department of Transportation, Office of Pipeline Safety  
Telephone: 202-366-4595  
Last EDR Contact: 10/26/2021  
Next Scheduled EDR Contact: 02/07/2022  
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: 06/30/2021  
Date Data Arrived at EDR: 07/14/2021  
Date Made Active in Reports: 07/16/2021  
Number of Days to Update: 2

Source: Department of Justice, Consent Decree Library  
Telephone: Varies  
Last EDR Contact: 01/03/2022  
Next Scheduled EDR Contact: 04/18/2022  
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: 12/31/2019  
Date Data Arrived at EDR: 09/15/2021  
Date Made Active in Reports: 12/14/2021  
Number of Days to Update: 90

Source: EPA/NTIS  
Telephone: 800-424-9346  
Last EDR Contact: 12/17/2021  
Next Scheduled EDR Contact: 04/04/2022  
Data Release Frequency: Biennially

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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	Source: USGS
Date Data Arrived at EDR: 07/14/2015	Telephone: 202-208-3710
Date Made Active in Reports: 01/10/2017	Last EDR Contact: 01/04/2022
Number of Days to Update: 546	Next Scheduled EDR Contact: 04/18/2022
	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: 07/26/2021	Source: Department of Energy
Date Data Arrived at EDR: 07/27/2021	Telephone: 202-586-3559
Date Made Active in Reports: 10/22/2021	Last EDR Contact: 11/01/2021
Number of Days to Update: 87	Next Scheduled EDR Contact: 02/14/2022
	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: 08/30/2019	Source: Department of Energy
Date Data Arrived at EDR: 11/15/2019	Telephone: 505-845-0011
Date Made Active in Reports: 01/28/2020	Last EDR Contact: 12/09/2021
Number of Days to Update: 74	Next Scheduled EDR Contact: 02/28/2022
	Data Release Frequency: Varies

## LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 10/20/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/05/2021	Telephone: 703-603-8787
Date Made Active in Reports: 11/29/2021	Last EDR Contact: 12/29/2021
Number of Days to Update: 24	Next Scheduled EDR Contact: 04/11/2022
	Data Release Frequency: Varies

## LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001	Source: American Journal of Public Health
Date Data Arrived at EDR: 10/27/2010	Telephone: 703-305-6451
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 12/02/2009
Number of Days to Update: 36	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

## US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/12/2016  
Date Data Arrived at EDR: 10/26/2016  
Date Made Active in Reports: 02/03/2017  
Number of Days to Update: 100

Source: EPA  
Telephone: 202-564-2496  
Last EDR Contact: 09/26/2017  
Next Scheduled EDR Contact: 01/08/2018  
Data Release Frequency: Annually

## US AIRS MINOR: Air Facility System Data A listing of minor source facilities.

Date of Government Version: 10/12/2016  
Date Data Arrived at EDR: 10/26/2016  
Date Made Active in Reports: 02/03/2017  
Number of Days to Update: 100

Source: EPA  
Telephone: 202-564-2496  
Last EDR Contact: 09/26/2017  
Next Scheduled EDR Contact: 01/08/2018  
Data Release Frequency: Annually

## US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/09/2021  
Date Data Arrived at EDR: 08/24/2021  
Date Made Active in Reports: 11/19/2021  
Number of Days to Update: 87

Source: Department of Labor, Mine Safety and Health Administration  
Telephone: 303-231-5959  
Last EDR Contact: 11/22/2021  
Next Scheduled EDR Contact: 03/07/2022  
Data Release Frequency: Semi-Annually

## MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 06/30/2021  
Date Data Arrived at EDR: 07/01/2021  
Date Made Active in Reports: 09/28/2021  
Number of Days to Update: 89

Source: DOL, Mine Safety & Health Admi  
Telephone: 202-693-9424  
Last EDR Contact: 12/20/2021  
Next Scheduled EDR Contact: 03/14/2022  
Data Release Frequency: Quarterly

## US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 05/06/2020  
Date Data Arrived at EDR: 05/27/2020  
Date Made Active in Reports: 08/13/2020  
Number of Days to Update: 78

Source: USGS  
Telephone: 703-648-7709  
Last EDR Contact: 11/22/2021  
Next Scheduled EDR Contact: 03/07/2022  
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: 11/22/2021  
Next Scheduled EDR Contact: 03/07/2022  
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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/14/2021  
Date Data Arrived at EDR: 09/15/2021  
Date Made Active in Reports: 12/15/2021  
Number of Days to Update: 91

Source: Department of Interior  
Telephone: 202-208-2609  
Last EDR Contact: 12/14/2021  
Next Scheduled EDR Contact: 03/21/2022  
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: 05/05/2021  
Date Data Arrived at EDR: 05/18/2021  
Date Made Active in Reports: 08/17/2021  
Number of Days to Update: 91

Source: EPA  
Telephone: (214) 665-2200  
Last EDR Contact: 11/22/2021  
Next Scheduled EDR Contact: 03/14/2022  
Data Release Frequency: Quarterly

## ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 06/26/2021  
Date Data Arrived at EDR: 07/01/2021  
Date Made Active in Reports: 09/28/2021  
Number of Days to Update: 89

Source: Environmental Protection Agency  
Telephone: 202-564-2280  
Last EDR Contact: 01/04/2022  
Next Scheduled EDR Contact: 04/18/2022  
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: 05/06/2021  
Date Data Arrived at EDR: 05/21/2021  
Date Made Active in Reports: 08/11/2021  
Number of Days to Update: 82

Source: Environmental Protection Agency  
Telephone: 202-564-0527  
Last EDR Contact: 11/23/2021  
Next Scheduled EDR Contact: 03/07/2022  
Data Release Frequency: Varies

## UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2018  
Date Data Arrived at EDR: 07/02/2020  
Date Made Active in Reports: 09/17/2020  
Number of Days to Update: 77

Source: Department of Defense  
Telephone: 703-704-1564  
Last EDR Contact: 10/07/2021  
Next Scheduled EDR Contact: 01/24/2022  
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: 08/13/2021  
Date Data Arrived at EDR: 08/13/2021  
Date Made Active in Reports: 10/22/2021  
Number of Days to Update: 70

Source: EPA  
Telephone: 800-385-6164  
Last EDR Contact: 11/15/2021  
Next Scheduled EDR Contact: 02/28/2022  
Data Release Frequency: Quarterly

## AIRS: Permitted AIRS Facility Listing

A listing of permitted AIRS facility locations.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/17/2021  
Date Data Arrived at EDR: 09/22/2021  
Date Made Active in Reports: 12/13/2021  
Number of Days to Update: 82

Source: Department of Environmental Quality  
Telephone: 405-702-4100  
Last EDR Contact: 12/15/2021  
Next Scheduled EDR Contact: 04/04/2022  
Data Release Frequency: Quarterly

ASBESTOS: Asbestos Notification  
Asbestos project site locations

Date of Government Version: 10/04/2021  
Date Data Arrived at EDR: 10/05/2021  
Date Made Active in Reports: 12/23/2021  
Number of Days to Update: 79

Source: Department of Labor  
Telephone: 405-521-6467  
Last EDR Contact: 12/17/2021  
Next Scheduled EDR Contact: 04/04/2022  
Data Release Frequency: Varies

DRYCLEANERS: Drycleaner Facilities  
A listing of drycleaner facility locations.

Date of Government Version: 09/20/2021  
Date Data Arrived at EDR: 09/22/2021  
Date Made Active in Reports: 12/13/2021  
Number of Days to Update: 82

Source: Department of Environmental Quality  
Telephone: 405-702-9100  
Last EDR Contact: 12/15/2021  
Next Scheduled EDR Contact: 04/04/2022  
Data Release Frequency: Quarterly

PFAS: PFAS Contamination Site Location Listing  
A listing of sites where PFAS contaminants has been detected to date.

Date of Government Version: 06/23/2021  
Date Data Arrived at EDR: 06/23/2021  
Date Made Active in Reports: 12/14/2021  
Number of Days to Update: 174

Source: Department of Environment Quality  
Telephone: 405-702-5100  
Last EDR Contact: 12/20/2021  
Next Scheduled EDR Contact: 04/11/2022  
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing  
Financial Assurance information.

Date of Government Version: 07/25/2014  
Date Data Arrived at EDR: 11/06/2014  
Date Made Active in Reports: 01/13/2015  
Number of Days to Update: 68

Source: Department of Environmental Quality  
Telephone: 405-702-5105  
Last EDR Contact: 11/08/2021  
Next Scheduled EDR Contact: 02/21/2022  
Data Release Frequency: No Update Planned

Financial Assurance 2: Financial Assurance Information Listing  
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: 12/10/2013  
Date Data Arrived at EDR: 12/12/2013  
Date Made Active in Reports: 01/24/2014  
Number of Days to Update: 43

Source: Department of Environmental Quality  
Telephone: 405-702-5100  
Last EDR Contact: 11/08/2021  
Next Scheduled EDR Contact: 02/21/2022  
Data Release Frequency: No Update Planned

TIER 2: Tier 2 Data Listing  
A listing of facilities which store or manufacture hazardous materials and submit a chemical inventory report.

Date of Government Version: 12/31/2020  
Date Data Arrived at EDR: 06/07/2021  
Date Made Active in Reports: 08/31/2021  
Number of Days to Update: 85

Source: Department of Environmental Quality  
Telephone: 405-702-1000  
Last EDR Contact: 12/02/2021  
Next Scheduled EDR Contact: 03/21/2022  
Data Release Frequency: Annually



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## UIC: Underground Injection Wells Database Listing

Class I injection wells. CLASS I wells are used to inject liquid hazardous and non-hazardous wastes beneath the lower most Underground Sources of Drinking Water (USDW).

Date of Government Version: 08/17/2021  
Date Data Arrived at EDR: 10/11/2021  
Date Made Active in Reports: 01/06/2022  
Number of Days to Update: 87

Source: Department of Environmental Quality  
Telephone: 405-702-5188  
Last EDR Contact: 10/11/2021  
Next Scheduled EDR Contact: 01/24/2022  
Data Release Frequency: Varies

## PCS INACTIVE: Listing of Inactive PCS Permits

An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014  
Date Data Arrived at EDR: 01/06/2015  
Date Made Active in Reports: 05/06/2015  
Number of Days to Update: 120

Source: EPA  
Telephone: 202-564-2496  
Last EDR Contact: 12/29/2021  
Next Scheduled EDR Contact: 04/18/2022  
Data Release Frequency: Semi-Annually

## 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: 11/23/2021  
Next Scheduled EDR Contact: 03/07/2022  
Data Release Frequency: Varies

## PCS: Permit Compliance System

PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 07/14/2011  
Date Data Arrived at EDR: 08/05/2011  
Date Made Active in Reports: 09/29/2011  
Number of Days to Update: 55

Source: EPA, Office of Water  
Telephone: 202-564-2496  
Last EDR Contact: 12/29/2021  
Next Scheduled EDR Contact: 04/18/2022  
Data Release Frequency: Semi-Annually

## PCS ENF: Enforcement data

No description is available for this data

Date of Government Version: 12/31/2014  
Date Data Arrived at EDR: 02/05/2015  
Date Made Active in Reports: 03/06/2015  
Number of Days to Update: 29

Source: EPA  
Telephone: 202-564-2497  
Last EDR Contact: 12/29/2021  
Next Scheduled EDR Contact: 04/18/2022  
Data Release Frequency: Varies

## **EDR HIGH RISK HISTORICAL RECORDS**

### ***EDR Exclusive Records***

#### 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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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*

#### 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. Compiled from Records formerly available from the Department of Environmental Quality in Oklahoma.

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 Quality  
Telephone: N/A  
Last EDR Contact: 06/01/2012  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

#### 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. Compiled from Records formerly available from the Department of Environmental Quality in Oklahoma.

Date of Government Version: N/A  
Date Data Arrived at EDR: 07/01/2013  
Date Made Active in Reports: 01/20/2014  
Number of Days to Update: 203

Source: Department of Environmental Quality  
Telephone: N/A  
Last EDR Contact: 06/01/2012  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Oklahoma Corporation Commission in Oklahoma.

Date of Government Version: N/A	Source: Oklahoma Corporation Commission
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 12/27/2013	Last EDR Contact: 06/01/2012
Number of Days to Update: 179	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.

### CT MANIFEST: Hazardous Waste Manifest Data

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: 07/23/2021	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 08/10/2021	Telephone: 860-424-3375
Date Made Active in Reports: 11/08/2021	Last EDR Contact: 11/12/2021
Number of Days to Update: 90	Next Scheduled EDR Contact: 02/21/2022
	Data Release Frequency: No Update Planned

### 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	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 04/29/2020	Telephone: 518-402-8651
Date Made Active in Reports: 07/10/2020	Last EDR Contact: 10/29/2021
Number of Days to Update: 72	Next Scheduled EDR Contact: 02/07/2022
	Data Release Frequency: Quarterly

### WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 05/31/2018	Source: Department of Natural Resources
Date Data Arrived at EDR: 06/19/2019	Telephone: N/A
Date Made Active in Reports: 09/03/2019	Last EDR Contact: 12/06/2021
Number of Days to Update: 76	Next Scheduled EDR Contact: 03/21/2022
	Data Release Frequency: Annually

### Oil/Gas Pipelines

Source: Endeavor Business Media

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 Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

### Electric Power Transmission Line Data

Source: Endeavor Business Media

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## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

**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: Day Care Centers

Source: Department of Human Services

Telephone: 405-521-3561

**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

**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.

### Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

## **STREET AND ADDRESS INFORMATION**

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## GEOCHECK<sup>®</sup> - PHYSICAL SETTING SOURCE ADDENDUM

### TARGET PROPERTY ADDRESS

MAIP - ROUNDABOUT  
412B/E0555 RD  
PRYOR, OK 74361

### TARGET PROPERTY COORDINATES

Latitude (North):	36.214143 - 36° 12' 50.91"
Longitude (West):	95.287086 - 95° 17' 13.51"
Universal Tranverse Mercator:	Zone 15
UTM X (Meters):	294407.6
UTM Y (Meters):	4009924.5
Elevation:	672 ft. above sea level

### USGS TOPOGRAPHIC MAP

Target Property Map:	14238164 CHOUTEAU, OK
Version Date:	2019

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

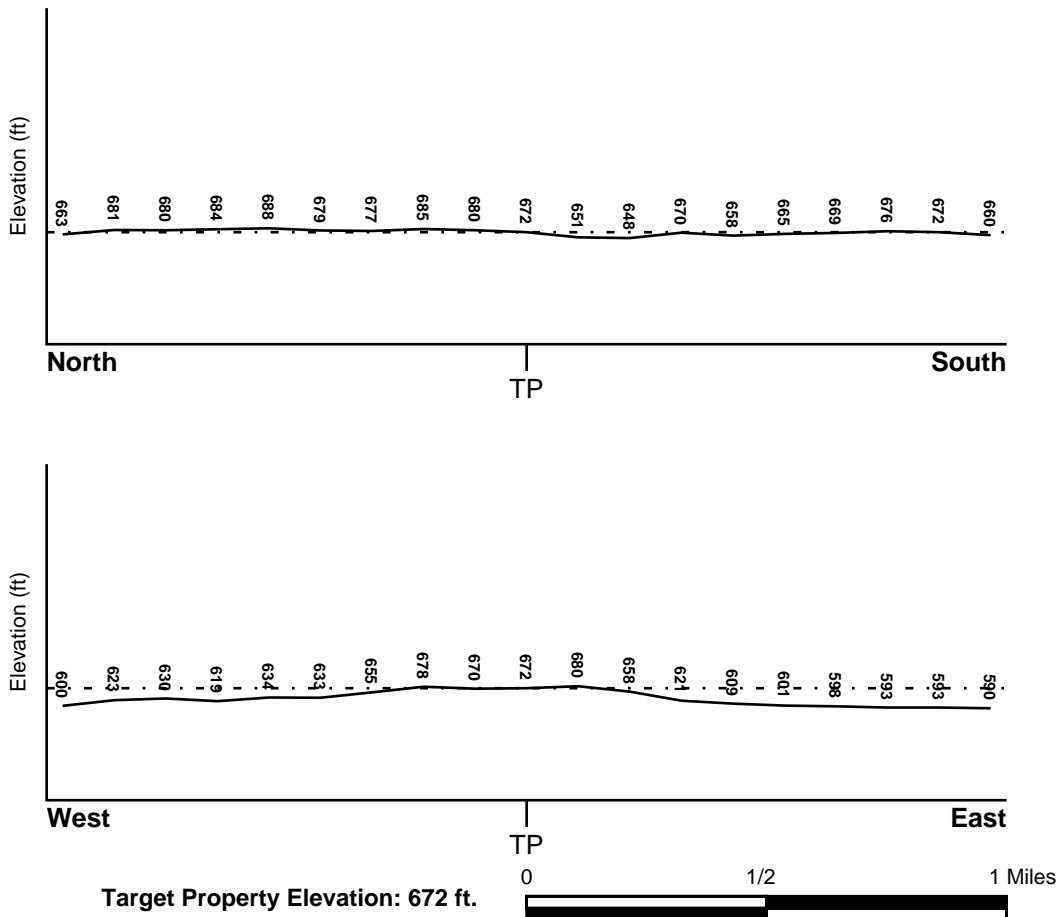
## TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

## TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SE

## SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

## **FEMA FLOOD ZONE**

<u>Flood Plain Panel at Target Property</u>	<u>FEMA Source Type</u>
40097C0335E	FEMA FIRM Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
Not Reported	

## **NATIONAL WETLAND INVENTORY**

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
NOT AVAILABLE	YES - refer to the Overview Map and Detail Map

## HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

## **AQUIFLOW®**

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

## **GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY**

### **GROUNDWATER FLOW VELOCITY INFORMATION**

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

### **GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY**

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

#### **ROCK STRATIGRAPHIC UNIT**

Era:	Paleozoic
System:	Mississippian
Series:	Chesterian Series
Code:	M3 <i>(decoded above as Era, System &amp; Series)</i>

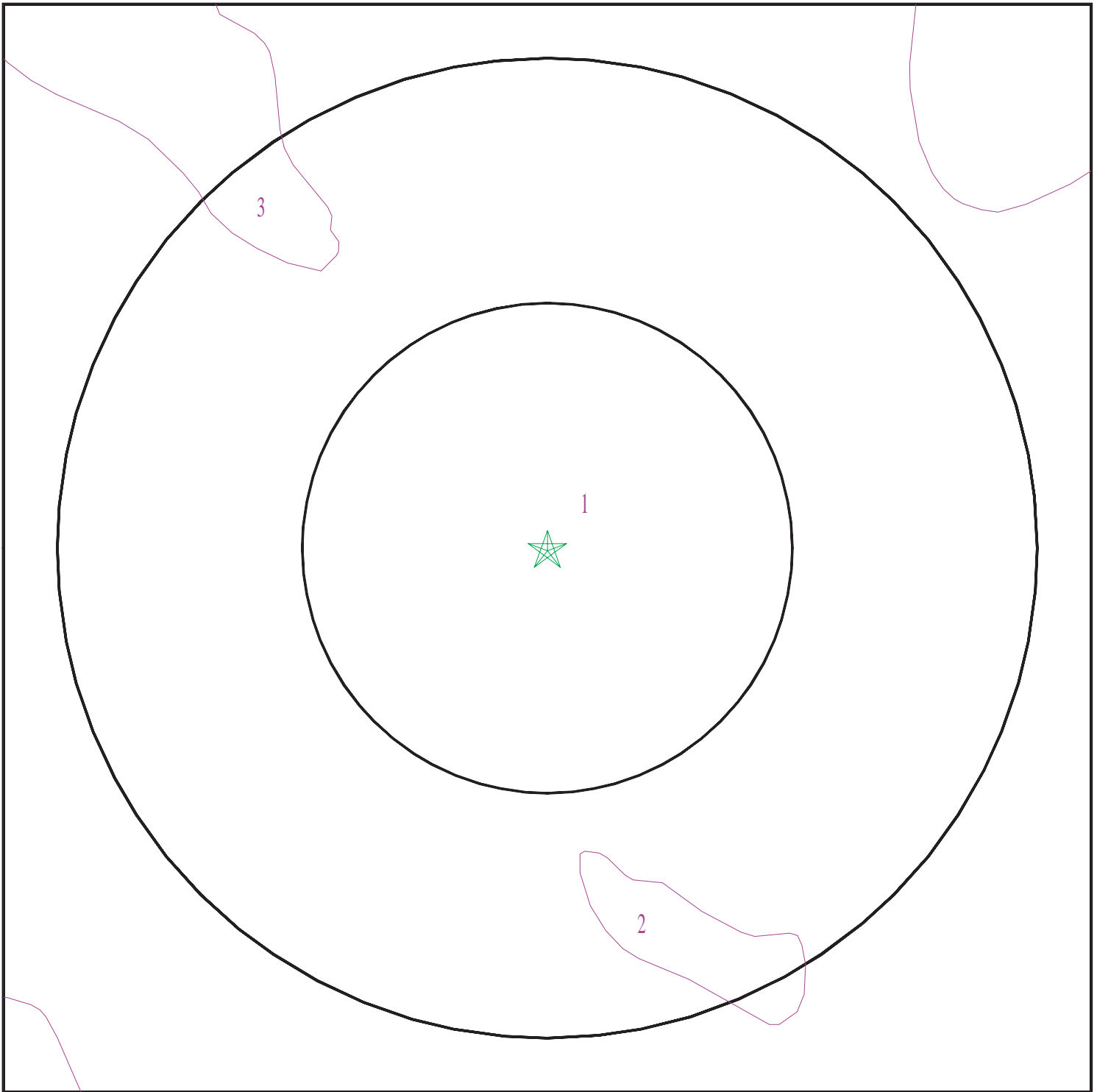
#### **GEOLOGIC AGE IDENTIFICATION**

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).



# SSURGO SOIL MAP - 6814465.2s



- ★ Target Property
- ∩ SSURGO Soil
- ∩ Water



SITE NAME: MAIP - Roundabout  
ADDRESS: 412B/E0555 Rd  
Pryor OK 74361  
LAT/LONG: 36.214143 / 95.287086

CLIENT: Olsson  
CONTACT: Nathan Hillis  
INQUIRY #: 6814465.2s  
DATE: January 10, 2022 5:03 pm

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

### Soil Map ID: 1

Soil Component Name: Collinsville

Soil Surface Texture: loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 30 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	9 inches	loam	Not reported	Not reported	Max: 14.114 Min: 1.4114	Max: Min:
2	9 inches	11 inches	loam	Not reported	Not reported	Max: 14.114 Min: 1.4114	Max: Min:
3	11 inches	20 inches	bedrock	Not reported	Not reported	Max: 14.114 Min: 1.4114	Max: Min:

### Soil Map ID: 2

Soil Component Name: Water

Soil Surface Texture: water

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class:

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	79 inches	water	Not reported	Not reported	Max: Min:	Max: Min:

### Soil Map ID: 3

Soil Component Name: Dennis

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 53 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	11 inches	silt loam	Not reported	Not reported	Max: 1.4114 Min: 0.4233	Max: 8.4 Min: 5.1
2	11 inches	22 inches	silty clay loam	Not reported	Not reported	Max: 1.4114 Min: 0.4233	Max: 8.4 Min: 5.1
3	22 inches	79 inches	clay	Not reported	Not reported	Max: 1.4114 Min: 0.4233	Max: 8.4 Min: 5.1

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

## WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

## FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

## FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

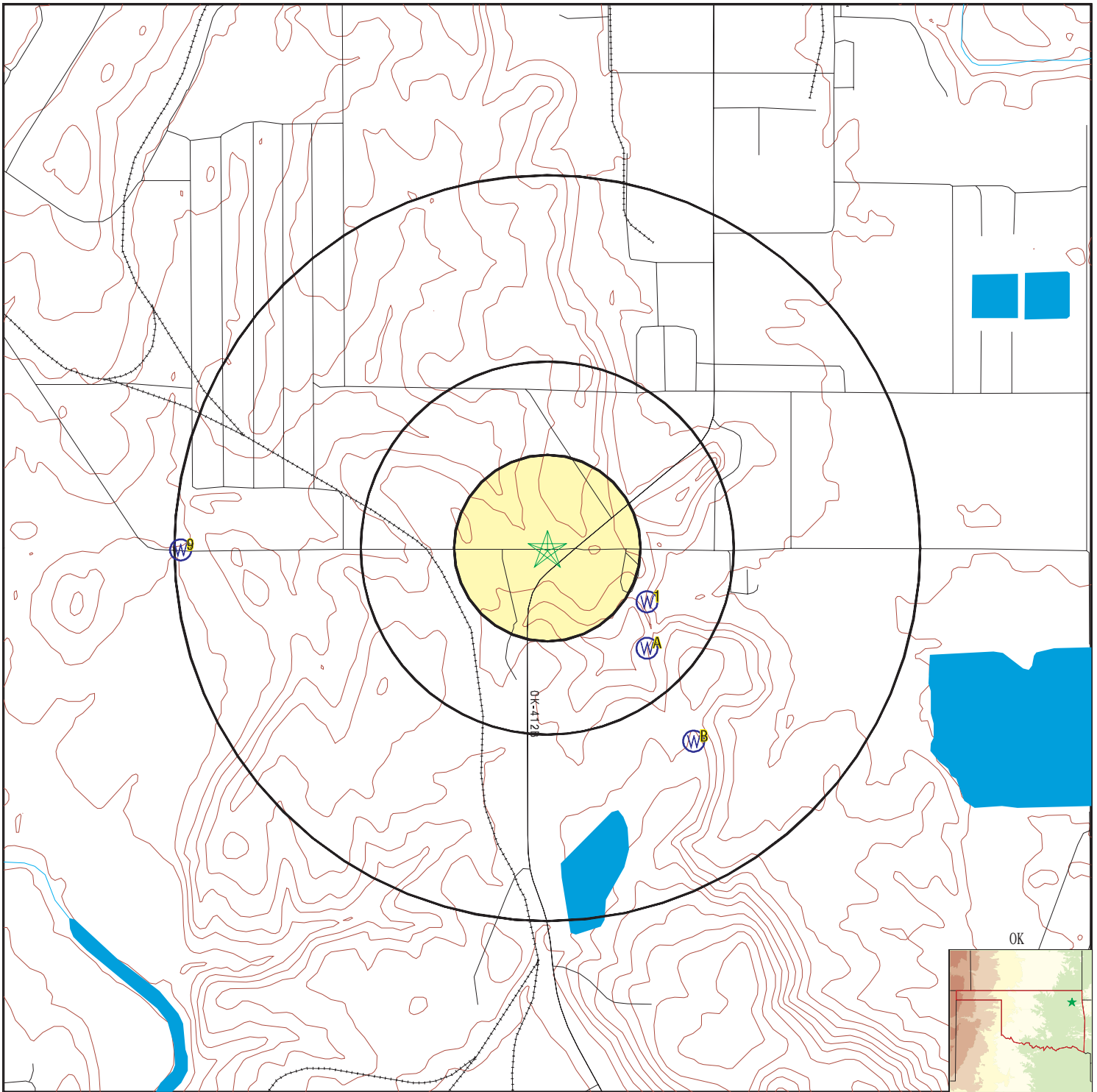
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

## STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	OK7000000169406	1/4 - 1/2 Mile ESE
A2	OK7000000125321	1/4 - 1/2 Mile SE
A3	OK7000000169407	1/4 - 1/2 Mile SE
B4	OK7000000172132	1/2 - 1 Mile SE
B5	OK7000000172131	1/2 - 1 Mile SE
B6	OK7000000172153	1/2 - 1 Mile SE
B7	OK7000000172155	1/2 - 1 Mile SE
B8	OK7000000172154	1/2 - 1 Mile SE
9	OK7000000126454	1/2 - 1 Mile West

# PHYSICAL SETTING SOURCE MAP - 6814465.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Oil, gas or related wells



SITE NAME: MAIP - Roundabout  
 ADDRESS: 412B/E0555 Rd  
 Pryor OK 74361  
 LAT/LONG: 36.214143 / 95.287086

CLIENT: Olsson  
 CONTACT: Nathan Hillis  
 INQUIRY #: 6814465.2s  
 DATE: January 10, 2022 5:03 pm

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**1**  
**ESE**  
**1/4 - 1/2 Mile**  
**Lower**

**OK WELLS      OK7000000169406**

Well ID:	82667	Well Type:	Monitoring Well
Permit #:	Not Reported	Well Owner:	Secor International
Elevation:	0	Water Use:	Site Assessment
Total Well Depth:	36	Date to First Water:	0
Approximate Yield:	0	Construction Date:	10-JUL-03
Aquifer Code:	Not Reported	Basin Code:	Not Reported
URL:	<a href="http://www.owrb.ok.gov/wd/reporting/printreport.php?siteid=82667">http://www.owrb.ok.gov/wd/reporting/printreport.php?siteid=82667</a>		

**A2**  
**SE**  
**1/4 - 1/2 Mile**  
**Lower**

**OK WELLS      OK7000000125321**

Well ID:	89400	Well Type:	Geotechnical Boring
Permit #:	Not Reported	Well Owner:	Secor International
Elevation:	0	Water Use:	Soil Evaluation
Total Well Depth:	20	Date to First Water:	0
Approximate Yield:	0	Construction Date:	10-JUL-03
Aquifer Code:	Not Reported	Basin Code:	Not Reported
URL:	<a href="http://www.owrb.ok.gov/wd/reporting/printreport.php?siteid=89400">http://www.owrb.ok.gov/wd/reporting/printreport.php?siteid=89400</a>		

**A3**  
**SE**  
**1/4 - 1/2 Mile**  
**Lower**

**OK WELLS      OK7000000169407**

Well ID:	82671	Well Type:	Monitoring Well
Permit #:	Not Reported	Well Owner:	Secor International
Elevation:	0	Water Use:	Site Assessment
Total Well Depth:	30	Date to First Water:	0
Approximate Yield:	0	Construction Date:	11-JUL-03
Aquifer Code:	Not Reported	Basin Code:	Not Reported
URL:	<a href="http://www.owrb.ok.gov/wd/reporting/printreport.php?siteid=82671">http://www.owrb.ok.gov/wd/reporting/printreport.php?siteid=82671</a>		

**B4**  
**SE**  
**1/2 - 1 Mile**  
**Higher**

**OK WELLS      OK7000000172132**

Well ID:	96958	Well Type:	Monitoring Well
Permit #:	Not Reported	Well Owner:	Case New Holland c/o Secor
Elevation:	0	Water Use:	Site Assessment
Total Well Depth:	21	Date to First Water:	0
Approximate Yield:	0	Construction Date:	28-SEP-05
Aquifer Code:	Not Reported	Basin Code:	Not Reported
URL:	<a href="http://www.owrb.ok.gov/wd/reporting/printreport.php?siteid=96958">http://www.owrb.ok.gov/wd/reporting/printreport.php?siteid=96958</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**B5**  
**SE**  
**1/2 - 1 Mile**  
**Higher**

**OK WELLS      OK7000000172131**

Well ID:	96957	Well Type:	Monitoring Well
Permit #:	Not Reported	Well Owner:	Case New Holland c/o Secur
Elevation:	0	Water Use:	Site Assessment
Total Well Depth:	62	Date to First Water:	0
Approximate Yield:	0	Construction Date:	28-SEP-05
Aquifer Code:	Not Reported	Basin Code:	Not Reported
URL:	<a href="http://www.owrb.ok.gov/wd/reporting/printreport.php?siteid=96957">http://www.owrb.ok.gov/wd/reporting/printreport.php?siteid=96957</a>		

**B6**  
**SE**  
**1/2 - 1 Mile**  
**Higher**

**OK WELLS      OK7000000172153**

Well ID:	96959	Well Type:	Monitoring Well
Permit #:	Not Reported	Well Owner:	Case New Holland c/o Secur
Elevation:	0	Water Use:	Site Assessment
Total Well Depth:	25	Date to First Water:	0
Approximate Yield:	0	Construction Date:	28-SEP-05
Aquifer Code:	Not Reported	Basin Code:	Not Reported
URL:	<a href="http://www.owrb.ok.gov/wd/reporting/printreport.php?siteid=96959">http://www.owrb.ok.gov/wd/reporting/printreport.php?siteid=96959</a>		

**B7**  
**SE**  
**1/2 - 1 Mile**  
**Higher**

**OK WELLS      OK7000000172155**

Well ID:	96961	Well Type:	Monitoring Well
Permit #:	Not Reported	Well Owner:	Case New Holland c/o Secur
Elevation:	0	Water Use:	Site Assessment
Total Well Depth:	29	Date to First Water:	0
Approximate Yield:	0	Construction Date:	28-SEP-05
Aquifer Code:	Not Reported	Basin Code:	Not Reported
URL:	<a href="http://www.owrb.ok.gov/wd/reporting/printreport.php?siteid=96961">http://www.owrb.ok.gov/wd/reporting/printreport.php?siteid=96961</a>		

**B8**  
**SE**  
**1/2 - 1 Mile**  
**Higher**

**OK WELLS      OK7000000172154**

Well ID:	96960	Well Type:	Monitoring Well
Permit #:	Not Reported	Well Owner:	Case New Holland c/o Secur
Elevation:	0	Water Use:	Site Assessment
Total Well Depth:	38	Date to First Water:	0
Approximate Yield:	0	Construction Date:	28-SEP-05
Aquifer Code:	Not Reported	Basin Code:	Not Reported
URL:	<a href="http://www.owrb.ok.gov/wd/reporting/printreport.php?siteid=96960">http://www.owrb.ok.gov/wd/reporting/printreport.php?siteid=96960</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**9**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**OK WELLS      OK7000000126454**

Well ID:	92738	Well Type:	Geotechnical Boring
Permit #:	Not Reported	Well Owner:	Tech Law Pryor Feptech
Elevation:	0	Water Use:	Soil Evaluation
Total Well Depth:	12.69999981	Date to First Water:	0
Approximate Yield:	0	Construction Date:	20-MAY-04
Aquifer Code:	Not Reported	Basin Code:	Not Reported
URL:	<a href="http://www.owrb.ok.gov/wd/reporting/printreport.php?siteid=92738">http://www.owrb.ok.gov/wd/reporting/printreport.php?siteid=92738</a>		



# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

## AREA RADON INFORMATION

State Database: OK Radon

### Radon Test Results

Zipcode	Num Tests	# > 4 pCi/L	Maximum	Average
74361	24	0	3.8	1.117

Federal EPA Radon Zone for MAYES County: 2

- Note: Zone 1 indoor average level > 4 pCi/L.  
 : Zone 2 indoor average level  $\geq$  2 pCi/L and  $\leq$  4 pCi/L.  
 : Zone 3 indoor average level < 2 pCi/L.

---

Federal Area Radon Information for Zip Code: 74361

Number of sites tested: 11

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.655 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## TOPOGRAPHIC INFORMATION

### USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

### Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

## HYDROLOGIC INFORMATION

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

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.

## HYDROGEOLOGIC INFORMATION

### AQUIFLOW<sup>R</sup> Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

## GEOLOGIC INFORMATION

### Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

### STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

### SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## LOCAL / REGIONAL WATER AGENCY RECORDS

### FEDERAL WATER WELLS

#### PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

#### PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

#### USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

### STATE RECORDS

#### Reported Well Locations in Oklahoma

Source: Oklahoma Water Resources Board

Telephone: 405-530-8800

## OTHER STATE DATABASE INFORMATION

#### Oil and Gas Well Listing

Source: Oklahoma Corporation Commission

Telephone: 405-521-3636

Oil and gas well locations in the state.

#### Oil and Gas Well Listing

Source: Osage Nation Environmental and Natural Resources

Telephone: 918-287-5333

Oil and gas well locations.

### RADON

#### State Database: OK Radon

Source: Department of Environmental Quality

Telephone: 405-702-5100

Radon Information

#### Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

#### EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

## PHYSICAL SETTING SOURCE RECORDS SEARCHED

### OTHER

Airport Landing Facilities: Private and public use landing facilities  
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater  
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

### **STREET AND ADDRESS INFORMATION**

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**MAIP - Roundabout**

412B/E0555 Rd  
Pryor, OK 74361

Inquiry Number: 6814465.5  
January 12, 2022

# The EDR-City Directory Image Report

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### SECTION

Executive Summary

Findings

City Directory Images

*Thank you for your business.*

Please contact EDR at 1-800-352-0050  
with any questions or comments.

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## EXECUTIVE SUMMARY

### DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

### RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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### RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Target Street</u>	<u>Cross Street</u>	<u>Source</u>
2017	<input type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
2014	<input type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
2010	<input type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
2005	<input type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
2000	<input type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
1995	<input type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
1992	<input type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive

## FINDINGS

### TARGET PROPERTY STREET

412B/E0555 Rd  
Pryor, OK 74361

<u>Year</u>	<u>CD Image</u>	<u>Source</u>	
<b><u>0555 RD</u></b>			
2017	-	EDR Digital Archive	Street not listed in Source
2014	-	EDR Digital Archive	Street not listed in Source
2010	-	EDR Digital Archive	Street not listed in Source
2005	-	EDR Digital Archive	Street not listed in Source
2000	-	EDR Digital Archive	Street not listed in Source
1995	-	EDR Digital Archive	Street not listed in Source
1992	-	EDR Digital Archive	Street not listed in Source



## FINDINGS

### CROSS STREETS

No Cross Streets Identified

# **APPENDIX E**

## Reconnaissance Photographs



**MAIP - Roundabout**

412B/E0555 Rd

Pryor, OK 74361

Inquiry Number: 6814465.8

January 13, 2022

# The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

# EDR Aerial Photo Decade Package

01/13/22

**Site Name:**

MAIP - Roundabout  
412B/E0555 Rd  
Pryor, OK 74361  
EDR Inquiry # 6814465.8

**Client Name:**

Olsson  
11600 Broadway Extension, Suite 300  
Oklahoma City, OK 73114  
Contact: Nathan Hillis



Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

### Search Results:

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
2017	1"=500'	Flight Year: 2017	USDA/NAIP
2013	1"=500'	Flight Year: 2013	USDA/NAIP
2010	1"=500'	Flight Year: 2010	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
1995	1"=500'	Acquisition Date: February 24, 1995	USGS/DOQQ
1980	1"=500'	Flight Date: March 18, 1980	USDA
1971	1"=500'	Flight Date: March 08, 1971	USGS
1968	1"=500'	Flight Date: April 05, 1968	USGS

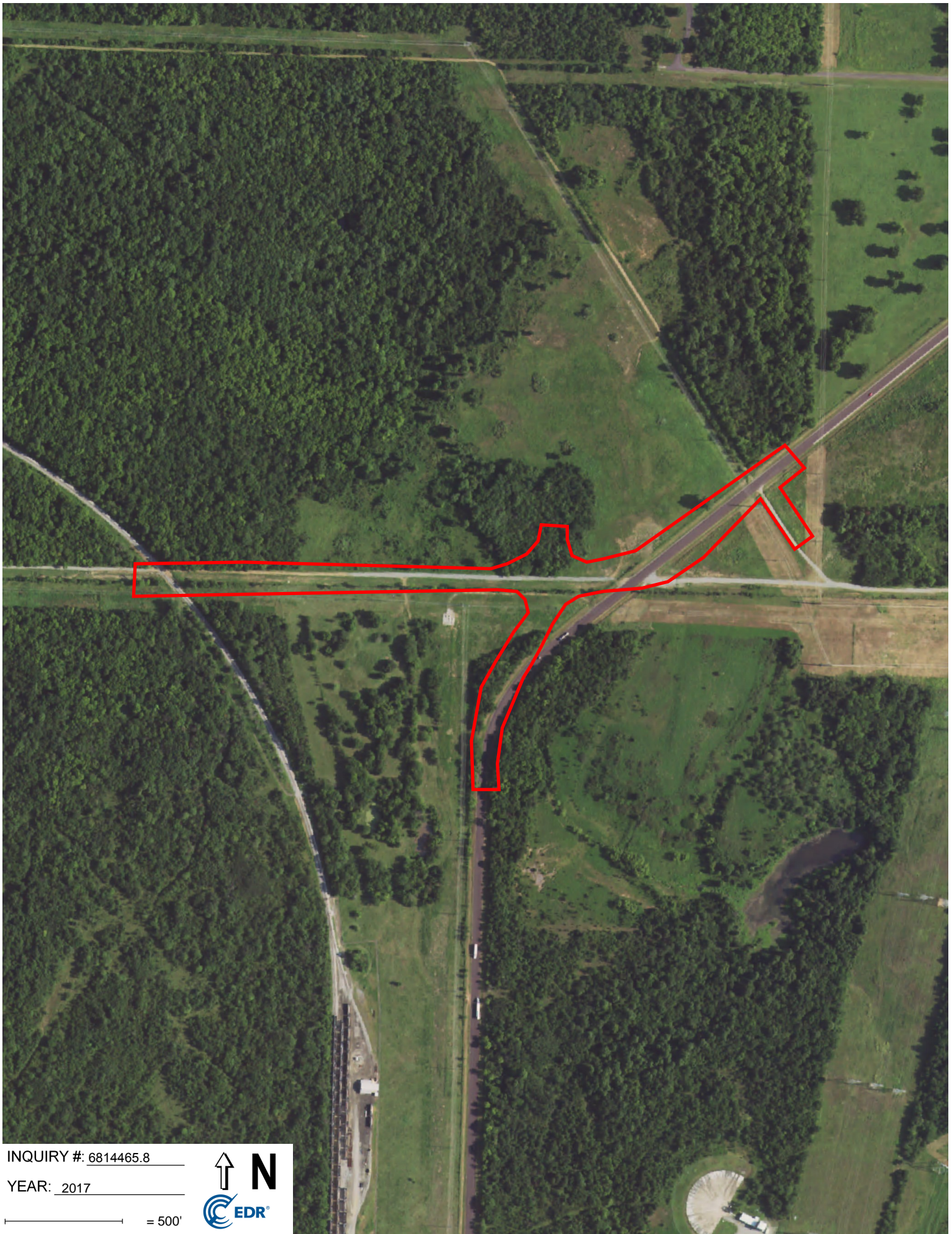
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INQUIRY #: 6814465.8

YEAR: 2017

— = 500'





INQUIRY #: 6814465.8

YEAR: 2013

— = 500'





INQUIRY #: 6814465.8

YEAR: 2010

 = 500'





INQUIRY #: 6814465.8

YEAR: 2006

— = 500'







INQUIRY #: 6814465.8

YEAR: 1995

 = 500'



Subject boundary not shown because it exceeds image extent or image is not georeferenced.

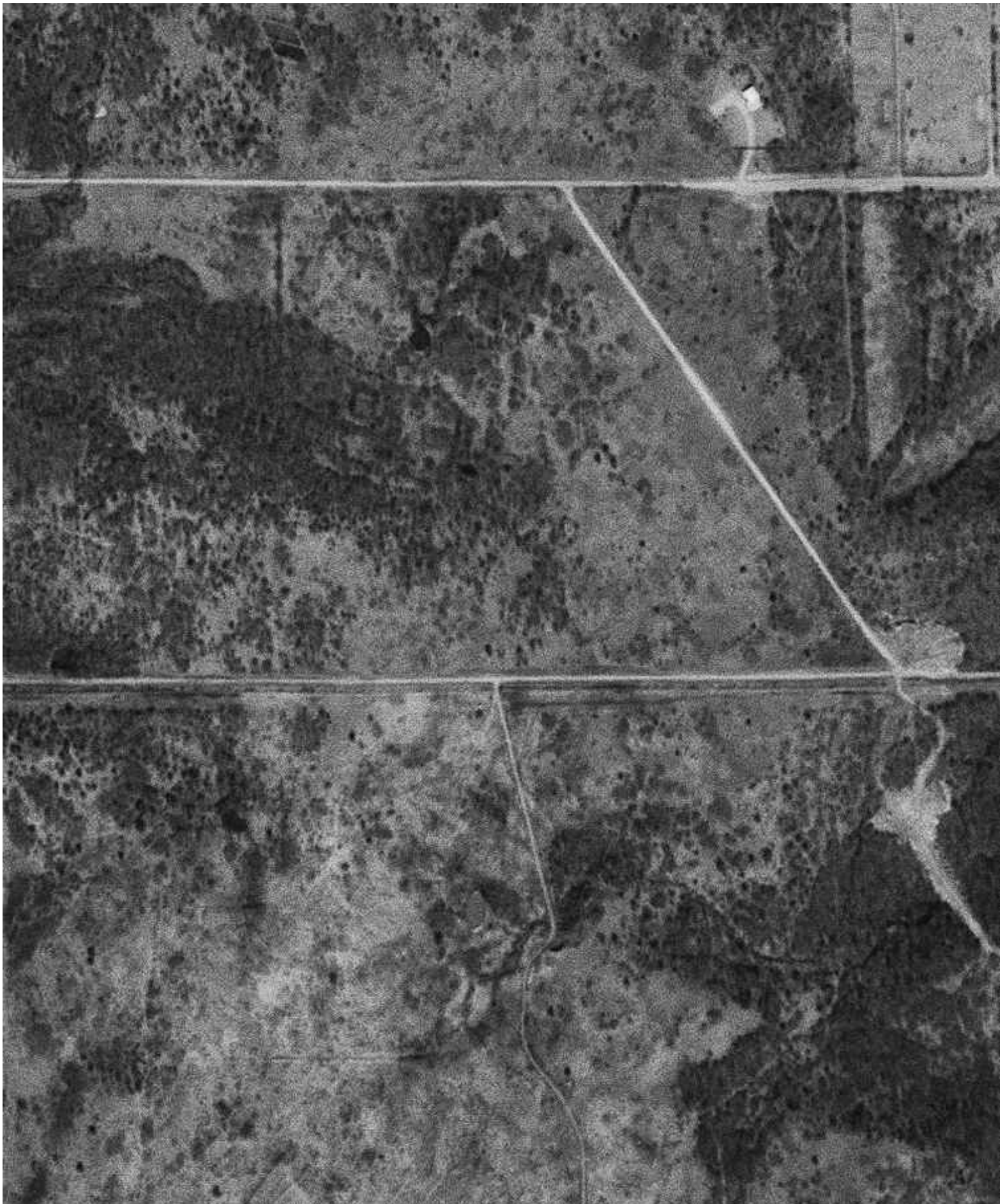


INQUIRY #: 6814465.8

YEAR: 1980

— = 500'





INQUIRY #: 6814465.8

YEAR: 1971

 = 500'



Subject boundary not shown because it exceeds image extent or image is not georeferenced.



INQUIRY #: 6814465.8

YEAR: 1968

 = 500'



MAIP - Roundabout

412B/E0555 Rd

Pryor, OK 74361

Inquiry Number: 6814465.3

January 10, 2022

## Certified Sanborn® Map Report



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Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

# Certified Sanborn® Map Report

01/10/22

**Site Name:**

MAIP - Roundabout  
412B/E0555 Rd  
Pryor, OK 74361  
EDR Inquiry # 6814465.3

**Client Name:**

Olsson  
11600 Broadway Extension, Suite 300  
Oklahoma City, OK 73114  
Contact: Nathan Hillis



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The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

## Certified Sanborn Results:

**Certification #** F560-4B91-A913  
**PO #** NA  
**Project** MAIP - Roundabout

### UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.



Sanborn® Library search results

Certification #: F560-4B91-A913

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- Library of Congress
- University Publications of America
- EDR Private Collection

*The Sanborn Library LLC Since 1866™*

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**APPENDIX D**  
**CULTURAL RESOURCES REPORT**



## **Mayes County, JP 35353(04), Intersection Modifications at SH-412B and Patrol Road; Local Government reconnaissance study**

Prepared by: Kirsten Tharalson  
ODOT Cultural Resources Program

February 10, 2022

This report documents a cultural resources file review, conducted by staff from ODOT's Cultural Resources Program (CRP), and has been compiled to assist the County and any potential Federal Agency in planning the proposed project. At the time of the reconnaissance request, the project was not being funded or approved by FHWA. CRP has reviewed the project as part of the oversight provided by ODOT in its contract administration of projects let through ODOT's letting process. *Any opinions expressed herein are meant to assist the County and Federal Agency, but do not represent recommendations from a federal agency, SHPO, or the State Archaeologist.*

### **Project Description**

This project proposes improvements to the SH-412B / Patrol Road (County Road EW-0555) intersection. The reconnaissance area begins approximately 2,160 feet west of the SH-412B / Patrol Road intersection and extends approximately 2,335 feet east; the reconnaissance area also extends from approximately 860 feet north of the SH-412B / Patrol Road intersection and extends approximately 2,075 feet south through the intersection (see Figure 1). The reconnaissance area is an irregularly shaped polygon that extends approximately 100 feet on either side of the existing centerline for the majority of the proposed project, though the reconnaissance area extends up to 250 feet from centerline near the SH-412B / Patrol Road intersection. In total, the reconnaissance area encompasses approximately 22.31 acres.

### **Nineteenth and 20<sup>th</sup> century Properties/structures**

#### **Properties listed in or eligible for inclusion in the National Register of Historic Places (NRHP):**

No NRHP eligible or listed properties are located within the reconnaissance area.

### **Bridges**

No bridges are located within the reconnaissance area.



## Archaeological Sites

### **Archaeological sites documented at the Oklahoma Archeological Survey (OAS):**

There are no previously recorded archaeological sites mapped within the reconnaissance area, however three previously recorded archaeological sites (34MY164, 34MY350, and 34MY351) are mapped within reconnaissance area's one-mile vicinity.

Site 34MY164 is mapped between two branches of intermittent streams running into Chouteau Creek, approximately 4,720 feet southwest of the reconnaissance area. The site was recorded in 1977 by Charles Creek as an unassigned prehistoric lithic scatter. Very little information is available on the site form other than the location and that it was a lithic scatter. *Site 34CL61 has **not been assessed** for NRHP eligibility and should be avoided by any construction-related or off-site facilities or uses.*

Site 34MY350 is mapped on an upland ridge, approximately 3,300 feet south of the reconnaissance area. The site was recorded in 2008 by M Myers and M Jaques as an early- to mid-20<sup>th</sup> century farmstead with a stone wall basement / foundation with stone stairs leading to the basement level; materials from the site are limited to sheet metal. *Site 34MY350 was assessed as **not eligible** for inclusion in the NRHP.*

Site 34MY351 is mapped on an upland ridge, approximately 2,510 feet southeast of the reconnaissance area. The site was recorded in 2008 by M Myers and M Jaques as an early- to mid-20<sup>th</sup> century farmstead with a cellar, a stone house foundation, and a poured concrete stem-wall barn foundation; materials at the site are described as including a large metal barrel and a porcelain electrical insulator. *Site 34MY351 was assessed as **not eligible** for inclusion in the NRHP.*

### **Potential for additional archaeological sites to occur in the reconnaissance area:**

There are no buildings currently located within the reconnaissance area. Review of the available historic maps and aerial photographs does not indicate that any known buildings have been located within the reconnaissance area. However, the scale of the early maps (particularly the GLO maps) precludes precisely determining if buildings were located within the reconnaissance area. *If the proposed project were to become federalized in any way, the lead Federal agency may require documentation assessing the potential for archaeological materials through a cultural resources survey.*

The soils mapped on the NRCS soil survey—particularly the Collinsville loam—dominates the reconnaissance area and generally represents settings with **low potential** for containing buried surfaces and buried archaeological materials.

### **Cemeteries**

One cemetery (Sixkiller Cemetery) is located adjacent to the reconnaissance area, approximately 870 feet east of the reconnaissance area along County Road EW-0555 (see Figure 2). The Sixkiller Cemetery is neither maintained nor does it have clear boundaries.

### **Previous cultural resources surveys or studies**

There are no previous cultural resource studies within the reconnaissance area.

### **Summary Comments**

This report documents a cultural resources file review, conducted by staff from ODOT's Cultural Resources Program (CRP), and has been compiled to assist the County and any potential Federal Agency in planning the proposed project. At the time of the reconnaissance request, the project was not being funded or approved by FHWA. CRP has reviewed the project as part of the oversight provided by ODOT in its contract administration of projects let through ODOT's letting process. *Any opinions expressed herein are meant to assist the County and Federal Agency, but do not represent recommendations from a federal agency, SHPO, or the State Archaeologist.*

This project proposes improvements to the SH-412B / Patrol Road (County Road EW-0555) intersection. The reconnaissance area begins approximately 2,160 feet west of the SH-412B / Patrol Road intersection and extends approximately 2,335 feet east; the reconnaissance area also extends from approximately 860 feet north of the SH-412B / Patrol Road intersection and extends approximately 2,075 feet south through the intersection (see Figure 1). The reconnaissance area is an irregularly shaped polygon that extends approximately 100 feet on either side of the existing centerline for the majority of the proposed project, though the reconnaissance area extends up to 250 feet from centerline near the SH-412B / Patrol Road intersection. In total, the reconnaissance area encompasses approximately 22.31 acres.

No NRHP eligible or listed properties are located within the reconnaissance area.

No bridges are located within the reconnaissance area.

There are no previously recorded archaeological sites mapped within the reconnaissance area, however three previously recorded archaeological sites (34MY164, 34MY350, and 34MY351) are mapped within reconnaissance area's one-mile vicinity.

Site 34MY164 is mapped between two branches of intermittent streams running into Chouteau Creek, approximately 4,720 feet southwest of the reconnaissance area. The site was recorded in 1977 by Charles Creek as an unassigned prehistoric lithic scatter. Very little information is available on the site form other than the location and that it was a lithic scatter. *Site 34CL61 has*



***not been assessed** for NRHP eligibility and should be avoided by any construction-related or off-site facilities or uses.*

Site 34MY350 is mapped on an upland ridge, approximately 3,300 feet south of the reconnaissance area. The site was recorded in 2008 by M Myers and M Jaques as an early- to mid-20<sup>th</sup> century farmstead with a stone wall basement / foundation with stone stairs leading to the basement level; materials from the site are limited to sheet metal. *Site 34MY350 was assessed as **not eligible** for inclusion in the NRHP.*

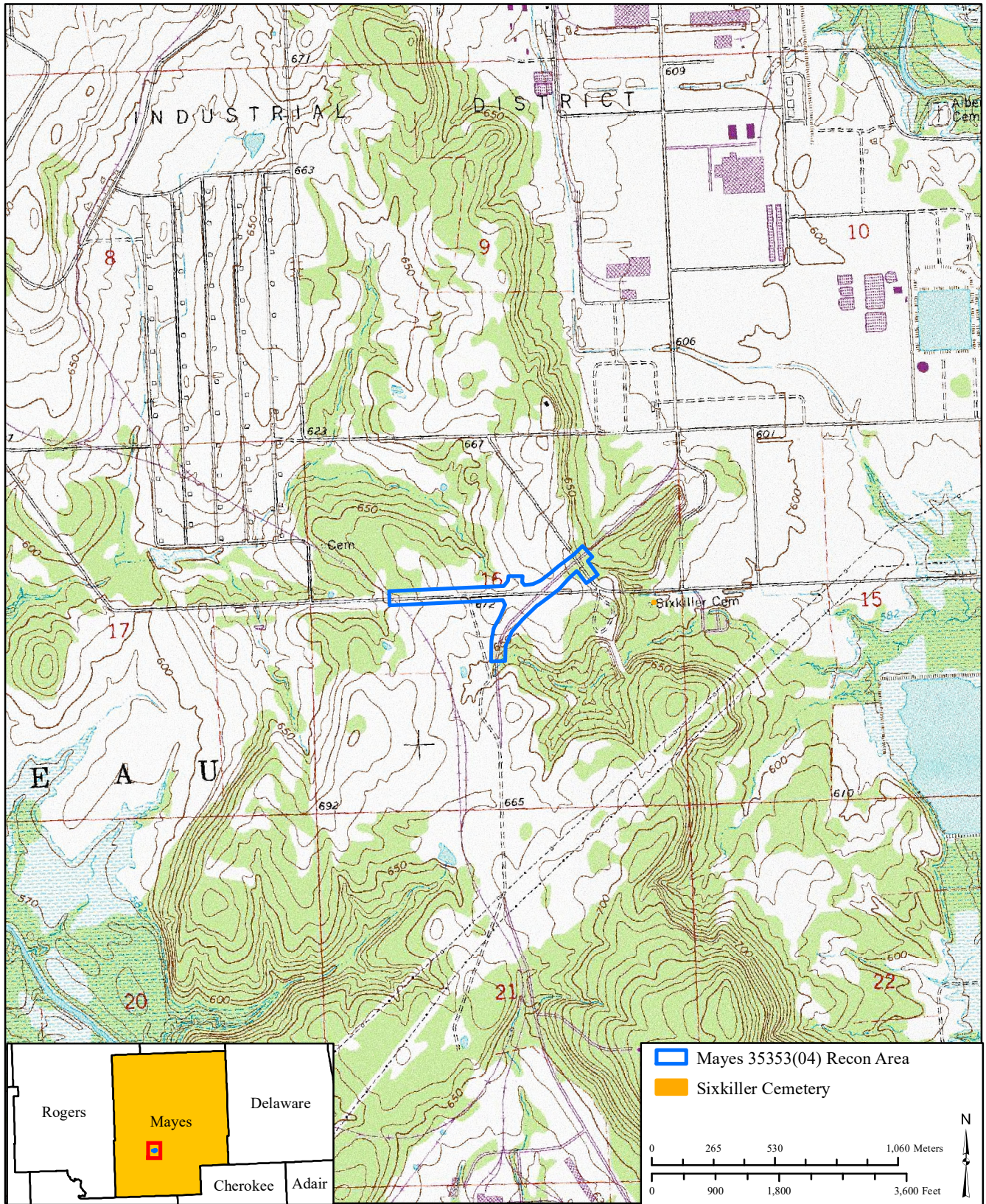
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There are no buildings currently located within the reconnaissance area. Review of the available historic maps and aerial photographs does not indicate that any known buildings have been located within the reconnaissance area. However, the scale of the early maps (particularly the GLO maps) precludes precisely determining if buildings were located within the reconnaissance area. *If the proposed project were to become federalized in any way, the lead Federal agency may require documentation assessing the potential for archaeological materials through a cultural resources survey.*

The soils mapped on the NRCS soil survey—particularly the Collinsville loam—dominates the reconnaissance area and generally represents settings with **low potential** for containing buried surfaces and buried archaeological materials.

### **Resources Reviewed**

- Mayes County aerial imagery (1952, 1958)
- General Highway and Transportation Map of Mayes County, Oklahoma (1936)
- General Highway Map (GHM) of Mayes County, Oklahoma (1948, 1953, 1964, 1973, 1983)
- General Land Office (GLO) survey maps (1898)
- Google Earth applications (1985-2017)
- National Agriculture Imagery Program (NAIP) Mayes County aerial imagery (2015)
- ODOT National Bridge Inventory
- State Archaeological Site Files at the Oklahoma Archeological Survey (OAS)
- State Historic Preservation Office (SHPO) NRHP list and Determinations of Eligibility (DOE) list
- USGS Chouteau 7.5' topographic quadrangle [1970 (1982)]



**Figure 1. Mayes County JP 35353(04): Intersection Modifications at SH-412B and Patrol Road; Local Government Reconnaissance Study.**

**Basemap: USGS Chouteau 7.5' Quadrangle [1970 (1982)]**

**Legal Location: T20N R19E Section 16**



**OKLAHOMA**  
Transportation



**Figure 2. Mayes County JP 35353(04): Intersection Modifications at SH-412B and Patrol Road;  
Local Government Reconnaissance Study.**

Basemap: USDA Mayes County Aerial Imagery (2015)

Legal Location: T20N R19E Section 16



# **SH-412B & PATROL ROAD INTERCHANGE MODIFICATION**

Mayes County – JP 35353(04)

June 2022

Olsson Project No. G20-10300