CORRECTION

The title in the newspaper notice was incorrect. The document available for comment is:

ENVIRONMENTAL ASSESSMENT FOR THE KANSAS CITY NATIONAL SECURITY CAMPUS ASSESSMENT OF KCNExT, DOE/EA-2225

KANSAS CITY NATIONAL SECURITY CAMPUS SITEWIDE ASSESSMENT OF BOTTS AND BUILDING 23 OPERATIONS, DOE/EA-2167 was finalized on 07/26/2021 is available at: https://www.energy.gov/nepa/doeea-2167-kansas-city-national-security-campus-sitewide-assessment-botts-and-building-23

ENVIRONMENTAL ASSESSMENT

FOR THE

KANSAS CITY NATIONAL SECURITY CAMPUS ASSESSMENT OF KCNExT DOE/EA-2225

U.S. Department of Energy
National Nuclear Security Administration





AUGUST 2023

ACRONYMS AND ABBREVIATIONS

AHS	All Hazards Assessment
APCP	Air Pollution Control Program
Botts Campus	KCNSC facility at 14520 Botts Road, Kansas City, Missouri
Building 23	KCNSC facility 14901 Andrews Road, Kansas City, Missouri
CAA	Clean Air Act
ccf	hundreds of cubic feet
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act of 1976
CFR	Code of Federal Regulations
CO	Carbon monoxide
CUP	Central Utility Plant
CWA	Clean Water Act
DOE	United States Department of Energy
DOE/EA-1947	U.S. Department of Energy's 2013 Environmental Assessment for the *Transfer of the Kansas City Plant, Kansas City, Missouri*
DOE/EA-1592	U.S. Department of Energy's 2008 Environmental Assessment for the *Modernization of Facilities and Infrastructure for the Non-Nuclear Production Activities Conducted at the Kansas City Plant*
DOE/EA-1592-S1	U.S. Department of Energy's 2019 Supplemental Environmental Analysis for the *Relocation and Performance of KCNSC Operations in Building 23*
DOE/EA 2167	U.S. Department of Energy's 2021 *KCNSC Sitewide Assessment of Botts and Building 23 Operations*
EA	Environmental Assessment
EPA	United States Environmental Protection Agency
EPCRA	Emergency Planning and Community Right-to-Know Act
EPHA	Emergency Planning Hazard Assessment
ESTART	Environmental Site Tracking and Research Tool (MDNR)
FEMA	Federal Emergency Management Administration
FONSI	Finding of No Significant Impact
HAP	Hazardous air pollutant
Honeywell FM&T	Honeywell Federal Manufacturing and Technologies
HUC	Hydrologic Unit Code
HS&E	health, safety, and environment
IWPF	Industrial Wastewater Pretreatment Facility
KCMO	Kansas City, Missouri
KCNExT	Kansas City Non-Nuclear Component Expansion Transformation
KCNSC	Kansas City National Security Campus
KCS	Kansas City Southern Railroad
kV	kilovolt
LQG	large quantity generator
MDNR	Missouri Department of Natural Resources
MWh	Megawatt-hours
NAAQS	National Ambient Air Quality Standards
NEPA	National Environmental Policy Act, as amended

NNSA	National Nuclear Security Administration
NPDES	National Pollutant Discharge Elimination System
NO_x	nitrogen dioxide
NWI	National Wetland Inventory
O_3	Ozone
OSHA	Occupational Health and Safety Administration
Pb	Lead
PCBs	polychlorinated biphenyls
PHA	Preliminary Hazard Assessment
PM	particulate matter
RCRA	Resource Conservation and Recovery Act of 1976
SDS	Safety Data Sheet
SF	square feet
SIP	State Implementation Plan
SO_2	Sulfur dioxide
SPCC	Spill Prevention Control and Countermeasures
SQG	small quantity generator
SSMP	Stockpile Stewardship Management Plan
SWPPP	Stormwater Pollution Prevent Plan
THIRA	Threat and Hazard Identification and Risk Assessment
TPQ	threshold planning quantity
TSDF	Treatment, Storage, and Disposal Facility
U.S.	United States
USACE	U.S. Army Corps of Engineers
USAF	U.S. Air Force
USDOT	U.S. Department of Transportation
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
USC	United States Code
UST	underground storage tank
VOC	volatile organic compounds
VSQG	very small quantity generator

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1.0 INTRODUCTION, BACKGROUND, AND PURPOSE AND NEED FOR ACTION

The U.S. Department of Energy (DOE), National Nuclear Security Administration (NNSA) as lead agency has prepared this Environmental Assessment (EA) to evaluate the acquisition and operation of a new facility/campus east of the existing Kansas City National Security Campus (KCNSC) Botts Campus in Kansas City, Jackson County, Missouri. The NNSA, a semi-autonomous agency within the DOE, conducts operations at the KCNSC Botts Campus, at a nearby facility, KCNSC Building 23, and at several leased office building locations in the South Kansas City, Missouri and Overland Park, Kansas areas to support the ongoing development and manufacture of non-nuclear components of nuclear weapons.

In order to support continued growth and operational capacity, the NNSA has prepared this EA to assess the effects on the human and natural environment of the acquisition and operation of a new campus on the 245-acre property immediately east of the existing KCNSC Botts Campus, referred to as the Kansas City Non-Nuclear Component Expansion Transformation (KCNExT). The DOE's *National Environmental Policy Act Implementing Procedures* (10 Code of Federal Regulations [CFR] Part 1021) require preparation of a Site-Wide or Programmatic EA, a broad-scope document, to support programmatic decisions or to assess the impacts of all or selected functions at sites such as the KCNSC (10 CFR 1021.330(a)).

1.1 Background

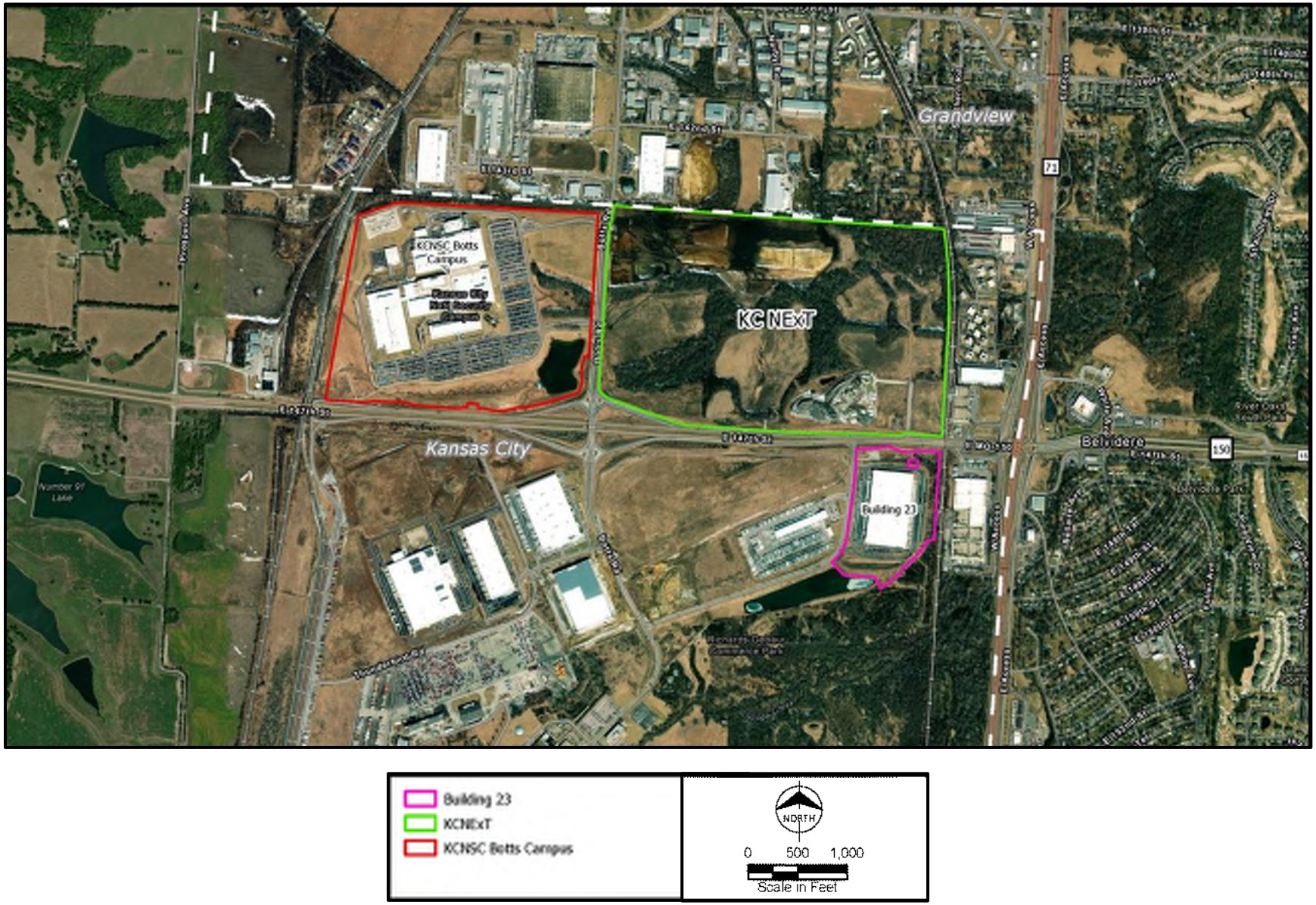
In the Fall of 2021, KCNSC was tasked with developing a conceptual area layout for a proposed new campus on the 245-acre property east of the existing KCNSC Botts Campus to support NNSA's national security mission and provide more space for the expanding workforce and long-term operational needs. The KCNSC Botts Campus, Building 23, and other Kansas City area locations are managed and operated by Honeywell Federal Manufacturing & Technologies (Honeywell FM&T) LLC under DOE Contract DE-NA0002839, and together are one of eight primary operating sites under the NNSA. The KCNSC is responsible for the procurement and manufacturing of nonnuclear mechanical, electronic, and engineered material components for nuclear weapons. Figure 1-1 illustrates the proximity of the KCNSC Botts Campus, Building 23, and proposed KCNExT.

In response to the KCNSC's growing workload and in support of NNSA's mission to maintain a safe, secure, and effective nuclear stockpile, NNSA is pursuing a plan to incrementally expand its manufacturing capacity and office space necessary to sustain continued production growth required by the current Program Of Record (POR). As proposed, KCNExT is a multi-year, multi-phase project, to create a series of independent projects to accommodate expected long-term growth beyond Fiscal Year (FY) 2028.

NNSA has a unique opportunity for non-traditional acquisition and development of the land adjacent to the existing KCNSC Botts Campus to support expanded mission objectives and future enterprise resilience. NNSA seeks to secure this property through an innovative lease-purchase acquisition with construction completed by the current landowner/developer. Pre-development studies were completed by the landowner/developer and are described later in the introduction and in Chapter 3 of this EA.

NNSA began to address its capacity needs in 2019 by maximizing office space leases, expanding shift operations, and acquiring additional manufacturing space, including Building 23. These efforts provide sufficient capacity to meet program requirements through FY 2028, but NNSA anticipates continued increases in workload and production needs requiring additional personnel, as well as research and manufacturing space within the KCNSC beyond FY 2028.

Figure 1-1: Location of the KCNSC Botts Campus, Building 23, and KCNExT



To address the unanticipated expanding workload and subsequent lack of adequate space at the KCNSC Botts Campus, between 2016 and 2019, the NNSA leased additional office space at three locations in Kansas City as described in Table 4-1. In 2019, the NNSA leased 275,000 SF of production space within Building 23 and in 2023 purchased Building 23 with the intention of using all available 425,000 SF for manufacturing starting in 2024. Table 1-1 summarizes additional leased office space and the number of personnel associated with each lease facility.

Table 1-1: KCNSC Additional Leased Office Space; 2016-2019

Year	Number of Personnel Relocated	Office Space Lease Location	NEPA ID; Applicable Categorical Exclusions
2016	96	KCNSC Building 20 South: 15431 Andrews Rd., Kansas City MO 64147	NSC 16-02 B1.24 Property Transfers
2017	423	KCNSC Building 21 West: 6700 W. 115th St. Overland Park KS 66211	KCNSC 17-03 B1.24 Property Transfers
2019	400	KCNSC Building 22 North: 9221 Ward Parkway, Kansas City, MO 64114	KCNSC 18-02 B1.24 Property Transfer

Source: NNSA, August 2019

This EA (1) updates the operations and activities conducted at the existing KCNSC Botts Campus and Building 23, as described in the Environmental Assessment for the Kansas City National Security Campus Sitewide Assessment of Botts and Building 23 Operations (DOE/EA 2167) completed in July 2021[1], (2) accounts for the private development of the subject property (KCNExT), (3) discloses the operations that would be extended to KCNExT, and (4) assesses the associated effects of these actions on the human and natural environment. With and during implementation of this proposed action, KCNSC operations would continue at both the existing KCNSC Botts Campus and Building 23 locations.

1.2 Purpose and Need for Agency Action

The purpose of the proposed action is to support expanded mission objectives and future enterprise resilience for the continued success of NNSA's Stockpile Stewardship Program. The proposed action would satisfy the following needs:

Current and forecasted production increases - Since completing the move to the KCNSC Botts Campus location in 2013, the NNSA and their onsite operations and management contractor, Honeywell FM&T, have experienced significant growth in workload and personnel to support the modernization of the nuclear stockpile, and supporting mission assignments for new or modernized weapons. Together the existing KCNSC Botts Campus, Building 23, and three major office space leases currently support more than 7,800 employees (across multiple shifts), with approximately 1,000 employees to be added by 2032 to support forecasted operational levels. The NNSA has redistributed staff and operations within the KCNSC Botts Campus, leased additional administrative office space across the Kansas City metropolitan area; and in 2023 purchased Building 23, a warehouse at 14901 Andrews Road in Kansas City, Missouri to provide additional production space near the KCNSC Botts Campus. Updated forecasts and workload projections beyond 2028 indicate the need for additional manufacturing space and the flexibility to rotate operational needs across KCNSC facilities.

Expansion of activities to support the NNSA's national security mission –KCNSC facilities are charged with manufacturing and sourcing more than 85 percent of the non-nuclear components in the United States (US) military's weapon systems. Support of the Nation's Defense Programs requires large expanses of manufacturing space dedicated to NNSA's mission of keeping our nation's nuclear stockpile safe, secure, and reliable by delivering mission-critical mechanical, electrical, and engineered material

[1] https://www.energy.gov/sites/default/files/2021-08/final-ea-2167-nsc-botts-bldg-2021-07-26.pdf

components. The continued flexibility to update, share, and relocate manufacturing, warehouse, and administrative operations is needed to address NNSA's mission while relieving existing space pressures within the KCNSC Botts Campus, Building 23, and additional leased office space.

1.3 Scope of this Environmental Analysis

This EA:

- Describes the purpose and need for agency action and provides background information on the KCNSC (Chapter 1);
- Describes the proposed action, actions considered but removed from further consideration, and the no-action alternatives considered to meet the applicable facility needs (Chapter 2);
- Analyzes the potential direct and indirect effects of the proposed action and no-action alternative on the human and natural environment (Chapter 3);
- Identifies and characterizes cumulative effects that could result from the proposed action in relation to past, present, and other reasonably foreseeable future actions described in this EA (Chapter 4); and
- Discusses applicable regulatory requirements related to the proposed action (Chapter 5).

1.4 Public Involvement

NNSA has notified the City of Kansas City, Missouri; the City of Grandview, Missouri; the Missouri Department of Natural Resources (MDNR); and the United States Environmental Protection Agency (EPA) of the proposed action and solicited input and issues from each regarding the scope of the action and any approvals or permits those entities may require. NNSA will not conduct a public hearing, but the EA will be made available online for public review and comment. NNSA will continue to coordinate with Federal, State, and local agencies to maintain the required clearances and permits to support ongoing operations. A listing of current State and local environmental permits, certifications, and registrations maintained by NNSA for the KCNSC is provided in Table 3-1 of this EA.

2.0 DESCRIPTION OF ALTERNATIVES

This chapter describes the proposed action and no-action alternatives that NNSA analyzed to support operational needs at KCNSC.

2.1 Proposed Action – Acquire and Operate a New Facility/Campus and Extend Operations Across the Existing KCNSC Botts Campus and Building 23

To continue to meet the NNSA's nuclear security mission and maintain manufacturing and process requirements to support national security as set forth in the Administration's Nuclear Posture Review and captured in NNSA's Stockpile Stewardship and Management Plan, the NNSA developed a plan to acquire and operate a new facility/campus (KCNExT) near the existing KCNSC Botts Campus and Building 23 to provide flexibility to expand, reconfigure, and/or move any or all operations conducted across the KCNSC Kansas City metropolitan area facilities. Development of this property is proposed through a public-private partnership with the property development company that owns the neighboring parcel of land. Phased development is proposed over several years to construct individually necessary portions of the property to meet expanding requirements. In addition to acquiring and operating the KCNExT campus, KCNSC may move operations and employees from other leased facilities in the Kansas City metropolitan area to KCNExT, terminating leases at those locations as warranted.

The existing and anticipated operations conducted at the KCNSC Botts Campus, Building 23, and KCNExT may include but would not be limited to:

- Electrical and Mechanical Assembly – silicone, epoxy, and other adhesive bonding; non-foam encapsulation; lamination; and fiber optics
- Fabrication and Manufacturing (chemical, mechanical, material preparation) – autoclave operation, ceramic forming and processing, chemical manufacturing, molding, foam processing, furnace and heat-treating oven bake and curing, sieving powders, stereolithography, thermal processing, and actively manufactured materials
- Surface Preparation (chemical and mechanical) – Alodine chemical film, aqueous strip, blasting, cleaning (aqueous, plasma, solvent, and ultrasonic), deburring, vapor degreasing, depotting, chemical etching, and mold-release applications
- Coating and Plating – application of dry film, aerosol, parylene, liquid, and powder coatings; electronickel, chrome, and gold plating
- Machining – cutting (acetylene, plasma, wet/dry), drilling, grinding, wet and dry milling, roll milling, sheet metal work, laser cutting and marking
- Testing and Analysis – calibration; inspection; leak-detection; x-ray; testing of electronics, explosives, kinematics, pressure, and thermal; and chemical and mechanical analytical laboratory processes
- Welding, Brazing, and Soldering – electron beam, laser, gas tungsten arc, resistance, and manual
- Support and Miscellaneous – facility maintenance, assembly and disassembly, diesel and gasoline combustion, recycling, janitorial services, packaging, shipping, and personal care
- Administrative and Logistics Support – security, transportation, storage, waste management, medical laboratory, food preparation and cafeteria, and similar support activities

The following new technologies may be introduced during the next 5-10 years and would be applied across all three locations:

- Optical Initiation – Clean room electric space
- Titanium carbon fiber housing and mounts

As proposed, KCNExT (illustrated in Figure 2-1) is a multi-year, multi-phased project to create an additional office space for 2,700 employees and an additional approximately 1.1M square feet (SF) of manufacturing space to accommodate expected long-term growth. Construction of the South Development Stage (south of the stream depicted in Figure 2-1) is planned to begin in October 2023 and will likely continue through 2030. The South Development Stage is envisioned to include new office space, approximately 700,000 SF of manufacturing space, a separate central utility plant (CUP) along with other manufacturing support facilities; intermodal loading/unloading; truck inspection station; and employee parking for approximately 4,000 vehicles. The North Development Stage (north of the stream) would begin at a later date, adding another 400,000 SF of manufacturing and office space along with support services, and approximately 1,200 additional employee parking spaces. As facilities come online, development of an Evergy Substation may occur along the western edge of the subject property to support the electrical demands of all three KCNSC facilities.

Figure 2-1: KCNExT Development Plan



2.2 No-Action Alternative

Under the no-action alternative, operations currently conducted at the KCNSC Botts Campus and Building 23 would continue with no modification of operating space. At the end of 2023, NNSA/KCNSC would gain an additional 200,000 SF of manufacturing space within Building 23 as addressed in the July 2021 Sitewide Environmental Assessment (DOE/EA 2167) when the current tenant's lease expires. The KCNSC Botts Campus facilities were designed with the goal of maximum flexibility in arranging production work to accommodate surges and changes in workload requirements. Under the no-action alternative, the NNSA would continue to adjust operations and attempt to support required workloads. By FY 2028 and beyond, schedule delays would occur because of projected shortfalls in manufacturing space and capabilities required to meet forecasted workloads and NNSA mission requirements.

Since 2015, the NNSA has taken steps to optimize operations and expand capacity within the Kansas City metropolitan area and at the KCNSC Botts Campus including:

- Added second and third work shifts.
- Purchased new and additional manufacturing equipment.
- Hired 2,000 additional employees to accomplish additional workload.
- From 2016 through 2019, leased buildings to provide approximately 900 additional office spaces.
- In 2020, expanded operations to Building 23.
- In 2024, maximize operational space within Building 23.

The no-action alternative would not satisfy NNSA's operational needs nor its ongoing mission, and therefore is not considered a reasonable alternative. The no-action alternative is only carried forward as a baseline for comparison to the proposed action.

2.3 Actions Removed from Further Consideration

Expansion of the KCNSC Botts Campus footprint including construction of additional facilities on campus is not feasible because of the amount of additional manufacturing space needed. It would not address the forecasted production needs and would not assist with NNSA's ability to meet critical deadlines. Relocation of operations to other existing NNSA facilities, located outside of the Kansas City metropolitan area, would be prohibitively expensive, time consuming, and infringe on the operations underway at those facilities, potentially affecting their current capacity and the NNSA's ability to meet its client needs.

Expansion of the Building 23 facility is not feasible as the adjacent properties are developed or planned for development as part of the I-49 Industrial Park. Although the NNSA will gain an additional 200,000 SF of manufacturing space within Building 23 at the end of 2023 when the current tenant leaves, that additional manufacturing space is already programmed for use to meet current operational goals.

3.0 AFFECTED ENVIRONMENT AND ENVIRONMENTAL IMPACTS

This chapter describes existing physical and operational conditions at the KCNSC Botts Campus and Building 23, those operations to be extended to KCNExT, and describes the potential effects of the proposed action and no-action alternatives on the human and natural environment. This section also provides an overview of the pre-development conditions on the KCNExT site including the studies and permits obtained by the landowner/developer to construct the improvements the NNSA intends to lease.

The KCNSC Botts Campus, Building 23, and KCNExT sites are within the city limits of Kansas City, Jackson County, Missouri, approximately 16 miles south of downtown Kansas City, Missouri. The KCNSC Botts Campus, at 14520 Botts Road, occupies approximately 192 acres of land at the northwest corner of the intersection of Missouri Highway 150 (MO-150) and Botts Road. The campus is comprised of multiple buildings, parking areas, and general open space. Building 23, at 14901 Andrew's Road, south of MO-150 and approximately one mile east of the KCNSC Botts Campus, consists of approximately 37 acres, the majority of which is developed and occupied by a large industrial building, paved roads, and parking areas. KCNSC currently occupies approximately 275,000 SF of this 450,000 SF building. The remaining 175,000 SF of Building 23 is occupied by another tenant whose lease expires at the end of 2023. Figure 1-1 provides an overview of the proximity and layout of the KCNSC Botts Campus, Building 23, and the KCNExT site.

KCNExT Subject Property

As noted in Chapter 1, the NNSA seeks to secure the use of the property east of the KCNSC Botts Campus and Botts Road for KCNExT through an innovative lease-purchase acquisition from the landowner/developer who will complete construction of the planned improvements. The subject 245-acre property east of the existing KCNSC Botts Campus is largely undeveloped, supporting a mixture of land cover types ranging from old field, open meadow, and prairie remnants to riparian woodlands and wetlands along stream channels that generally flow across the site from west to east. Grass species common on the property include: Indian grass (*Sorghastrum nutans*), sideoats grama (*Bouteloua curtipendula*), switchgrass (*Panicum virgatum*), tall fescue (*Schedonorus arundinaceus*), smooth brome (*Bromus inermis*), sunflowers (*Helianthus spp*.), clover (*Trifolium sp*.), goldenrod (*Solidago spp*.), and foxtails (various species). Wooded areas were dominated by deciduous trees and shrubs including common hackberry (*Celtis occidentalis*), American elm (*Ulmus americana*), black walnut (*Juglans nigra*), silver maple (*Acer saccharinum*), bush honeysuckle (*Lonicera maackii*), and coralberry (*Symphoricarpos orbiculatus*). Water features on the property consist of unnamed intermittent and ephemeral channels, considered upper watershed tributaries to the Little Blue River; and several small wetlands in low-lying areas dominated by sedges (*Carex spp*.), broadleaf cattail (*Typha latifolia*), rough barnyard grass (*Echinochloa muricata*), dotted smartweed (*Persicaria punctatum*), ash-leaf maple (*Acer negundo*), and green ash (*Fraxinus pennsylvanica*), The southeast corner of the subject property contained an abandoned asphalt plant (Former Ideker Site) which included a diesel fueling station with above-ground fuel storage tanks and areas where large piles of aggregate and asphalt-making components (e.g., bitumen) were stored exposed to the elements. This portion of the subject property also contains several capped and closed petroleum wells from previous exploration efforts.

The landowner/developer conducted the following studies prior to initiating development of the subject property:

- ***Wetland Delineation and Stream Assessments (September and October 2020)*** – Field delineations were conducted according to U.S. Army Corps of Engineers (USACE) guidance for the eastern two-thirds of the subject property (approximately 146 acres) in September 2020, and the western one-third of the subject property (approximately 73 acres) in October 2020. Several small emergent wetlands and one forested/scrub-shrub wetland were identified on the property associated with shallow depressions and low-lying areas along ephemeral channels. Three of the

emergent wetlands were considered to be jurisdictional under Section 404 of the Clean Water Act rules in place in late 2020. The USACE issued separate Approved Jurisdictional Determinations (AJDs) in November 2020 and January 2021 based on the two delineation reports submitted. Each AJD is valid for five years from issuance, allowing the developer to proceed with construction activities that may place fill materials within the limits of water features considered jurisdictional under Section 404. The Wetland Delineation Report and AJDs are provided in Appendix B.

- ***Acoustic Survey and Analysis (June 2021)*** – An acoustic survey was conducted to determine the presence or absence of three federally listed bat species –Indiana bat (*Myotis sodalis*) listed as endangered, gray bat (*Myotis grisescens*) listed as endangered, and northern long-eared bat (*Myotis septentrionalis*) proposed for listing as endangered. Potential bat habitat in the form of wooded areas along streams where bats may forage or roost was identified within the boundaries of the subject property. The acoustic survey indicated there is a low probability that Indiana bats, gray bats, or northern long-eared bat are present within or use the subject property. The tricolored bat (*Perimyotis subflavus*), proposed for listing as endangered, was detected during the survey, but would also have a low probability of presence within or use of the subject property. The Acoustic Survey and Analysis Report is provided in Appendix C.
- ***Phase 1 Investigations (February 2020, March 2020, February 2022, and May 2023)*** – The landowner/developer conducted three Phase 1 Environmental Site Assessments (Phase I ESA) to assist in identifying Recognized Environmental Concerns (RECs) in February 2020, March 2020, and February 2022, to cover the extent of the subject property. Each Phase I ESA was conducted in accordance with ASTM E1527-21, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. In May 2023, NNSA conducted a Phase I ESA to support the potential lease of the subject property. No RECs were identified on any of the Phase 1 ESAs conducted. An existing petroleum pipeline and remnants of previous oil exploration, including several capped wells within the far eastern portion of the subject property were identified, however, based on the plugging status and the relatively short time the wells were operated, these oil wells do not represent a REC to the site. The NNSA's Phase 1 and each of the landowner/developer's Phase 1 ESAs are provided in Appendix D.
- ***Phase 2 Investigation (January 2023)*** – The landowner/developer collected soil samples to determine if contaminated soils were present on the subject property based on historic land uses. None of the samples indicated the presence of volatile organic compounds (VOCs) or total petroleum hydrocarbons (TPH) that exceeded the maximum reporting limits defined by the MDNR, such as diesel fuel, fuel oil, kerosene, or mineral spirits. The sampling indicated the soils from the former Ideker site are unacceptable for re-use as fill on-site. The landowner/developer's Phase 2 ESA is provided in Appendix D.

In June 2023, the NNSA conducted a Cultural Resources Background Review to identify if archaeological surveys were previously conducted on or near the subject property and if those surveys indicated the potential for buried cultural sites. Several surveys have been conducted across the property and on adjacent properties as part of utility routing, site development, and transportation improvements sponsored by other agencies. A 2020 archaeological survey identified a prehistoric lithic scatter in the southeastern portion of the property. Artifacts were collected but the site was not evaluated for its eligibility for listing on the National Register of Historic Places (NRHP). Based on the information reviewed, the site would not be affected by the planned development of the subject property. The NNSA Cultural Resources Background Review Memorandum is provided in Appendix E.

The landowner/developer also conducted a Traffic Impact Study to determine the roadway and access needs to support use of the site. The preliminary results of the Traffic Impact Study recommend a number of ingress/egress points, new turn lanes into and out of the site, and the installation of a traffic signal at

one intersection to manage traffic particularly during peak travel periods and shift changes. The improvements recommended by the preliminary Traffic Impact Study are described in Section 3.8.2.1.

The landowner/developer has obtained the necessary state and Federal permits and approvals to begin construction on the subject property based on the studies conducted to date. As illustrated in Figure 2-1, overall development of the subject property will occur over two development stages, with construction of facilities within the southern half of the site (south of the stream) first, followed at a later date by construction of additional facilities within the northern portion of the subject property, north of the stream. Individual buildings and site improvements will be phased to respond to tenant needs. The stream corridor and much of the native vegetation associated with it would remain to not only enhance the setting of the development, but to potentially support recreational/open space uses such as walking trails, picnic areas, and outdoor fitness stations for occupants, and to augment onsite stormwater management.

The landowner/developer is responsible for obtaining all applicable Federal, State, and local permits to construct the planned improvements including but not limited to: zoning approval; grading; stormwater management (National Pollution Discharge Elimination System [NPDES]) and development and implementation of a Stormwater Pollution Prevention Plan (SWPPP); utility relocations and connections; solid and hazardous waste disposal during construction; and temporary traffic control.

Existing KCNSC Facilities – Botts Campus and Building 23

For the KCNSC Botts Campus and Building 23, the NNSA holds a series of environmental permits, certifications, and registrations ensuring compliance with applicable Federal, State, and local regulations that apply to various environmental resource categories addressed in this chapter of this EA. Table 3-1 lists the existing environmental permits, certifications, and registrations held by the NNSA for these existing facilities. Some permits provide combined coverage of both the KCNSC Botts Campus and Building 23 and may also provide coverage for KCNExT. Some permits provide individual coverage for either the KCNSC Botts Campus or Building 23, and some individual permits may be needed for KCNExT as facilities come online. In addition to the listings in Table 3-1, these permits, certifications, and registrations are also referenced under the applicable resource category described in this chapter of the EA. The permits, certifications, and registrations anticipated for KCNExT are described within the applicable resource discussions. Others may be identified and obtained by the NNSA as facilities come online or as operations adapt to forecasted workloads.

For the purpose of discussing the potential effects of the proposed action, the KCNSC Botts Campus, Building 23, and KCNExT will be collectively referred to as ‘KCNSC facilities’ unless separate descriptions are warranted.

Table 3-1: KCNSC Existing Permits, Certifications, Registrations, and Plans

Permit/Certification/ Registration/Plan	Applicable Regulation	Applicable KCNSC Facility	Identification #	Regulating Authority	Effective Date	Expiration Date
AIR						
Air Special Case De Minimis Permit	*Clean Air Act*	Botts Campus (NNSA operation); Building 23	Installation ID: 095-2442; Permit No.: 032018-001B	MDNR	3/2/2018	3/2/2028
Air Special Case De Minimis Permit	*Clean Air Act*	Botts Campus (CenterPoint operation)	Installation ID: 095-2450; Permit No.: 022018-007B	MDNR	2/22/2018	2/22/2028
Air Permit	*Clean Air Act*	Botts Campus; Building 23	21/22-AQ-OP-84	KCMO	7/31/2023	7/31/2024
SOLID WASTE						
Solid Waste Management Plan	*Resources Conservation and Recovery Act (RCRA)*	Botts Campus	Contingency Plan	EPA	1/21/2021	Not Applicable
Solid Waste Management Plan	*RCRA*	Building 23	Contingency Plan	EPA	12/1/2020	Not Applicable
Facility Identification Number for registration as a Large Quantity Generator (LQG)	*Under RCRA (1976), the KCNSC Botts Campus is registered with EPA as a LQG of hazardous waste; permit not required*	Botts Campus	EPA ID MOR000545376	MDNR	10/16/2012	Not Applicable
Facility Identification Number for registration as a Large Quantity Generator (LQG)	*Under RCRA (1976), Building 23 is registered with EPA as a LQG of hazardous waste; permit not required*	Building 23	EPA ID MOR000564674	MDNR	9/25/2020	Not Applicable
STORMWATER						
No Exposure Certification for exclusion from NPDES Stormwater Permitting	*Clean Water Act, Section 402, NPDES*	Building 23	MONX00745	MDNR	12/5/2019	12/4/2024
No Exposure Certification for exclusion from NPDES Stormwater Permitting	*Clean Water Act, Section 402, NPDES*	Botts Campus	MONX00441	MDNR	7/27/2020	7/26/2025
Stormwater Pollution Prevention Plan (SWPPP)	*Clean Water Act, Section 402, NPDES*	Botts Campus	--	Internal	3/1/2020	3/1/2025
Stormwater Pollution Prevention Plan (SWPPP)	*Clean Water Act, Section 402, NPDES*	Building 23	--	Internal	In Progress	In Progress

Table 3-1 continued: KCNSC Existing Permits, Certifications, Registrations, and Plans

Permit/Certification/ Registration/Plan	Applicable Regulation	Applicable KCNSC Facility	Identification #	Regulating Authority	Effective Date	Expiration Date
WASTEWATER						
Industrial Wastewater Discharge Permit	*Clean Water Act, Section 402, NPDES*	Botts Campus	--	KCMO	3/23/2023	12/31/2027
Toxic Organic Pollutant Management (TOPM) Plan	Clean Water Act, Section 307 (b) & (c)	Botts Campus	--	KCMO	6/18/2021	6/18/2026
Sludge Discharge Plan	*Clean Water Act, Section 402, NPDES*	Botts Campus	--	KCMO	6/18/2021	6/18/2026
WATER RESOURCES						
Spill Prevention Control and Countermeasure (SPCC) Plan	*Clean Water At, Section 331, Oil Pollution Prevention*	Botts Campus	--	EPA	10/1/2022	10/1/2027
Spill Prevention Control and Countermeasure (SPCC) Plan	*Clean Water At, Section 331, Oil Pollution Prevention*	Building 23	--	EPA	In Progress	In Progress
EMERGENCY MANAGEMENT						
Emergency Management Plan [UPDATE IN PROGRESS]	DOE Order 151.1D	Botts Campus; Building 23	--	USDOE	8/20/2020	8/20/2023
TRANSPORTATION						
Hazardous Material Transportation Security Plan	49 CFR Part 172, Subpart I	Botts Campus; Building 23	--	USDOT	1/18/2021	Not Applicable

3.1 Land Use

3.1.1 Affected Environment

3.1.1.1 General Land Use

Development of the KCNSC Botts Campus site was initiated in 2010 with facility construction completed in 2013. Construction of the Building 23 facility was completed in 2016 by CenterPoint Properties for use as an industrial warehouse. Prior to construction of these facilities the area was part of the Richards-Gebaur Air Force Base. Richards-Gebaur opened in 1941 as the Grandview Airport on land owned by the city of Kansas City, Missouri. The U.S. Army Air Forces and the U.S. Navy used the base during World War II as an overflow training airfield. With the onset of the Cold War, the airport was leased by the U.S. Air Force (USAF) and upgraded to accommodate support units and fighter squadrons. In 1994, all active military operations ceased at the facility and the city of Kansas City, Missouri re-acquired most of the land. In 2003, the Port Authority of Kansas City (PortKC) took over the property to commence the intense property clean-up and to attract private development. The KCNSC Botts Campus and Building 23 sites were both open areas being used to cultivate crops and as hay pasture before they were developed. Currently, the KCNSC Botts Campus is zoned for Urban Redevelopment and Building 23 is zoned for Manufacturing use by the city of Kansas City, Missouri (KCMO, 2021). Current land use designations are illustrated in Figure 3-1.

Future land use plans indicate the areas immediately surrounding the KCNSC facilities will continue to be used for industrial purposes, with the area immediately south of MO-150 developed since 2021 as part of the Kansas City Intermodal Facility and I-49 Industrial Park. A mix of residential and commercial development would likely continue east of I-49 and north of E. 139th Street, approximately one-half mile to the north of KCNExT. (KCMO, 2020 and Grandview, 2020).

3.1.1.2 Properties of Potential Environmental Concern

Several properties of potential environmental concern, primarily current or past hazardous waste generators, are adjacent to the KCNSC facilities. Hazardous wastes are wastes with properties that make them dangerous or potentially harmful to human health or the environment and can be liquids, solids, contained gases, or sludges. The inventory of such properties shown in Figure 3-2 includes two non-National Priorities List (NPL) Superfund sites associated with activities conducted at the former Richards-Gebaur Air Force Base. As a follow-up to closure of the base in 1994 under the Defense Base Closure and Realignment Act of 1990, the EPA issued a Record of Decision (ROD) (Document ID 40287548) designating the area as a Superfund site with two operable units (soil and groundwater) requiring remediation. The Air Force Real Property Agency has been responsible for the environmental cleanup and property disposal at these locations since 1994.

Figure 3-1: Land Uses in the Proximity of the KCNSC Facilities

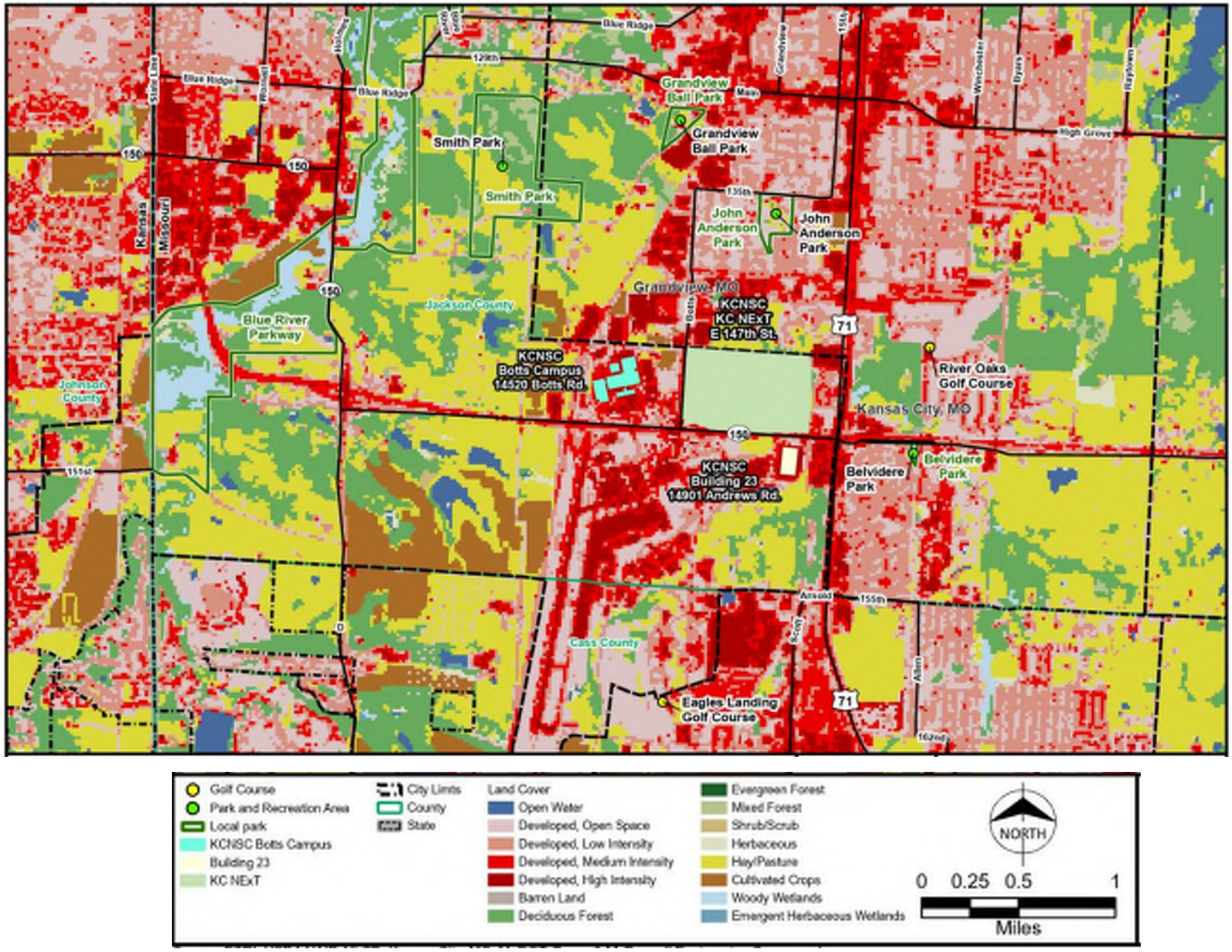
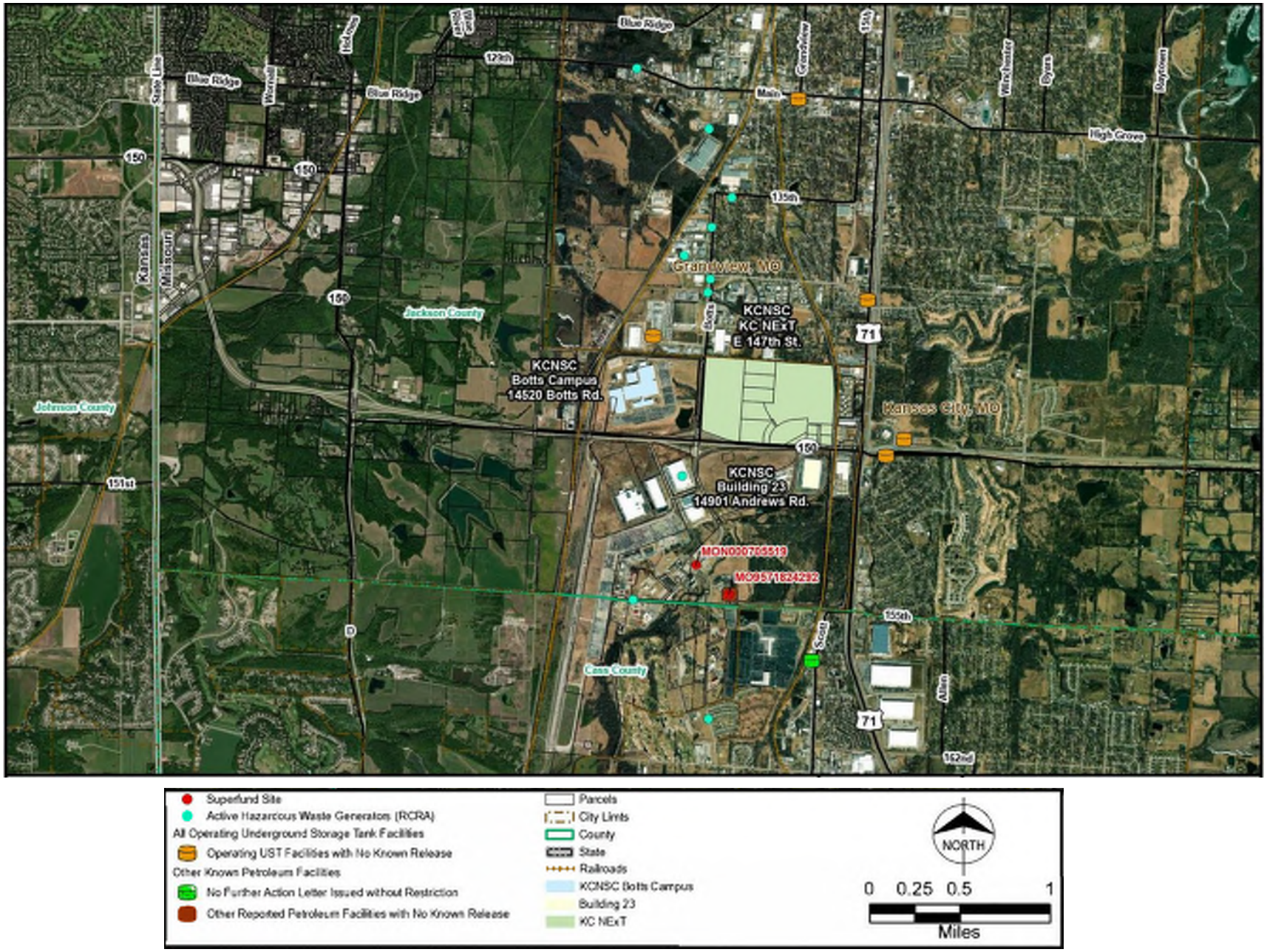


Figure 3-2: Properties of Potential Environmental Concern



With the continuation of remediation and monitoring activities as required under the 2004 ROD, in 2013 the USAF issued a Five-Year Review report noting the property is not on the NPL list, and although not required under the Comprehensive Environmental Response, Compensation, and Liability Act of 1976 (CERCLA), certain remedial actions continue to be performed in accordance with CERCLA guidance. The two identified sites include: MO9571824292 and MON000705519 - adjacent to and south of MO-150 and south of the KCNSC Botts Campus. Soil and groundwater samples continue to be analyzed on a yearly basis.

The RCRA of 1976 regulates the generation, storage, handling, treatment, and disposal of hazardous wastes. Generators of hazardous wastes, as defined in 40 CFR 261, are required to be registered with the EPA based on annual quantities of hazardous materials generated. The EPA defines the categories of Hazardous Waste Generators as very small quantity generators (VSQGs), small quantity generators (SQGs), and large quantity generators (LQGs). Twelve registered active hazardous waste generators were identified within a two-mile radius of the KCNSC Botts Campus (EPA 2021a; EPA 2021b).

A review of MDNR's Environmental Site Tracking and Research Tool (ESTART) database was conducted to identify underground storage tanks (USTs) and petroleum storage facilities within two miles of the subject property. Five properties are currently operating USTs and two additional active petroleum storage facilities were identified (MDNR 2021).

The KCNExT subject property was historically used for agriculture with the operation of an asphalt batch plant occurring in the southeast portion of the property. The eastern portion of the property contains capped petroleum wells once used for exploration. NNSA completed a Phase I ESA and included the current landowner/developer's Phase 1 ESAs and Phase 2 ESA as reference for the subject property. No RECs are present but the Phase 2 ESA indicated the soils within the southeastern portion of the property would not be suitable for use as fill material.

3.1.2 Environmental Impacts

3.1.2.1 Proposed Action

Operation of KCNExT as part of the larger KCNSC facilities would be compatible with existing and proposed land uses and published plans for the surrounding area. The land area bounded by E. 139th Street on the north, I-49/US 71 on the east, Arnold Avenue/E. 155th Street on the south and the Kansas City Southern (KCS) rail line on the west is currently used and planned for industrial uses. Since 2021, additional development associated with the Kansas City Intermodal Facility on the former Richards-Gebaur Air Force Base and the I-49 Industrial Park has occurred south of MO-150 and west of I-49/US 71. As further described under Section 3.8.2.1, improvements including the creation of turn lanes along Botts Road and the addition of a traffic signal, would be made to manage increased traffic volumes during peak travel periods and shift changes associated with KCNExT. KCNExT and the planned roadway improvements would not change the use of adjacent properties. No RECs would be affected by the development or operation of KCNExT nor the continued operation of the KCNSC Botts Campus and Building 23. The KCNExT subject property is zoned as Manufacturing[2] and its development and use would be compatible with the existing and planned uses in its vicinity.

3.1.2.2 No-Action Alternative

The NNSA would not lease portions of the KCNExT subject property over time, while the property would most likely be developed to suit another industrial user. By FY 2028, NNSA would need to determine how to modify its current operational environment to support the forecasted workloads and continue to support its mission, possibly by leasing another facility farther away from the KCNSC Botts Campus and Building 23, or could be forced to move its Kansas City operations to another location, substantially changing the business environment along the MO-150 corridor and within this part of Kansas City. Most likely the area

[2] https://maps.kcmo.org/apps/parcelviewer/ 2023

would continue to be zoned for industrial uses due to the prevalence of such uses in the area and regional transportation access provided by MO-150 and US 71/I-49.

3.2 Air Quality

3.2.1 Affected Environment

The Clean Air Act (CAA), enacted in 1977 and amended in 1990, requires the EPA to establish National Ambient Air Quality Standards (NAAQS) for pollutants considered harmful to public health and the environment. Ambient air is defined as "that proportion of the atmosphere, external to buildings, to which the general public has access" (40 CFR 50.1(e)). The EPA has set NAAQS for six criteria air pollutants - carbon monoxide (CO), lead (Pb), nitrogen dioxide (NO_2), ozone (O_3), particulate matter (PM), and sulfur dioxide (SO_2).

States and federally recognized tribes are required to regularly report ambient air quality data to the EPA, which the EPA uses to determine whether the state or tribe meets the NAAQS for each criteria pollutant (attainment) or does not meet the NAAQS for each criteria pollutant (nonattainment). Nonattainment areas are required to prepare a State Implementation Plan (SIP) defining how the state or local government will bring the area into attainment status (EPA, 2017a).

Section 176(c) of the CAA establishes the requirement for general conformity to ensure that Federal actions support a state or area's compliance with the SIP in nonattainment areas. General conformity requirements must be demonstrated for a given project or action to ensure that the action will not cause or contribute to violations of the NAAQS or delay attainment of the NAAQS in nonattainment areas. General conformity is determined by whether an applicable project complies with the *de minimis* levels for annual criteria pollutant emissions, as established in 40 CFR Part 93.153, and listed in Table 3-2.

Table 3-2: General Conformity *De Minimis* Thresholds

Pollutant	*De Minimis* Threshold (tons/year)
O_3 (VOC's or NOx)	
Serious nonattainment area	50
Severe nonattainment area	25
Extreme nonattainment area	10
Other O_3 nonattainment areas outside an O_3 transport region:	100
Other O_3 nonattainment areas inside an O_3 transport region:	
VOC	50
NO_x	100
Carbon Monoxide: All maintenance areas	100
SO_2 or NO_2: All nonattainment areas	100
PM_{10}:	
Moderate nonattainment areas	100
Serious nonattainment areas	70
$PM_{2.5}$ (direct emissions, SO_2, NOx, VOC, and Ammonia	
Moderate nonattainment areas	100
Serious Nonattainment areas	70
Lead: All nonattainment areas	**25**

Source: 40 CFR Part 93.153

De minimis thresholds are applicable to total emissions from construction and operation phases of a project. A project for which emissions would exceed annual *de minimis* thresholds would require further conformity analysis prior to receiving support from a Federal agency. A project for which emissions would not exceed *de minimis* thresholds would be exempt from further conformity analyses. The MDNR implements the Missouri SIP, which is approved by the EPA, and issues permits through its Air Pollution Control Program (APCP).

As described in Section 1.0 of this EA, the KCNSC consists of two separate operations. The production operation is owned by NNSA and operated by Honeywell FM&T which manufactures non-nuclear components of nuclear weapons. The support operation owned by CenterPoint includes equipment for providing HVAC, hot water, and emergency power to the KCNSC. The production and support activities have separate installation identification numbers (IDs) and are permitted separately by MDNR's APCP but are considered part of the same installation. The NNSA and CenterPoint operations at the KCNSC Botts Campus and Building 23 were issued special case *de minims* permits which allow for combined operations that maintain total emissions of PM_{10}, NO_x, volatile organic compounds (VOCs), and hazardous air pollutants (HAPs) that do not exceed *de minimis* thresholds. The NNSA production facility emits PMs, NO_x, VOC, and HAPs emissions, resulting from the activities described in Section 2.1, and operates under Installation Number 095-2442 and Permit No. 032018-001. The CenterPoint support operation operates under Installation Number 095-2450 and Permit No. 022018-007. KCNSC operations at Building 23 are covered under the NNSA production facility permit. Table 3-3 provides the emission limits for combined operations at the KCNSC Botts Campus and Building 23.

Table 3-3: KCNSC Permitted Air Pollutant Emission Limits (tons/year)

Pollutants	*De Minimis* Level	Limits in NNSA Permit 032018-001	Limits in CenterPoint Permit 022018-007
PM_{10}	15.0	<5.0	<10.0
NO_x	40.0	<10.0	<30.0
VOC	40.0	<39.0	<1.0
Individual HAP	Varies	<SMALL	
Combined HAPs	25.0	<25.0	

Source: KCNSC, 2021; NNSA Permit No. 032018-001 and CenterPoint Permit No. 022018-007

NNSA also maintains an air quality permit number from the Kansas City air quality program, renewed annually. No city air quality requirements are enforced beyond MDNR requirements. NNSA also monitors operations and emissions to demonstrate that the existing KCNSC facilities maintain exemptions from additional Federal and State air regulations.

3.2.2 Environmental Impacts

3.2.2.1 Proposed Action

Operation of KCNExT would generate emission levels anticipated to fall below the limits defined in the existing NNSA and CenterPoint special case *de minimis* permits during the early stages of development south of the stream, but may require a separate permit as additional manufacturing areas come online during the continuation of operations as the site is built out. Expansion of operations to KCNExT would require installation of new/updated emission control units at all KCNSC facilities, depending on the workload to be supported, to maintain levels under the special case *de minimis* thresholds. The NNSA would continue to monitor air emissions from all facilities to maintain compliance with the permits and any changes in the regulations. If future growth in operations would result in emissions exceeding the current permitted limits, the NNSA would seek to amend existing permits or request that a new permit be issued by MDNR in accordance with applicable Federal and State regulations. Operation of KCNExT would not

affect the overall attainment status of the area, would not exceed the NAAQS, and would maintain compliance with the SIP.

3.2.2.2 No-Action Alternative

The NNSA would continue to operate under the special case *de minimis* permits (see Table 3-1) and continue to monitor air emissions from the KCNSC Botts Campus and Building 23 to ensure compliance with permitted limits. The NNSA would forecast any corresponding increase in emissions resulting from any growth or expansion of operations planned in the future. If projected emissions would exceed the current permitted limits, the NNSA would apply for an amendment to the existing permit or request a new permit from MDNR in accordance with applicable Federal and State regulations prior to expanding operations and/or increasing emissions. Continued operations of the KCNSC Botts Campus and Building 23 would not affect the overall attainment status of the area, would not exceed the NAAQS, and would maintain compliance with the SIP.

3.3 Aesthetics

3.3.1 Affected Environment

3.3.1.1 Visual

The KCNSC facilities are along MO-150, an open, relatively flat, mixed-use corridor. MO-150 is a six-lane divided highway with a grade-separated interchanges at Botts Road at the southeast corner of the KCNSC Botts Campus, at the KCS rail crossing at the southwest corner of the KCNSC Botts Campus, and at the intersection of MO-150 and I-49/US-71 just east of Building 23 (see Figure 1-1). As described in Section 3.1, the surrounding landscape includes commercial and industrial development, agricultural areas, and open and forested spaces characteristic of suburban to rural transitional areas around the Kansas City metropolitan area. No designated or recognized scenic areas, overlooks, or byways are within the vicinity of the KCNSC facilities.

3.3.1.2 Noise

The major sources of noise in the vicinity of the KCNSC facilities include activities associated with the numerous industrial, manufacturing, and warehousing uses along the MO-150 and I-49/US 71 corridors, primarily related to heavy truck traffic and other vehicles entering and leaving the facilities, and rail traffic along the KCS rail line to the west. Noise on the KCNSC Botts Campus and Building 23 sites is the result of the manufacturing processes conducted inside of the buildings, vehicle/traffic noise from employee and delivery vehicles entering and existing the sites, and ancillary operational and maintenance noises from exhaust systems and grounds maintenance activities. Facility operations occur within buildings or occur far enough from site boundaries that noise from these sources would not be distinguishable from background noise originating from beyond the site boundary. Noise sensitive receptors (e.g., residences, schools, churches, etc.) are more than one half-mile away from the KCNSC facilities.

3.3.2 Environmental Impacts

3.3.2.1 Proposed Action

KCNExT would generate the same types of noise generated at the KCNSC Bott Campus and Building 23 as the result of manufacturing practices, material and product shipping and receiving activities, operational noises associated with the CUP, employee and vendor vehicles traveling across the site and along MO-150, I-49/US 71, and the surrounding road system. Because the KCNSC facilities are in an industrial area and away from sensitive noise receptors, increases in operational noise should have a minimal effect on the overall sound levels within the immediate area. The building type and design of KCNExT would be similar to that of the buildings on the KCNSC Botts Campus. Vehicle parking at KCNExT would be accommodated on surface lots with the possibility of a second parking deck being added in the future in some areas to address demand. KCNExT would be landscaped in a similar manner

to the KCNSC Botts Campus. The stream corridor and its associated vegetation would provide a visual buffer through the center of KCNExT and would add to the visual diversity of the property.

3.3.2.2 No-Action Alternative

Operational noise would continue to be confined to within the buildings or within the interior of the KCNSC Botts Campus and Building 23. No appreciable change in exterior noise levels generated by vehicle traffic, ongoing operations, and maintenance activities would occur.

3.4 Geology and Soils

3.4.1 Affected Environment

3.4.1.1 Geology

The KCNSC facilities and surrounding area are underlain by the Bonner Springs Formation consisting of the Bonner Springs Shale – layers of silty, gray, micacecous shale, including lenticular sandstone and locally, silty limestone in the upper part. An extremely thin, irregular coal bed has been reported to occur in the uppermost part of the formation at some localities in northern Missouri. The lower and middle parts of the formation in some locations contain scattered clay-ironstone concretions. The thickness of the formation ranges from less than 20 feet to as much as 40 feet. The Bonner Springs Formation is underlain by the Wyandotte Formation consisting of interbedded shale and limestone (NNSA, 2008).

3.4.1.2 Seismicity

Earthquake activity in Missouri has been concentrated in the southeastern portion of the state, which includes a portion of the New Madrid Seismic Zone. This zone is the most active seismic area in the United States east of the Rocky Mountains and has a long history of seismic activity. The northwest portion of Missouri, including the Kansas City area, is seismically stable. In the past 50 years, there have been nine recorded earthquakes within a 100-mile radius of the KCNSC facilities. The closest of these was a magnitude 3.0 earthquake on May 13, 1999, in Wyandotte County, Kansas, approximately 18 miles northwest of the KCNSC facilities.

3.4.1.3 Soils

The Osage Plains-Flint Hills region encompasses nearly 31,000 square miles in west-central Missouri, northeastern Oklahoma, and eastern Kansas. The KCNSC facilities and surrounding area lie near the northern-most extent of the Osage Plains region, which historically contained expansive accumulations of carbon-rich organic soils and lush tallgrass prairies. Over 90 percent of the original prairie landscape in the region has been tilled and is now used for row crops or hay production (Nature Conservancy, 2000).

Table 3-4 lists the soil units mapped and key soil characteristics underlying the KCNSC facilities. The underlying soils are considered highly disturbed due to previous construction, development, and agricultural activities (Natural Resources Conservation Service [NRCS], 2021).

Table 3-4: Soil Units Mapped Underlying the KCNSC Facilities

Mapped Soil Type	Applicable KCNSC Facility	Drainage Class	Runoff Class	Hydric	Farmland Classification	K-Factor
10000 - Arisburg silt loam, 1 to 5 percent slopes	Building 23, KCNExT	Somewhat poorly drained	Not Available	No	All areas are prime farmland	0.41
10024 - Greenton-Urban land complex, 5 to 9 percent slopes	KCNExT	Somewhat poorly drained	Very high	No	Prime farmland if drained	0.32
10082 - Arisburg-Urban land complex, 1 to 5 percent slopes	Botts Campus	Somewhat poorly drained	Not Available	No	All areas are prime farmland	0.41
10116 - Sampsel silty clay loam, 2 to 5 percent slopes	KCNExT	Poorly drained	Very high	No	Prime farmland if drained	0.31
10117 - Sampsel silty clay loam, 5 to 9 percent slopes	Botts Campus, Building 23, KCNExT	Somewhat poorly drained	Very high	No	Prime farmland if drained	0.31
10120 - Sharpsburg silt loam, 2 to 5 percent slopes	Botts Campus, KCNExT	Moderately well drained	Medium	No	All areas are prime farmland	0.42
10122 - Sharpsburg silt loam, 5 to 9 percent slopes, eroded	Botts Campus, KCNExT	Moderately well drained	High	No	Farmland of statewide importance	0.42
10128 - Sharpsburg-Urban land complex, 2 to 5 percent slopes	Botts Campus	Moderately well drained	High	No	All areas are prime farmland	0.36
10141 - Snead-Rock outcrop complex, 14 to 30 percent slopes	KCNExT	Moderately well drained	Very high	No	Not prime farmland	0.27
10181 - Udarents-Urban land-Sampsel complex, 5 to 9 percent slopes	Building 23, KCNExT	Somewhat poorly drained	Very high	No	Farmland of statewide importance	0.44
30080 - Greenton silty clay loam, 5 to 9 percent slopes	Botts Campus, Building 23, KCNExT	Somewhat poorly drained	Very high	No	Prime farmland if drained	0.29
36083 - Kennebec silt loam, 1 to 4 percent slopes, occasionally flooded	Botts Campus, KCNExT	Moderately well drained	Medium	No	All areas are prime farmland	0.37
99017 - Urban land, bottomland, 0 to 3 percent slopes, rarely flooded	KCNExT	Not Available	Very high	Unranked	Not prime farmland	0

Source : Natural Resources Conservation Service, 2023

a. Sheet and Rill Erosion - Values of K range from 0.02 to 0.69. Other factors being equal, the higher the value, the more susceptible the soil is to sheet and rill erosion by water.

3.4.2 Environmental Impacts

3.4.2.1 Proposed Action

KCNExT would operate in an area where soils have previously been disturbed. The NNSA would obtain the appropriate permits and implement sedimentation and erosion control measures, including development of an operational SWPPP to avoid stormwater runoff onto adjacent properties and minimize facility operational effects on the stream corridor and associated features. The KCNSC facilities are outside of the New Madrid Seismic Zone.

3.4.2.2 No Action Alternative

No construction or soil disturbance is anticipated to occur within the KCNSC Botts Campus or Building 23 site, and operations would continue as they do today.

3.5 Water Resources

3.5.1 Affected Environment

3.5.1.1 Surface Water

The KCNSC facilities are within the western portion of the Headwaters Little Blue River watershed (hydrologic unit code 12 [HUC-12] 103001010201) (United States Geological Survey [USGS], 2021). Surface water runoff from the KCNSC Botts Campus flows generally east into unnamed tributaries that flow across the KCNExT subject property and continue approximately 1.4 miles east to the Little Blue River. Surface water runoff from the Building 23 site flows into Scope Creek south of the site, which flows approximately 0.4 mile east-northeast to the Little Blue River (see Figure 3-2). The Little Blue River ultimately discharges into the Missouri River near Buckner, Missouri, approximately 40 miles downstream of Kansas City, Missouri. The Missouri River is the source of drinking water for the majority of the Kansas City metropolitan area.

3.5.1.2 Floodplains

Neither existing KCNSC facility is in a 100- or 500-year floodplain (Federal Emergency Management Agency [FEMA], 2021) but a 100-year floodplain extends along the stream corridor across the KCNExT subject property, as shown in Figure 3-2. Mapped floodplains in the vicinity of the KCNSC facilities are primarily associated with the main tributaries and main stems of the Blue River to the west and the Little Blue River to the east.

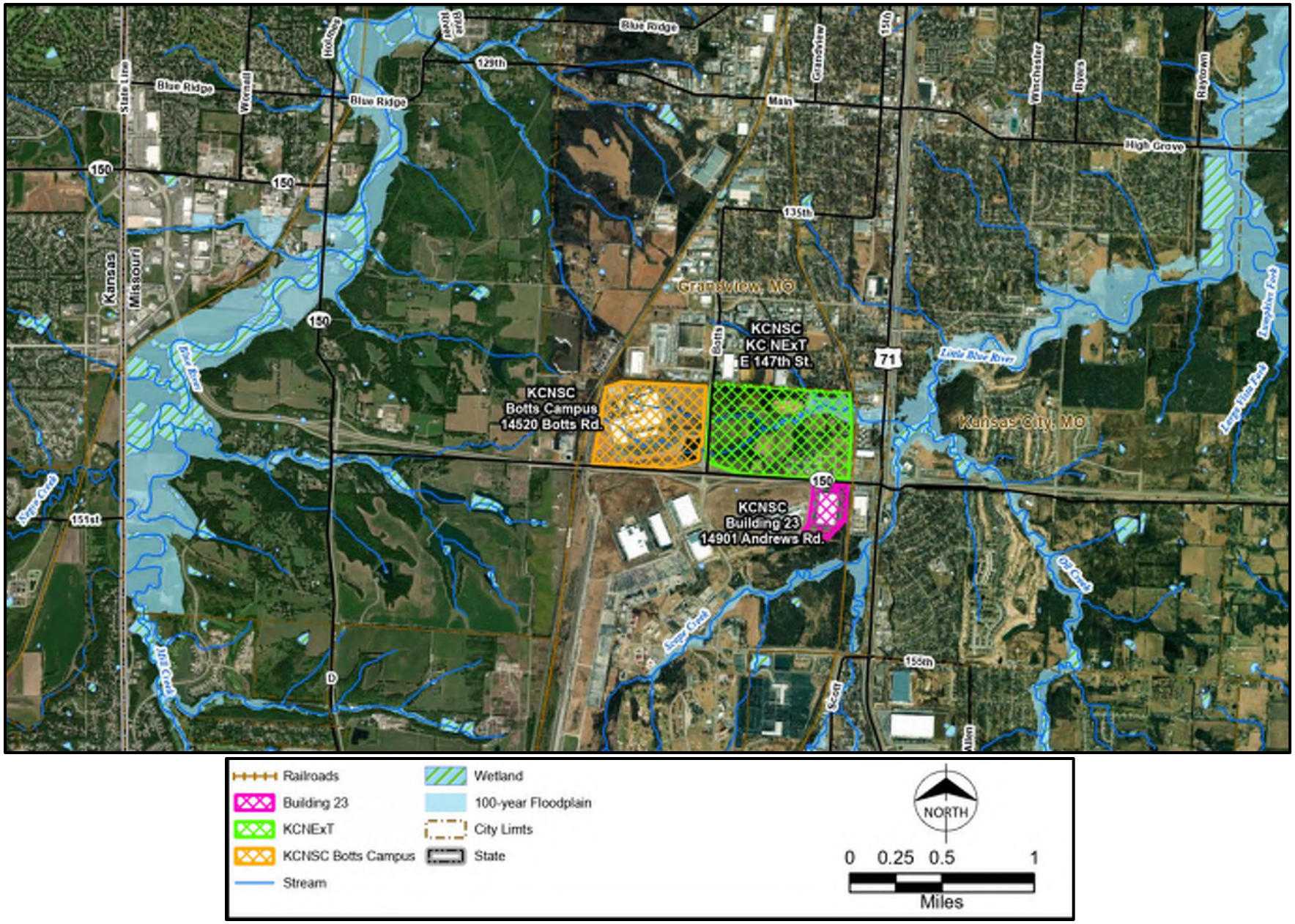
3.5.1.3 Wetlands and Waters of the United States

As previously described, the landowner/developer conducted wetland delineations for the KCNExT subject property in 2020 identifying several small wetland features within shallow depressions and areas along the unnamed tributary flowing through the center of the subject property.

3.5.1.4 Stormwater

The MDNR issues *No Exposure Certifications* allowing for an exclusion from National Pollutant Discharge Elimination System (NPDES) stormwater permitting requirements for facilities for which all materials and activities are indoors or protected from exposure to stormwater runoff. The KCNSC Botts Campus and Building 23 were separately issued *No Exposure Certifications* from the MDNR, excluding the facilities from stormwater permit requirements. The KCNSC Botts Campus MDNR certification number is MONX00441, issued July 2020 and expiring July 2025; and the Building 23 MDNR certification number is MONX00745 (see Table 3-1), issued December 2019 and expiring December 2024. Neither facility has onsite stormwater outfalls or stormwater management infrastructure.

Figure 3-3: Surface Water Resources and Floodplains in the Vicinity of the KCNSC Facilities



3.5.1.5 Groundwater

The KCNSC facilities are underlain by a single aquifer system. The Western Interior Plains aquifer system underlies most of Kansas, the eastern and southern portions of Nebraska, and a small area in west-central Missouri. The thickness of the aquifer (including the confining unit) ranges from less than 500 feet to more than 3,000 feet. Regional groundwater in the aquifer system flows towards the east-southeast with much of the water discharging from the aquifer system in the transition zone between the Western Interior Plains and the Ozark Plateaus aquifer systems. The Western Interior Plains aquifer system is considered to have low permeability. The Western Interior Plains aquifer system is entirely subsurface and contains slightly saline water or brine that is under confined conditions everywhere. No surficial aquifer system is present in the vicinity of the KCNSC facilities.

3.5.1.6 Water Use

The Kansas City Water Services Department (KC Water) provides domestic/potable water to the KCNSC Botts Campus and Building 23. Water use at these facilities is discussed in Section 3.8.1.1 of this EA. The Jackson County Public Water Supply District #1 provides water and sewer services for properties within the City of Grandview. Both KC Water and Jackson County Public Water Supply District #1 obtain water from the Missouri River.

3.5.2 Environmental Impacts

3.5.2.1 Proposed Action

KCNExT operations would occur within buildings, preventing the potential introduction of materials and wastes into surface water and groundwater resources. Potable water would be provided to KCNExT by KC Water. KCNExT would introduce impervious areas that increase the amount of runoff occurring during rain and snow events. NNSA would manage surface runoff at KCNExT in the same manner it is managed at the KCNSC Botts Campus and Building 23. The NNSA would obtain the appropriate permits and implement permanent sedimentation and erosion control measures, including implementation of an operational SWPPP with best management practices to address runoff from buildings, loading docks, parking areas, and site roads.

3.5.2.2 No-Action Alternative

Operations at the KCNSC Botts Campus and Building 23 would continue to rely on potable water provided by KC Water. Surface water discharges would continue to be managed as they are today, and applicable permits would be maintained by the NNSA. No construction or soil disturbance would occur at either facility.

3.6 Biological Resources – Vegetation and Wildlife

3.6.1 Affected Environment

3.6.1.1 Vegetation

KCNSC facilities are within the Wooded Osage Plains Level IV Ecoregion, characterized by little bluestem-sideoats grama prairie, big bluestem-Indiangrass prairie, cordgrass wet prairie, and oak woodlands (EPA, 2017). Existing development along the MO-150 corridor, including the KCNSC Botts Campus and Building 23, removed many native habitats that may have been present. The areas surrounding both facilities have also been cleared over time to accommodate development, with native habitat remnants present along drainages, including the one on the KCNExT subject property, and on undeveloped parcels primarily west of the KCNSC Botts Campus. Open areas of both existing facilities are maintained in managed turf grasses and limited areas of ornamental landscaping.

3.6.1.2 Wildlife

Development completed prior to the siting of the KCNSC Botts Campus, Building 23, and other developments removed much of the native habitats across the area that supported wildlife species. Remnants of such habitats are now limited to undeveloped areas along drainages and isolated pockets associated with agricultural lands. Non-native, human created landscapes now provide much of the habitat for wildlife species. These areas including residential neighborhoods and golf courses likely support wildlife species that have adapted to human development including a variety of bird and small rodent species; racoon, skunk, and opossum; and white-tailed deer. Raptor species including turkey vultures and numerous hawk species may also forage along roadsides and across agricultural fields. The western and northern edges of the KCNSC Botts Campus are fenced, but wildlife can still access the lawn areas along MO-150 and Botts Road. The Building 23 property is not currently fenced.

Three federally protected species are listed for Jackson County, Missouri by the USFWS: the gray bat (endangered), the Indiana bat (endangered), the northern long-eared bat (proposed for listing as endangered), and the tricolored bat (proposed for listing as endangered). These bat species may roost in trees in wooded areas and forage along drainageways. No critical habitats have been identified within the study area and no hibernacula are mapped within the county.

The Migratory Bird Treaty Act (16 U.S.C. §§ 703-712) makes it unlawful to pursue, hunt, take, capture, kill, or possess any migratory bird, part, nest, egg or product without a permit. Several migratory bird species occupy the general area either as permanent residents or seasonal migrants. These species can occupy a variety of habitats from natural areas and residential landscapes to both abandoned and occupied buildings. Because of the highly developed nature of the existing KCNSC facilities and surrounding area, migratory bird species common to the area are those that are highly adaptable to human activity.

3.6.2 Environmental Impacts

3.6.2.1 Proposed Action

As previously described, the landowner/developer of the KCNExT subject property conducted an acoustic survey in 2021 to determine if protected bat species used potentially suitable habitat on the subject property as roost or foraging areas. Although bat species may forage across the subject property and other areas in the vicinity, the acoustic survey indicated a low probability that Indiana bats, gray bats, northern long-eared bats, or tricolored bats are present within or use the subject property. Vegetation along the stream corridor across the KCNExT subject property would be maintained as a visual buffer and would provide visual diversity and support stormwater management on the site. The stream corridor may be enhanced in the future to incorporate recreational trails, picnic areas, and fitness activities for use by employees. Retainage of the native vegetation including trees would also continue to support use by migratory birds and other wildlife. No changes to the landscaping areas on the KCNSC Botts Campus or Building 23 site would occur.

3.6.2.2 No-Action Alternative

No construction, land disturbance, or modification of any open areas at the existing KCNSC facilities would occur that could affect resident or migratory wildlife.

3.7 Cultural Resources

3.7.1 Affected Environment

A Cultural Resources Background Review was conducted by NNSA in June 2023 indicating that numerous archaeological surveys have been conducted across what is now the KCNSC Botts Campus, the KCNExT subject property, the Building 23 site, and the general area to support the siting of utilities, development, and transportation improvements. A 2020 archaeological survey identified a prehistoric

lithic scatter in the southeastern portion of the KCNExT subject property. Artifacts were collected but the site was not evaluated for its eligibility for listing on the NRHP. The KCNExT subject property contains no structures considered NRHP-eligible. The closest NRHP eligible or listed property to the KCNSC facilities is the NRHP-listed Grandview Residential Historic District, approximately one mile north-northeast of the KCNSC Botts Campus. No known tribal or cultural sites including cemeteries are recorded in proximity to the KCNSC facilities.

3.7.2 Environmental impacts

3.7.2.1 Proposed Action

KCNExT operations would not affect any NRHP-eligible or listed properties. The recorded prehistoric lithic scatter within the southeast portion of the subject property would not be affected by facility operations.

3.7.2.2 No-Action Alternative

No construction, land disturbance, or operational activities would occur that would affect NRHP-eligible or listed archaeological and historical properties.

3.8 Infrastructure

3.8.1 Affected Environment

3.8.1.1 Utilities

Electricity - The KCNSC purchases electricity from Evergy to power its production machinery, chillers, pumps, compressors, lights, and general office equipment. Two 161-kilovolt (kV) overhead transmission lines from the Turner Road #6 and Martin City East #5 substations supply electricity to the KCNSC Botts Campus. Two onsite transformers owned by Evergy step the voltage down to 13.8 kV to deliver power to two main busses for distribution at the main switchgear and then to subsequent substations and transformers. Electricity for Building 23 is provided from a single feed directly from the Evergy grid. Electricity from Evergy has adequately met facility requirements.

Under current operational levels, the annual electrical consumption at the KCNSC Botts Campus is approximately 85,000 megawatt-hours (MWh). Annual electrical consumption is estimated to be approximately 14,000 MWh at Building 23 by the end of 2023 under full KCNSC occupancy and new systems and manufacturing processes are initiated. This electrical demand is a very small portion of the amount distributed annually by Evergy.

Fuel - KCNSC purchases natural gas, the facility's primary fuel source at the KCNSC Botts Campus, through a commodity contract held by the Defense Logistics Agency, and local pipelines deliver the natural gas to the facility. Natural gas is the primary fuel for the hot water boilers that heat the buildings at the KCNSC Botts Campus. Spire Inc., the primary provider of natural gas to the local Kansas City, Missouri area, provides natural gas to heat Building 23. The annual consumption of natural gas at the KCNSC Botts Campus is 1,800,000 hundreds of cubic feet (ccf) and is estimated to be approximately 50,000 ccf at Building 23 by the end of 2023 under full KCNSC occupancy.

No. 2 diesel fuel is used as secondary boiler fuel if the natural gas supply is limited to the KCNSC Botts Campus. KCNSC uses competitive bids from commercial suppliers to purchase diesel fuel, which is stored in two 8,000-gallon aboveground storage tanks (ASTs) adjacent to the CUP on the KCNSC Botts Campus. The annual consumption of diesel fuel at the KCNSC Botts Campus is 7,500 gallons. Diesel fuel is not currently consumed to support operations at Building 23. As would be expected, the amounts of petroleum-based fuels that are typically used at existing KCNSC facilities are very small in comparison with the amounts distributed within the state.

Water - The KC Water supplies water to existing KCNSC facilities. The facilities use domestic water as make-up for heating hot water, chilled water, condenser water, and fire protection systems, and for

sanitary applications (toilets, sinks, eyewashes, showers, drinking fountains, and in the cafeteria). An isolation cross-connection control program protects potable water from that used for industrial uses. The KCNSC Botts Campus fire suppression system consists of two water supplies that provide water through a 10-inch underground and interior fire main grid. The Building 23 fire suppression system is supplied by a 12-inch main line, and uses a pressurized fire water loop that feeds an automatic sprinkler system as well as fire hydrants.

Current operations at the KCNSC Botts Campus consume approximately 80,000 ccf of potable water annually. The consumption at Building 23 is estimated to be approximately 8,000 ccf of potable water annually at full operation. Potable water demand at the existing KCNSC facilities is a very small portion of the quantity produced and distributed by KC Water annually.[3]

Heating Hot Water, Compressed Air, and Chilled Water - Centralized utilities for the KCNSC Botts Campus are provided from the CUP. The CUP houses four boilers that produce hot water used to regulate temperature for personnel comfort and to meet production space conditions requirements. The compressed air system supplies clean, dry, compressed air to the KCNSC Botts Campus for production requirements and temperature and humidity climate control devices. The CUP houses seven centrifugal chillers with capacity to chill 10,510 tons of water to regulate temperature and humidity controls for personnel comfort, production requirements, and process cooling. The CUP does not provide utility service to Building 23.

Sanitary Sewer – Both existing KCNSC facilities are serviced by the local KCMO sanitary sewer system. Sewage from both existing locations is treated by the Little Blue Valley Sewer District.

Table 3-5 summarizes the average monthly volume of incoming water flows and outgoing flows to the sanitary sewer from the KCNSC Botts Campus. Because KCNSC does not control all operations at Building 23, complete data for Building 23 is not available at this time.

Table 3-5: Average Monthly Usage at the KCNSC Botts Campus – Incoming Water Flows and Outgoing to Sanitary Sewer, November 2022-April 2023

Incoming Water Flows			Outflows to Sanitary Sewer		
Source:	**Metered or Estimated**	**Quantity in Gallons per Day (gpd)**	**Source:**	**Metered or Estimated**	**Quantity in Gallons per Day (gpd)**
Municipal	Estimated	130,131	Cooling Tower Blowdown	Metered	6,298
Well	NA	NA	Process Effluent	Metered	23,153
Other	NA	NA	Polymer Production	Metered	0
			Sanitary and Irrigation	Metered	40,513
			Footing Tile Drains		1,602
			Total Discharged to Combined Sanitary Sewer Point	Metered	71,557

Industrial Wastewater - Dilute inorganic waste streams generated at the KCNSC Botts Campus are treated at the Industrial Wastewater Pretreatment Facility (IWPF) on the KCNSC Botts Campus pursuant to a discharge permit under Section 307(b) of the Clean Water Act (CWA) before being discharged to the sanitary sewer system. Industrial wastewater generated at Building 23 is containerized and shipped

[3] In 2011, Kansas City Water Services Department produced and distributed approximately 58.8 million ccf of potable water (2013 EA).

offsite to a Treatment, Storage, and Disposal Facility (TSDF) based upon the characteristics present (i.e., heavy metals present). As workloads increase, a large storage tank (up to 20,000 gallons) may be used to store and then bulk ship larger volumes of wastewater from Building 23. Smaller holding tanks may be used to collect and take samples and would be located within secondary containment and covered under the Building 23 SPCC plan.

Wastewater will continue to be bulk shipped offsite for disposal until the installation of a wastewater pretreatment system is in place at Building 23. NNSA will work with KCMO Water Department to obtain a discharge permit for pretreated water into the sanitary sewer system.

3.8.1.2 Transportation

Two major highways provide access to the area. I-49/US-71, approximately one mile east of the KCNSC Botts Campus, is the major north-south freeway through eastern Kansas City connecting to I-70 near the Missouri River to the north and to I-44 in Joplin and through northwest Arkansas to the south. MO-150 is the major east-west highway through the area. Two driveway entrances to the KCNSC Botts Campus are provided from Botts Road, along the eastern edge of the property. Access to Building 23 is provided by two driveway entrances located on the east side of Andrews Road, approximately 300 and 1,300 feet south of MO-150, respectively. Employees, vendors, and suppliers use these roadways to transport equipment and materials to, from, and between the KCNSC Botts Campus and Building 23 and eventually KCNExT. Both existing properties contain large, paved parking areas and narrow paved interior service roads. Both existing facilities are equipped with multiple loading docks to accommodate inbound and outbound shipments. Materials and supplies, equipment, and products are brought in and out of both facilities using large trucks and semi-trailers using the same facility entrances as employees.

The BNSF Railway line east of the KCNExT subject property is no longer operating while an active KCS rail line runs generally north-south adjacent to the western boundary of the KCNSC Botts Campus feeding the KCS/I-49 Intermodal Center south of MO-150. The 37-acre property on which Building 23 is located is part of the larger I-49 Intermodal Center.

3.8.2 Environmental impacts

3.8.2.1 Proposed Action

In general, the utilities serving the existing KCNSC facilities have sufficient capacity to support upgraded and expanded operations at KCNExT. Some temporary utility services may be needed in 2024 to keep pace with forecasted manufacturing activities and facilities come on line. KCNSC and Honeywell FM&T are working on a sustainability waiver for carbon-free requirements at KCNExT.

Electricity - KCNSC would continue to purchase electricity from Evergy. The existing substation (Honeywell substation) in the northwest corner of the KCNSC Botts Campus serves the campus and other buildings along MO-150. A new conduit under construction from the substation would extend to KCNExT to power the initial phase manufacturing operations. A second substation would be constructed at KCNExT (anticipated in 2027) to power and provide redundancy for manufacturing operations to meet future forecasted demand.

Fuel – KCNSC would continue to purchase natural gas, through a commodity contract held by the Defense Logistics Agency, with local pipelines delivering gas to the three KCNSC facilities. Natural gas would continue to be the primary fuel for the hot water boilers and general heating, supplied through Spire Inc. No. 2 diesel fuel would continue to the secondary fuel for heating for buildings on the KCNSC Botts Campus, with the use of diesel fuel at KCNExT still under consideration as a back-up.

Water – KC Water would continue to service all three KCNSC facilities, providing domestic water, fire protection system water, for sanitary applications.

Heating Hot Water, Compressed Air, and Chilled Water – Centralized utilities for the KCNSC Botts Campus would continue to be served by the CUP, with a second CUP to be constructed within KCNExT when demand is warranted.

Sanitary Sewer – KCNExT would be serviced by the local KCMO sanitary sewer system and sewage would be treated by the Little Blue Valley Sewer District.

Industrial Wastewater –As new workloads are monitored, it likely will become necessary to construct an IWPF at KCNExT and Building 23 to address industrial wastewater volumes. Each IWPF at KCNExT and Building 23 would be a similarly scaled operation to the existing IWPF serving the KCNSC Botts Campus (occupying approximately 5,000 SF). Both additional IWPFs would require a discharge permit under Section 307(b) of the CWA. Appropriate visual screening and security for both sites would be installed in conformance with development codes.

Transportation - Employee and supplier traffic would continue to flow among the KCNSC facilities using the local roadway system including Botts Road and MO-150. Botts Road is a four-lane divided urban arterial separating the KCNSC Botts Campus and KCNExT. Two existing driveways from Botts Road are used to access the KCNSC Botts Campus by both employees and suppliers. Both driveways would be extended to the east to provide access into KCNExT. Botts Road connects to MO-150 at a diverging diamond interchange. MO-150 is a six-lane highway with ample capacity to accommodate delivery traffic and shift changes. Colorado Avenue in the southeastern corner of KCNExT provides local access to the property from MO-150. The KCNExT landowner/developer conducted a Traffic Impact Study in July 2023. Based on the preliminary modeling of existing and future traffic volumes and travel demand based on forecasted employment levels around the KCNSC facilities, the following turn lane and intersection improvements are recommended to occur by the completion of the South Development Stage (2032) to keep roadway and intersection levels of service (LOS)[1] within acceptable levels:

- Botts Road north intersection – Restripe existing pavement on northbound approach to create right-turn lane and restripe the pavement at the southbound approach to create a left-turn lane.
- Botts Road south intersection – Install a traffic signal, construct a northbound right-turn lane along Botts Road (approximately 350 feet long); construct a southbound left-turn lane along Botts Road (approximately 350 feet long); construct a two-lane westbound exit; and restripe the existing eastbound exit pavement.
- Restripe existing pavement to create a southbound left-turn lane to accommodate dual left-turns onto MO-150 at the existing MO-150/Botts Road diverging diamond interchange.
- Vacate Colorado Avenue and convert it to a private access drive providing access for employees and suppliers.

A private driveway located midway between Botts Road and Colorado Avenue and connecting to MO-150 would be used during the South Development Stage to provide construction, employee, and emergency access to KCNExT. No changes would be made to Botts Road south of MO-150 or to Andrews Road that provides access to Building 23.

3.8.2.2 No-Action Alternative

The existing utilities and roadway network would continue to adequately accommodate the current level of operations at the KCNSC Botts Campus and Building 23.

[1] Level of Service (LOS) is a measure of vehicles on the road and speed at which traffic moves along a roadway segment. LOS is expressed using a six-level, A to F, rating system, with LOS A representing free-flow traffic with no delays to LOS F where the traffic flow is unstable, stop-and-go, and substantial delays occur.

3.9 Socioeconomic Resources

3.9.1 Affected Environment

3.9.1.1 Population, Environmental Justice, Title VI, and Limited English Proficiency

Table 3-6 provides an overview of the historic and forecasted population growth in City of Kansas City, Jackson County, and the State of Missouri. The population statistics for 2010 are presented to illustrate the baseline conditions occurring at the time the KCNSC proposed its move to the KCNSC Botts Campus. The population of Missouri increased 4.3 percent from 2010 to 2022, while the population across Jackson County and Kansas City grew at higher rates over the same time period, at 7.4 and 11.96 percent, respectively.

Table 3-6: Population and Growth Trends by Jurisdiction

Jurisdiction	2000[a]	2010[b]	2019[c]	2022 (e)	2030 Forecast[d]
Kansas City	441,545	454,876	486,404	509,297	Not Available
Jackson County	654,880	666,997	696,216	716,531	714,467
State of Missouri	5,595,211	5,922,314	6,104,910	6,177,957	6,746,762

Sources:

a. U.S. Census Bureau, Census 2000 Summary File, Profile of General Demographic Characteristics: 2000. Retrieved July 30, 2019 from https://factfinder.census.gov/

b. US Census Bureau, 2010 American Community Survey 5-Year Estimates Data Profiles, ACS Demographic and Housing Estimates. Retrieved February 5, 2021, from https://www.census.gov/acs/www/data/data-tables-and-tools/data-profiles/

c. US Census Bureau, 2019 American Community Survey 5-Year Estimates Data Profiles, ACS Demographic and Housing Estimates. Retrieved February 5, 2021, from https://www.census.gov/acs/www/data/data-tables-and-tools/data-profiles

d. 2030 forecast for Missouri, Missouri Office of Administration, 200-2030 Projections. Retrieved June 27, 2023 from https://oa.mo.gov/budget-planning/demographic-information/population-projections/

e. US Census Bureau, 2022 American Community Survey 5-Year Estimates Data Profiles, ACS Demographic and Housing Estimates. Retrieved June 23, 2023, from https://www.census.gov/acs/www/data/data-tables-and-tools/data-profiles

Tables 3-7 and 3-8 summarize the general racial and ethnic characteristics of Kansas City, Jackson County, and the State of Missouri. Figure 3-4 illustrates the percent total minority population within the census block groups surrounding the KCNSC facilities.

Table 3-7: Population by Race by Jurisdiction

	White Alone		Black/African American		American Indian & Alaska Native		Asian		Native Hawaiian & Other Pacific Islander		Total Minority Population	
Jurisdiction	**2010**	**2022**	**2010**	**2022**	**2010**	**2022**	**2010**	**2022**	**2010**	**2022**	**2010**	**2022**
Kansas City	60.5%	59.7%	29.9%	26.5%	0.5%	0.4%	2.3%	2.7%	0.2%	0.3%	39.5%	44.5%
Jackson County	67.8%	70.0%	24.0%	23.4%	0.5%	0.7%	1.6%	2.0%	0.2%	0.3%	32.3%	38.6%
State of Missouri	83.4%	82.5%	11.5%	11.7%	0.4%	0.6%	1.6%	2.3%	0.1%	0.2%	16.7%	21.6%

Sources:

a. US Census Bureau, 2010 American Community Survey 5-Year Estimates Data Profiles, ACS Demographic and Housing Estimates. Retrieved February 5, 2021, from https://www.census.gov/acs/www/data/data-tables-and-tools/data-profiles/

b. US Census Bureau, 2022 American Community Survey 5-Year Estimates Data Profiles, ACS Demographic and Housing Estimates. Retrieved June 23, 2023, from https://www.census.gov/acs/www/data/data-tables-and-tools/data-profiles

Table 3-8: Hispanic and Latino Ethnicity by Jurisdiction

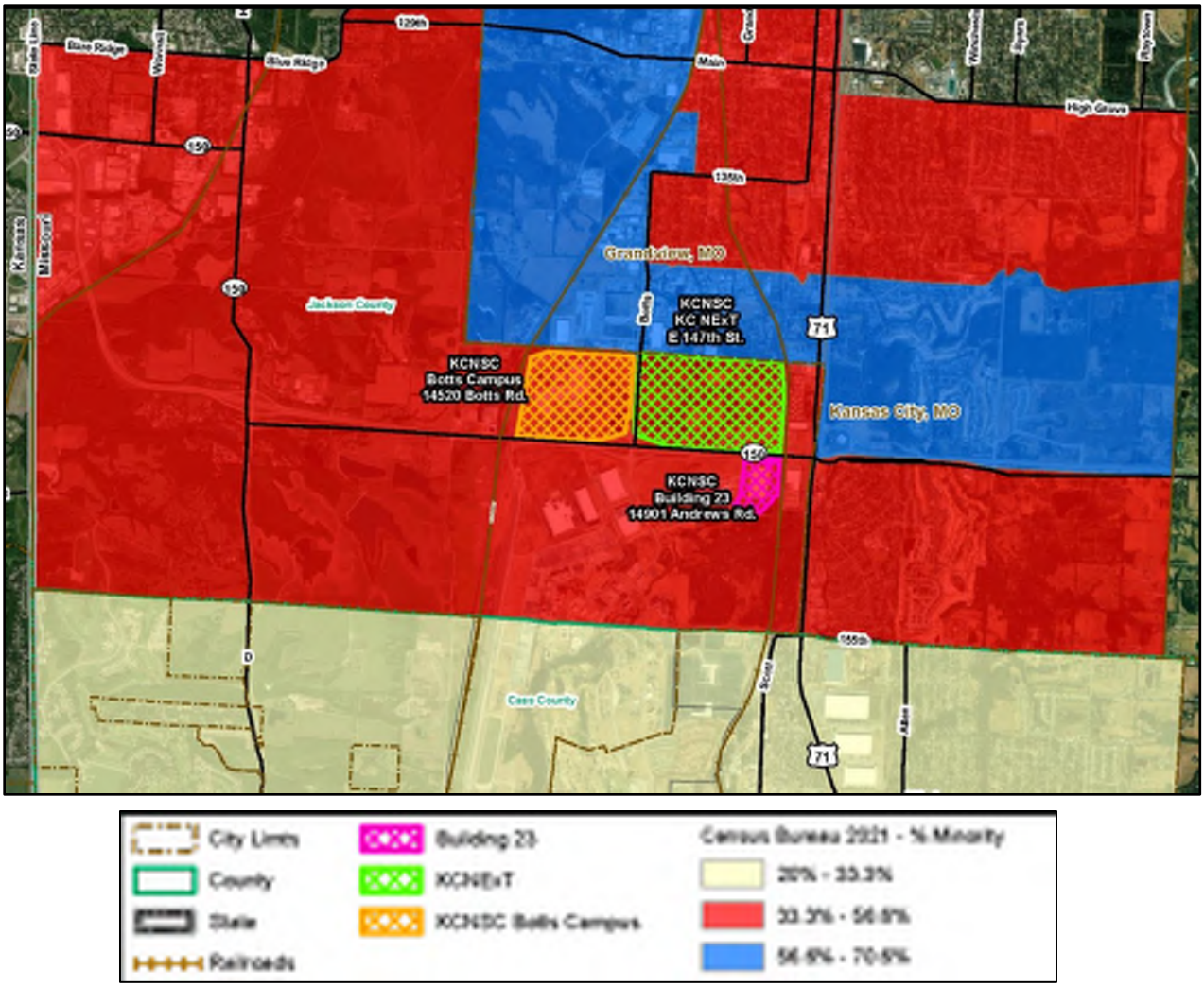
	Hispanic or Latino (of any race)		Not Hispanic or Latino (of any race)	
Jurisdiction	**2010**	**2022**	**2010**	**2022**
Kansas City	9.7%	10.7%	90.3%	55.5%
Jackson County	7.9%	10.1%	92.1%	61.4%
State of Missouri	3.4%	4.8%	96.6%	78.4%

Sources:

a. US Census Bureau, 2010 American Community Survey 5-Year Estimates Data Profiles, ACS Demographic and Housing Estimates. Retrieved February 5, 2021 from https://www.census.gov/acs/www/data/data-tables-and-tools/data-profiles/

b. US Census Bureau, 2022 American Community Survey 5-Year Estimates Data Profiles, ACS Demographic and Housing Estimates. Retrieved June 23, 2023 from https://www.census.gov/acs/www/data/data-tables-and-tools/data-profiles

Figure 3-4: Minority Population Census Block Groups in the Vicinity of KCNSC Facilities



3.9.1.2 Employment and Income

Table 3-9 summarizes the employment and income status of Jackson County in comparison to the State. Median household Incomes have increased across all jurisdictions while the percentage of the population living below poverty and the unemployment rate have decreased. Figure 3-5 illustrates the percentage of the population living below poverty in the census block groups surrounding the KCNSC facilities.

Table 3-9: Income, Poverty, and Unemployment by Jurisdiction

	Median Income[a, b]		Percent of Population Living Below the Poverty Level[a, b]		Unemployment Rate[a, b]		Poverty Threshold[c]	
Jurisdiction	**2010**	**2022**	**2010**	**2022**	**2010**	**2022**	**2010**	**2022**
Kansas City	$44,113	$ 60,042	18.1%	15.0%	9.2%	5.1%	$22,050	$30,000
Jackson County	$46,252	$ 60,800	15.7%	13.1%	8.8%	5.0%		
State of Missouri	$46,262	$ 61,043	14.0%	12.7%	7.4%	4.5%		

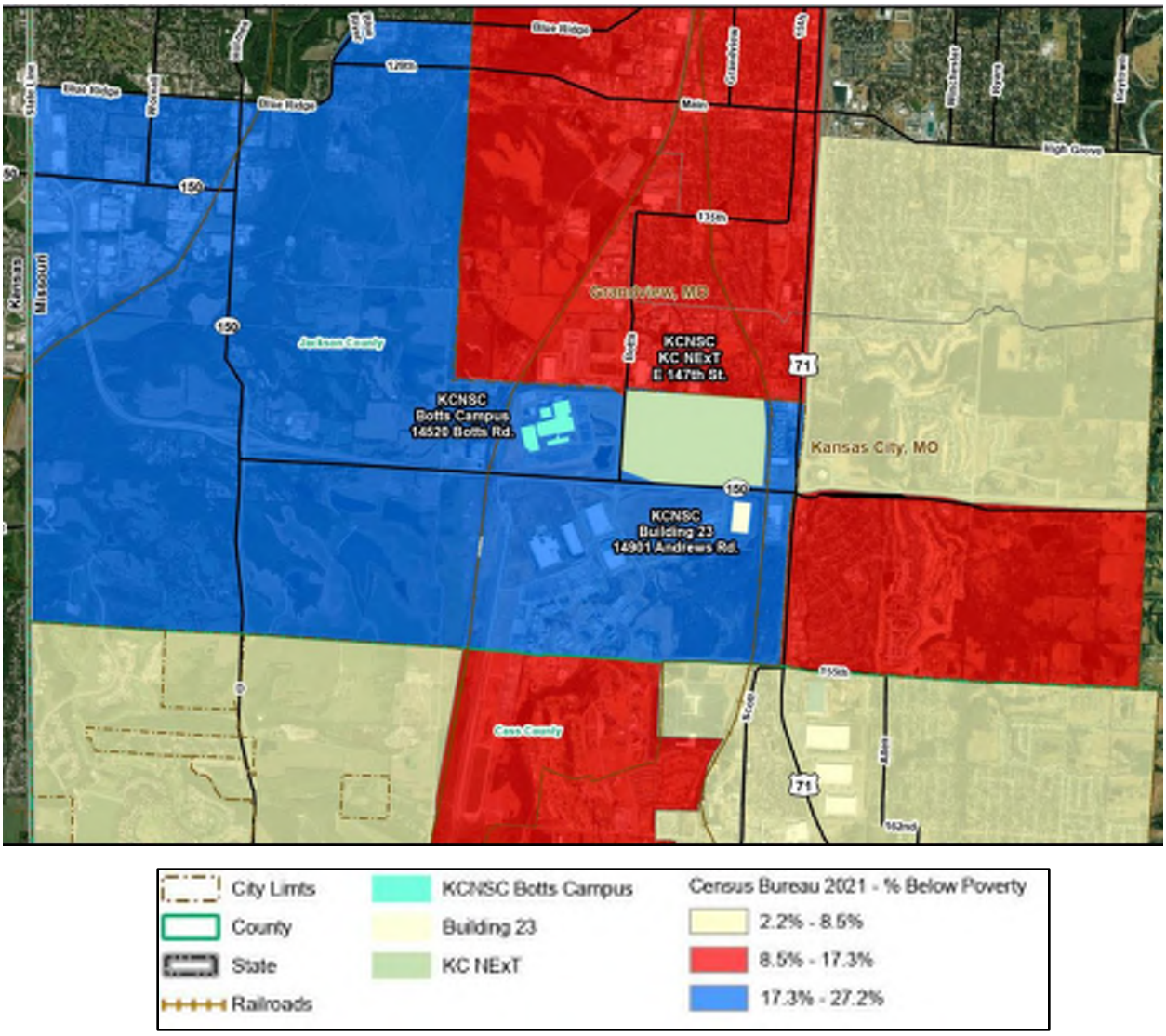
Sources:

a. US Census Bureau, 2010 American Community Survey 5-Year Estimates Data Profiles, ACS Selected Economic Characteristics. Retrieved February 5, 2021, from https://www.census.gov/acs/www/data/data-tables-and-tools/data-profiles

b. US Census Bureau, 2019 American Community Survey 5-Year Estimates Data Profiles, ACS Selected Economic Characteristics. Retrieved February 5, 2021, from https://www.census.gov/acs/www/data/data-tables-and-tools/data-profiles

c. US Department of Health and Human Services (DHHS) Poverty Guidelines (family of four). Retrieved on June 16, 2023, from https://aspe.hhs.gov/topics/poverty-economic-mobility/poverty-guidelines

Figure 3-5: Low-Income Population Census Block Groups in the Vicinity of KCNSC Facilities



3.9.1.3 Community Services

KCNSC facilities are served by the Kansas City Police Department, Fire Department, and Emergency Medical Services and Rescue Services. Grandview Police and Fire Department provide secondary response to the facilities. The closest medical centers providing trauma services are Lee's Summit Medical Center, 18.8 miles to the east, and Saint Luke's South Hospital, 9.8 miles to the west in Overland Park, Kansas. No churches, schools, libraries, or other community facilities are located west of I-49/US71 and south of Main Street in Grandview within the study area. Several elementary schools and churches are east of I-49/US-71, the closest, Belvidere United Methodist Church, is approximately 0.5 mile east of Building 23.

3.9.1.4 Environmental Justice

Executive Order (EO) 12898, *Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations* (issued February 11, 1994) requires Federal agencies to identify and address to the greatest extent practicable and permitted by law the disproportionately high and adverse human health or environmental effects of their programs, policies, and activities on minority populations and low-income populations. EO 14096, *Revitalizing Our Nation's Commitment to Environmental Justice for All*, issued on April 21, 2023, strengthened the Federal government's commitment to environmental

justice. It requires a "Whole Government Approach" expounding on the previous definition of environmental justice so that people are fully protected from disproportionately high and adverse human health and environmental hazards, and have equitable access to a healthy, sustainable, and resilient environment.

The census data presented indicates the KCNSC facilities are in an area with a minority population ranging from 33 percent to 70.6 percent, higher than the average minority population percentage for Kansas City and Jackson County. The KCNSC facilities are also in an area where 8.5 percent to 27.2 percent of the population is considered low-income. The facilities are also in an existing and built-up industrial area that provides jobs for all populations and supports both local and regional economies. No residences, including multi-family developments, are within or adjacent to the existing KCNSC facilities or the KCNExT subject property.

3.9.2 Environmental Impacts

3.9.2.1 Proposed Action

KCNExT is in an existing industrial area with access to MO-150. No homes or businesses would be displaced nor would its operation cause any changes in surrounding residential neighborhoods. Additional employees would be hired to support forecasted operations at KCNExT and across the other KCNSC facilities. At this time, the number of additional employees needed over the next 5 to 10 years is estimated to be 8,300 employees across the KCNSC facilities.

No changes in travel times by emergency responders would occur because of KCNExT. No community facilities would be affected. Increases in vehicle traffic and associated noise and congestion, air emissions, and stormwater runoff would affect all populations equally that work in, travel through, or live in neighboring areas. The operation of KCNExT in tandem with the KCNSC Botts Campus and Building 23 would not result in disproportionately high and adverse impacts, including human health and environmental burdens, to minority and low-income communities.

3.9.2.2 No-Action Alternative

Employment at the KCNSC facilities would be largely maintained at current levels in the short-term and would be expected to increase overtime to support the current and anticipated workloads and the facility's needs. No displacements and no changes to surrounding neighborhoods would occur. No disproportionately high and adverse impacts to minority or low-income populations would occur under the no-action alternative. Travel times by emergency responders to either facility would not change, and no community facilities would be affected under the no-action alternative.

3.10 Waste Management

3.10.1 Affected Environment

3.10.1.1 Pollution Prevention and Waste Minimization

Activities at the existing KCNSC facilities generate and require the management of non-hazardous and hazardous wastes, and small quantities of low-level radioactive waste. Waste management operations consist mainly of hazardous and non-hazardous waste storage in preparation of offsite treatment or disposal. Management of waste generated by existing KCNSC facilities is regulated by State of Missouri and Federal hazardous waste statutes, including 40 CFR Parts 260, 261, 264, and 270 and the corresponding State regulations.

The KCNSC's management of wastewater, including sanitary sewage and industrial wastewater, is addressed in Section 3.8.1.1 of this EA.

As presented in Table 3-10, the existing KCNSC facilities generated approximately 2.2 million pounds of hazardous and non-hazardous wastes in fiscal year 2022. Approximately 1.8 million pounds, or

approximately 79 percent, of the total waste generated was recycled, reclaimed, or used for energy recovery. Section 3.10.1.2 further addresses waste minimization and recycling activities at the KCNSC Botts Campus and Building 23.

Table 3-10: Quantities of Hazardous and Non-Hazardous Wastes Generated, Recycled, and Disposed of at the KCNSC Botts Campus and Building 23

Total Quantity (Pounds)	FY 2020	FY 2021	FY 2022
WASTES GENERATED			
Baling Steel	465,420	520,580	359,460
Fuelblend	252,371	257,142	216,204
Water Treatment	232,284	254,157	226,293
E-Scrap	87,905	63,888	66,203
Scrap Metal	151,822	158,148	254,590
Precious Metal	70,596	78,361	101,658
Batteries	10,318	11,086	15,952
Incineration	41,227	52,306	18,787
RCRA (Hazardous)	13,721	18,511	11,497
Municipal Solid Waste	781,900	850,932	1,008,642
Total Wastes Generated	**2,107,566**	2,265,111	**2,279,286**
WASTES RECYCLED			
Baling Steel	465,420	520,580	359,460
Fuelblend	252,371	257,142	216,204
Water Treatment	232,284	254,157	226,293
E-Scrap	87,905	63,888	66,203
Scrap Metal	151,822	158,148	254,590
Precious Metal	70,596	78,361	101,658
Batteries	10,318	11,086	15,952
Waste-to-Fuel Co-Generation	441,200	469,012	570,162
Total Wastes Recycled	**1,711,916**	**1,812,374**	**1,810,522**
DISPOSAL METHODS			
Incineration	41,227	52,306	18,787
RCRA (Hazardous) Landfill	13,721	18,511	11,497
Municipal Solid Waste (Landfill)	340,700	381,920	438,480
Total Wastes Disposed	**395,648**	**452,737**	**468,764**

Source: KCNSC, Honeywell FM&T, July 2023

Waste minimization is an integral part of the KCNSC's Environmental Management system. It is an ongoing effort to systematically reduce material releases to all environmental media as well as conserve energy and water. The overall waste minimization program focuses on the reduction and eventual elimination of significant environmental impacts of waste generation. The preferred approach is source reduction or elimination of waste sources. When elimination is not feasible, options for recycling or reuse of waste materials are considered. Treatment and disposal are only considered when source reduction or recycling and reuse options are not feasible or cost effective. The waste minimization program emphasizes the procurement of environmentally preferable products containing recycle materials as process inputs.

All solid waste materials generated from KCNSC facilities are managed, transported, and disposed of offsite at facilities permitted in accordance with Federal, State, and local requirements. Industrial wastewater, as described in Section 3.8.1.1, is either contained onsite and transported offsite for disposal or released to the sanitary sewer system. Additionally, Honeywell follows established corporate standards, protocols, and requirements to ensure that all waste disposal sites and waste transporters used have been sufficiently reviewed, vetted, and approved to mitigate potential risks. Wastes are

transported directly from the generating facility, the KCNSC Botts Campus and Building 23, to the end-processor or disposer. Wastes are not transported between KCNSC facilities. Refer to Section 3.8.1.1 for additional description of industrial wastewater generation and management.

In 2022, approximately 1.8 million pounds, or 79 percent, of the total waste generated at the KCNSC Botts Campus and Building 23 was recycled, reclaimed, or used for energy recovery. Refer to Table 3-10 for detailed quantification of waste generation, recycling, and disposal. Approximately 98 percent of all wastes generated from production activities was recycled in 2022. Recycling of production-generated wastes is accomplished through metal, paper, e-scrap, batteries, water treatment, and precious metal recovery. Co-generation and fuel blending of several waste streams is also performed offsite and used as waste to energy to power homes and cement kilns. Approximately 12 percent of this waste stream was used for fuel blending in cement kilns and approximately 31 percent was used for co-generation in the production of electric power. Additional minor amounts of industrial wastes are captured by the IWPF at the KCNSC Botts Campus and disposed of in accordance with applicable regulations.

Recycling and reclamation of wastes at the KCNSC Botts Campus and Building 23 has steadily increased over the previous five years. This increase results from KCNSC's waste management program's coordination with various recyclers to re-characterize and recycle waste that was previously disposed of at landfills or by incineration.

Opportunities to minimize waste and pollutants, including chemical wastes, are identified through Management of Change and conducting Preliminary Hazard Assessment (PHA) reviews of all new projects and processes. The PHA process is a multi-disciplinary review of health, safety, environmental, utility engineering, and waste management concerns. All construction projects managed by the KCNSC also require a Waste Identification Table to be completed prior to initiation of construction activities. These processes provide an opportunity to identify product substitution, pollution prevention, and waste reduction opportunities.

3.10.1.2 Hazardous Wastes

The KCNSC is regulated by Federal and State hazardous waste regulations and is subject to inspections under the RCRA conducted by the EPA and MDNR. The KCNSC Botts Campus (EPA ID MOR000545376) and Building 23 (EPA ID MOR000564674) are registered separately as LQGs of hazardous waste, defined as facilities that generate 1,000 kilograms per month of hazardous waste or more than one kilogram per month of acutely hazardous waste.

Several operations at the existing KCNSC facilities generate hazardous wastes, as defined by 40 CFR 261. Hazardous wastes are routinely generated by metal fabrication, cleaning, finishing, coating, and encapsulation/ potting operations. Cleaning of metal parts in acid and alkaline solutions generates acid and alkaline waste. Waste rubber, foam, and resin components are generated by encapsulation/potting operations. Waste solvents are generated by degreasing, cleaning, and circuit board printing operations. The fabrication and machining of metal parts generates waste metal grindings. Waste paints and thinners are generated by product and facility painting operations. Miscellaneous waste chemicals are generated in laboratory processes. In addition, maintenance projects may yield wastes that are hazardous.

Hazardous wastes are managed in the same general manner as other generated wastes through onsite management, transport, and disposal at offsite facilities permitted in accordance with applicable Federal, State, and local requirements. Additionally, Honeywell follows established corporate standards, protocols, and requirements to ensure that all waste disposal sites and waste transporters used have been sufficiently reviewed, vetted, and approved in order to mitigate potential risks. Hazardous wastes subject to the RCRA are containerized and stored onsite for a period of less than 90 days in compliance with RCRA requirements for LQGs. These containerized wastes are then transported offsite by licensed transporters. Dilute rinsewaters from operations are piped directly through an industrial wastewater piping system to the KCNSC Botts Campus IWPF. Spent coolants and non-hazardous waters are staged in a bulk storage tank and transported offsite via tanker truck transport. Recycling, treatment, or disposal of

wastes occurs at facilities currently in compliance with Federal and State hazardous waste regulations, as applicable. Operations that generate the largest volume of hazardous wastes at existing KCNSC facilities include wastewater treatment, plating, and etching processes.

3.10.1.3 Hazardous Substances

The *Emergency Planning and Community Right-to-Know Act* (EPCRA) of 1986 was created to help communities plan for chemical emergencies. It also requires industry to report on the storage, use, and releases of hazardous substances to Federal, State, and local governments. Under Section 312 of EPCRA, NNSA routinely reviews the lists of extremely hazardous substances (EHSs) in Appendices A and B of 40 CFR Part 355 for the chemicals used onsite at existing KCNSC facilities. Under the Tier II requirements of EPCRA, an EHS is any substance for which a facility must maintain a Safety Data Sheet (SDS) under the Occupational Health and Safety Administration (OSHA) Hazard Communication Standard (29 CFR 1910). The NNSA is required to report the amount of an EHS which equals or exceeds the threshold planning quantity (TPQ) set by the EPA.

Table 3-11 lists the EHSs used at the KCNSC Botts Campus and Building 23 that equaled or exceeded the TPQ during the 2022 reporting year.

Table 3-11: KCNSC Botts Campus and Building 23 – Tier II Reportable Chemicals That Equaled or Exceeded EPCRA Threshold Planning Quantities (TPQ) in Reporting Year 2022

Chemical (full list)	CAS[(a)] #	EHS[(b)] Listed	Used at the Botts Campus	Used at Building 23
Selenious acid	7783-00-8	Yes	Yes	No
Precipitated silica	112926-00-8	No	Yes	No
Zeolites	1318-02-1	No	Yes	No
Boron-10	14798-12-0	No	Yes	No
Isocyanic acid	9016-87-9	No	Yes	No
Iron powdered	7439-89-6	No	Yes	No
Ethene, homopolymer	9002-88-4	No	Yes	No
Urea	57-13-6	No	Yes	No
2.4 TDI (toluene 2,4-diisoyante) [benzene]	584-84-9	Yes	Yes	No
Highly refined petroleum oils	64742-54-7	No	Yes	No
Lead	7439-92-1	No	Yes	Yes
Argon	7439-37-1	No	Yes	No
Rock Salt	7647-14-5	No	Yes	No
Sulfuric acid (H_2SO_4)	7664-93-9	Yes	Yes	Yes
Nitric acid	7697-37-2	Yes	Yes	No
Nitrogen	7727-37-9	No	Yes	Yes
Graphite	7782-42-5	No	Yes	No
2,6 TDI (toluene 2,6-diisocyante) [benzene]	91-08-7	Yes	Yes	No

Source: Honeywell FM&T, June 2023

a. Chemical Abstract Service registry number

b. The EHS list was first compiled by EPA, and subsequently incorporated into EPCRA, to identify chemicals that could cause serious irreversible health effects from accidental releases. EHSs are listed in 40 CFR Part 355.

Table 3-12 lists the EHSs used at the KCNSC Botts Campus and Building 23 that did not exceed the TPQ for recording year 2022.

Table 3-12: KCNSC Botts Campus – Tier II Reportable Chemicals That Did Not Exceed EPCRA Threshold Planning Quantities (TPQ) in Reporting Year 2022

Chemical (full list)	CAS[a] #	EHS[b] Listed
Epichlorohydrin [oxirane, (chloromethyl)]	106-89-8	Yes
Chloroethanol	107-07-03	Yes
Acrylonitrile	107-13-1	Yes
Ethylenediamime	107-15-3	Yes
Vinyl acetate monomer [acetic acid ethenyl ester]	018-05-4	Yes
Phenol	108-95-2	Yes
Piperidine	110-89-4	Yes
Hydroquinone (1,4-Benzenediol)	123-31-9	Yes
Cadmium oxide	1306-19-0	Yes
Vanadium pentoxide [vanadium oxide]	1314-62-1	Yes
Gallium trichloride	13450-90-3	Yes
Sodium cyanide	143-33-9	Yes
Potassium cyanide	151-50-8	Yes
Sodium azide	26628-22-8	Yes
Isophorone diisocyante (cyclohexane)	4098-71-9	Yes
Formaldehyde	50-00-0	Yes
4-Aminopyridine	504-24-5	Yes
Dithiobiuret	541-53-7	Yes
Benzenamine {Aniline)[c]	62-53-3	Yes
Chloroform	67-66-3	Yes
Sulfur dioxide	7446-09-5	Yes
Ethylene oxide (oxirane)	75-21-8	Yes
Propylene oxide (oxirane, methyl-)	75-56-9	Yes
Dimethyldichlorosaline	75-78-5	Yes
Lithium hydroxide	7580-67-8	Yes
Hydrochloric acid (only as a gas)	7647-01-0	Yes
Hydrogen fluoride {hydrofluoric acid)	7664-39-3	Yes
Ammonia	7664-41-7	Yes
Phosphorus	7723-14-0	Yes
Chlorine	7782-50-5	Yes
Selenious acid	7783-00-8	Yes
Acrylamide	79-06-1	Yes
Peracetic acid	79-21-0	Yes

Source: Honeywell FM&T, June 2023. This list is subject to change at any time for either site as new materials are purchased onsite to support daily operations. Monthly review of on-hand balances for EHSs is completed by health, safety & environment (HS&E) and appropriate action is taken as required under EPCRA.

a. Chemical Abstract Service registry number

b. The EHS list was first compiled by EPA, and subsequently incorporated into EPCRA, to identify chemicals that could cause serious irreversible health effects from accidental releases. EHSs are listed in 40 CFR Part 355.

c. Only EHS listed but did not exceed a reportable threshold for Building 23 in Reporting Year 2022.

3.10.2 Environmental Impacts

3.10.2.1 Proposed Action

The volume of waste generation would increase at KCNSC facilities once KCNExT comes on line. Regardless of the characteristics of the waste stream, management of non-hazardous, hazardous, and small quantities of low-level radioactive waste would continue to occur in the same manner as under current operational levels. All wastes would continue to be categorized and disposed of according to the Federal and State permits held by the NNSA and following applicable Federal, State, and local regulations. At all KCNSC facilities, industrial wastes captured by an IWPF[4] would continue to be disposed of in accordance with applicable regulations. Wastes would be minimized through continued and expanded reuse and recycling efforts.

Table 3-13 lists the EHSs that could potentially be used at KCNExT that would be reviewed for applicability to the TPQ.

Table 3-13: KCNSC Botts Campus, Building 23, and KCNExT – Anticipated New Tier II Reportable Chemicals That will be reviewed for applicability to the EPCRA Threshold Planning Quantities (TPQ)

Chemical (full list)	CAS[(a)] #	EHS[(b)] Listed
Citric Acid	77-92-9	No
Hexavalent Coating	18540-29-9	No
Trivalent Coating	16065-83-3	No
Sulfuric Acid	7664-93-9	Yes
Copper	7440-50-8	No
Nickel	7440-02-0	Yes
Palladium	7440-05-3	Yes
Gold	7440-57-5	No
Zinc	7440-66-6	No
Tin	7440-31-5	No
Chrome	7440-47-3	No
Cadmium	7440-43-9	No
Silver	7440-22-4	No

Source: Honeywell FM&T, June 2023. This list is subject to change at any time for either site as new materials are purchased onsite to support daily operations. Monthly review of on-hand balances for EHSs is completed by health, safety & environment (HS&E) and appropriate action is taken as required under EPCRA.

a. Chemical Abstract Service registry number

b. The EHS list was first compiled by EPA, and subsequently incorporated into EPCRA, to identify chemicals that could cause serious irreversible health effects from accidental releases. EHSs are listed in 40 CFR Part 355.

Very low volumes of low-level radioactive wastes are generated at the KCNSC Botts Campus. With the expansion of operations to KCNExT, approximately 40 pounds per year of low-level radioactive wastes are expected to be generated at the combined KCNSC facilities. KCNExT operations would also generate various waste streams which would be managed and disposed of in the same manner they are addressed at the existing KCNSC facilities.

[4] KCNSC Botts Campus has an operational IWPF. Once KCNSC takes full occupancy of Building 23, an IWPF may be installed as manufacturing volumes increase. An IWPF would be constructed at KCNExT during the North Development Stage.

3.10.2.2 No-Action Alternative

No changes would occur in the management of non-hazardous, hazardous, and very small quantities of low-level radioactive waste. All wastes would continue to be categorized and disposed of according to the Federal and State permits held by the NNSA and following applicable Federal, State, and local regulations.

3.11 Human Health and Safety

3.11.1 Affected Environment

3.11.1.1 Public Health and Safety

The NNSA has established management systems at the KCNSC Botts Campus and Building 23 to implement and monitor its environmental protection responsibilities. These systems monitor and maintain compliance with applicable Federal, State, and local regulations to ensure continued health and safety of the public. These facilities have no history of spills or releases of hazardous materials into the environment. Both locations have historically been in compliance with all applicable EPA regulations and have no recorded violations (EPA ECHO database).

3.11.1.2 Worker Health and Safety

The KCNSC conducts an All Hazards Survey (AHS), Threat and Hazard Identification and Risk Assessment (THIRA), and an Emergency Planning Hazard Assessment (EPHA) every three years and has also developed an annual Emergency Management Plan based on the assessment, effective August 2020 through August 2023. Potential material and chemical hazards to worker health and safety present at KCNSC facilities include cyanide salts, beryllium, mercury, chromium, acids, caustics, ammonia, and polychlorinated biphenyls (PCBs); as noted in Table 3-11 and Table 3-12. Potential physical hazards include machine operations, noise, high-voltage electrical equipment, pressurized systems, and construction activities. The existing KCNSC facilities do not contain asbestos or lead-based paint in their respective building materials.

3.11.2 Environmental Impacts

3.11.2.1 Proposed Action

Waste generation rates across the KCNSC facilities (including KCNExT) would continue to be monitored as operations are expanded to support forecasted workloads. Waste management operations would be adjusted as needed. Onsite waste management staff (employed by the KCNSC Management and Operations contractor) would continue to manage waste disposal operations. Onsite staff would also prepare shipments and contract with local permitted waste management and recycling contractors for collection and transport of waste to licensed disposal facilities. The KCNSC has an existing U.S. Department of Transportation (USDOT) Security Plan for the transport of hazardous wastes as required under 49 CFR 172.800; KCNExT would be covered under this existing KCNSC plan and the plan would be amended as needed to reflect any changed is waste generation.

Nonhazardous waste would continue to be disposed of at a locally permitted sanitary landfill such as the Johnson County [Kansas] Landfill. Any hazardous waste would be handled in compliance with applicable regulatory requirements to minimize hazards for worker safety and the general public.

KCNExT operations are likely to generate the same or similar types of wastes as the existing KCNSC facilities. KCNExT may also be classified as a LQG and would be permitted in the same manner as the existing facilities. All wastes generated at KCNExT would be managed and disposed of in the same manner as wastes generated at the existing KCNSC facilities. Transport of hazardous wastes from KCNExT to licensed disposal facilities would be covered under KCNSC's existing USDOT Security Plan.

3.11.2.2 No-Action Alternative

All current operations, including operation of equipment that generates wastes, would continue at the KCNSC Botts Campus and Building 23. Increases in operational levels and therefore increases in the production of all wastes would be managed as future workloads increase. Wastes would continue to be managed and disposed of in the same manner they are today.

3.12 Intentional Destructive Acts

Section 5.3.9 of DOE/EA-1592 (2008 Environmental Assessment for the *Modernization of Facilities and Infrastructure for the Non-Nuclear Production Activities Conducted at the Kansas City Plant*) discusses the considerations and evaluation of potential intentional destructive acts prior to the construction of the KCNSC Botts Campus. This information and threat level designation is also applicable to Building 23 and KCNExT.

DOE considers intentional destructive acts (i.e., acts of sabotage or terrorism) in all of its EAs and Environmental Impact Statements. After reviewing the types of existing and proposed operations and associated potential hazards to be expanded across the KCNSC facilities (including KCNExT), the NNSA has determined that the likelihood of such acts for the proposed action would be low. It is possible that random acts of theft or vandalism could happen as at any other location. The act of relocating the functions included under the proposed action would not create a particularly attractive target or opportunity for terrorists or saboteurs to inflict adverse impacts to human life, heath, or safety.

4.0 CUMULATIVE EFFECTS

4.1 Current and Reasonably Foreseeable Future Action

The Kansas City metropolitan area is a mixed-use community with industrial activities, offices, parks and recreation, and residential areas. The activities associated with these mixed uses produce impacts across all resource areas assessed in this EA. This EA accounts for these impacts under the affected environment descriptions for the proposed action. This EA also assumes that such uses would continue, producing additional but minor impacts across various resources in the region. For example, facilities would be repaired as required, jobs would be gained and lost, and community services (e.g., hospitals, education, and police) would continue to provide needed services to the area. This area of Jackson County provides some of the last undeveloped land with close access to the interstate system and would continue to develop over the next 10 years.

The area surrounding the existing and proposed KCNSC facilities is designated for continued industrial use west of I-49/US-71 and for suburban uses (e.g., residential, commercial, light industrial) east of I-49/US-71. The land south of MO-150 and west of Building 23 is part of the I-49 Intermodal Center that contains several industrial and distribution businesses, some constructed since 2021.

4.1.1 Additional Leased Spaces

Construction began on the KCNSC Botts Campus in 2010 with the NNSA relocating operations to the new facility in 2013. As described in Section 1.1, the NNSA leased additional office space at three locations in Kansas City between 2016 and 2019. Additional space was leased within Building 2023 in 2019 with NNSA purchasing Building 23 in 2023. NNSA will operate across the full 425,000 SF within Building 23 starting in 2024.

4.2 Potential Cumulative Effects

The expansion of manufacturing operations to KCNExT would result in minor cumulative effects. The expansion to satisfy larger production volumes will result in the hiring of additional employees, minor increases in surface traffic volumes resulting from increased employment and material deliveries, air emissions, industrial wastewater generation, power usage, and waste generation would occur to support the workloads forecasted over the next 5 to 10 years. Overall, the expansion of operations across KCNSC facilities would result in minimal cumulative effects.

The NNSA will continue to evaluate long-term solutions to address their ongoing mission under the multi-phased development of KCNExT to support forecasted workloads. In the event changes in the operational needs across all three KCNSC facilities or the consideration of additional facility space beyond the KCNSC Botts Campus, Building 23, and KCNExT is warranted, NNSA will evaluate the potential impacts of those actions under a re-evaluation of this EA or development of a separate environmental document.

5.0 REGULATORY REQUIREMENTS

This chapter provides a discussion of regulatory requirements associated with the proposed action. The following summarizes additional regulatory requirements and permitting that would be necessary to expand operations to KCNExT.

5.1 Regulatory Agencies

Federal and State laws and local ordinances are the basis for the environmental, safety, and health requirements for KCNSC and NNSA facilities and operations. In addition to DOE, EPA, DOT, and the U.S. Department of Labor are responsible for implementing Federal environmental, safety, and health statutes. The implementation direction can be statutory or by Executive Order. The EPA has delegated permitting and enforcement for the CAA, CWA, and RCRA to the MDNR; however, the EPA retains oversight of such State programs.

State agencies operate under their own statutory authorities to establish and enforce environmental, health, and safety laws. The MDNR administers environmental regulatory programs that affect NNSA facilities and operations and is responsible for the protection and improvement of Missouri land, air, water, and recreation resources. Most State environmental regulations are in Title 10 of the *Missouri Code of State Regulations*. In addition, the City of Kansas City administers the Industrial Wastewater Pretreatment permitting program.

The CAA, CWA, and the RCRA have the greatest effect on the maintenance of related permits. Other regulations that affect the KCNSC facilities are those adopted under the *Toxic Substances Control Act of 1976* (TSCA) and the USDOT (49CFR 171-180). In addition, CERCLA and EPCRA impose requirements on hazardous materials.

5.2 Federal, State, and Local Environmental Statutes and Regulations

Table 5-1 lists major Federal statutes, regulations, and Executive Orders applicable to the proposed action. Table 5-2 lists major State and local statutes, regulations, and orders also applicable to the proposed action. The NNSA currently complies with these and other regulations applicable to operations at the Botts Campus and Building 23 and would maintain compliance for operations extended to KCNExT.

Table 5-1: Major Federal Environmental Laws

Environmental Law and Regulation	Requirements
Clean Air Act	Enacted in 1970, the *Clean Air Act* provides air quality standards for criteria pollutants, control technology standards for hazardous air pollutants and new sources, a construction permit program, regulations on O_3-depleting substances, Section 112(r) emergency release regulations, and operating permit requirements. Missouri has an EPA-approved program administered by MDNR.
Clean Water Act	The 1972 amendments establish the National Pollutant Discharge Elimination System (NPDES) to control pollutants discharged to Waters of the United States from a point source. EPA establishes technology-based effluent limitations and requires permits for discharges. Missouri has an approved program administered by MDNR. The Act contains requirements for oil spill control and prevention. The City of Kansas City administers the Industrial Wastewater Pretreatment permitting program.
Comprehensive Environmental Response, Compensation, and Liability Act	Enacted in 1980, CERCLA establishes requirements for hazardous materials that may be subject to certain reporting requirements.
Superfund Amendments and Reauthorization Act	Enacted in 1986, this Act increased State involvement in the CERCLA program and increased program focus on human health problems posed by hazardous waste sites. The 1986 Act created the Emergency Planning and Community Right-to-Know program and requires reporting of hazardous chemical usage and release.
Toxic Substances and Control Act	Enacted in 1976, this Act establishes procedures for reporting the use and manufacture of specific new and existing chemicals. It establishes certain prohibitions and regulates the manufacture, processing, distribution, use, disposal, storage, and marking and labeling of certain hazardous materials.
Resource Conservation and Recovery Act	Enacted in 1976, RCRA regulates the generation, storage, handling, treatment, and disposal of hazardous wastes.
Community Environmental Response Facilitation Act of 1992	This Act amends CERCLA to establish a process for the identification, before termination, of Federal activities on property that does not contain contamination. It requires prompt identification of parcels that would not require remediation to facilitate the transfer of such property for economic redevelopment.
Federal Facilities Compliance Act (Public Law 102-386)	This Act waives sovereign immunity for Federal facilities under RCRA, including the KCNSC, and requires development of plans and agreements with States for the management of specific waste streams.
Pollution Prevention Act of 1990	This Act establishes the Federal Government's preference for source reduction followed by recycling rather than treatment or disposal of waste or pollutants.
National Environmental Policy Act of 1969	Enacted in 1970, NEPA establishes a national policy that requires consideration of environmental impacts in Federal decision making. A Federal agency considering an action that could impact the human environment must prepare an EA. If such assessment determines that impacts could be significant, the agency must prepare a more detailed analysis in the form of an environmental impact statement.
Occupational Safety and Health Act of 1970	DOE, through 10 CFR Part 851, exercises its jurisdiction over worker safety and health programs at KCNSC by substantially adopting *Occupational Safety and Health Act of 1970* establishes standards to enhance safe, healthy working conditions in places of employment throughout the United States. While DOE and EPA each have a mandate to reduce exposure to toxic substances, the Administration's jurisdiction is limited to safety and health conditions in the workplace environment. In general, under the Act, each employer must furnish all employees a place of employment that is free of recognized hazards that are likely to cause death or serious physical harm. Employees have a duty to comply with the occupational safety and health standards and all related rules, regulations, and orders.

Table 5-1 continued: Major Federal Environmental Laws

Environmental Law and Regulation	Requirements
Federal Pipeline Safety Regulations (various)	Created in 2004, the Pipeline and Hazardous Materials Safety Administration (PHMSA), an agency of USDOT, carries out a national safety program, including security matters, to protect against the risks to life and property inherent in the transportation of hazardous materials in commerce by all transportation modes.

Table 5-2: Major State and Local Environmental Laws, Regulations, and other Potentially Applicable Requirements Environmental Law and Regulation

Environmental Law and Regulation	Requirements
Missouri Revised Statutes, Chapter 653, Air Conservation – Title 10 Code of State Regulations (CSR) Division 10, Chapters 1–6	Establishes the State program implementing the *Clean Air Act*. Requires permits to construct, modify, or operate an air contaminant source, and adopts the primary National Emission Standards for Hazardous Air Pollutants for State enforcement.
Missouri Revised Statutes, Chapters 640 and 644, Clean Water Law – Title 10 CSR Division 20, Chapters 1–15	Establishes the State Program implementing the *Clean Water Act*. Requires permits for discharges to State waters, establishes water quality standards, and regulates storage tanks.
Missouri Revised Statutes, Chapter 260 Environmental Control, Chapter 260.353-430 Missouri Hazardous Waste Management Law, Chapter 260.200-260.345 Missouri Solid Waste Management Law – Title 10 CSR Division 25, Chapters 1–19; 10 CSR Division 24 Chapters 1–5 and 10 CSR Division 10 CSR Division 100 Chapters 1–5	Establishes the Missouri program that incorporates the requirements of CERCLA, RCRA, *Federal Facilities Compliance Act,* and *Toxic Substances and Control Act*. Regulates aspects of storage tanks. Requires permits for hazardous waste storage and disposal facilities and remediation of contaminated sites.
Missouri Revised Statutes, Sections 260.1000 to 260.1039 (*Missouri Uniform Environmental Covenants Act*)	Creates a standard for the development and application of environmental covenants that increases their reliability when used as part of the cleanup of contaminated sites.
Code of Ordinances of Kansas City, Missouri; Chapter 88	Contains regulations for land development and use.
Code of Ordinances of Kansas City, Missouri; Section 60-130 to 60-147	Outlines requirements for industrial/sanitary wastewater permit.

5.3 Consultations

As workload and staffing levels demand, modifications to existing buildings, expansion of parking areas, and introduction of an IWPF (at Building 23 and KCNExT) would occur. The NNSA will continue to consult, as appropriate, with Federal, State, and local agencies to support those changes as they occur.

6.0 REFERENCES

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APPENDIX A – Agency Scoping Letters and Responses

Department of Energy
National Nuclear Security Administration
Kansas City Field Office
14520 Botts Road
Kansas City, MO 64147

May 8, 2023

Brandon Doster, Unit Chief
Missouri Department of Natural Resources
Federal Facilities Section
Environmental Remediation Program
P.O. Box 176
Jefferson City, Missouri 65102

Re: DOE NNSA NEPA Review for the Kansas City National Security Campus (KCNSC)
KC NExT Project

Mr. Doster:

The U.S. Department of Energy (DOE) National Nuclear Security Administration (NNSA) is evaluating the acquisition and operation of a new facility/campus east of the existing Kansas City National Security Campus (KCNSC) Botts Campus in Kansas City, Jackson County, Missouri (see attached location map).

In the Fall of 2021, KCNSC was tasked to develop a conceptual area layout for a proposed new campus on the 245 acres east of the existing Botts Campus, referred to as KC NExT. The NNSA intends to prepare an Environmental Assessment (EA) to support the acquisition and operation of a new campus on approximately 245 acres immediately east of the Botts Campus. This proposed campus, to be constructed by a private land developer, would provide approximately 440,000 square feet of additional office space and approximately 500,000 square feet of additional manufacturing capacity for KCNSC. NNSA/KCNSC is considering entering into a series of purchase agreements to acquire this development completed by a private land developer. The EA would update the operations and activities conducted at the Botts Campus and at Building 23, as described in the *Environmental Assessment for the Kansas City National Security Campus Sitewide Assessment of Botts and Building 23 Operations (DOE/EA 2167)* completed in July 2021, and update the analysis to account for the private development of the property, account for operations extended to the new campus, and assess the associated effects on the human and natural environment. KCNSC operations would continue at both the existing Botts Campus and Building 23 locations.

The NNSA is beginning the preparation of the EA and has retained Burns & McDonnell Engineering Company, Inc, (Burns & McDonnell) to conduct the environmental review and develop the EA. As this letter initiates the scoping process for the EA, Burns & McDonnell is requesting your assistance in identifying the issues associated with the proposed action as well as any approvals or permits that NNSA may need from your agency to implement the proposed action. The input you provide will be used to determine the types of potential direct and indirect effects the proposed action may have on the public and the environment. Your input will be used by the study team to identify ways to minimize impacts under the following categories:

- Land use
- Air quality and noise
- Geology and soils

- Water resources
- Biological resources
- Socioeconomics (population, employment, growth, development, community services)
- Hazardous materials and waste disposal
- Transportation (roadways, traffic, access, etc.)
- Utilities
- Human health and safety
- Cumulative effects

The NNSA is requesting comments regarding the Proposed Action as it relates to your agency's regulatory jurisdiction or area of expertise. A study area map is attached to this letter indicating the location of the KC NExT project site adjacent to the existing KCNSC Botts Campus and Building 23.

The NNSA would appreciate receiving any comments or information in response to this request no later than 14 days from the date of this letter.

The EA is anticipated to be available for review in late summer 2023. The document will be made available electronically for review and comment.

Please send your comments via email to scannonmackey@burnsmcd.com or by mail to the following address:

Shari Cannon-Mackey, CEP, ENV SP
Burns & McDonnell
6200 Bridge Point Parkway, Suite 400
Austin, Texas 78730

If you have any questions about the project, please contact me at (816) 488-3417 or by email at schandler@kcnsc.doe.gov. Thank you for your time and assistance on the Project.

Sincerely,



Sybil Chandler, MS, CSP, CHMM
NEPA Compliance Officer
National Nuclear Security Administration
Kansas City Field Office

Enclosure: Study Area Map

CC: Matt McConville, Honeywell
Shari Cannon-Mackey, Burns & McDonnell

Department of Energy
National Nuclear Security Administration
Kansas City Field Office
14520 Botts Road
Kansas City, MO 64147

May 8, 2023

Tim Eiken, Rules Coordinator
Missouri Department of Natural Resources
Federal Facilities Section
Environmental Remediation Program
P.O. Box 176
Jefferson City, Missouri 65102

Re: DOE NNSA NEPA Review for the Kansas City National Security Campus (KCNSC)
KC NExT Project

Mr. Eiken:

The U.S. Department of Energy (DOE) National Nuclear Security Administration (NNSA) is evaluating the acquisition and operation of a new facility/campus east of the existing Kansas City National Security Campus (KCNSC) Botts Campus in Kansas City, Jackson County, Missouri (see attached location map).

In the Fall of 2021, KCNSC was tasked to develop a conceptual area layout for a proposed new campus on the 245 acres east of the existing Botts Campus, referred to as KC NExT. The NNSA intends to prepare an Environmental Assessment (EA) to support the acquisition and operation of a new campus on approximately 245 acres immediately east of the Botts Campus. This proposed campus, to be constructed by a private land developer, would provide approximately 440,000 square feet of additional office space and approximately 500,000 square feet of additional manufacturing capacity for KCNSC. NNSA/KCNSC is considering entering into a series of purchase agreements to acquire this development completed by a private land developer. The EA would update the operations and activities conducted at the Botts Campus and at Building 23, as described in the *Environmental Assessment for the Kansas City National Security Campus Sitewide Assessment of Botts and Building 23 Operations (DOE/EA 2167)* completed in July 2021, and update the analysis to account for the private development of the property, account for operations extended to the new campus, and assess the associated effects on the human and natural environment. KCNSC operations would continue at both the existing Botts Campus and Building 23 locations.

The NNSA is beginning the preparation of the EA and has retained Burns & McDonnell Engineering Company, Inc, (Burns & McDonnell) to conduct the environmental review and develop the EA. As this letter initiates the scoping process for the EA, Burns & McDonnell is requesting your assistance in identifying the issues associated with the proposed action as well as any approvals or permits that NNSA may need from your agency to implement the proposed action. The input you provide will be used to determine the types of potential direct and indirect effects the proposed action may have on the public and the environment. Your input will be used by the study team to identify ways to minimize impacts under the following categories:

- Land use
- Air quality and noise
- Geology and soils

- Water resources
- Biological resources
- Socioeconomics (population, employment, growth, development, community services)
- Hazardous materials and waste disposal
- Transportation (roadways, traffic, access, etc.)
- Utilities
- Human health and safety
- Cumulative effects

The NNSA is requesting comments regarding the Proposed Action as it relates to your agency's regulatory jurisdiction or area of expertise. A study area map is attached to this letter indicating the location of the KC NExT project site adjacent to the existing KCNSC Botts Campus and Building 23.

The NNSA would appreciate receiving any comments or information in response to this request no later than 14 days from the date of this letter.

The EA is anticipated to be available for review in late summer 2023. The document will be made available electronically for review and comment.

Please send your comments via email to scannonmackey@burnsmcd.com or by mail to the following address:

Shari Cannon-Mackey, CEP, ENV SP
Burns & McDonnell
6200 Bridge Point Parkway, Suite 400
Austin, Texas 78730

If you have any questions about the project, please contact me at (816) 488-3417 or by email at schandler@kcnsc.doe.gov. Thank you for your time and assistance on the Project.

Sincerely,



Sybil Chandler, MS, CSP, CHMM
NEPA Compliance Officer
National Nuclear Security Administration
Kansas City Field Office

Enclosure: Study Area Map

CC: Matt McConville, Honeywell
Shari Cannon-Mackey, Burns & McDonnell

Department of Energy
National Nuclear Security Administration
Kansas City Field Office
14520 Botts Road
Kansas City, MO 64147

May 8, 2023

Rob Hunt, Planning Coordinator
Missouri Department of Natural Resources
Director's Office
P.O. Box 176
Jefferson City, Missouri 65102

Re: DOE NNSA NEPA Review for the Kansas City National Security Campus (KCNSC)
KC NExT Project

Mr. Hunt:

The U.S. Department of Energy (DOE) National Nuclear Security Administration (NNSA) is evaluating the acquisition and operation of a new facility/campus east of the existing Kansas City National Security Campus (KCNSC) Botts Campus in Kansas City, Jackson County, Missouri (see attached location map).

In the Fall of 2021, KCNSC was tasked to develop a conceptual area layout for a proposed new campus on the 245 acres east of the existing Botts Campus, referred to as KC NExT. The NNSA intends to prepare an Environmental Assessment (EA) to support the acquisition and operation of a new campus on approximately 245 acres immediately east of the Botts Campus. This proposed campus, to be constructed by a private land developer, would provide approximately 440,000 square feet of additional office space and approximately 500,000 square feet of additional manufacturing capacity for KCNSC. NNSA/KCNSC is considering entering into a series of purchase agreements to acquire this development completed by a private land developer. The EA would update the operations and activities conducted at the Botts Campus and at Building 23, as described in the *Environmental Assessment for the Kansas City National Security Campus Sitewide Assessment of Botts and Building 23 Operations (DOE/EA 2167)* completed in July 2021, and update the analysis to account for the private development of the property, account for operations extended to the new campus, and assess the associated effects on the human and natural environment. KCNSC operations would continue at both the existing Botts Campus and Building 23 locations.

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- Land use
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- Geology and soils
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- Socioeconomics (population, employment, growth, development, community services)
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- Transportation (roadways, traffic, access, etc.)
- Utilities
- Human health and safety
- Cumulative effects

The NNSA is requesting comments regarding the Proposed Action as it relates to your agency's regulatory jurisdiction or area of expertise. A study area map is attached to this letter indicating the location of the KC NExT project site adjacent to the existing KCNSC Botts Campus and Building 23.

The NNSA would appreciate receiving any comments or information in response to this request no later than 14 days from the date of this letter.

The EA is anticipated to be available for review in late summer 2023. The document will be made available electronically for review and comment.

Please send your comments via email to scannonmackey@burnsmcd.com or by mail to the following address:

Shari Cannon-Mackey, CEP, ENV SP
Burns & McDonnell
6200 Bridge Point Parkway, Suite 400
Austin, Texas 78730

If you have any questions about the project, please contact me at (816) 488-3417 or by email at schandler@kcnsc.doe.gov. Thank you for your time and assistance on the Project.

Sincerely,



Sybil Chandler, MS, CSP, CHMM
NEPA Compliance Officer
National Nuclear Security Administration
Kansas City Field Office

Enclosure: Study Area Map

CC: Matt McConville, Honeywell
Shari Cannon-Mackey, Burns & McDonnell

Department of Energy
National Nuclear Security Administration
Kansas City Field Office
14520 Botts Road
Kansas City, MO 64147

May 8, 2023

Joe Summerlin, NEPA Reviewer
Environmental Protection Agency, Region 7
11201 Renner Boulevard
Lenexa, Kansas 66219

Re: DOE NNSA NEPA Review for the Kansas City National Security Campus (KCNSC)
KC NExT Project

Mr. Summerlin:

The U.S. Department of Energy (DOE) National Nuclear Security Administration (NNSA) is evaluating the acquisition and operation of a new facility/campus east of the existing Kansas City National Security Campus (KCNSC) Botts Campus in Kansas City, Jackson County, Missouri (see attached location map).

In the Fall of 2021, KCNSC was tasked to develop a conceptual area layout for a proposed new campus on the 245 acres east of the existing Botts Campus, referred to as KC NExT. The NNSA intends to prepare an Environmental Assessment (EA) to support the acquisition and operation of a new campus on approximately 245 acres immediately east of the Botts Campus. This proposed campus, to be constructed by a private land developer, would provide approximately 440,000 square feet of additional office space and approximately 500,000 square feet of additional manufacturing capacity for KCNSC. NNSA/KCNSC is considering entering into a series of purchase agreements to acquire this development completed by a private land developer. The EA would update the operations and activities conducted at the Botts Campus and at Building 23, as described in the *Environmental Assessment for the Kansas City National Security Campus Sitewide Assessment of Botts and Building 23 Operations (DOE/EA 2167)* completed in July 2021, and update the analysis to account for the private development of the property, account for operations extended to the new campus, and assess the associated effects on the human and natural environment. KCNSC operations would continue at both the existing Botts Campus and Building 23 locations.

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- Land use
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- Geology and soils
- Water resources
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- Socioeconomics (population, employment, growth, development, community services)
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6200 Bridge Point Parkway, Suite 400
Austin, Texas 78730

If you have any questions about the project, please contact me at (816) 488-3417 or by email at schandler@kcnsc.doe.gov. Thank you for your time and assistance on the Project.

Sincerely,



Sybil Chandler, MS, CSP, CHMM
NEPA Compliance Officer
National Nuclear Security Administration
Kansas City Field Office

Enclosure: Study Area Map

CC: Matt McConville, Honeywell
Shari Cannon-Mackey, Burns & McDonnell

Department of Energy
National Nuclear Security Administration
Kansas City Field Office
14520 Botts Road
Kansas City, MO 64147

May 8, 2023

Wes Minder, Director
KC Water
4800 East 63rd Street
Kansas City, Missouri 64130

Re: DOE NNSA NEPA Review for the Kansas City National Security Campus (KCNSC)
KC NExT Project

Mr. Minder:

The U.S. Department of Energy (DOE) National Nuclear Security Administration (NNSA) is evaluating the acquisition and operation of a new facility/campus east of the existing Kansas City National Security Campus (KCNSC) Botts Campus in Kansas City, Jackson County, Missouri (see attached location map).

In the Fall of 2021, KCNSC was tasked to develop a conceptual area layout for a proposed new campus on the 245 acres east of the existing Botts Campus, referred to as KC NExT. The NNSA intends to prepare an Environmental Assessment (EA) to support the acquisition and operation of a new campus on approximately 245 acres immediately east of the Botts Campus. This proposed campus, to be constructed by a private land developer, would provide approximately 440,000 square feet of additional office space and approximately 500,000 square feet of additional manufacturing capacity for KCNSC. NNSA/KCNSC is considering entering into a series of purchase agreements to acquire this development completed by a private land developer. The EA would update the operations and activities conducted at the Botts Campus and at Building 23, as described in the *Environmental Assessment for the Kansas City National Security Campus Sitewide Assessment of Botts and Building 23 Operations (DOE/EA 2167)* completed in July 2021, and update the analysis to account for the private development of the property, account for operations extended to the new campus, and assess the associated effects on the human and natural environment. KCNSC operations would continue at both the existing Botts Campus and Building 23 locations.

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- Geology and soils
- Water resources
- Biological resources

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Shari Cannon-Mackey, CEP, ENV SP
Burns & McDonnell
6200 Bridge Point Parkway, Suite 400
Austin, Texas 78730

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Sincerely,



Sybil Chandler, MS, CSP, CHMM
NEPA Compliance Officer
National Nuclear Security Administration
Kansas City Field Office

Enclosure: Study Area Map

CC: Matt McConville, Honeywell
Shari Cannon-Mackey, Burns & McDonnell

Department of Energy
National Nuclear Security Administration
Kansas City Field Office
14520 Botts Road
Kansas City, MO 64147

May 8, 2023

Ross Grundyson, Interim Fire Chief
Kansas City Fire Department
Century Towers
635 Woodland Ave
Suite 2100
Kansas City, Missouri 64106

Re: DOE NNSA NEPA Review for the Kansas City National Security Campus (KCNSC)
KC NExT Project

Chief Grundyson:

The U.S. Department of Energy (DOE) National Nuclear Security Administration (NNSA) is evaluating the acquisition and operation of a new facility/campus east of the existing Kansas City National Security Campus (KCNSC) Botts Campus in Kansas City, Jackson County, Missouri (see attached location map).

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Burns & McDonnell
6200 Bridge Point Parkway, Suite 400
Austin, Texas 78730

If you have any questions about the project, please contact me at (816) 488-3417 or by email at schandler@kcnsc.doe.gov. Thank you for your time and assistance on the Project.

Sincerely,



Sybil Chandler, MS, CSP, CHMM
NEPA Compliance Officer
National Nuclear Security Administration
Kansas City Field Office

Enclosure: Study Area Map

CC: Matt McConville, Honeywell
Shari Cannon-Mackey, Burns & McDonnell

Department of Energy
National Nuclear Security Administration
Kansas City Field Office
14520 Botts Road
Kansas City, MO 64147

May 8, 2023

Rodney Baldwin, Fire Chief
Grandview Fire Department
Grandview City Hall
1200 Main Street
Grandview, Missouri 64030

Re: DOE NNSA NEPA Review for the Kansas City National Security Campus (KCNSC)
KC NExT Project

Chief Baldwin:

The U.S. Department of Energy (DOE) National Nuclear Security Administration (NNSA) is evaluating the acquisition and operation of a new facility/campus east of the existing Kansas City National Security Campus (KCNSC) Botts Campus in Kansas City, Jackson County, Missouri (see attached location map).

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Cannon-Mackey, Shari

From: Rodney Baldwin <rbaldwin@grandview.org>
Sent: Tuesday, May 30, 2023 2:50 PM
To: Cannon-Mackey, Shari
Subject: RE: DOE NNSA NEPA Review for Kansas City National Security Campus (KCNSC) KC NExT Project

Very good, thank you. The Grandview Fire Department is not aware of any environmental issues or fire code violations on that property.

From: Cannon-Mackey, Shari <scannonmackey@burnsmcd.com>
Sent: Tuesday, May 30, 2023 12:53 PM
To: Rodney Baldwin <rbaldwin@grandview.org>
Subject: RE: DOE NNSA NEPA Review for Kansas City National Security Campus (KCNSC) KC NExT Project

Chief Baldwin –

At this time, the only "address" that can be provided is the "Property located at Northeast Corner of Missouri State Highway No. 150 and Botts Road in Kansas City, Jackson County, Missouri". I am sure as the project progresses and NNSA-KCNSC plans to occupy the property that they will obtain a 911-compliant street address.

Please let me know if you have further questions or comments.

Shari Cannon-Mackey, CEP, ENV SP | Burns & McDonnell
O 737-787-6683 | M 512-750-2475
scannonmackey@burnsmcd.com

From: Rodney Baldwin <rbaldwin@grandview.org>
Sent: Monday, May 15, 2023 10:35 AM
To: Cannon-Mackey, Shari <scannonmackey@burnsmcd.com>
Subject: DOE NNSA NEPA Review for Kansas City National Security Campus (KCNSC) KC NExT Project

Ms. Cannon-Mackey,

The property outlined for development KCNSC NExT project is located in Kansas City as identified by the map provided. The provision of a parcel number or address that is in Grandview will give us the information needed to evaluate any environmental problems identified and issue a report of findings.

Rodney D. Baldwin
Grandview Fire Chief
rbaldwin@grandview.org
Office: (816)316-4962
Cell: (816)401-5942

From:	Kruse, Anna
To:	Cannon-Mackey, Shari
Cc:	Ragsdale, Joseph
Subject:	EA Information Request/KC NExT Project
Date:	Thursday, May 18, 2023 2:21:47 PM
Attachments:	image001.png image002.png NoRef_DeptEnergy.NNSA_Lettr.wAttach.pdf

---

Please see attached for the response to your inquiry of May 8, 2023, to Ross Grundyson, Interim Fire Chief, KCFD.
This letter provides information regarding hazardous Materials. Thank you.

Anna Kruse
Administrative Officer
Fire Prevention
Fire Department
City of Kansas City, Mo.
635 Woodland/Ste 2103
Kansas City, MO 64106
Email: anna.kruse@kcmo.org
Phone: 816-513-4645
Fax: 816-513-4689
KCMO.gov/fire

Fire Prevention Division

635 Woodland Ave.
Suite 2103
Kansas City, Missouri 6410

Office: (816) 513-4611
Fax: (816) 513-4689

To: Sybil Chandler
Kansas City National
Security Campus
Kansas City, MO

5/18/2023

Subject: Environmental Assessment

A records check was made of the acreage referred to as KC NExT, per attached location map. This search revealed no records found regarding fire department responses for Hazardous Materials releases or other environmental incidents. Thank you.

Thomas Kievlan
Thomas F. Kievlan
Assistant Fire Marshal
Fire Prevention Division
Kansas City Fire Department
City of Kansas City, Mo.
635 Woodland Ave., Ste. 2103
Kansas City, MO 64106
E-mail:tom.kievlan@kcmo.org
Phone: (816) 513-4644
Fax: (816) 513-4689


KCNSC Botts Campus
KC NExT
Building 23
Grandview
Kansas City
Belvidere
E 147th St
Botts Rd
Prospect Ave
E 142nd St
E 143rd St
E 139th St
E 140th St
E 140th Pl
E 148th St
E 149th St
E 149th Ter
E 150th St
E 150th Ter
E 152nd St
Thunderbird Rd
Number 91 Lake
Richards-Gebaur Commerce Park
71
150
E Access
W Access
Building 23
KCNExT
KCNSC Botts Campus
Kansas City
0 500 1,000
Scale in Feet
NORTH
BURNS MCDONNELL
Study Area Map
Kansas City
National Security Campus
KC NExT DOE/NNSA

MISSOURI DEPARTMENT OF NATURAL RESOURCES

Michael L. Parson
Governor

Dru Buntin
Director

June 2, 2023

Shari Cannon-Mackey
Burns & McDonnell
6200 Bridge Point Parkway, Suite 400
Austin, TX 78730

Dear Shari Cannon-Mackey;

The Missouri Department of Natural Resources appreciates the opportunity to review the materials for the KC NExT Project. The Department offers the following comments for consideration.

Project Location

The project location is directly east of the existing Kansas City National Security Campus, Botts Campus in Kansas City, Jackson County, Missouri. It is bordered by Botts Road on the west and Highway 150 on the south. The following geographic descriptions apply to the approximate location of the study area.

Geographic Coordinates:
366488E, 4302589Nw

Public Land Survey System:
T47N R33W S26

8-Digit Hydrologic Unit Code:
Lower Missouri-Crooked (10300101)

Ecological Drainage Unit:
Central Plains/Blackwater/Lamine

Geology and Geospatial Data

If a full Geologic Assessment is required for a project, the Missouri Geological Survey can be contacted directly at 800-361-4827. Most information related to general surface geology, geologic hazards, proximity to hazardous waste sites, and domestic or municipal drinking water sources can be obtained from databases which can be viewed using Geosciences Technical Resource Assessment Tool located at http://dnr.mo.gov/geostrat.

Other maps showing natural and cultural resources can be found at https://dnr.mo.gov/land-geology/maps-data-research.

Karst Topography
There are zero springs or sinkholes near the project area. The project area is located in the "Belton" quadrangle, which has a cave density of 1. Springs, sinkholes, and caves are features on the landscape associated with karst topography that can act as direct conduits of surface water and pollutants to groundwater. As such, extra precaution should be taken to minimize disturbance of land in or around these features, and to avoid the introduction of pollutants to sensitive groundwater resources. Karst areas may also present the possibility of potential collapse.

Wells
There are 63 abandoned, soil, and other public wells near the project area. Wells can act as conduits of pollutants to groundwater resources. Abandoned wells should be plugged prior to any land disturbance, and care should be taken to utilize appropriate best management practices to protect any currently operating wells. For more information on locating and plugging wells, or on private domestic wells, please visit the link below for the Department's Wellhead Protection Section webpage or contact the Department's Geological Survey Program directly.
https://dnr.mo.gov/water/business-industry-other-entities/permits-certification-engineering-fees/wells-drilling.

Public Land:
There are no public lands located near the project area. Both terrestrial and aquatic COAs are identified by the Missouri Department of Conservation (MDC) and its conservation partners as priority areas that support and conserve viable populations of wildlife and the ecological systems on which they depend. Designated COAs are located statewide and may consist of a combination of public and private resources. Please contact the MDC at 573-751-4115 for more information.

Water Protection
Best Management Practices
Best management practices should be utilized during project activities to limit the amount of sediment and other pollutants entering waters of the state, and to protect the water's chemical, physical, and biological characteristics. These practices include, but are not limited to, conducting work during low flow conditions whenever possible, keeping heavy equipment out of the water, and taking all necessary precautions to avoid the release of fuel or other waste products to streams and other waters. In addition, the Department encourages the preservation of existing riparian or buffer areas around each water resource to limit the amount of sediments or other pollutants entering the water. Any stream banks, riparian corridors, lake shores, or wetlands denuded of vegetation should be stabilized and re-vegetated as soon as is practicable.

Watershed Conditions
Public Drinking Water
The project area is in or around the Jackson Co. PWSD #1. There are no intakes, drinking water wells, or tanks near the project area. Proposed project personnel should be aware of nearby Public Drinking Water Districts. Work associated with any project should take into consideration the protection of surface and groundwater public drinking water supplies, implementing appropriate best management practices as necessary. For additional information regarding source

water protection, please contact Ken Tomlin of the Department's Public Drinking Water Branch at 573-526-0269.

Designated Uses

Water Bodies with Specific Designated Uses

The proposed project area is located in the watershed of the Blue River. Water bodies are assigned specific designated uses according to State of Missouri Water Quality regulations at 10 CSR 20-7.031(2). These waters are protected by numeric water quality criteria outlined in 10 CSR 20-7.031(5) and Table A, as well as general water quality criteria outlined at 10 CSR 20-7.031(4). Designated uses of the Blue River include the following:

- Protection and propagation of fish, shellfish and wildlife – warm water habitat (WWH)
- Human health protection (HHP)
- Irrigation (IRR)
- Livestock and wildlife protection (LWP)
- Secondary contact recreation (SCR)
- Whole body contact recreation – Category B (WBC-B)

Water Bodies without Specific Designated Uses

Water bodies that are not assigned specific designated uses are still protected by general water quality criteria outlined at 10 CSR 20-7.031(4), and are subject to the acute toxicity criteria of Tables A and B, as well as whole effluent toxicity conditions.

According to the National Wetlands Inventory https://www.fws.gov/wetlands/, there is the likelihood of freshwater wetlands and ponds within the riparian corridors of the Blue River. This project has the potential to impact wetlands, ponds, and the aforementioned tributaries and headwater streams to be impacted, depending on their proximity to land disturbance activities. Project sponsors should avoid such impacts through alternatives analysis before compensatory mitigation is considered. If wetlands, ponds, headwaters, or tributaries are not directly impacted but are near any land disturbance, project sponsors should take care to protect water quality. While these water bodies are not assigned specific designated uses, they are protected by Missouri's general water quality criteria.

Sensitive Waters

There are no known sensitive waters in the project area for the following categories. Cold Water Habitat, Outstanding National Resource Waters, Outstanding State Resource Waters, biocriteria reference locations, losing streams, and 303(d) Impaired and 305(b) Threatened Waters.

Table F, Metropolitan No-Discharge Streams:

The Little Blue River is a Metropolitan No-Discharge Watershed. Project personnel should maintain compliance with 10 CSR 20-7.031(7) for any land disturbance activities that are within a Metropolitan No-Discharge stream's watershed. Discharge to metropolitan no-discharge streams is prohibited, except as specifically permitted at 10 CSR 20-7.031(7). These exceptions include uncontaminated cooling water, permitted stormwater discharges in compliance with permit conditions, and excess wet-weather bypasses not interfering with designated uses.

Waters with Approved Total Maximum Daily Loads:
The Blue River has a TMDL for Chlordane. Impairments should not be made worse by this project's activities. The Department staff may require extra protections when developing permits or certifications in order to comply with total maximum daily load and wasteload allocations. Additional information can be found by contacting the Department's Water Protection Program at 573-526-1446 or by visiting the link below. https://dnr.mo.gov/water/what-were-doing/water-planning/quality-standards-impaired-waters-total-maximum-daily-loads/tmdls

Permitting Obligations
Clean Water Act Sections 401 and 404
A Clean Water Act Section 404 Permit Authorization from the U.S. Army Corps of Engineers (USACE), and Section 401 Water Quality Certification from the Department may be required for projects that have the potential to discharge fill or dredged material into a jurisdictional water of the United States. More information about these permits can be found at the following links.
https://www.epa.gov/cwa-404/section-404-permit-program
https://dnr.mo.gov/water/business-industry-other-entities/permits-certification-engineering-fees/section-401-water-quality

If discharge into water has occurred, or will occur, project personnel should immediately contact the appropriate USACE District (link below) and the Department's Operating Permits Section at 573-522-4502 for more information.
http://www.mvr.usace.army.mil/Portals/48/docs/regulatory/MORegBound.pdf

Mitigation
An alternatives analysis would need to be submitted prior to any impacts to jurisdictional waters as part of the avoidance and minimization measures that precede mitigating unavoidable impacts. Mitigation for wetlands should be in conformance with the *Missouri Wetland Mitigation Method*, http://www.nwk.usace.army.mil/Portals/29/docs/regulatory/mitigation/2017-11-17_MWMM.pdf while mitigation for streams should be in conformance with *Missouri Stream Mitigation Method*, http://www.mvm.usace.army.mil/Portals/51/docs/regulatory/May_2013_Missouri_Stream_Mitigation_Method.pdf.

Any mitigation plans must be in conformance with the *Compensatory Mitigation for Losses of Aquatic Resources,* https://www.epa.gov/cwa-404/compensatory-mitigation.

This rule establishes a hierarchy for mitigation, with the purchase of credits from a mitigation bank at the top of that hierarchy. The rule also emphasizes in-kind and in-watershed mitigation; to go outside the watershed may result in a higher credit purchase calculation. The applicant should receive mitigation plan approval from the Department prior to certification.

Land Disturbance
Acquisition of a Section 401 Certification should not be interpreted to mean that the requirements for other permits are replaced or superseded, including Clean Water Act Section 402 National Pollutant Discharge Elimination System Permits. Work disturbing an area of one acre or more requires issuance of a land disturbance permit prior to any earth work. Disturbance

to valuable resource waters, including springs, sinkholes and losing streams, could require additional conditions or a site-specific permit.

Information and application for online land disturbance permits are located at https://dnr.mo.gov/water/business-industry-other-entities/permits-certification-engineering-fees/stormwater/construction-land-disturbance.

Questions regarding permit requirements may be directed to the appropriate Department Regional Office https://dnr.mo.gov/about-us/division-environmental-quality/regional-office.

Demolition and Construction Waste Management

Additional information on managing construction and demolition waste can be found at the following link https://dnr.mo.gov/print/document-search/pub2045.

Hazardous Waste

The former Richards-Gebaur Air Force Base (RGAFB) is located adjacent to and south of the proposed NExT Project. There are several environmental sites at the former RGAFB and site FT002P, a former fire training area, is one of the closer sites. The Air Force performed a CERCLA Site Investigation on FT002P for Perfluorinated Compounds and published the final report in 2016. A remedial investigation is planned by the Air Force this fall and is scheduled to be finished in 2024. This remedial investigation will determine the nature and extent of contamination and provide a risk assessment. For more information regarding the former RGAFB, please contact Kay Grosinske, Base Realignment and Closure Program Manager of the Air Force Civil Engineer Center at 210-395-8272 or by email at kay.grosinske@us.af.mil.

Additional information on hazardous waste and petroleum tanks can be found at https://dnr.mo.gov/waste-recycling/long-term-stewardship-lts/environmental-site-tracking-research-tool-e-start.

During the project, if any underground tanks or contaminated soil is discovered, workers should withdraw to a safe distance and notify the Department's spill line at 573-634-2436.

It is the generator's responsibility to determine if materials generated during construction and demolition are hazardous wastes. Demolition-related waste categories typically include: paint residue (paint chips, paint scrapings, etc.); demolition debris (metal and boards that have been painted with lead-based or other heavy metal-based paint); and scrap metal (metal objects that contain lead or other heavy metals). A hazardous waste determination is not required for materials that will be reused or recycled without additional processing.

Asbestos

Prior to demolition activities, regulated structures must be thoroughly inspected by a Missouri-certified asbestos inspector to determine if any Asbestos Containing Materials are present and a notification made to the Department at least 10 working days prior to demolition. Regulated structures include any building which has been used as a commercial, institutional or industrial building (even if it was historic use), and projects involving two or more residential structures. In addition, this includes but is not limited to the following "non-building" structures: bridges,

pipelines, cooling towers, chimneys, dams, and tunnels. Any asbestos found must be properly managed to prevent release of asbestos fibers.

Solid Waste
Information about solid waste uncovered during construction activities can be found at the following link.
https://dnr.mo.gov/document-search/managing-solid-waste-encountered-during-excavation-activities-pub2192/pub2192.

No waste may be buried on-site or at an alternate site, except for clean fill. Clean fill is defined by the Revised Statutes of Missouri as "uncontaminated soil, rock, sand, gravel, concrete, asphaltic concrete, cinder blocks, brick, minimal amounts of wood and metal and inert (non-reactive) solids...for fill, reclamation or other beneficial use." Clean fill must not contain protruding metals or demolition debris. Although not regulated as waste, placement of clean fill materials may be subject to requirements of the Department's Water Protection Program if it is placed in contact with surface or subsurface waters of the state, or would otherwise violate water quality standards.

Air Pollution
Dust
Ensure fugitive particulate matter emissions, such as dust, resulting from the project do not remain on surfaces or in the air beyond the property line of origin. 10 CSR 10-6.170 restricts the emission of particulate matter to the ambient air beyond the premises of origin. Additional information on general dust emissions may be found here https://dnr.mo.gov/print/document-search/pub2200.

Open Burning
The open burning of refuse and trade waste is restricted according to 10 CSR 10-6.045. Construction, demolition, and trade waste cannot be open burned, except for untreated wood. Brush from land clearing activities may be burned if the burning is conducted outside the city limits and greater than 200 yards from the nearest occupied structure. Additional information on open burning can be found at https://dnr.mo.gov/print/document-search/pub2047.

Historic Preservation
Project personnel should check with the Department's State Historic Preservation Office to determine if a Section 106 Review is needed. Information on the Section 106 Review can be found on the Department's we site at https://mostateparks.com/page/84371/state-historic-preservation-office.

Additional Considerations
Floodplain
For information concerning flood plains in Missouri, contact the Missouri State Emergency Management Agency, Floodplain Management and Mitigation Branch, at 573-526-9100 or 2302 Militia Drive, Jefferson City, MO 65101.

Endangered Species
The MDC is responsible for collecting and managing information on the location and status of endangered species in the state. Contact MDC's Endangered Species Coordinator at 573-751-4115 or P.O. Box 180, Jefferson City, MO 65102 for general information.

We appreciate the opportunity to provide comments for the proposed project. If you have any questions or need clarification, please contact me at 573-522-6211.

Sincerely,



Hannah Humphrey
Deputy Director

HH/man

- Biological resources
- Socioeconomics (population, employment, growth, development, community services)
- Hazardous materials and waste disposal
- Transportation (roadways, traffic, access, etc.)
- Utilities
- Human health and safety
- Cumulative effects

The NNSA is requesting comments regarding the Proposed Action as it relates to your agency's regulatory jurisdiction or area of expertise. A study area map is attached to this letter indicating the location of the KC NExT project site adjacent to the existing KCNSC Botts Campus and Building 23.

The NNSA would appreciate receiving any comments or information in response to this request no later than 14 days from the date of this letter.

The EA is anticipated to be available for review in late summer 2023. The document will be made available electronically for review and comment.

Please send your comments via email to scannonmackey@burnsmcd.com or by mail to the following address:

Shari Cannon-Mackey, CEP, ENV SP
Burns & McDonnell
6200 Bridge Point Parkway, Suite 400
Austin, Texas 78730

If you have any questions about the project, please contact me at (816) 488-3417 or by email at schandler@kcnsc.doe.gov. Thank you for your time and assistance on the Project.

Sincerely,



Sybil Chandler, MS, CSP, CHMM
NEPA Compliance Officer
National Nuclear Security Administration
Kansas City Field Office

Enclosure: Study Area Map

CC: Matt McConville, Honeywell
Shari Cannon-Mackey, Burns & McDonnell

APPENDIX B – Wetland Delineation Report and Approved Jurisdictional Determinations

September 25, 2020

U.S. Army Corps of Engineers
Kansas City District: Regulatory Office
601 E. 12th Street, Room 402
Kansas City, MO 64106

Re: Request for Approved Jurisdictional Determination
Missouri 150 and Botts Road Project
Kansas City, Jackson County, Missouri

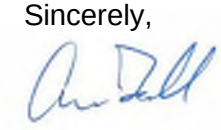
Dear Regulator:

Platform Ventures retained Olsson to conduct a wetland delineation and stream assessment for the Missouri 150 and Botts Road Project (Project). The proposed Project is located on the north side of Highway 150 and north and west of Colorado Avenue in Kansas City, Jackson County, Missouri. The project center is located at 38.862639 degrees latitude and -94.536703 degrees longitude. Olsson has completed the wetland delineation and stream assessment and is now requesting an Approved Jurisdictional Determination (AJD) for the Project area. A signed AJD request form is attached to this letter.

Olsson conducted a wetland delineation and stream assessment of the Project area in August 2020 and documented nine palustrine emergent wetlands, three intermittent streams, and 15 ephemeral streams. Olsson's report, with associated data forms, figures, and photos, is included as an attachment to this letter. One of the identified streams (Tributary 5), was documented flowing south to north in the Project area and was not depicted by any desktop resources (topographic map, NWI, or NHD). Photos of the stream are provided in the photolog appendix of the attached report. At the time of the field visit, Tributary 5 contained flowing water without recent rainfall. However, the channel was relatively narrow, lacked significant incision, and contained an ordinary high water mark width more consistent with an ephemeral stream. Olsson reviewed surrounding land uses near the Project and determined that flow supplied to Tributary 5 is likely provided by discharge from a detention pond located on the south side of Missouri 150; groundwater does not appear to be a contributor to flow in this stream. Based on the source of flow, Olsson determined that Tributary 5 is an ephemeral stream. However, because of the borderline nature of the stream, Olsson is requesting concurrence from the USACE.

Please contact me if you have any questions about this submittal. I can be reached at 913.748.2575, or by email at aball@olsson.com.

Sincerely,



Aaron Ball
Olsson Senior Scientist

Enclosure

7301 W. 133rd Street / Suite 200 / Overland Park, KS 66213
O 913.381.1170 / olsson.com

U.S. ARMY CORPS OF ENGINEERS

REQUEST FOR CORPS JURISDICTIONAL DETERMINATION

*__Authorities__: Rivers and Harbors Act, Section 10, 33 USC 403; Clean Water Act, Section 404, 33 USC 1344; Marine Protection, Research, and Sanctuaries Act, Section 103, 33 USC 1413; Regulatory Program of the U.S. Army Corps of Engineers; Final Rule for 33 CFR Parts 320-332. __Principal Purpose__: The information that you provide will be used in evaluating your request to determine whether there are any aquatic resources within the project area subject to federal jurisdiction under the regulatory authorities referenced above. __Routine Uses__: This information may be shared with the Department of Justice and other federal, state, and local government agencies, and the public, and may be made available as part of a public notice as required by federal law. Your name and property location where federal jurisdiction is to be determined will be included in the approved jurisdictional determination (AJD), which will be made available to the public on the District's website and on the Headquarters USACE website. __Disclosure__: Submission of requested information is voluntary; however, if information is not provided, the request for an AJD cannot be evaluated nor can an AJD be issued.

CORPS USE ONLY:
DATE RECEIVED:

PROJECT NO.:

1. PROPERTY LOCATION:

Street Address: Northwest of MO 150 and Colorado Ave

City/Township/Parish: Kansas City

County: Jackson State: MO

Acreage of Parcel/Review Area for JD: 146

Section: 26 Township: 47N Range: 33W

Latitude: 38.862639 Longitude: -94.536703

(For linear projects, please include the center point of the proposed alignment.)

2.REQUESTOR CONTACT INFORMATION:

Typed or Printed Name: Aaron Ball

Company Name: Olsson

Street Address: 7301 W. 133rd St., Suite 200

City: Overland Park State: KS ZIP: 66213

Phone Number: (913) 748-2575

E-mail: aball@olsson.com

3. MAP: Please attach a survey/plat map and vicinity map identifying location and review area for the JD.

4. REASON FOR REQUEST (check as many as applicable):

- ☐ I intend to construct/develop a project or perform activities on this parcel which would be designed to avoid all aquatic resources.
- ☐ I intend to construct/develop a project or perform activities on this parcel which would be designed to avoid all jurisdictional aquatic resources under Corps authority.
- ☒ I intend to construct/develop a project or perform activities on this parcel which may require authorization from the Corps, and the JD would be used to avoid and minimize impacts to jurisdictional aquatic resources and as an initial step in a future permitting process.
- ☐ I intend to construct/develop a project or perform activities on this parcel which may require authorization from the Corps; this request is accompanied by my permit application and the JD is to be used in the permitting process.
- ☐ I intend to construct/develop a project or perform activities in a navigable water of the U.S. which is included on the district Section 10 list and/or is subject to the ebb and flow of the tide.
- ☐ A Corps JD is required in order to obtain my local/state authorization.
- ☐ I intend to contest jurisdiction over a particular aquatic resource and request the Corps confirm that jurisdiction does/does not exist over the aquatic resource on the parcel.
- ☐ I believe that the site may be comprised entirely of dry land.
- ☐ Other:

5. TYPE OF DETERMINATION BEING REQUESTED:

- ☒ I am requesting an approved JD.
- ☐ I am requesting a preliminary JD.
- ☐ I am requesting a “no permit required” letter as I believe my proposed activity is not regulated.
- ☐ I am unclear as to which JD I would like to request and require additional information to inform my decision.

6. OWNERSHIP DETAILS:

- ☐ I currently own this property.
- ☐ I plan to purchase this property.
- ☒ I am an agent/consultant acting on behalf of the requestor.
- ☐ Other (please explain:)

By signing below, you are indicating that you have the authority, or are acting as the duly authorized agent of a person or entity with such authority, to and do hereby grant Corps personnel right of entry to legally access the site if needed to perform the JD. Your signature shall be an affirmation that you possess the requisite property rights to request a JD on the subject property.

Signature: Date: 9/25/2020

WETLAND DELINEATION AND STREAM ASSESSMENT REPORT

MISSOURI 150 AND BOTTS ROAD PROPERTY

Prepared for:
Platform Ventures LLC

September 25, 2020
Olsson Project No: 020-2417

olsson®

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1. INTRODUCTION

Platform Venture (PV) retained Olsson to conduct a wetland delineation and stream assessment of the proposed infrastructure (Project) north of Missouri Route 150 and west of U.S. Route 71 / Interstate 49 in Kansas City, Jackson County, Missouri (Appendix A, Figure 1). The center of the Project area is located at 38.862639 degrees north latitude and -94.536703 degrees longitude. The Project is located in Section 26, of Township 47 North, Range 33 West (Appendix A, Figure 2).

The Project area contains approximately 146 acres of land. The land types within the Project area include existing right-of-way (ROW), developed land, row crop agriculture, and natural areas. The existing ROW areas were dominated by native and nonnative grasses and forbs including Indian grass (*Sorghastrum nutans*), sideoats grama (*Bouteloua curtipendula*), switchgrass (*Panicum virgatum*), tall fescue (*Schedonorus arundinaceus*), smooth brome (*Bromus inermis*), sunflowers (*Helianthus* spp.), clover (*Trifolium* sp.), goldenrod (*Solidago* spp.), and foxtails (various species). Wooded areas were dominated by deciduous trees and shrubs including common hackberry (*Celtis occidentalis*), American elm (*Ulmus americana*), black walnut (*Juglans nigra*), silver maple (*Acer saccharinum*), bush honeysuckle (*Lonicera maackii*), and coralberry (*Symphoricarpos orbiculatus*).

2. METHODS

2.1. Desktop Wetland and Stream Review

Olsson conducted a desktop review using publicly available data sources to identify locations in the Project area that were likely to contain wetlands or require stream assessments. The desktop review was followed by an on-site investigation by Olsson biologists. Resources used during the desktop review included the following:

- U.S. Geological Survey (USGS): 1:24,000 Topographic Map, 1991 Belton Missouri Quadrangles
- U.S. Fish and Wildlife Service (USFWS): National Wetlands Inventory (NWI) Map
- Natural Resources Conservation Service (NRCS): Web Soil Survey, Jackson County Soils Survey Map
- Environmental Systems Research Institute (ESRI): Aerial Imagery
- Google Earth: Historical Aerial Photographs
- USGS: National Hydrography Dataset (NHD; USGS 2019)

The desktop review identified sites that warranted field surveys to document the presence or absence of wetlands and streams. Sample sites identified for review in the field are not

necessarily wetlands; however, they are areas where wetland or stream indicators may be present. The field coverage was not limited or restricted by the desktop review.

2.2. Wetland Delineation

The wetland delineation was conducted per methodology outlined by the *Corps of Engineers Wetland Delineation Manual* (USACE 1987) and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region, Version 2.0* (USACE 2010).

Wetland delineations were performed for all sites that were composed of hydric vegetation, hydric soils, and wetland hydrology. The boundaries of these three indicators were determined and sufficient data was collected to aid the U.S. Army Corps of Engineers (USACE) in making a preliminary jurisdictional determination. Data required for each collection point at a sample site included the following:

- Midwest Region Version 2.0 worksheet
- GPS points (in and out) and wetland boundary shapefile
- Primary and secondary indicators of hydrology
- Vegetation indicators based on the 2016 National Wetland Plant List (Lichvar et al. 2016)
- Soil description based on a soil sample

All wetland data points are denoted with a “w” in figures (Appendix A) and datasheets (Appendix B). The point where all three indicators exist is considered an *in point*. The wetland boundary exists where one or more of the three indicators is no longer present. A data collection point was collected outside the wetland boundary and identified as an *out point*, to document conditions outside the wetland. Geographic information system (GIS) data for a sample site included a polygon of the wetland boundary and GPS points for the in points and out points. Photographs were taken for each wetland to document conditions at the time of the survey and are included within each wetland datasheet.

2.3. Stream Assessment

Stream assessments were conducted to collect data to aid the USACE in making a preliminary jurisdictional determination of the stream reach. The assessments that were conducted were consistent with the Missouri Stream Mitigation Method (MSMM) for compensatory mitigation. Guidance for the stream assessments is contained in the *U.S. Army Corps of Engineers Jurisdictional Determination Form Instructional Guidebook* (USACE 2007) and the *State of Missouri Stream Mitigation Method* (USACE 2013).

Once a potential stream reach was located during the field survey, field teams collected assessment data using the stream assessment data form. All stream points are denoted with a

"t" in figures (Appendix A) and datasheets (Appendix C). These data forms assess the following aspects of the stream:

- Stream type: perennial, intermittent, or ephemeral
- Stream classification: traditional navigable water (TNW), relatively permanent waters (RPW), or non-relatively permanent waters (Non-RPW)
- Ordinary high-water mark (OHWM) characteristics
- Stream bottom composition
- Description of stream bank
- Natural, artificial, or manipulated stream characteristics
- Stream condition and stability
- Water characteristics: clear, discolored, flowing, or standing
- Riparian buffer vegetation and characteristics

Photos and GPS points were taken to document stream conditions at the time of the survey.

3. SUMMARY OF FINDINGS

Ms. Caroline Skidmore and Mr. Mark Sowers assisted Mr. Jack Finley of Olsson when he collected data from August 25 through 28 and September 2, 2020. Mr. Sowers and Mr. Finley have received formal training in wetland delineation. Weather data for the Project area was summarized from the National Oceanic and Atmospheric Administration (NOAA) Record of Climatological Observations at the Overland Park, Kansas (Station number US1KSJO0053). No precipitation fell within the 10 days preceding the August visits. Within the three days preceding September 1, 2.33 inches of precipitation were recorded.

3.1. Desktop Wetland and Stream Review

U.S. Geological Survey Topographic Map

The USGS topographic map (Appendix A, Figure 2), indicates that relief within the Project area is variable and hilly. Elevations range from approximately 1,040 feet at mean sea level (AMSL) at the southcentral property border to approximately 940 feet AMSL in the thalweg of an intermittent drainage that flows from west to east in the northern half of the Project area. The topographic map also depicts numerous smaller drainages that generally flow from the north and from the south into this intermittent drainage. No ponds or wetlands are depicted in the topographic map.

Environmental Systems Research Institute (ESRI) Aerial Map

The aerial map (Appendix A, Figure 3) indicates that the Project area is a mixture of row crop agriculture, scattered woodlands, and riparian corridors. The areas surrounding the Project area are composed of commercial facilities to the west, south, and east; single-family residences to the north; and apartment complexes on the eastern side. The streams depicted in the topographic map correspond to wooded corridors in the aerial map.

National Wetlands Inventory and National Hydrography Dataset Map

The NHD (USGS 2019) within the Project area (Appendix A, Figure 4) indicates the presence of several unnamed intermittent stream segments (5,091 linear feet; [LF]). No perennial or ephemeral stream segments were specified by the NHD and no wetlands were indicated by the NWI (2019) within the Project area.

Jackson County Soil Survey

Soil units with a soil matrix composed of greater than 60 percent of hydric inclusions are considered predominantly hydric. The existence of predominantly hydric soils indicates the potential for an area that can support wetlands. According to the soil survey for Jackson County (Appendix A, Figure 5), no soils exceeded 60 percent hydric inclusions. Soils mapped within the project area are as follow:

- 10000 Arisburg silt loam; 1 to 5 percent slopes; 3 percent hydric inclusions
- 30080 Greenton silty clay loam; 5 to 9 percent slopes; 10 percent hydric inclusions
- 36083 Kennebec silt loam; 1 to 4 percent slopes; occasionally flooded; 3 percent hydric inclusions

According to the Jackson County soils list, the Project area is composed of predominately non-hydric soils.

3.2. Wetland Delineation Results

The wetland delineation identified nine palustrine emergent (PEM) wetlands totaling 0.79 acre within the Project area (Appendix A, Figure 6). Based on the new Navigable Waters Protection Rule (NWPR) published in the Federal Register on June 22, 2020, none of these wetlands are considered jurisdictional features because they are adjacent to or abut ephemeral streams. Streams documented within the Project area are discussed in detail in Section 3.3, below. Table 1, below, summarizes the wetland features documented in the Project area. Detailed descriptions of each feature follow Table 1, and wetland data forms are provided in Appendix B.

Table 1. Wetland Delineation Summary.

Wetland ID	Data Point	Classification[1]	Jurisdictional[2]	Size (acres)
Wetland 1	w1	PEM	No	0.05
Wetland 2	w2	PEM	No	0.02
Wetland 3	w3	PEM	No	0.07
Wetland 4	w4	PEM	No	0.31
Wetland 5	w5	PEM	No	0.15
Wetland 6	w6	PEM	No	0.11
Wetland 7	w7	PEM	No	0.02
Wetland 8	w8	PEM	No	0.03
Wetland 9	w9	PEM	No	0.03
			TOTAL ACRES	**0.79**
			JURISDICTIONAL ACRES	**0.00**

[1]PEM = Palustrine emergent wetland
[2]Jurisdiction determined based on the June 22, 2020, Navigable Water Protection Rule (NWPR)

Of the nine delineated PEM wetlands, four wetlands (Wetlands 4-7) were documented in low-lying areas of an agricultural field that was unplanted at the time of the wetland delineation. These low-lying areas were likely created as the result of runoff from the surrounding areas. Wetlands 4-7 were dominated by sedges (*Carex* spp.), broadleaf cattail (*Typha latifolia*), and rough barnyard grass (*Echinochloa muricata*). All four wetlands contained hydric soil indicators and wetland hydrology indicators.

One delineated wetland (Wetland 8) was documented in a transitional area between an agricultural field (unplanted at the time of the delineation) and an adjacent wooded corridor. Wetland 8 was dominated by broadleaf cattail and contained wetland soil and hydrology indicators.

Remaining delineated wetlands (Wetlands 1, 2, 3, and 9) were all documented in non-agricultural portions of the Project area. In general, these wetlands were dominated by bearded beggarticks (*Bidens aristosa*), dotted smartweed (*Persicaria punctatum*), and sedges (*Carex* spp.). The wetlands contained wetland soil and hydrology indicators.

3.3. Stream Assessment Results

The stream assessment identified a total of 18 stream reaches totaling 12,237 LF within the Project area (Appendix A, Figure 6). Fifteen ephemeral streams totaling 5,069 LF and three intermittent streams totaling 7,168 LF were documented. No perennial streams were present. Under the new NWPR, only intermittent and perennial streams are considered jurisdictional features.

Of the 18 delineated streams, only the three intermittent streams (Tributary 1, 8, and 9) were indicated by desktop resources. All 15 ephemeral streams ultimately flow into Tributary 1 before exiting the Project area on the eastern side. Tributary 1 is an unnamed intermittent stream that flows into the Little Blue River and ultimately into the Missouri River; the Missouri River is designated as a TNW. Stream assessment data forms are provided in Appendix C, and Table 2 below details each stream reach. Supplemental stream photos are provided in the Photolog in Appendix E.

Table 2. Stream Assessment Summary.

Feature ID	Data Points	Stream Type	Stream Length within Project Area (linear feet)	Jurisdictional*
Tributary 1	t1	Intermittent	5,238	Yes
Tributary 2	t2	Ephemeral	188	No
Tributary 3	t3	Ephemeral	106	No
Tributary 4	t4	Ephemeral	298	No
Tributary 5	t5	Ephemeral	1,405	No
Tributary 6	t6	Ephemeral	120	No
Tributary 7	t7	Ephemeral	185	No
Tributary 8	t8	Intermittent	715	Yes
Tributary 9	t9	Intermittent	1,215	Yes
Tributary 10	t10	Ephemeral	86	No
Tributary 11	t11	Ephemeral	107	No
Tributary 12	t12	Ephemeral	220	No
Tributary 13	t13	Ephemeral	54	No
Tributary 14	t14	Ephemeral	910	No
Tributary 15	t15	Ephemeral	238	No
Tributary16	t16	Ephemeral	69	No
Tributary 17	t17	Ephemeral	590	No
Tributary 18	t18	Ephemeral	493	No
		TOTAL LENGTH	**12,237**	
		JURISDICTIONAL LENGTH	**7,168**	

* Jurisdiction determined based on the June 22, 2020, Navigable Water Protection Rule (NWPR)

3.4. Upland Areas

Two non-wetland points were taken during the field delineation to document upland conditions within the Project area (Appendix A, Figure 6). One non-wetland point (Non-Wetland 1) was taken in an upland wooded corridor and a second non-wetland point (Non-Wetland 2) was taken in an upland agricultural field. Non-Wetland 1 was dominated by American elm, honey locust, and bush honeysuckle. Non-Wetland 2 was dominated by giant ragweed (*Ambrosia trifida*),

rough barnyard grass, and Johnson grass (*Sorghum halepense*). Conditions documented at these two non-wetland points are representative of upland areas found throughout the Project area. Non-wetland data forms are provided in Appendix D.

4. CONCLUSIONS

The wetland delineation and stream assessment evaluated the 146-acre Project area that included row crop agriculture, riparian corridors, and scattered wood lots. The field study identified nine palustrine emergent wetlands, 15 ephemeral streams, and three intermittent streams within the Project Area. The nine emergent wetlands and 15 ephemeral streams are likely non-jurisdictional features based on the Navigable Water Protection Rule. **The three intermittent streams (totaling 7,168 LF) are considered jurisdictional under the new Navigable Water Protection Rule because of their downstream connection to the Missouri River.** Impacts to any of these jurisdictional features will require coordination with the USACE under Section 404 of the Clean Water Act.

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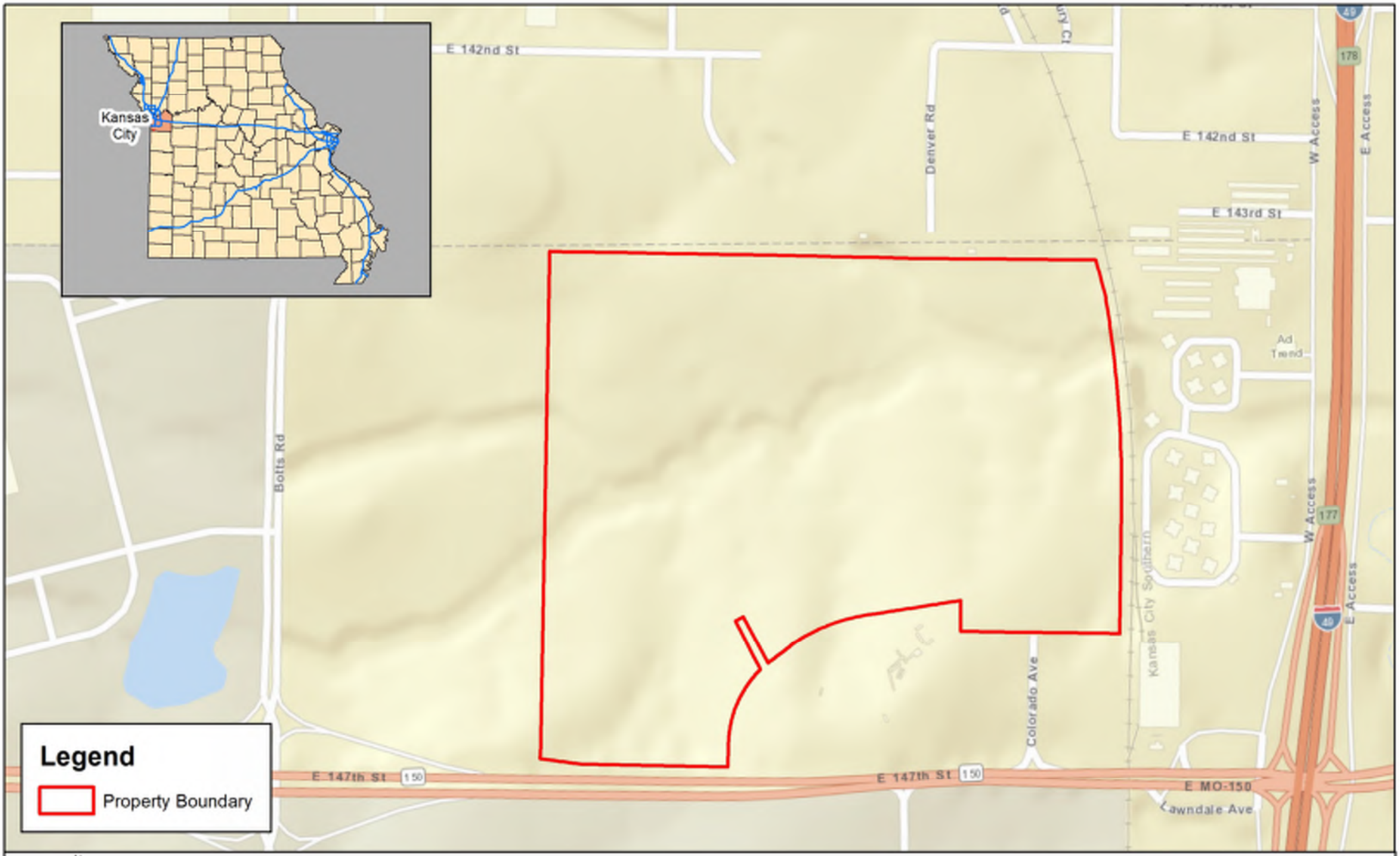
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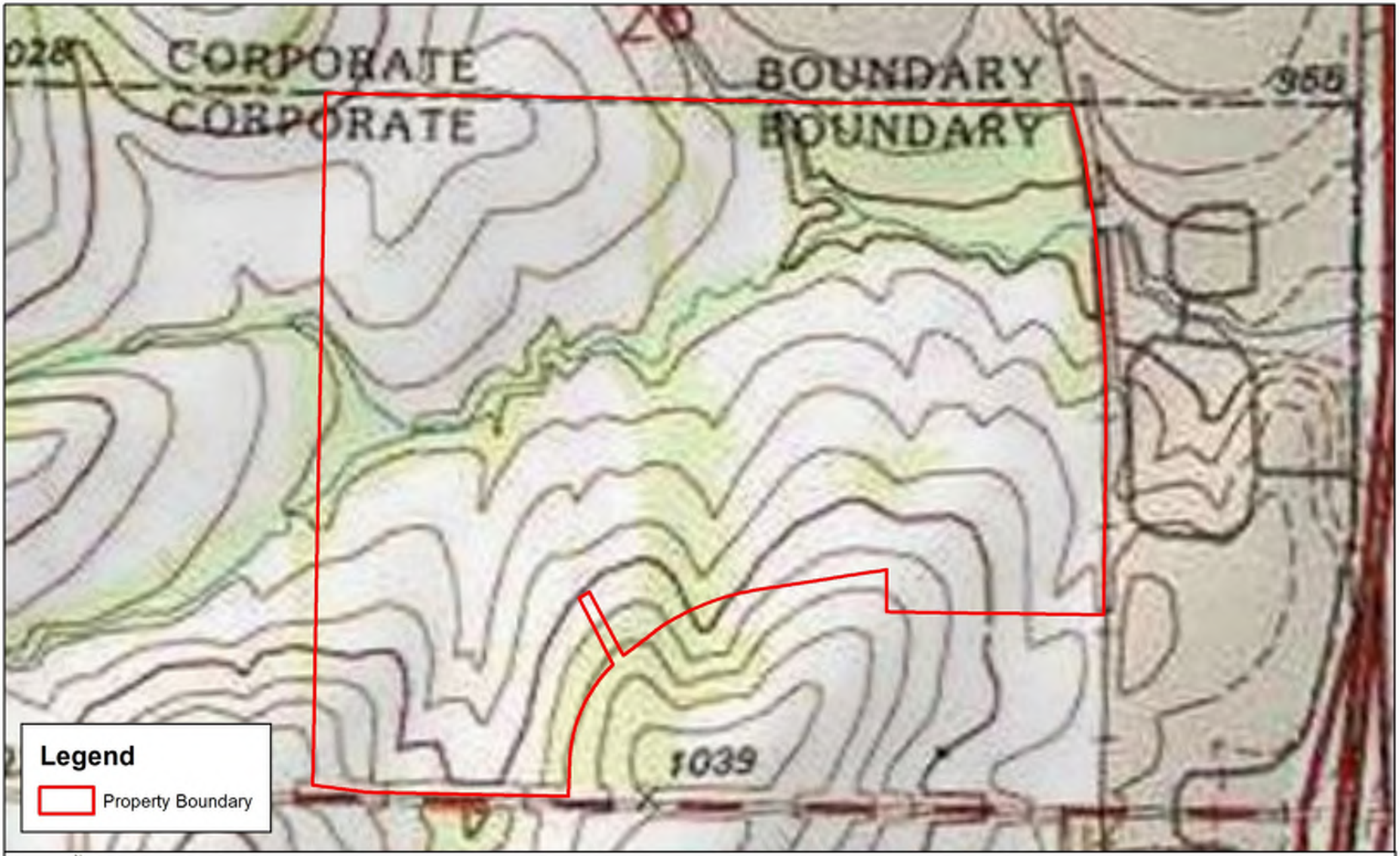
APPENDIX A

Figures



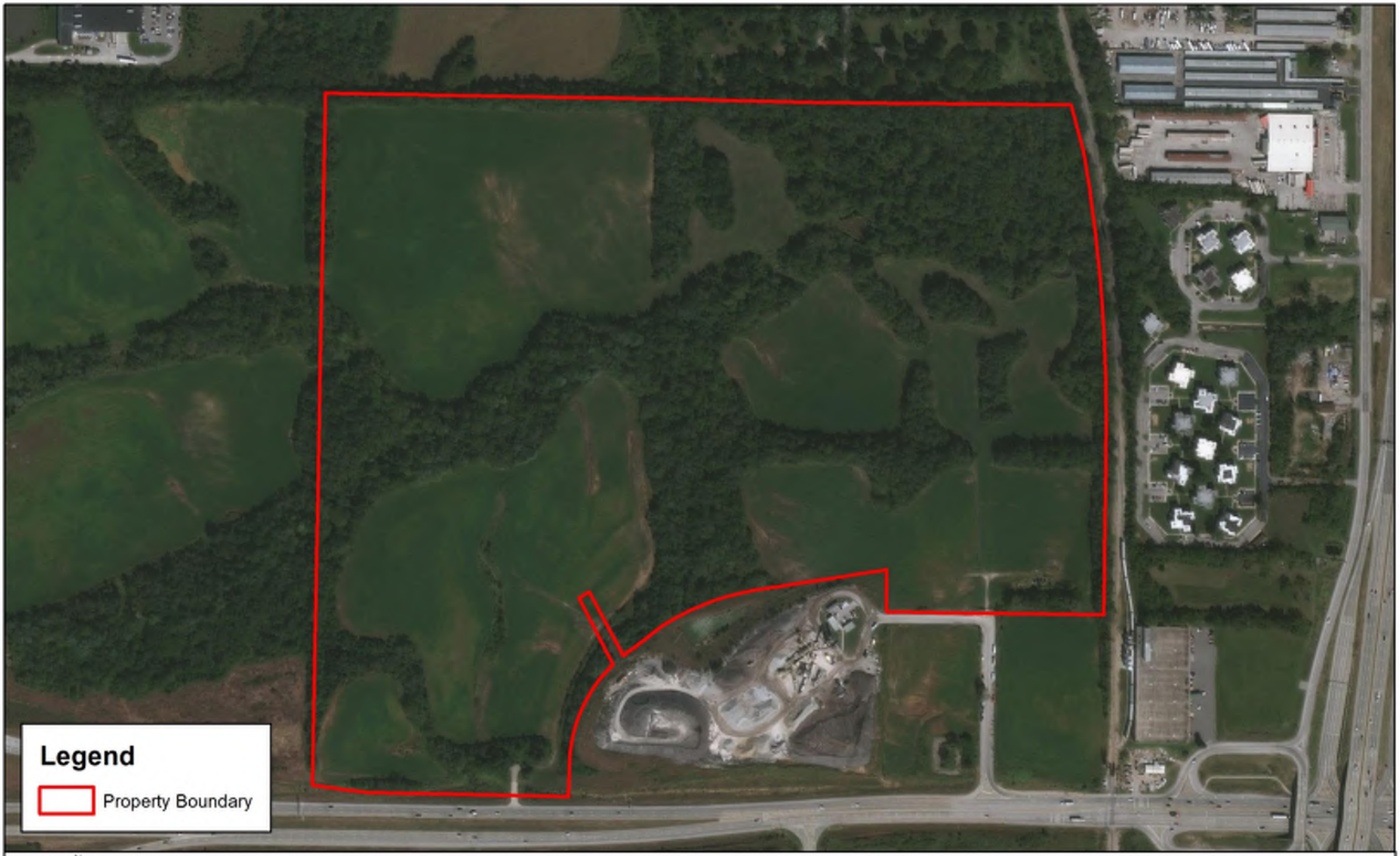
Project Number: 020-2417 *Drawn By: MS* *Revision Date: 9/22/2020*	**Location Map** Platform Ventures 150 Hwy and Botts Rd Jackson County, Missouri	DISCLAIMER - This Geographic Information System (GIS) and its components are designed as a source of reference for answering inquiries, for planning and for modeling. GIS is not intended, nor does it replace legal description information in the chain of title and other information contained in official government records such as the County Clerk and Recorders office or the courts. In addition, the representations of locations in this GIS cannot be substituted for actual legal surveys.	olsson 7301 West 133rd Street Suite 200 Overland Park, Kansas 66213 P: 913.381.1170 F: 913.381.1174	Figure 1

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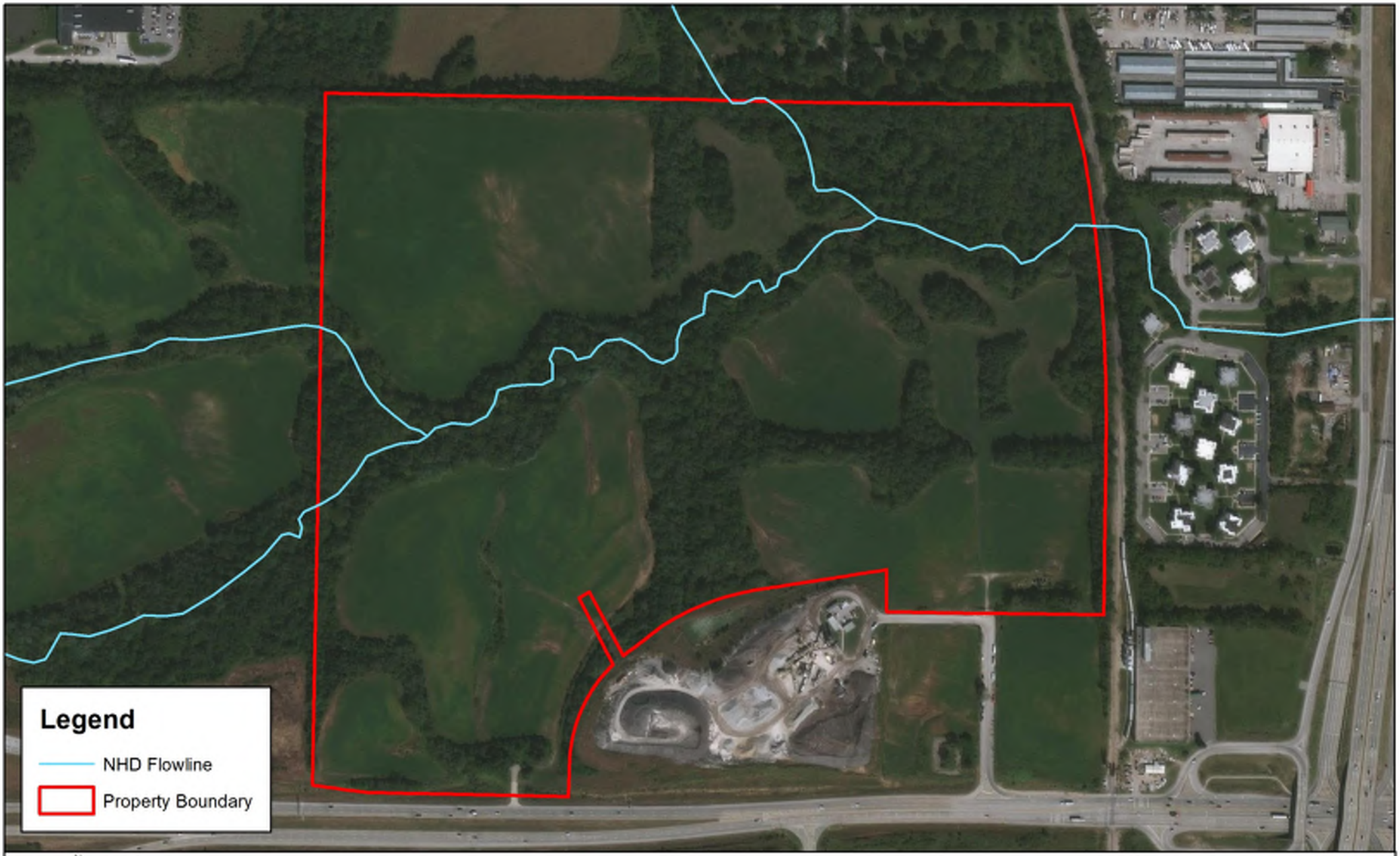
Project Number: 020-2417 *Drawn By: MS* *Revision Date: 9/22/2020*	**Topographic Map** Platform Ventures 150 Hwy and Botts Rd Jackson County, Missouri	DISCLAIMER : This Geographic Information System (GIS) and its components are designed as a source of reference for answering inquiries, for planning and for modeling. GIS is not intended, nor does it replace legal description information in the chain of title and other information contained in official government records such as the County Clerk and Recorders office or the courts. In addition, the representations of locations in this GIS cannot be substituted for actual legal surveys.	olsson 7301 West 133rd Street Suite 200 Overland Park, Kansas 66213 P: 913.381.1170 F: 913.381.1174	Figure **2**

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Project Number: 020-2417 *Drawn By: MS* *Revision Date: 9/22/2020*	**Aerial Map** Platform Ventures 150 Hwy and Botts Rd Jackson County, Missouri	DISCLAIMER : This Geographic Information System (GIS) and its components are designed as a source of reference for answering inquiries, for planning and for modeling. GIS is not intended, nor does it replace legal description information in the chain of title and other information contained in official government records such as the County Clerk and Recorders office or the courts. In addition, the representations of locations in this GIS cannot be substituted for actual legal surveys.	olsson 7301 West 133rd Street Suite 200 Overland Park, Kansas 66213 P: 913.381.1170 F: 913.381.1174	Figure 3

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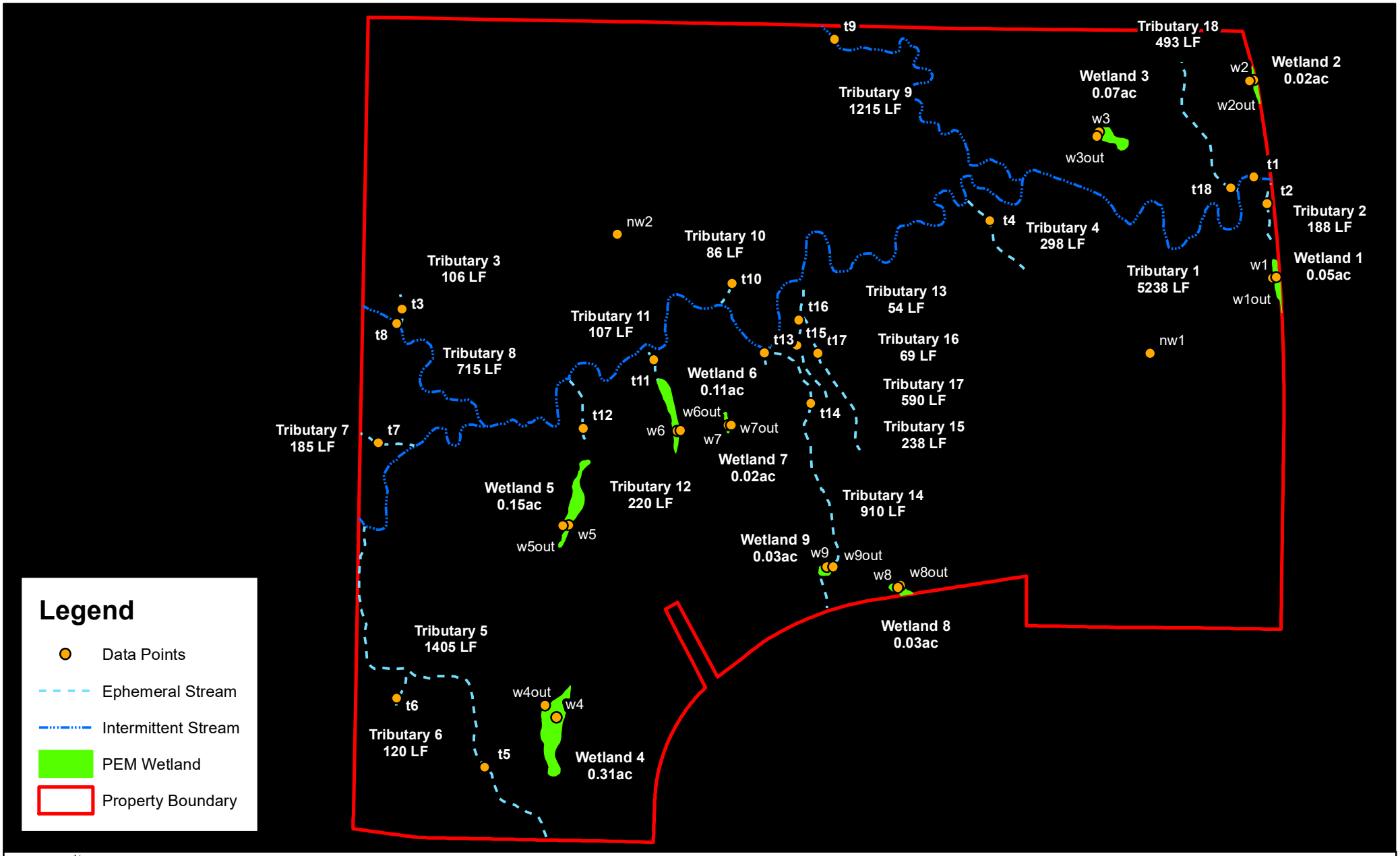
Project Number: 020-2417 *Drawn By: MS* *Revision Date: 9/23/2020*	**NHD and NWI Map** Platform Ventures 150 Hwy and Botts Rd Jackson County, Missouri	DISCLAIMER : This Geographic Information System (GIS) and its components are designed as a source of reference for answering inquiries, for planning and for modeling. GIS is not intended, nor does it replace legal description information in the chain of title and other information contained in official government records such as the County Clerk and Recorders office or the courts. In addition, the representations or locations in this GIS cannot be substituted for actual legal surveys.	olsson 7301 West 133rd Street Suite 200 Overland Park, Kansas 66213 P: 913.381.1170 F: 913.381.1174	Figure 4

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Project Number: 020-2417 *Drawn By: MS* *Revision Date: 9/22/2020*	**Soils Map** Platform Ventures 150 Hwy and Botts Rd Jackson County, Missouri	DISCLAIMER : This Geographic Information System (GIS) and its components are designed as a source of reference for answering inquiries, for planning and for modeling. GIS is not intended, nor does it replace legal description information in the chain of title and other information contained in official government records such as the County Clerk and Recorders office or the courts. In addition, the representations of locations in this GIS cannot be substituted for actual legal surveys.	olsson 7301 West 133rd Street Suite 200 Overland Park, Kansas 66213 P: 913.381.1170 F: 913.381.1174	Figure **5**

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Project Number: 020-2417 *Drawn By: MS* *Revision Date: 9/25/2020*	**Delineated Aquatic Features Map** Platform Ventures 150 Hwy and Botts Rd Jackson County, Missouri	DISCLAIMER : This Geographic Information System (GIS) and its components are designed as a source of reference for answering inquiries, for planning and for modeling. GIS is not intended, nor does it replace legal description information in the chain of title and other information contained in official government records such as the County Clerk and Recorders office or the courts. In addition, the representations of locations in this GIS cannot be substituted for actual legal surveys.	7301 West 133rd Street Suite 200 Overland Park, Kansas 66213 P: 913.381.1170 F: 913.381.1174	Figure **6**

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APPENDIX B

Wetland Data Forms: Midwest Region

Wetland Determination Data Form - Midwest Region

Project/Site: Highway 150/Colorado Ave. City/County: Grandview (Jackson) Sampling Date: 8/25/2020

Applicant/Owner: Platform Ventures State: MO Sampling Point: W1

Investigator(s): Jack Finley Section, Township, Range: S26 T47N R33W

Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave

Slope (%): 0-2% Lat: 38.863243 Long: -94.53108 Datum: UTM83

Soil Map Unit Name: Snead-Rock outcrop complex, 14 to 30 percent slopes NWI classification: PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No ____	**Is the Sampled Area within a Wetland?**	**Yes X** **No ____**
Hydric Soil Present?	Yes X	No ____		
Wetland Hydrology Present?	Yes X	No ____		

Remarks:

VEGETATION - Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status
Tree Stratum (Plot size: 30 ft)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Sapling/Shrub Stratum Plot size: 15 ft)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Herb Stratum (Plot size: 5 ft)			
1. Persicaria punctata	20		OBL
2. Bidens aristosa	70	X	FACW
3. Schedonorus arundinaceus	10		FACU
4. Elymus virginicus	10		FACW
5.			
6.			
7.			
8.			
9.			
10.			
	110 = Total Cover		
Woody Vine Stratum (Plot size: 30 ft)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	20	x 1 =	20
FACW species	80	x 2 =	160
FAC species	0	x 3 =	0
FACU species	10	x 4 =	40
UPL species	0	x 5 =	0
Column Totals:	110 (A)		220 (B)

Prevalence Index = B/A = 2.00

Hydrophytic Vegetation Indicators:

- ____ 1 - Rapid Test for Hydrophytic Vegetation
- X 2 - Dominance Test is >50%
- X 3 - Prevalence Index is ≤3.0[1]
- ____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes X** **No ____**

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: W1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks
0-4	10yr3-2	95	2.5yr2.5-4	5	C	M	Silty Clay	
4-8	10yr3-1	90	2.5yr2.5-4	10	C	M	Silty Clay	
8-15	10yr3-1	75	2.5yr2.5-4	15	C	M	Silty Clay	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- __ Histosol (A1)
- __ Histic Epipedon (A2)
- __ Black Histic (A3)
- __ Hydrogen Sulfide (A4)
- __ Stratified Layers (A5)
- __ 2 cm Muck (A10)
- __ Depleted Below Dark Surface (A11)
- __ Thick Dark Surface (A12)
- __ Sandy Mucky Mineral (S1)
- __ 5 cm Mucky Peat or Peat (S3)
- __ Sandy Gleyed Matrix (S4)
- __ Sandy Redox (S5)
- __ Stripped Matrix (S6)
- __ Loamy Mucky Mineral (F1)
- __ Loamy Gleyed Matrix (F2)
- __ Depleted Matrix (F3)
- X Redox Dark Surface (F6)
- __ Depleted Dark Surface (F7)
- __ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- __ Coast Prairie Redox (A16)
- __ Dark Surface (S7)
- __ Iron-Manganese Masses (F12)
- __ Very Shallow Dark Surface (TF12)
- __ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type:

Depth (inches):

Hydric Soil Present? Yes X No ____

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- __ Surface Water (A1)
- __ High Water Table (A2)
- __ Saturation (A3)
- __ Water Marks (B1)
- __ Sediment Deposits (B2)
- __ Drift Deposits (B3)
- __ Algal Mat or Crust (B4)
- __ Iron Deposits (B5)
- __ Inundation Visible on Aerial Imagery (B7)
- __ Sparsely Vegetated Concave Surface (B8)
- __ Water-Stained Leaves (B9)
- __ Aquatic Fauna (B13)
- __ True Aquatic Plants (B14)
- __ Hydrogen Sulfide Odor (C1)
- __ Oxidized Rhizospheres on Living Roots (C3)
- __ Presence of Reduced Iron (C4)
- __ Recent Iron Reduction in Tilled Soils (C6)
- __ Thin Muck Surface (C7)
- __ Gauge or Well Data (D9)
- __ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- __ Surface Soil Cracks (B6)
- X Drainage Patterns (B10)
- __ Dry-Season Water Table (C2)
- __ Crayfish Burrows (C8)
- __ Saturation Visible on Aerial Imagery (C9)
- __ Stunted or Stressed Plants (D1)
- __ Geomorphic Position (D2)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches) ____		
Water Table Present?	Yes ____	No X	Depth (inches) ____		
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches) ____	**Wetland Hydrology Present?**	Yes X No ____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Wetland Wetland 1 **Sample Point** W1

Longitude	Latitude
-94.53108	38.863243

Cowardin Classification: _____

Size: _____

Landform: Depression

Tree Stratum: _____

Sapling/Shrub: _____

Herb Stratum: Persicaria punctata Bidens aristosa Schedonorus arundinaceus

Vine Stratum: _____

Hydric Soil Indicators: Redox Dark Surface (F6)

Hydrology Indicators: Geomorphic Position (D2)

Significant Nexus: No Adjacent: _____ Abuts: _____ Stream Name: _____

Jurisdictional Status and Comments:

Photo 1 South

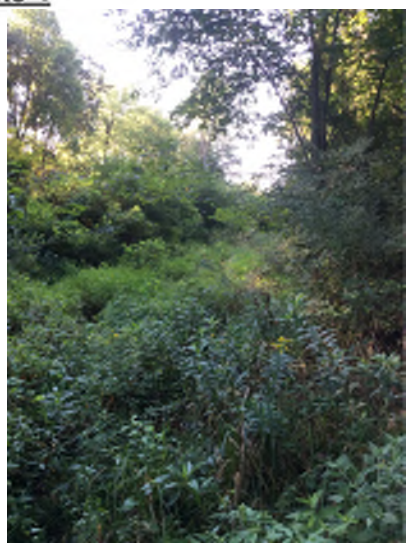


Photo 2 West



Photo 3 North



Photo 4



Wetland Determination Data Form - Midwest Region

Project/Site: Highway 150/Colorado Ave. City/County: Grandview (Jackson) Sampling Date: 8/25/2020

Applicant/Owner: Platform Ventures State: Sampling Point: W1out

Investigator(s): Jack Finley Section, Township, Range: S26 T47N R33W

Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): None

Slope (%): 0-2% Lat: 38.863320 Long: -94.531192 Datum: UTM83

Soil Map Unit Name: Snead-Rock outcrop complex, 14 to 30 percent slopes NWI classification: UPL

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No X	**Is the Sampled Area within a Wetland?**	**Yes** ____ **No** X
Hydric Soil Present?	Yes ____	No X		
Wetland Hydrology Present?	Yes ____	No X		

Remarks:

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status
1. Juglans nigra	50	X	FACU
2. Ulmus americana	10		FACW
3. Gleditsia triacanthos	40	X	FACU
4.			
5.			
	100	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15 ft)			
1. Celtis occidentalis	70	X	FAC
2.			
3.			
4.			
5.			
	70	= Total Cover	

Herb Stratum (Plot size: 5 ft)			
1. Ageratina altissima	40	X	FACU
2. Elymus canadensis	30	X	FACU
3. Symphoricarpos occidentalis	20	X	UPL
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	90	= Total Cover	

Woody Vine Stratum (Plot size: 30 ft)			
1. Parthenocissus quinquefolia	10	X	FACU
2.			
	10	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 7 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 14% (A/B)

Prevalence Index worksheet:

	Total % Cover of:		Multiply by:
OBL species	0	x 1 =	0
FACW species	10	x 2 =	20
FAC species	70	x 3 =	210
FACU species	170	x 4 =	680
UPL species	20	x 5 =	100
Column Totals:	270 (A)		1010 (B)

Prevalence Index = B/A = 3.74

Hydrophytic Vegetation Indicators:

__ 1 - Rapid Test for Hydrophytic Vegetation

__ 2 - Dominance Test is >50%

__ 3 - Prevalence Index is ≤3.0[1]

__ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

__ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes** ____ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: W1out

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Redox Features Type[1]	Redox Features Loc[2]	Texture	Remarks
0-16	10yr2-1	100					Loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- __ Histosol (A1)
- __ Histic Epipedon (A2)
- __ Black Histic (A3)
- __ Hydrogen Sulfide (A4)
- __ Stratified Layers (A5)
- __ 2 cm Muck (A10)
- __ Depleted Below Dark Surface (A11)
- __ Thick Dark Surface (A12)
- __ Sandy Mucky Mineral (S1)
- __ 5 cm Mucky Peat or Peat (S3)
- __ Sandy Gleyed Matrix (S4)
- __ Sandy Redox (S5)
- __ Stripped Matrix (S6)
- __ Loamy Mucky Mineral (F1)
- __ Loamy Gleyed Matrix (F2)
- __ Depleted Matrix (F3)
- __ Redox Dark Surface (F6)
- __ Depleted Dark Surface (F7)
- __ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- __ Coast Prairie Redox (A16)
- __ Dark Surface (S7)
- __ Iron-Manganese Masses (F12)
- __ Very Shallow Dark Surface (TF12)
- __ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ____ No X

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- __ Surface Water (A1)
- __ High Water Table (A2)
- __ Saturation (A3)
- __ Water Marks (B1)
- __ Sediment Deposits (B2)
- __ Drift Deposits (B3)
- __ Algal Mat or Crust (B4)
- __ Iron Deposits (B5)
- __ Inundation Visible on Aerial Imagery (B7)
- __ Sparsely Vegetated Concave Surface (B8)
- __ Water-Stained Leaves (B9)
- __ Aquatic Fauna (B13)
- __ True Aquatic Plants (B14)
- __ Hydrogen Sulfide Odor (C1)
- __ Oxidized Rhizospheres on Living Roots (C3)
- __ Presence of Reduced Iron (C4)
- __ Recent Iron Reduction in Tilled Soils (C6)
- __ Thin Muck Surface (C7)
- __ Gauge or Well Data (D9)
- __ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- __ Surface Soil Cracks (B6)
- __ Drainage Patterns (B10)
- __ Dry-Season Water Table (C2)
- __ Crayfish Burrows (C8)
- __ Saturation Visible on Aerial Imagery (C9)
- __ Stunted or Stressed Plants (D1)
- __ Geomorphic Position (D2)
- __ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No ____	Depth (inches) ____		
Water Table Present?	Yes ____	No ____	Depth (inches) ____		
Saturation Present? (includes capillary fringe)	Yes ____	No ____	Depth (inches) ____	**Wetland Hydrology Present?**	Yes ____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Wetland _____ **Sample Point** W1out

Longitude	Latitude
-94.531192	38.863320

Cowardin Classification: _____

Size: _____

Landform: Hillslope

Tree Stratum: Juglans nigra Ulmus americana Gleditsia triacanthos

Sapling/Shrub: Celtis occidentalis

Herb Stratum: Ageratina altissima Elymus canadensis Symphoricarpos occidentalis

Vine Stratum: Parthenocissus quinquefolia

Hydric Soil Indicators: _____

Hydrology Indicators: _____

Significant Nexus: No Adjacent: _____ Abuts: _____ Stream Name: _____

Jurisdictional Status and Comments:

Photo 1 North



Photo 2 West



Photo 3 South



Photo 4 East



Wetland Determination Data Form - Midwest Region

Project/Site: Highway 150/Colorado Ave. City/County: Grandview (Jackson) Sampling Date: 8/25/2020

Applicant/Owner: Platform Ventures State: MO Sampling Point: W2

Investigator(s): Jack Finley Section, Township, Range: S26 T47N R33W

Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave

Slope (%): 2-5% Lat: 38.864864 Long: -94.531193 Datum: UTM83

Soil Map Unit Name: Sampsel silty clay loam, 2 to 5 percent slopes NWI classification: PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No ____	**Is the Sampled Area within a Wetland?**	**Yes X** **No ____**
Hydric Soil Present?	Yes X	No ____		
Wetland Hydrology Present?	Yes X	No ____		

Remarks:

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15 ft)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Herb Stratum (Plot size: 5 ft)			
1. Bidens aristosa	70	X	FACW
2. Persicaria punctata	10		OBL
3. Solidago gigantea	10		FACW
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	90 = Total Cover		
Woody Vine Stratum (Plot size: 30 ft)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)

Prevalence Index worksheet:

	Total % Cover of:		Multiply by:
OBL species	10	x 1 =	10
FACW species	80	x 2 =	160
FAC species	0	x 3 =	0
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals:	90 (A)		170 (B)

Prevalence Index = B/A = 1.89

Hydrophytic Vegetation Indicators:

- ____ 1 - Rapid Test for Hydrophytic Vegetation
- X 2 - Dominance Test is >50%
- X 3 - Prevalence Index is ≤3.0[1]
- ____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes X** **No ____**

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: W2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks
0-4	10yr 3/1	100					Clay	
4-8	10yr 4/1	85	10yr 4/6	15			Clay	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- __ Histosol (A1)
- __ Histic Epipedon (A2)
- __ Black Histic (A3)
- __ Hydrogen Sulfide (A4)
- __ Stratified Layers (A5)
- __ 2 cm Muck (A10)
- __ Depleted Below Dark Surface (A11)
- __ Thick Dark Surface (A12)
- __ Sandy Mucky Mineral (S1)
- __ 5 cm Mucky Peat or Peat (S3)
- __ Sandy Gleyed Matrix (S4)
- __ Sandy Redox (S5)
- __ Stripped Matrix (S6)
- __ Loamy Mucky Mineral (F1)
- __ Loamy Gleyed Matrix (F2)
- __ Depleted Matrix (F3)
- X Redox Dark Surface (F6)
- __ Depleted Dark Surface (F7)
- __ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- __ Coast Prairie Redox (A16)
- __ Dark Surface (S7)
- __ Iron-Manganese Masses (F12)
- __ Very Shallow Dark Surface (TF12)
- __ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type:

Depth (inches):

Hydric Soil Present? Yes X No __

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- __ Surface Water (A1)
- __ High Water Table (A2)
- __ Saturation (A3)
- __ Water Marks (B1)
- __ Sediment Deposits (B2)
- __ Drift Deposits (B3)
- __ Algal Mat or Crust (B4)
- __ Iron Deposits (B5)
- __ Inundation Visible on Aerial Imagery (B7)
- __ Sparsely Vegetated Concave Surface (B8)
- __ Water-Stained Leaves (B9)
- __ Aquatic Fauna (B13)
- __ True Aquatic Plants (B14)
- __ Hydrogen Sulfide Odor (C1)
- __ Oxidized Rhizospheres on Living Roots (C3)
- __ Presence of Reduced Iron (C4)
- __ Recent Iron Reduction in Tilled Soils (C6)
- __ Thin Muck Surface (C7)
- __ Gauge or Well Data (D9)
- __ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- __ Surface Soil Cracks (B6)
- X Drainage Patterns (B10)
- __ Dry-Season Water Table (C2)
- __ Crayfish Burrows (C8)
- __ Saturation Visible on Aerial Imagery (C9)
- __ Stunted or Stressed Plants (D1)
- __ Geomorphic Position (D2)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes __	No X	Depth (inches) __		
Water Table Present?	Yes __	No X	Depth (inches) __		
Saturation Present? (includes capillary fringe)	Yes __	No X	Depth (inches) __		

Wetland Hydrology Present? Yes X No __

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Wetland Wetland 2 **Sample Point** W2

Longitude	Latitude
-94.531193	38.864864

Cowardin Classification: PEM

Size:

Landform: Depression

Tree Stratum:

Sapling/Shrub:

Herb Stratum: Bidens aristosa Persicaria punctata Solidago gigantea

Vine Stratum:

Hydric Soil Indicators: Redox Dark Surface (F6)

Hydrology Indicators: Drainage Patterns (B10)

Significant Nexus: No Adjacent: Abuts: Stream Name:

Jurisdictional Status and Comments:

Photo 1 North



Photo 2 South



Photo 3 East



Photo 4 West



Wetland Determination Data Form - Midwest Region

Project/Site: Highway 150/Colorado Ave. City/County: Grandview (Jackson) Sampling Date: 08/25/2020

Applicant/Owner: Platform Ventures State: MO Sampling Point: W2out

Investigator(s): Jack Finley Section, Township, Range: S26 T47N R33W

Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex

Slope (%): 2-5% Lat: 38.864865 Long: -94.531284 Datum: UTM83

Soil Map Unit Name: Sampsel silty clay loam, 2 to 5 percent slopes NWI classification: UPL

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No X	**Is the Sampled Area within a Wetland?**	**Yes** ____	**No** X
Hydric Soil Present?	Yes ____	No X			
Wetland Hydrology Present?	Yes ____	No X			

Remarks:

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status
1. Gleditsia triacanthos	30	X	FACU
2. Juglans nigra	60	X	FACU
3. Celtis occidentalis	10		FAC
4.			
5.			
	100	= Total Cover	
Sapling/Shrub Stratum (Plot size: 15 ft)			
1. Cornus drummondii	70	X	FAC
2. Lonicera maackii	10		NI
3.			
4.			
5.			
	80	= Total Cover	
Herb Stratum (Plot size: 5 ft)			
1. Symphoricarpos orbiculatus	40	X	FACU
2. Elymus canadensis	10	X	FACU
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	50	= Total Cover	
Woody Vine Stratum (Plot size: 30 ft)			
1.			
2.			
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 20% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	80	x 3 =	240
FACU species	140	x 4 =	560
UPL species	0	x 5 =	0
Column Totals:	220 (A)		800 (B)

Prevalence Index = B/A = 3.64

Hydrophytic Vegetation Indicators:

- ____ 1 - Rapid Test for Hydrophytic Vegetation
- ____ 2 - Dominance Test is >50%
- ____ 3 - Prevalence Index is ≤3.0[1]
- ____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes** ____ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: W2out

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks
0-16	10yr2-1						Silt	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- __ Histosol (A1)
- __ Histic Epipedon (A2)
- __ Black Histic (A3)
- __ Hydrogen Sulfide (A4)
- __ Stratified Layers (A5)
- __ 2 cm Muck (A10)
- __ Depleted Below Dark Surface (A11)
- __ Thick Dark Surface (A12)
- __ Sandy Mucky Mineral (S1)
- __ 5 cm Mucky Peat or Peat (S3)
- __ Sandy Gleyed Matrix (S4)
- __ Sandy Redox (S5)
- __ Stripped Matrix (S6)
- __ Loamy Mucky Mineral (F1)
- __ Loamy Gleyed Matrix (F2)
- __ Depleted Matrix (F3)
- __ Redox Dark Surface (F6)
- __ Depleted Dark Surface (F7)
- __ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- __ Coast Prairie Redox (A16)
- __ Dark Surface (S7)
- __ Iron-Manganese Masses (F12)
- __ Very Shallow Dark Surface (TF12)
- __ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ____ No X

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- __ Surface Water (A1)
- __ High Water Table (A2)
- __ Saturation (A3)
- __ Water Marks (B1)
- __ Sediment Deposits (B2)
- __ Drift Deposits (B3)
- __ Algal Mat or Crust (B4)
- __ Iron Deposits (B5)
- __ Inundation Visible on Aerial Imagery (B7)
- __ Sparsely Vegetated Concave Surface (B8)
- __ Water-Stained Leaves (B9)
- __ Aquatic Fauna (B13)
- __ True Aquatic Plants (B14)
- __ Hydrogen Sulfide Odor (C1)
- __ Oxidized Rhizospheres on Living Roots (C3)
- __ Presence of Reduced Iron (C4)
- __ Recent Iron Reduction in Tilled Soils (C6)
- __ Thin Muck Surface (C7)
- __ Gauge or Well Data (D9)
- __ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- __ Surface Soil Cracks (B6)
- __ Drainage Patterns (B10)
- __ Dry-Season Water Table (C2)
- __ Crayfish Burrows (C8)
- __ Saturation Visible on Aerial Imagery (C9)
- __ Stunted or Stressed Plants (D1)
- __ Geomorphic Position (D2)
- __ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches) ____	
Water Table Present?	Yes ____	No X	Depth (inches) ____	
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches) ____	

Wetland Hydrology Present? Yes ____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Wetland _____ **Sample Point** W2out

Longitude	Latitude
-94.531284	38.864865

Cowardin Classification: _____

Size: _____

Landform: Hillslope

Tree Stratum: Gleditsia triacanthos Juglans nigra Celtis occidentalis

Sapling/Shrub: Cornus drummondii Lonicera maackii

Herb Stratum: Symphoricarpos orbiculatus Elymus canadensis

Vine Stratum: _____

Hydric Soil Indicators: _____

Hydrology Indicators: _____

Significant Nexus: _____ Adjacent: _____ Abuts: _____ Stream Name: _____

Jurisdictional Status and Comments:

Photo 1 South



Photo 2 West



Photo 3 East



Photo 4 North



Wetland Determination Data Form - Midwest Region

Project/Site: Highway 150/Colorado Ave. City/County: Grandview (Jackson) Sampling Date: 8/25/2020

Applicant/Owner: Platform Ventures State: MO Sampling Point: W3

Investigator(s): Jack Finley Section, Township, Range: S26 T47N R33W

Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave

Slope (%): _____ Lat: 38.864610 Long: -94.532944 Datum: UTM83

Soil Map Unit Name: Kennebec silt loam, 1 to 4 percent slopes, occasionally flooded NWI classification: PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No _____		
Hydric Soil Present?	Yes X	No _____	**Is the Sampled Area within a Wetland?**	**Yes X No _____**
Wetland Hydrology Present?	Yes X	No _____		

Remarks:

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15 ft)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Herb Stratum (Plot size: 5 ft)			
1. Persicaria punctata	20	X	OBL
2. Carex sp.	70	X	FAC
3. Rubus sp.	10		FAC
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	100 = Total Cover		
Woody Vine Stratum (Plot size: 30 ft)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)

Prevalence Index worksheet:

	Total % Cover of:		Multiply by:	
OBL species	20	x 1 =	20	
FACW species	0	x 2 =	0	
FAC species	80	x 3 =	240	
FACU species	0	x 4 =	0	
UPL species	0	x 5 =	0	
Column Totals:	100	(A)	260	(B)

Prevalence Index = B/A = 2.60

Hydrophytic Vegetation Indicators:

- ___ 1 - Rapid Test for Hydrophytic Vegetation
- X 2 - Dominance Test is >50%
- X 3 - Prevalence Index is ≤3.0[1]
- ___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No _____

Remarks: (Include photo numbers here or on a separate sheet.)

Sedge and blackberry could not be identified to species. Given their position in a wetland with an obligate plant, it is likely that their wetland indicator is FAC or wetter.

SOIL

Sampling Point: W3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks
1-16	10yr 2/1	95	2.5yr 3/4	5	C	M	Silt	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- __ Histosol (A1)
- __ Histic Epipedon (A2)
- __ Black Histic (A3)
- __ Hydrogen Sulfide (A4)
- __ Stratified Layers (A5)
- __ 2 cm Muck (A10)
- __ Depleted Below Dark Surface (A11)
- __ Thick Dark Surface (A12)
- __ Sandy Mucky Mineral (S1)
- __ 5 cm Mucky Peat or Peat (S3)
- __ Sandy Gleyed Matrix (S4)
- __ Sandy Redox (S5)
- __ Stripped Matrix (S6)
- __ Loamy Mucky Mineral (F1)
- __ Loamy Gleyed Matrix (F2)
- __ Depleted Matrix (F3)
- X Redox Dark Surface (F6)
- __ Depleted Dark Surface (F7)
- __ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- __ Coast Prairie Redox (A16)
- __ Dark Surface (S7)
- __ Iron-Manganese Masses (F12)
- __ Very Shallow Dark Surface (TF12)
- __ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes X No ____

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- __ Surface Water (A1)
- __ High Water Table (A2)
- __ Saturation (A3)
- __ Water Marks (B1)
- __ Sediment Deposits (B2)
- __ Drift Deposits (B3)
- __ Algal Mat or Crust (B4)
- __ Iron Deposits (B5)
- __ Inundation Visible on Aerial Imagery (B7)
- __ Sparsely Vegetated Concave Surface (B8)
- __ Water-Stained Leaves (B9)
- __ Aquatic Fauna (B13)
- __ True Aquatic Plants (B14)
- __ Hydrogen Sulfide Odor (C1)
- __ Oxidized Rhizospheres on Living Roots (C3)
- __ Presence of Reduced Iron (C4)
- __ Recent Iron Reduction in Tilled Soils (C6)
- __ Thin Muck Surface (C7)
- __ Gauge or Well Data (D9)
- __ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- __ Surface Soil Cracks (B6)
- __ Drainage Patterns (B10)
- __ Dry-Season Water Table (C2)
- __ Crayfish Burrows (C8)
- __ Saturation Visible on Aerial Imagery (C9)
- __ Stunted or Stressed Plants (D1)
- X Geomorphic Position (D2)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches) ____		
Water Table Present?	Yes ____	No X	Depth (inches) ____		
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches) ____	**Wetland Hydrology Present?**	Yes X No ____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Wetland Wetland 3 **Sample Point** W3

Longitude	Latitude
-94.532944	38.864610

Cowardin Classification: PEM

Size:

Landform: Depression

Tree Stratum:

Sapling/Shrub:

Herb Stratum: Persicaria punctata Carex sp. Rubus sp.

Vine Stratum:

Hydric Soil Indicators: Redox Dark Surface (F6)

Hydrology Indicators: FAC-Neutral Test (D5)

Significant Nexus: No Adjacent: Abuts: Stream Name:

Jurisdictional Status and Comments:
W3 is not adjacent to a jurisdictional stream.

Photo 1 East



Photo 2 South



Photo 3 West



Photo 4 North



Wetland Determination Data Form - Midwest Region

Project/Site: Highway 150/Colorado Ave. City/County: Grandview (Jackson) Sampling Date: 8/25/2020

Applicant/Owner: Platform Ventures State: MO Sampling Point: W3out

Investigator(s): Jack Finley Section, Township, Range: S26 T47N R33W

Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex

Slope (%): 2-5% Lat: 38.864576 Long: -94.533059 Datum: UTM83

Soil Map Unit Name: Kennebec silt loam, 1 to 4 percent slopes, occasionally flooded NWI classification: UPL

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No X	**Is the Sampled Area within a Wetland?**	**Yes** ____	**No** X
Hydric Soil Present?	Yes ____	No X			
Wetland Hydrology Present?	Yes ____	No X			

Remarks:

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status
1. Juglans nigra	90	X	FACU
2.			
3.			
4.			
5.			
	90 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15 ft)			
1. Cornus drummondii	50	X	FAC
2. Lonicera mackii	10		
3.			
4.			
5.			
	60 = Total Cover		
Herb Stratum (Plot size: 5 ft)			
1. Symphoricarpos orbiculatus	20	X	FACU
2. Rosa sp.	20	X	
3. Ageratina altissima	40	X	FACU
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	80 = Total Cover		
Woody Vine Stratum (Plot size: 30 ft)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 20% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	50	x 3 =	150
FACU species	150	x 4 =	600
UPL species	0	x 5 =	0
Column Totals:	200 (A)		750 (B)

Prevalence Index = B/A = 3.75

Hydrophytic Vegetation Indicators:

- ____ 1 - Rapid Test for Hydrophytic Vegetation
- ____ 2 - Dominance Test is >50%
- ____ 3 - Prevalence Index is ≤3.0[1]
- ____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes** ____ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: W3out

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Redox Features Type[1]	Redox Features Loc[2]	Texture	Remarks
0-16	10yr 2/1	100					Loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- __ Histosol (A1)
- __ Histic Epipedon (A2)
- __ Black Histic (A3)
- __ Hydrogen Sulfide (A4)
- __ Stratified Layers (A5)
- __ 2 cm Muck (A10)
- __ Depleted Below Dark Surface (A11)
- __ Thick Dark Surface (A12)
- __ Sandy Mucky Mineral (S1)
- __ 5 cm Mucky Peat or Peat (S3)
- __ Sandy Gleyed Matrix (S4)
- __ Sandy Redox (S5)
- __ Stripped Matrix (S6)
- __ Loamy Mucky Mineral (F1)
- __ Loamy Gleyed Matrix (F2)
- __ Depleted Matrix (F3)
- __ Redox Dark Surface (F6)
- __ Depleted Dark Surface (F7)
- __ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- __ Coast Prairie Redox (A16)
- __ Dark Surface (S7)
- __ Iron-Manganese Masses (F12)
- __ Very Shallow Dark Surface (TF12)
- __ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ____ No X

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- __ Surface Water (A1)
- __ High Water Table (A2)
- __ Saturation (A3)
- __ Water Marks (B1)
- __ Sediment Deposits (B2)
- __ Drift Deposits (B3)
- __ Algal Mat or Crust (B4)
- __ Iron Deposits (B5)
- __ Inundation Visible on Aerial Imagery (B7)
- __ Sparsely Vegetated Concave Surface (B8)
- __ Water-Stained Leaves (B9)
- __ Aquatic Fauna (B13)
- __ True Aquatic Plants (B14)
- __ Hydrogen Sulfide Odor (C1)
- __ Oxidized Rhizospheres on Living Roots (C3)
- __ Presence of Reduced Iron (C4)
- __ Recent Iron Reduction in Tilled Soils (C6)
- __ Thin Muck Surface (C7)
- __ Gauge or Well Data (D9)
- __ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- __ Surface Soil Cracks (B6)
- __ Drainage Patterns (B10)
- __ Dry-Season Water Table (C2)
- __ Crayfish Burrows (C8)
- __ Saturation Visible on Aerial Imagery (C9)
- __ Stunted or Stressed Plants (D1)
- __ Geomorphic Position (D2)
- __ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ____ No ____ Depth (inches) ____

Water Table Present? Yes ____ No ____ Depth (inches) ____

Saturation Present? (includes capillary fringe) Yes ____ No ____ Depth (inches) ____

Wetland Hydrology Present? Yes ____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Wetland _____ **Sample Point** W3out

Longitude	Latitude
-94.533059	38.864576

Cowardin Classification: UPL

Size: _____

Landform: Hillslope

Tree Stratum: Juglans nigra

Sapling/Shrub: Cornus drummondii Lonicera mackii

Herb Stratum: Symphoricarpos orbiculatus Rosa sp. Ageratina altissima

Vine Stratum: _____

Hydric Soil Indicators: _____

Hydrology Indicators: _____

Significant Nexus: No Adjacent: _____ Abuts: _____ Stream Name: _____

Jurisdictional Status and Comments:

Photo 1

Photo 2

Photo 3

Photo 4

Wetland Determination Data Form - Midwest Region

Project/Site: Highway 150/Colorado Ave. City/County: Grandview (Jackson) Sampling Date: 8/27/2020

Applicant/Owner: Platform Ventures State: MO Sampling Point: W4

Investigator(s): Jack Finley Section, Township, Range: S26 T47N R33W

Landform (hillslope, terrace, etc.): Drainageway Local relief (concave, convex, none): Concave

Slope (%): _____ Lat: 38.859663 Long: -94.539440 Datum: UTM83

Soil Map Unit Name: Sampsel silty clay loam, 5 to 9 percent slopes NWI classification: PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No _____		
Hydric Soil Present?	Yes X	No _____	**Is the Sampled Area within a Wetland?**	**Yes X No _____**
Wetland Hydrology Present?	Yes X	No _____		

Remarks:

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15 ft)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Herb Stratum (Plot size: 5 ft)			
1. Echinochloa muricata	50	X	OBL
2. Stachys tenuifolia	40	X	OBL
3. Cyperus sp.	10		FAC
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	100 = Total Cover		
Woody Vine Stratum (Plot size: 30 ft)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)

Prevalence Index worksheet:

	Total % Cover of:		Multiply by:
OBL species	90	x 1 =	90
FACW species	0	x 2 =	0
FAC species	10	x 3 =	30
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals:	100 (A)		120 (B)

Prevalence Index = B/A = 1.20

Hydrophytic Vegetation Indicators:

- ___ 1 - Rapid Test for Hydrophytic Vegetation
- X 2 - Dominance Test is >50%
- X 3 - Prevalence Index is ≤3.0[1]
- ___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No _____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: W4

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks
0-16	2.5y 2.5/1	95	5yr 3/4	5	C	M	Clay	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- __ Histosol (A1)
- __ Histic Epipedon (A2)
- __ Black Histic (A3)
- __ Hydrogen Sulfide (A4)
- __ Stratified Layers (A5)
- __ 2 cm Muck (A10)
- __ Depleted Below Dark Surface (A11)
- __ Thick Dark Surface (A12)
- __ Sandy Mucky Mineral (S1)
- __ 5 cm Mucky Peat or Peat (S3)
- __ Sandy Gleyed Matrix (S4)
- __ Sandy Redox (S5)
- __ Stripped Matrix (S6)
- __ Loamy Mucky Mineral (F1)
- __ Loamy Gleyed Matrix (F2)
- __ Depleted Matrix (F3)
- X Redox Dark Surface (F6)
- __ Depleted Dark Surface (F7)
- __ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- __ Coast Prairie Redox (A16)
- __ Dark Surface (S7)
- __ Iron-Manganese Masses (F12)
- __ Very Shallow Dark Surface (TF12)
- __ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes X No _____

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- __ Surface Water (A1)
- __ High Water Table (A2)
- __ Saturation (A3)
- __ Water Marks (B1)
- __ Sediment Deposits (B2)
- __ Drift Deposits (B3)
- __ Algal Mat or Crust (B4)
- __ Iron Deposits (B5)
- __ Inundation Visible on Aerial Imagery (B7)
- __ Sparsely Vegetated Concave Surface (B8)
- __ Water-Stained Leaves (B9)
- __ Aquatic Fauna (B13)
- __ True Aquatic Plants (B14)
- __ Hydrogen Sulfide Odor (C1)
- __ Oxidized Rhizospheres on Living Roots (C3)
- __ Presence of Reduced Iron (C4)
- __ Recent Iron Reduction in Tilled Soils (C6)
- __ Thin Muck Surface (C7)
- __ Gauge or Well Data (D9)
- __ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- __ Surface Soil Cracks (B6)
- __ Drainage Patterns (B10)
- __ Dry-Season Water Table (C2)
- __ Crayfish Burrows (C8)
- __ Saturation Visible on Aerial Imagery (C9)
- __ Stunted or Stressed Plants (D1)
- X Geomorphic Position (D2)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes _____	No X	Depth (inches) _____		
Water Table Present?	Yes _____	No X	Depth (inches) _____		
Saturation Present? (includes capillary fringe)	Yes _____	No X	Depth (inches) _____	**Wetland Hydrology Present?**	Yes X No _____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Wetland Wetland 4 **Sample Point** W4

Longitude	Latitude
-94.539440	38.859663

Cowardin Classification: PEM

Size:

Landform: Drainageway

Tree Stratum:

Sapling/Shrub:

Herb Stratum: Echinochloa muricata Stachys tenuifolia Cyperus sp.

Vine Stratum:

Hydric Soil Indicators: Redox Dark Surface (F6)

Hydrology Indicators: FAC-Neutral Test (D5)

Significant Nexus: No Adjacent: Abuts: Stream Name:

Jurisdictional Status and Comments:

Photo 1 North



Photo 2 East



Photo 3 West



Photo 4 South



Wetland Determination Data Form - Midwest Region

Project/Site: Highway 150/Colorado Ave. City/County: Grandview (Jackson) Sampling Date: 8/27/2020

Applicant/Owner: Platform Ventures State: MO Sampling Point: W4out

Investigator(s): Jack Finley Section, Township, Range: S26 T47N R33W

Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex

Slope (%): 2-5% Lat: 38.859908 Long: -94.539358 Datum: UTM83

Soil Map Unit Name: Sampsel silty clay loam, 5 to 9 percent slopes NWI classification: UPL

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No X	**Is the Sampled Area within a Wetland?**	**Yes** ____ **No** X
Hydric Soil Present?	Yes ____	No X		
Wetland Hydrology Present?	Yes ____	No X		

Remarks:

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15 ft)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Herb Stratum (Plot size: 5 ft)			
1. Bromus inermis	100	X	FACU
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	100 = Total Cover		
Woody Vine Stratum (Plot size: 30 ft)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 000% (A/B)

Prevalence Index worksheet:

	Total % Cover of:		Multiply by:
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	0	x 3 =	0
FACU species	100	x 4 =	400
UPL species	0	x 5 =	0
Column Totals:	100 (A)		400 (B)

Prevalence Index = B/A = 4.00

Hydrophytic Vegetation Indicators:

__ 1 - Rapid Test for Hydrophytic Vegetation

__ 2 - Dominance Test is >50%

__ 3 - Prevalence Index is ≤3.0[1]

__ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

__ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes** ____ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: W4out

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Redox Features Type[1]	Redox Features Loc[2]	Texture	Remarks
0-16	10yr2-2	100						

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- __ Histosol (A1)
- __ Histic Epipedon (A2)
- __ Black Histic (A3)
- __ Hydrogen Sulfide (A4)
- __ Stratified Layers (A5)
- __ 2 cm Muck (A10)
- __ Depleted Below Dark Surface (A11)
- __ Thick Dark Surface (A12)
- __ Sandy Mucky Mineral (S1)
- __ 5 cm Mucky Peat or Peat (S3)
- __ Sandy Gleyed Matrix (S4)
- __ Sandy Redox (S5)
- __ Stripped Matrix (S6)
- __ Loamy Mucky Mineral (F1)
- __ Loamy Gleyed Matrix (F2)
- __ Depleted Matrix (F3)
- __ Redox Dark Surface (F6)
- __ Depleted Dark Surface (F7)
- __ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- __ Coast Prairie Redox (A16)
- __ Dark Surface (S7)
- __ Iron-Manganese Masses (F12)
- __ Very Shallow Dark Surface (TF12)
- __ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ____ No X

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- __ Surface Water (A1)
- __ High Water Table (A2)
- __ Saturation (A3)
- __ Water Marks (B1)
- __ Sediment Deposits (B2)
- __ Drift Deposits (B3)
- __ Algal Mat or Crust (B4)
- __ Iron Deposits (B5)
- __ Inundation Visible on Aerial Imagery (B7)
- __ Sparsely Vegetated Concave Surface (B8)
- __ Water-Stained Leaves (B9)
- __ Aquatic Fauna (B13)
- __ True Aquatic Plants (B14)
- __ Hydrogen Sulfide Odor (C1)
- __ Oxidized Rhizospheres on Living Roots (C3)
- __ Presence of Reduced Iron (C4)
- __ Recent Iron Reduction in Tilled Soils (C6)
- __ Thin Muck Surface (C7)
- __ Gauge or Well Data (D9)
- __ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- __ Surface Soil Cracks (B6)
- X Drainage Patterns (B10)
- __ Dry-Season Water Table (C2)
- __ Crayfish Burrows (C8)
- __ Saturation Visible on Aerial Imagery (C9)
- __ Stunted or Stressed Plants (D1)
- __ Geomorphic Position (D2)
- __ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches) ____		
Water Table Present?	Yes ____	No X	Depth (inches) ____		
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches) ____	**Wetland Hydrology Present?**	Yes ____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Wetland _____ **Sample Point** W4out

Longitude	Latitude
-94.539358	38.859908

Cowardin Classification: _____

Size: _____

Landform: Hillslope

Tree Stratum: _____

Sapling/Shrub: _____

Herb Stratum: Bromus inermis

Vine Stratum: _____

Hydric Soil Indicators: _____

Hydrology Indicators: _____

Significant Nexus: No Adjacent: _____ Abuts: _____ Stream Name: _____

Jurisdictional Status and Comments:

Photo 1 North



Photo 2 East

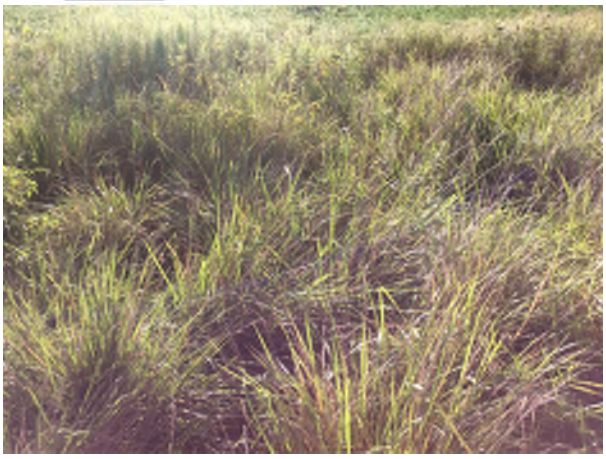


Photo 3 South



Photo 4 West



Wetland Determination Data Form - Midwest Region

Project/Site: Highway 150/Colorado Ave. City/County: Grandview (Jackson) Sampling Date: 8/27/2020

Applicant/Owner: Platform Ventures State: MO Sampling Point: W5

Investigator(s): Jack Finley Section, Township, Range: S26 T47N R33W

Landform (hillslope, terrace, etc.): Drainageway Local relief (concave, convex, none): Concave

Slope (%): 2-5% Lat: 38.861360 Long: -94.539188 Datum: UTM83

Soil Map Unit Name: Sampsel silty clay loam, 5 to 9 percent slopes NWI classification: PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No ____	
Hydric Soil Present?	Yes X	No ____	**Is the Sampled Area within a Wetland?** Yes X No ____
Wetland Hydrology Present?	Yes X	No ____	

Remarks:

VEGETATION - Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status
Tree Stratum (Plot size: 30 ft)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15 ft)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Herb Stratum (Plot size: 5 ft)			
1. Typha latifolia	60	X	OBL
2. Carex vulpinoidea	50	X	FACW
3. Persicaria punctata	10		OBL
4. Solidago gigantea	10		FACW
5.			
6.			
7.			
8.			
9.			
10.			
	130 = Total Cover		
Woody Vine Stratum (Plot size: 30 ft)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	70	x 1 =	70
FACW species	60	x 2 =	120
FAC species	0	x 3 =	0
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals:	130 (A)		190 (B)

Prevalence Index = B/A = 1.46

Hydrophytic Vegetation Indicators:

- ____ 1 - Rapid Test for Hydrophytic Vegetation
- X 2 - Dominance Test is >50%
- X 3 - Prevalence Index is ≤3.0[1]
- ____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No ____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: W5

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks
0-4	10yr 3/1	98	5yr 3/4	2			Clay	
4-8	10yr 3-1	95	5yr 3/4	5			Clay	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- __ Histosol (A1)
- __ Histic Epipedon (A2)
- __ Black Histic (A3)
- __ Hydrogen Sulfide (A4)
- __ Stratified Layers (A5)
- __ 2 cm Muck (A10)
- __ Depleted Below Dark Surface (A11)
- __ Thick Dark Surface (A12)
- __ Sandy Mucky Mineral (S1)
- __ 5 cm Mucky Peat or Peat (S3)
- __ Sandy Gleyed Matrix (S4)
- __ Sandy Redox (S5)
- __ Stripped Matrix (S6)
- __ Loamy Mucky Mineral (F1)
- __ Loamy Gleyed Matrix (F2)
- __ Depleted Matrix (F3)
- X Redox Dark Surface (F6)
- __ Depleted Dark Surface (F7)
- __ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- __ Coast Prairie Redox (A16)
- __ Dark Surface (S7)
- __ Iron-Manganese Masses (F12)
- __ Very Shallow Dark Surface (TF12)
- __ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type:

Depth (inches):

Hydric Soil Present? Yes X No __

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- __ Surface Water (A1)
- __ High Water Table (A2)
- __ Saturation (A3)
- __ Water Marks (B1)
- __ Sediment Deposits (B2)
- __ Drift Deposits (B3)
- __ Algal Mat or Crust (B4)
- __ Iron Deposits (B5)
- __ Inundation Visible on Aerial Imagery (B7)
- __ Sparsely Vegetated Concave Surface (B8)
- __ Water-Stained Leaves (B9)
- __ Aquatic Fauna (B13)
- __ True Aquatic Plants (B14)
- __ Hydrogen Sulfide Odor (C1)
- __ Oxidized Rhizospheres on Living Roots (C3)
- __ Presence of Reduced Iron (C4)
- __ Recent Iron Reduction in Tilled Soils (C6)
- __ Thin Muck Surface (C7)
- __ Gauge or Well Data (D9)
- __ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- __ Surface Soil Cracks (B6)
- X Drainage Patterns (B10)
- __ Dry-Season Water Table (C2)
- __ Crayfish Burrows (C8)
- __ Saturation Visible on Aerial Imagery (C9)
- __ Stunted or Stressed Plants (D1)
- __ Geomorphic Position (D2)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes __	No X	Depth (inches) __		
Water Table Present?	Yes __	No X	Depth (inches) __		
Saturation Present? (includes capillary fringe)	Yes __	No X	Depth (inches) __		

Wetland Hydrology Present? Yes X No __

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Wetland Wetland 5 **Sample Point** W5

Longitude	Latitude
-94.539188	38.861360

Cowardin Classification: PEM

Size:

Landform: Drainageway

Tree Stratum:

Sapling/Shrub:

Herb Stratum: Typha latifolia Carex vulpinoidea Persicaria punctata

Vine Stratum:

Hydric Soil Indicators: Redox Dark Surface (F6)

Hydrology Indicators: Drainage Patterns (B10)

Significant Nexus: No Adjacent: Abuts: Stream Name:

Jurisdictional Status and Comments:
Not adjacent to a jurisdictional stream.

Photo 1 South



Photo 2 East



Photo 3 North



Photo 4 West



Wetland Determination Data Form - Midwest Region

Project/Site: Highway 150/Colorado Ave. City/County: Grandview (Jackson) Sampling Date: 8/27/2020

Applicant/Owner: Platform Ventures State: MO Sampling Point: W5out

Investigator(s): Jack Finley Section, Township, Range: S26 T47N R33W

Landform (hillslope, terrace, etc.): Hillslope-ag. field Local relief (concave, convex, none): None

Slope (%): 2-5% Lat: 38.861357 Long: -94.539293 Datum: UTM83

Soil Map Unit Name: Sampsel silty clay loam, 5 to 9 percent slopes NWI classification: UPL

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No X	**Is the Sampled Area within a Wetland?**	**Yes** ____ **No** X
Hydric Soil Present?	Yes ____	No X		
Wetland Hydrology Present?	Yes ____	No X		

Remarks:

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15 ft)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Herb Stratum (Plot size: 5 ft)			
1. Glycine max	20	X	NI
2. Amaranthus retroflexus	10	X	FACU
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	30 = Total Cover		
Woody Vine Stratum (Plot size: 30 ft)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 000% (A/B)

Prevalence Index worksheet:

	Total % Cover of:		Multiply by:
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	0	x 3 =	0
FACU species	10	x 4 =	40
UPL species	0	x 5 =	0
Column Totals:	10 (A)		40 (B)

Prevalence Index = B/A = 4.00

Hydrophytic Vegetation Indicators:

__ 1 - Rapid Test for Hydrophytic Vegetation

__ 2 - Dominance Test is >50%

__ 3 - Prevalence Index is ≤3.0[1]

__ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

__ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes** ____ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: W5out

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks
0-4	10yr 2/2	100					Silt	
4-16	10yr 2/2	99	5yr 4/4	1			Silt	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- __ Histosol (A1)
- __ Histic Epipedon (A2)
- __ Black Histic (A3)
- __ Hydrogen Sulfide (A4)
- __ Stratified Layers (A5)
- __ 2 cm Muck (A10)
- __ Depleted Below Dark Surface (A11)
- __ Thick Dark Surface (A12)
- __ Sandy Mucky Mineral (S1)
- __ 5 cm Mucky Peat or Peat (S3)
- __ Sandy Gleyed Matrix (S4)
- __ Sandy Redox (S5)
- __ Stripped Matrix (S6)
- __ Loamy Mucky Mineral (F1)
- __ Loamy Gleyed Matrix (F2)
- __ Depleted Matrix (F3)
- __ Redox Dark Surface (F6)
- __ Depleted Dark Surface (F7)
- __ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- __ Coast Prairie Redox (A16)
- __ Dark Surface (S7)
- __ Iron-Manganese Masses (F12)
- __ Very Shallow Dark Surface (TF12)
- __ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- __ Surface Water (A1)
- __ High Water Table (A2)
- __ Saturation (A3)
- __ Water Marks (B1)
- __ Sediment Deposits (B2)
- __ Drift Deposits (B3)
- __ Algal Mat or Crust (B4)
- __ Iron Deposits (B5)
- __ Inundation Visible on Aerial Imagery (B7)
- __ Sparsely Vegetated Concave Surface (B8)
- __ Water-Stained Leaves (B9)
- __ Aquatic Fauna (B13)
- __ True Aquatic Plants (B14)
- __ Hydrogen Sulfide Odor (C1)
- __ Oxidized Rhizospheres on Living Roots (C3)
- __ Presence of Reduced Iron (C4)
- __ Recent Iron Reduction in Tilled Soils (C6)
- __ Thin Muck Surface (C7)
- __ Gauge or Well Data (D9)
- __ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- __ Surface Soil Cracks (B6)
- __ Drainage Patterns (B10)
- __ Dry-Season Water Table (C2)
- __ Crayfish Burrows (C8)
- __ Saturation Visible on Aerial Imagery (C9)
- __ Stunted or Stressed Plants (D1)
- __ Geomorphic Position (D2)
- __ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes _____	No X	Depth (inches)	_____
Water Table Present?	Yes _____	No X	Depth (inches)	_____
Saturation Present? (includes capillary fringe)	Yes _____	No X	Depth (inches)	_____

Wetland Hydrology Present? Yes _____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Wetland _____ **Sample Point** W5out

Longitude	Latitude
-94.539293	38.861357

Cowardin Classification: UPL

Size: _____

Landform: Hillslope-ag. field

Tree Stratum: _____

Sapling/Shrub: _____

Herb Stratum: Glycine max Amaranthus retroflexus

Vine Stratum: _____

Hydric Soil Indicators: _____

Hydrology Indicators: _____

Significant Nexus: No Adjacent: _____ Abuts: _____ Stream Name: _____

Jurisdictional Status and Comments:

Photo 1

Photo 2

Photo 3

Photo 4

Wetland Determination Data Form - Midwest Region

Project/Site: Highway 150/Colorado Ave. City/County: Grandview (Jackson) Sampling Date: 08/28/2020

Applicant/Owner: Platform Ventures State: MO Sampling Point: w6

Investigator(s): Jack Finley Section, Township, Range: S26 T47N R33W

Landform (hillslope, terrace, etc.): Drainageway Local relief (concave, convex, none): Concave

Slope (%): 2-5% Lat: 38.86215 Long: -94.53792 Datum: UTM83

Soil Map Unit Name: Sampsel silty clay loam, 5 to 9 percent slopes NWI classification: PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No ____		
Hydric Soil Present?	Yes X	No ____	**Is the Sampled Area within a Wetland?**	**Yes X No ____**
Wetland Hydrology Present?	Yes X	No ____		

Remarks:

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15 ft)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Herb Stratum (Plot size: 5 ft)			
1. Typha latifolia	100	X	OBL
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	100 = Total Cover		
Woody Vine Stratum (Plot size: 30 ft)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)

Prevalence Index worksheet:

	Total % Cover of:		Multiply by:
OBL species	100	x 1 =	100
FACW species	0	x 2 =	0
FAC species	0	x 3 =	0
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals:	100 (A)		100 (B)

Prevalence Index = B/A = 1.00

Hydrophytic Vegetation Indicators:

- X 1 - Rapid Test for Hydrophytic Vegetation
- X 2 - Dominance Test is >50%
- X 3 - Prevalence Index is ≤3.0[1]
- ____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No ____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: w6

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks
0-4	10yr 4/2	95	10yr 5/6	5	C	M	Clay	
4-8	10yr 3/2	95	10yr 5/6	5	C	M	Clay	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- __ Histosol (A1)
- __ Histic Epipedon (A2)
- __ Black Histic (A3)
- __ Hydrogen Sulfide (A4)
- __ Stratified Layers (A5)
- __ 2 cm Muck (A10)
- __ Depleted Below Dark Surface (A11)
- __ Thick Dark Surface (A12)
- __ Sandy Mucky Mineral (S1)
- __ 5 cm Mucky Peat or Peat (S3)
- __ Sandy Gleyed Matrix (S4)
- __ Sandy Redox (S5)
- __ Stripped Matrix (S6)
- __ Loamy Mucky Mineral (F1)
- __ Loamy Gleyed Matrix (F2)
- X Depleted Matrix (F3)
- __ Redox Dark Surface (F6)
- __ Depleted Dark Surface (F7)
- __ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- __ Coast Prairie Redox (A16)
- __ Dark Surface (S7)
- __ Iron-Manganese Masses (F12)
- __ Very Shallow Dark Surface (TF12)
- __ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type:

Depth (inches):

Hydric Soil Present? Yes X No __

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- __ Surface Water (A1)
- __ High Water Table (A2)
- X Saturation (A3)
- __ Water Marks (B1)
- __ Sediment Deposits (B2)
- __ Drift Deposits (B3)
- __ Algal Mat or Crust (B4)
- __ Iron Deposits (B5)
- __ Inundation Visible on Aerial Imagery (B7)
- __ Sparsely Vegetated Concave Surface (B8)
- __ Water-Stained Leaves (B9)
- __ Aquatic Fauna (B13)
- __ True Aquatic Plants (B14)
- __ Hydrogen Sulfide Odor (C1)
- __ Oxidized Rhizospheres on Living Roots (C3)
- __ Presence of Reduced Iron (C4)
- __ Recent Iron Reduction in Tilled Soils (C6)
- __ Thin Muck Surface (C7)
- __ Gauge or Well Data (D9)
- __ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- __ Surface Soil Cracks (B6)
- X Drainage Patterns (B10)
- __ Dry-Season Water Table (C2)
- __ Crayfish Burrows (C8)
- __ Saturation Visible on Aerial Imagery (C9)
- __ Stunted or Stressed Plants (D1)
- __ Geomorphic Position (D2)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes __	No X	Depth (inches) __		
Water Table Present?	Yes __	No X	Depth (inches) __		
Saturation Present? (includes capillary fringe)	Yes X	No __	Depth (inches) 0		

Wetland Hydrology Present? Yes X No __

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Wetland Wetland 6 **Sample Point** w6

Longitude	Latitude
-94.53792	38.86215

Cowardin Classification: PEM

Size:

Landform: Drainageway

Tree Stratum:

Sapling/Shrub:

Herb Stratum: Typha latifolia

Vine Stratum:

Hydric Soil Indicators: Depleted Matrix (F3)

Hydrology Indicators: Saturation (A3)

Significant Nexus: No Adjacent: Abuts: Stream Name:

Jurisdictional Status and Comments:
Not adjacent to a jurisdictional stream.

Photo 1



Photo 2



Photo 3

Photo 4

Wetland Determination Data Form - Midwest Region

Project/Site: Highway 150/Colorado Ave. City/County: Grandview (Jackson) Sampling Date: 08/28/2020

Applicant/Owner: Platform Ventures State: MO Sampling Point: w6out

Investigator(s): Jack Finley Section, Township, Range: S26 T47N R33W

Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex

Slope (%): 2-5% Lat: 38.862151 Long: -94.537882 Datum: UTM83

Soil Map Unit Name: Sampsel silty clay loam, 5 to 9 percent slopes NWI classification: UPL

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No X	**Is the Sampled Area within a Wetland?**	**Yes** ____ **No** X
Hydric Soil Present?	Yes X	No ____		
Wetland Hydrology Present?	Yes ____	No X		

Remarks:

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15 ft)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Herb Stratum (Plot size: 5 ft)			
1. Glycine max	20	X	NI
2. Ambrosia artemisiifolia	40	X	FACU
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	60 = Total Cover		
Woody Vine Stratum (Plot size: 30 ft)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 000% (A/B)

Prevalence Index worksheet:

	Total % Cover of:		Multiply by:
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	0	x 3 =	0
FACU species	40	x 4 =	160
UPL species	0	x 5 =	0
Column Totals:	40 (A)		160 (B)

Prevalence Index = B/A = 4.00

Hydrophytic Vegetation Indicators:

__ 1 - Rapid Test for Hydrophytic Vegetation

__ 2 - Dominance Test is >50%

__ 3 - Prevalence Index is ≤3.0[1]

__ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

__ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ____ No X

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: w6out

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Redox Features Type[1]	Redox Features Loc[2]	Texture	Remarks
0-4	10yr 2/2	100					Silt Loam	
4-8	10yr 3/2	96	5yr 3/2	5	C	M		

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- __ Histosol (A1)
- __ Histic Epipedon (A2)
- __ Black Histic (A3)
- __ Hydrogen Sulfide (A4)
- __ Stratified Layers (A5)
- __ 2 cm Muck (A10)
- __ Depleted Below Dark Surface (A11)
- __ Thick Dark Surface (A12)
- __ Sandy Mucky Mineral (S1)
- __ 5 cm Mucky Peat or Peat (S3)
- __ Sandy Gleyed Matrix (S4)
- __ Sandy Redox (S5)
- __ Stripped Matrix (S6)
- __ Loamy Mucky Mineral (F1)
- __ Loamy Gleyed Matrix (F2)
- __ Depleted Matrix (F3)
- X Redox Dark Surface (F6)
- __ Depleted Dark Surface (F7)
- __ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- __ Coast Prairie Redox (A16)
- __ Dark Surface (S7)
- __ Iron-Manganese Masses (F12)
- __ Very Shallow Dark Surface (TF12)
- __ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes X No ____

Remarks:
Rock precluded deeper excavation.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- __ Surface Water (A1)
- __ High Water Table (A2)
- __ Saturation (A3)
- __ Water Marks (B1)
- __ Sediment Deposits (B2)
- __ Drift Deposits (B3)
- __ Algal Mat or Crust (B4)
- __ Iron Deposits (B5)
- __ Inundation Visible on Aerial Imagery (B7)
- __ Sparsely Vegetated Concave Surface (B8)
- __ Water-Stained Leaves (B9)
- __ Aquatic Fauna (B13)
- __ True Aquatic Plants (B14)
- __ Hydrogen Sulfide Odor (C1)
- __ Oxidized Rhizospheres on Living Roots (C3)
- __ Presence of Reduced Iron (C4)
- __ Recent Iron Reduction in Tilled Soils (C6)
- __ Thin Muck Surface (C7)
- __ Gauge or Well Data (D9)
- __ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- __ Surface Soil Cracks (B6)
- __ Drainage Patterns (B10)
- __ Dry-Season Water Table (C2)
- __ Crayfish Burrows (C8)
- __ Saturation Visible on Aerial Imagery (C9)
- __ Stunted or Stressed Plants (D1)
- __ Geomorphic Position (D2)
- __ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches) ____		
Water Table Present?	Yes ____	No X	Depth (inches) ____		
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches) ____	**Wetland Hydrology Present?**	Yes ____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Wetland _____ **Sample Point** w6out

Longitude	Latitude
-94.537882	38.862151

Cowardin Classification: UPL

Size: _____

Landform: Hillslope

Tree Stratum: _____

Sapling/Shrub: _____

Herb Stratum: Glycine max Ambrosia artemisiifolia

Vine Stratum: _____

Hydric Soil Indicators: Redox Dark Surface (F6)

Hydrology Indicators: _____

Significant Nexus: No Adjacent: _____ Abuts: _____ Stream Name: _____

Jurisdictional Status and Comments:

Photo 1



Photo 2



Photo 3

Photo 4

Wetland Determination Data Form - Midwest Region

Project/Site: Highway 150/Colorado Ave. City/County: Grandview (Jackson) Sampling Date: 08/28/2020

Applicant/Owner: Platform Ventures State: MO Sampling Point: w7

Investigator(s): Jack Finley Section, Township, Range: S26 T47N R33W

Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave

Slope (%): 2-5% Lat: 38.862175 Long: -94.537346 Datum: UTM83

Soil Map Unit Name: Sampsel silty clay loam, 5 to 9 percent slopes NWI classification: PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No ____	
Hydric Soil Present?	Yes X	No ____	**Is the Sampled Area within a Wetland?** Yes X No ____
Wetland Hydrology Present?	Yes X	No ____	

Remarks:

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15 ft)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Herb Stratum (Plot size: 5 ft)			
1. Typha angustifolia	50	X	OBL
2. Scirpus atrovirens	20	X	OBL
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	70 = Total Cover		
Woody Vine Stratum (Plot size: 30 ft)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)

Prevalence Index worksheet:

	Total % Cover of:		Multiply by:
OBL species	70	x 1 =	70
FACW species	0	x 2 =	0
FAC species	0	x 3 =	0
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals:	70 (A)		70 (B)

Prevalence Index = B/A = 1.00

Hydrophytic Vegetation Indicators:

- X 1 - Rapid Test for Hydrophytic Vegetation
- X 2 - Dominance Test is >50%
- X 3 - Prevalence Index is ≤3.0[1]
- ____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No ____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: w7

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks
0-16	10yr 2/1	95	2.5yr 3/6	5	C	M	Silty Clay	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- __ Histosol (A1)
- __ Histic Epipedon (A2)
- __ Black Histic (A3)
- __ Hydrogen Sulfide (A4)
- __ Stratified Layers (A5)
- __ 2 cm Muck (A10)
- __ Depleted Below Dark Surface (A11)
- __ Thick Dark Surface (A12)
- __ Sandy Mucky Mineral (S1)
- __ 5 cm Mucky Peat or Peat (S3)
- __ Sandy Gleyed Matrix (S4)
- __ Sandy Redox (S5)
- __ Stripped Matrix (S6)
- __ Loamy Mucky Mineral (F1)
- __ Loamy Gleyed Matrix (F2)
- X Depleted Matrix (F3)
- __ Redox Dark Surface (F6)
- __ Depleted Dark Surface (F7)
- __ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- __ Coast Prairie Redox (A16)
- __ Dark Surface (S7)
- __ Iron-Manganese Masses (F12)
- __ Very Shallow Dark Surface (TF12)
- __ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type:

Depth (inches):

Hydric Soil Present? Yes X No __

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- __ Surface Water (A1)
- __ High Water Table (A2)
- __ Saturation (A3)
- __ Water Marks (B1)
- __ Sediment Deposits (B2)
- __ Drift Deposits (B3)
- __ Algal Mat or Crust (B4)
- __ Iron Deposits (B5)
- __ Inundation Visible on Aerial Imagery (B7)
- __ Sparsely Vegetated Concave Surface (B8)
- __ Water-Stained Leaves (B9)
- __ Aquatic Fauna (B13)
- __ True Aquatic Plants (B14)
- __ Hydrogen Sulfide Odor (C1)
- __ Oxidized Rhizospheres on Living Roots (C3)
- __ Presence of Reduced Iron (C4)
- __ Recent Iron Reduction in Tilled Soils (C6)
- __ Thin Muck Surface (C7)
- __ Gauge or Well Data (D9)
- __ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- __ Surface Soil Cracks (B6)
- __ Drainage Patterns (B10)
- __ Dry-Season Water Table (C2)
- __ Crayfish Burrows (C8)
- __ Saturation Visible on Aerial Imagery (C9)
- __ Stunted or Stressed Plants (D1)
- X Geomorphic Position (D2)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes __	No X	Depth (inches) __		
Water Table Present?	Yes __	No X	Depth (inches) __		
Saturation Present? (includes capillary fringe)	Yes __	No X	Depth (inches) __	**Wetland Hydrology Present?**	Yes X No __

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Wetland Wetland 7 **Sample Point** w7

Longitude	Latitude
-94.537346	38.862175

Cowardin Classification: PEM

Size:

Landform: Depression

Tree Stratum:

Sapling/Shrub:

Herb Stratum: Typha angustifolia Scirpus atrovirens

Vine Stratum:

Hydric Soil Indicators: Redox Dark Surface (F6)

Hydrology Indicators: Geomorphic Position (D2)

Significant Nexus: No Adjacent: Abuts: Stream Name:

Jurisdictional Status and Comments:
Wetland is not located adjacent to a jurisdictional stream.

Photo 1



Photo 2



Photo 3

Photo 4

Wetland Determination Data Form - Midwest Region

Project/Site: Highway 150/Colorado Ave. City/County: Grandview (Jackson) Sampling Date: 08/28/2020

Applicant/Owner: Platform Ventures State: MO Sampling Point: w7out

Investigator(s): Jack Finley Section, Township, Range: S26 T47N R33W

Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): None

Slope (%): 2-5% Lat: 38.862175 Long: -94.537309 Datum: UTM83

Soil Map Unit Name: Sampsel silty clay loam, 5 to 9 percent slopes NWI classification: UPL

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No ____		
Hydric Soil Present?	Yes ____	No X	**Is the Sampled Area within a Wetland?**	**Yes** ____ **No** X
Wetland Hydrology Present?	Yes ____	No X		

Remarks:

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15 ft)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Herb Stratum (Plot size: 5 ft)			
1. Iva annua	70	X	FAC
2. Vicea sp.	30	X	
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	100 = Total Cover		
Woody Vine Stratum (Plot size: 30 ft)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50% (A/B)

Prevalence Index worksheet:

	Total % Cover of:		Multiply by:
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	70	x 3 =	210
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals:	70 (A)		210 (B)

Prevalence Index = B/A = 3.00

Hydrophytic Vegetation Indicators:

- ____ 1 - Rapid Test for Hydrophytic Vegetation
- ____ 2 - Dominance Test is >50%
- X 3 - Prevalence Index is ≤3.0[1]
- ____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes** X **No** ____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: w7out

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks
*								

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- __ Histosol (A1)
- __ Histic Epipedon (A2)
- __ Black Histic (A3)
- __ Hydrogen Sulfide (A4)
- __ Stratified Layers (A5)
- __ 2 cm Muck (A10)
- __ Depleted Below Dark Surface (A11)
- __ Thick Dark Surface (A12)
- __ Sandy Mucky Mineral (S1)
- __ 5 cm Mucky Peat or Peat (S3)
- __ Sandy Gleyed Matrix (S4)
- __ Sandy Redox (S5)
- __ Stripped Matrix (S6)
- __ Loamy Mucky Mineral (F1)
- __ Loamy Gleyed Matrix (F2)
- __ Depleted Matrix (F3)
- __ Redox Dark Surface (F6)
- __ Depleted Dark Surface (F7)
- __ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- __ Coast Prairie Redox (A16)
- __ Dark Surface (S7)
- __ Iron-Manganese Masses (F12)
- __ Very Shallow Dark Surface (TF12)
- __ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ____ No X

Remarks:
*Soil was too rocky (disturbed) to excavate.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- __ Surface Water (A1)
- __ High Water Table (A2)
- __ Saturation (A3)
- __ Water Marks (B1)
- __ Sediment Deposits (B2)
- __ Drift Deposits (B3)
- __ Algal Mat or Crust (B4)
- __ Iron Deposits (B5)
- __ Inundation Visible on Aerial Imagery (B7)
- __ Sparsely Vegetated Concave Surface (B8)
- __ Water-Stained Leaves (B9)
- __ Aquatic Fauna (B13)
- __ True Aquatic Plants (B14)
- __ Hydrogen Sulfide Odor (C1)
- __ Oxidized Rhizospheres on Living Roots (C3)
- __ Presence of Reduced Iron (C4)
- __ Recent Iron Reduction in Tilled Soils (C6)
- __ Thin Muck Surface (C7)
- __ Gauge or Well Data (D9)
- __ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- __ Surface Soil Cracks (B6)
- __ Drainage Patterns (B10)
- __ Dry-Season Water Table (C2)
- __ Crayfish Burrows (C8)
- __ Saturation Visible on Aerial Imagery (C9)
- __ Stunted or Stressed Plants (D1)
- __ Geomorphic Position (D2)
- __ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches) ____		
Water Table Present?	Yes ____	No X	Depth (inches) ____		
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches) ____	**Wetland Hydrology Present?**	Yes ____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Wetland _____ **Sample Point** w7out

Longitude	Latitude
-94.537309	38.862175

Cowardin Classification: UPL

Size: _____

Landform: Hillslope

Tree Stratum: _____

Sapling/Shrub: _____

Herb Stratum: Iva annua Vicea sp.

Vine Stratum: _____

Hydric Soil Indicators: _____

Hydrology Indicators: _____

Significant Nexus: No Adjacent: _____ Abuts: _____ Stream Name: _____

Jurisdictional Status and Comments:

Photo 1



Photo 2



Photo 3

Photo 4

Wetland Determination Data Form - Midwest Region

Project/Site: Highway 150/Colorado Ave. City/County: Grandview (Jackson) Sampling Date: 09/02/2020

Applicant/Owner: Platform Ventures State: MO Sampling Point: w8

Investigator(s): Jack Finley Section, Township, Range: S26 T47N R33W

Landform (hillslope, terrace, etc.): Drainageway Local relief (concave, convex, none): Concave

Slope (%): 2-5% Lat: 38.860672 Long: -94.535516 Datum: UTM83

Soil Map Unit Name: Sampsel silty clay loam, 5 to 9 percent slopes NWI classification: PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No ____	**Is the Sampled Area within a Wetland?**	**Yes X** **No ____**
Hydric Soil Present?	Yes X	No ____		
Wetland Hydrology Present?	Yes X	No ____		

Remarks:

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15 ft)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Herb Stratum (Plot size: 5 ft)			
1. Typha latifolia	85	X	OBL
2. Scirpus atrovirens	5		OBL
3. Lobelia siphilitica	10		OBL
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	100 = Total Cover		
Woody Vine Stratum (Plot size: 30 ft)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	100	x 1 =	100
FACW species	0	x 2 =	0
FAC species	0	x 3 =	0
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals:	100 (A)		100 (B)

Prevalence Index = B/A = 1.00

Hydrophytic Vegetation Indicators:

__ 1 - Rapid Test for Hydrophytic Vegetation

__ 2 - Dominance Test is >50%

__ 3 - Prevalence Index is ≤3.0[1]

__ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

__ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes X** **No ____**

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: w8

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks
0-5	10yr 3/2	95	5yr 4/6	5	C	M	Clay	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- __ Histosol (A1)
- __ Histic Epipedon (A2)
- __ Black Histic (A3)
- __ Hydrogen Sulfide (A4)
- __ Stratified Layers (A5)
- __ 2 cm Muck (A10)
- __ Depleted Below Dark Surface (A11)
- __ Thick Dark Surface (A12)
- __ Sandy Mucky Mineral (S1)
- __ 5 cm Mucky Peat or Peat (S3)
- __ Sandy Gleyed Matrix (S4)
- __ Sandy Redox (S5)
- __ Stripped Matrix (S6)
- __ Loamy Mucky Mineral (F1)
- __ Loamy Gleyed Matrix (F2)
- __ Depleted Matrix (F3)
- X Redox Dark Surface (F6)
- __ Depleted Dark Surface (F7)
- __ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- __ Coast Prairie Redox (A16)
- __ Dark Surface (S7)
- __ Iron-Manganese Masses (F12)
- __ Very Shallow Dark Surface (TF12)
- __ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes X No ____

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- __ Surface Water (A1)
- __ High Water Table (A2)
- __ Saturation (A3)
- __ Water Marks (B1)
- __ Sediment Deposits (B2)
- __ Drift Deposits (B3)
- __ Algal Mat or Crust (B4)
- __ Iron Deposits (B5)
- __ Inundation Visible on Aerial Imagery (B7)
- __ Sparsely Vegetated Concave Surface (B8)
- __ Water-Stained Leaves (B9)
- __ Aquatic Fauna (B13)
- __ True Aquatic Plants (B14)
- __ Hydrogen Sulfide Odor (C1)
- __ Oxidized Rhizospheres on Living Roots (C3)
- __ Presence of Reduced Iron (C4)
- __ Recent Iron Reduction in Tilled Soils (C6)
- __ Thin Muck Surface (C7)
- __ Gauge or Well Data (D9)
- __ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- __ Surface Soil Cracks (B6)
- X Drainage Patterns (B10)
- __ Dry-Season Water Table (C2)
- __ Crayfish Burrows (C8)
- __ Saturation Visible on Aerial Imagery (C9)
- __ Stunted or Stressed Plants (D1)
- __ Geomorphic Position (D2)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches) ____		
Water Table Present?	Yes ____	No X	Depth (inches) ____		
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches) ____	**Wetland Hydrology Present?**	Yes X No ____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Wetland Wetland 8 **Sample Point** w8

Longitude	Latitude
-94.535516	38.860672

Cowardin Classification: PEM

Size:

Landform: Drainageway

Tree Stratum:

Sapling/Shrub:

Herb Stratum: Typha latifolia Scirpus atrovirens Lobelia siphilitica

Vine Stratum:

Hydric Soil Indicators: Redox Dark Surface (F6)

Hydrology Indicators: Drainage Patterns (B10)

Significant Nexus: No Adjacent: Abuts: Stream Name:

Jurisdictional Status and Comments:
Wetland is not adjacent to a jurisdictional stream.

Photo 1



Photo 2



Photo 3

Photo 4

Wetland Determination Data Form - Midwest Region

Project/Site: Highway 150/Colorado Ave. City/County: Grandview (Jackson) Sampling Date: 09/02/2020

Applicant/Owner: Platform Ventures State: MO Sampling Point: w8out

Investigator(s): Jack Finley Section, Township, Range: S26 T47N R33W

Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex

Slope (%): 2-5% Lat: 38.860692 Long: 38.860692 Datum: UTM83

Soil Map Unit Name: Sampsel silty clay loam, 5 to 9 percent slopes NWI classification: UPL

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No X	**Is the Sampled Area within a Wetland?**	**Yes** ____ **No** X
Hydric Soil Present?	Yes ____	No X		
Wetland Hydrology Present?	Yes ____	No X		

Remarks:

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15 ft)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Herb Stratum (Plot size: 5 ft)			
1. Medicago lupulina	80	X	FACU
2. Heliopsis helianthoides	20	X	FACU
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	100 = Total Cover		
Woody Vine Stratum (Plot size: 30 ft)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 000% (A/B)

Prevalence Index worksheet:

	Total % Cover of:		Multiply by:
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	0	x 3 =	0
FACU species	100	x 4 =	400
UPL species	0	x 5 =	0
Column Totals:	100 (A)		400 (B)

Prevalence Index = B/A = 4.00

Hydrophytic Vegetation Indicators:

- ____ 1 - Rapid Test for Hydrophytic Vegetation
- ____ 2 - Dominance Test is >50%
- ____ 3 - Prevalence Index is ≤3.0[1]
- ____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes** ____ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: w8out

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Redox Features Type[1]	Redox Features Loc[2]	Texture	Remarks
0-16	10yr 4/4	100					Clay	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- __ Histosol (A1)
- __ Histic Epipedon (A2)
- __ Black Histic (A3)
- __ Hydrogen Sulfide (A4)
- __ Stratified Layers (A5)
- __ 2 cm Muck (A10)
- __ Depleted Below Dark Surface (A11)
- __ Thick Dark Surface (A12)
- __ Sandy Mucky Mineral (S1)
- __ 5 cm Mucky Peat or Peat (S3)
- __ Sandy Gleyed Matrix (S4)
- __ Sandy Redox (S5)
- __ Stripped Matrix (S6)
- __ Loamy Mucky Mineral (F1)
- __ Loamy Gleyed Matrix (F2)
- __ Depleted Matrix (F3)
- __ Redox Dark Surface (F6)
- __ Depleted Dark Surface (F7)
- __ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- __ Coast Prairie Redox (A16)
- __ Dark Surface (S7)
- __ Iron-Manganese Masses (F12)
- __ Very Shallow Dark Surface (TF12)
- __ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ____ No X

Remarks:
Disturbed soil profile.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- __ Surface Water (A1)
- __ High Water Table (A2)
- __ Saturation (A3)
- __ Water Marks (B1)
- __ Sediment Deposits (B2)
- __ Drift Deposits (B3)
- __ Algal Mat or Crust (B4)
- __ Iron Deposits (B5)
- __ Inundation Visible on Aerial Imagery (B7)
- __ Sparsely Vegetated Concave Surface (B8)
- __ Water-Stained Leaves (B9)
- __ Aquatic Fauna (B13)
- __ True Aquatic Plants (B14)
- __ Hydrogen Sulfide Odor (C1)
- __ Oxidized Rhizospheres on Living Roots (C3)
- __ Presence of Reduced Iron (C4)
- __ Recent Iron Reduction in Tilled Soils (C6)
- __ Thin Muck Surface (C7)
- __ Gauge or Well Data (D9)
- __ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- __ Surface Soil Cracks (B6)
- __ Drainage Patterns (B10)
- __ Dry-Season Water Table (C2)
- __ Crayfish Burrows (C8)
- __ Saturation Visible on Aerial Imagery (C9)
- __ Stunted or Stressed Plants (D1)
- __ Geomorphic Position (D2)
- __ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches) ____	
Water Table Present?	Yes ____	No X	Depth (inches) ____	
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches) ____	

Wetland Hydrology Present? Yes ____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Wetland _____ **Sample Point** w8out

Longitude	Latitude
38.860692	38.860692

Cowardin Classification: UPL

Size: _____

Landform: Hillslope

Tree Stratum: _____

Sapling/Shrub: _____

Herb Stratum: Medicago lupulina Heliopsis helianthoides

Vine Stratum: _____

Hydric Soil Indicators: _____

Hydrology Indicators: _____

Significant Nexus: No Adjacent: _____ Abuts: _____ Stream Name: _____

Jurisdictional Status and Comments:

Photo 1



Photo 2



Photo 3

Photo 4

Wetland Determination Data Form - Midwest Region

Project/Site: Highway 150/Colorado Ave. City/County: Grandview (Jackson) Sampling Date: 09/02/2020

Applicant/Owner: Platform Ventures State: MO Sampling Point: w9

Investigator(s): Jack Finley Section, Township, Range: S26 T47N R33W

Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Concave

Slope (%): 2-5% Lat: 38.860885 Long: -94.536307 Datum: UTM83

Soil Map Unit Name: Sampsel silty clay loam, 5 to 9 percent slopes NWI classification: PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No ____	
Hydric Soil Present?	Yes X	No ____	**Is the Sampled Area within a Wetland?** Yes X No ____
Wetland Hydrology Present?	Yes X	No ____	

Remarks:

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15 ft)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Herb Stratum (Plot size: 5 ft)			
1. Persicaria punctata	80	X	OBL
2. Carex frankii	10		OBL
3. Bidens aristosa	10		FACW
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	100 = Total Cover		
Woody Vine Stratum (Plot size: 30 ft)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	90	x 1 =	90
FACW species	10	x 2 =	20
FAC species	0	x 3 =	0
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals:	100 (A)		110 (B)

Prevalence Index = B/A = 1.10

Hydrophytic Vegetation Indicators:

- X 1 - Rapid Test for Hydrophytic Vegetation
- X 2 - Dominance Test is >50%
- X 3 - Prevalence Index is ≤3.0[1]
- ____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No ____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: w9

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks
0-12	10yr 2/2	95	5yr 3/4	5	C	M	Loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- __ Histosol (A1)
- __ Histic Epipedon (A2)
- __ Black Histic (A3)
- __ Hydrogen Sulfide (A4)
- __ Stratified Layers (A5)
- __ 2 cm Muck (A10)
- __ Depleted Below Dark Surface (A11)
- __ Thick Dark Surface (A12)
- __ Sandy Mucky Mineral (S1)
- __ 5 cm Mucky Peat or Peat (S3)
- __ Sandy Gleyed Matrix (S4)
- __ Sandy Redox (S5)
- __ Stripped Matrix (S6)
- __ Loamy Mucky Mineral (F1)
- __ Loamy Gleyed Matrix (F2)
- __ Depleted Matrix (F3)
- X Redox Dark Surface (F6)
- __ Depleted Dark Surface (F7)
- __ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- __ Coast Prairie Redox (A16)
- __ Dark Surface (S7)
- __ Iron-Manganese Masses (F12)
- __ Very Shallow Dark Surface (TF12)
- __ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type:

Depth (inches):

Hydric Soil Present? Yes X No ____

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- __ Surface Water (A1)
- __ High Water Table (A2)
- X Saturation (A3)
- __ Water Marks (B1)
- __ Sediment Deposits (B2)
- __ Drift Deposits (B3)
- __ Algal Mat or Crust (B4)
- __ Iron Deposits (B5)
- __ Inundation Visible on Aerial Imagery (B7)
- __ Sparsely Vegetated Concave Surface (B8)
- __ Water-Stained Leaves (B9)
- __ Aquatic Fauna (B13)
- __ True Aquatic Plants (B14)
- __ Hydrogen Sulfide Odor (C1)
- __ Oxidized Rhizospheres on Living Roots (C3)
- __ Presence of Reduced Iron (C4)
- __ Recent Iron Reduction in Tilled Soils (C6)
- __ Thin Muck Surface (C7)
- __ Gauge or Well Data (D9)
- __ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- __ Surface Soil Cracks (B6)
- __ Drainage Patterns (B10)
- __ Dry-Season Water Table (C2)
- __ Crayfish Burrows (C8)
- __ Saturation Visible on Aerial Imagery (C9)
- __ Stunted or Stressed Plants (D1)
- X Geomorphic Position (D2)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches) ____		
Water Table Present?	Yes ____	No X	Depth (inches) ____		
Saturation Present? (includes capillary fringe)	Yes X	No ____	Depth (inches) 0		

Wetland Hydrology Present? Yes X No ____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Wetland Wetland 9 **Sample Point** w9

Longitude	Latitude
-94.536307	38.860885

Cowardin Classification: PEM

Size:

Landform: Hillslope

Tree Stratum:

Sapling/Shrub:

Herb Stratum: Persicaria punctata Carex frankii Bidens aristosa

Vine Stratum:

Hydric Soil Indicators: Redox Dark Surface (F6)

Hydrology Indicators: Saturation (A3)

Significant Nexus: No Adjacent: Abuts: Stream Name:

Jurisdictional Status and Comments:

Connected to ephemeral stream which is not jurisdictional under the NWPR.

Photo 1



Photo 2



Photo 3

Photo 4

Wetland Determination Data Form - Midwest Region

Project/Site: Highway 150/Colorado Ave. City/County: Grandview (Jackson) Sampling Date: 09/02/2020

Applicant/Owner: Platform Ventures State: MO Sampling Point: w9out

Investigator(s): Jack Finley Section, Township, Range: S26 T47N R33W

Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex

Slope (%): 2-5% Lat: 38.860882 Long: -94.536234 Datum: UTM83

Soil Map Unit Name: Sampsel silty clay loam, 5 to 9 percent slopes NWI classification: UPL

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No X	**Is the Sampled Area within a Wetland?**	**Yes** ____ **No** X
Hydric Soil Present?	Yes ____	No X		
Wetland Hydrology Present?	Yes ____	No X		

Remarks:

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status
1. Ulmus americana	30	X	FACW
2. Crataegus sp.	30	X	
3. Gleditsia triacanthos	30	X	FACU
4.			
5.			
	90	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15 ft)			
1. Lonicera maackii	80	X	NI
2.			
3.			
4.			
5.			
	80	= Total Cover	

Herb Stratum (Plot size: 5 ft)			
1. Ageratina altissima	30	X	FACU
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	30	= Total Cover	

Woody Vine Stratum (Plot size: 30 ft)			
1.			
2.			
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 20% (A/B)

Prevalence Index worksheet:

	Total % Cover of:		Multiply by:
OBL species	0	x 1 =	0
FACW species	30	x 2 =	60
FAC species	0	x 3 =	0
FACU species	60	x 4 =	240
UPL species	0	x 5 =	0
Column Totals:	90	(A)	300 (B)

Prevalence Index = B/A = 3.33

Hydrophytic Vegetation Indicators:

__ 1 - Rapid Test for Hydrophytic Vegetation

__ 2 - Dominance Test is >50%

__ 3 - Prevalence Index is ≤3.0[1]

__ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

__ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes** ____ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)

Hawthorn (Crataegus) could not be identified to species.

SOIL

Sampling Point: w9out

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Redox Features Type[1]	Redox Features Loc[2]	Texture	Remarks
0-4	10yr 2/2	100					Loam	
4-16	10yr 3/2	98	5yr 3/4	2	C	M	Loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- __ Histosol (A1)
- __ Histic Epipedon (A2)
- __ Black Histic (A3)
- __ Hydrogen Sulfide (A4)
- __ Stratified Layers (A5)
- __ 2 cm Muck (A10)
- __ Depleted Below Dark Surface (A11)
- __ Thick Dark Surface (A12)
- __ Sandy Mucky Mineral (S1)
- __ 5 cm Mucky Peat or Peat (S3)
- __ Sandy Gleyed Matrix (S4)
- __ Sandy Redox (S5)
- __ Stripped Matrix (S6)
- __ Loamy Mucky Mineral (F1)
- __ Loamy Gleyed Matrix (F2)
- __ Depleted Matrix (F3)
- __ Redox Dark Surface (F6)
- __ Depleted Dark Surface (F7)
- __ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- __ Coast Prairie Redox (A16)
- __ Dark Surface (S7)
- __ Iron-Manganese Masses (F12)
- __ Very Shallow Dark Surface (TF12)
- __ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- __ Surface Water (A1)
- __ High Water Table (A2)
- __ Saturation (A3)
- __ Water Marks (B1)
- __ Sediment Deposits (B2)
- __ Drift Deposits (B3)
- __ Algal Mat or Crust (B4)
- __ Iron Deposits (B5)
- __ Inundation Visible on Aerial Imagery (B7)
- __ Sparsely Vegetated Concave Surface (B8)
- __ Water-Stained Leaves (B9)
- __ Aquatic Fauna (B13)
- __ True Aquatic Plants (B14)
- __ Hydrogen Sulfide Odor (C1)
- __ Oxidized Rhizospheres on Living Roots (C3)
- __ Presence of Reduced Iron (C4)
- __ Recent Iron Reduction in Tilled Soils (C6)
- __ Thin Muck Surface (C7)
- __ Gauge or Well Data (D9)
- __ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- __ Surface Soil Cracks (B6)
- __ Drainage Patterns (B10)
- __ Dry-Season Water Table (C2)
- __ Crayfish Burrows (C8)
- __ Saturation Visible on Aerial Imagery (C9)
- __ Stunted or Stressed Plants (D1)
- __ Geomorphic Position (D2)
- __ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes _____	No X	Depth (inches)	_____
Water Table Present?	Yes _____	No X	Depth (inches)	_____
Saturation Present? (includes capillary fringe)	Yes _____	No X	Depth (inches)	_____

Wetland Hydrology Present? Yes _____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Wetland _____ **Sample Point** w9out

Longitude	Latitude
-94.536234	38.860882

Cowardin Classification: _____

Size: _____

Landform: Hillslope

Tree Stratum: Ulmus americana Crataegus sp. Gleditsia triacanthos

Sapling/Shrub: Lonicera maackii

Herb Stratum: Ageratina altissima

Vine Stratum: _____

Hydric Soil Indicators: _____

Hydrology Indicators: _____

Significant Nexus: No Adjacent: _____ Abuts: _____ Stream Name: _____

Jurisdictional Status and Comments:

Photo 1



Photo 2



Photo 3

Photo 4

APPENDIX C

Stream Assessment Data Forms

Date: 8/25/2020 Investigator(s): _____ 38.864139 -94.531278

Feature ID:	Tributary 1
Unique Site ID:	T1
Project name:	Highway 150/Colorado Ave.
Project #:	020-2417
County, State:	Jackson, Missouri

Stream Classification: ☐ TNW ☒ RPW ☐ Non-RPW

Side Slopes: ☐ 1:1 ☒ 2:1 ☐ 3:1 ☐ 4:1 or >

Hydrology: ☒ Flowing ☐ Standing ☐ None

Water Color/Quality: ☒ Clear ☐ Discolored ☐ Oily film

Stream Has: ☒ Bed/Bank ☒ OHWM:

Tributary Geometry: ☐ Relatively Straight ☒ Meandering

OHWM width: 20 Top of bank to top of bank width: 30

OHWM height: 1ft Top of Bank height: 8

Riparian Buffer Width: N/E side: 100 Ft.
S/W side: 100 Ft.

Buffer (adjacent bank) vegetation:
Walnut, hackberry, bush honeysuckle

Stream Bottom Composition:
- ☒ silt
- ☐ sand
- ☒ gravel
- ☐ cobble
- ☐ bedrock
- ☐ concrete
- ☐ muck
- ☐ other:
- ☐ vegetation (% cover, type):

Riparian Type:
- ☒ Forested
- ☐ Herbaceous
- ☐ Ag. Field
- ☐ _____

Surface Flow:
- ☒ Discrete
- ☐ Confined
- ☐ Discrete and Confined
- ☐ Overland Sheet Flow

Stream Characteristics: ☒ Natural ☐ Artificial ☐ Manipulated
Explain Artificial/Manipulated:

Stream Type:
☐ Perennial ☒ Intermittent ☐ Ephemeral ☐ Draws/Gullies/Erosional Pattern

Stream Type Rational:
Current flow and well developed channel.

Significant Nexus: ☒ Yes ☐ No
Explain:
Flows into the Little Blue River which eventually flows in the Missouri River, a traditional navigable river.

OHWM has:
- ☒ clear, natural line on bank
- ☐ shelving
- ☐ veg. matted down or absent
- ☐ leaf litter disturbed
- ☐ wrack line
- ☐ scour
- ☐ change in plant community
- ☐ other:

Stream Condition/Stability:
- ☐ excessive erosion
- ☐ bank collapse
- ☐ cut-off channels
- ☐ riffles/runs
- ☐ pools
- ☒ exposed tree roots
- ☒ steep side slopes
- ☒ vegetated banks
- ☒ stable stream channel
- ☐ incised stream channel

Biological Function and Comments:

Upstream Photo: _____



Downstream Photo: _____



Date: 8/25/2020 Investigator(s): _____ 38.863899 -94.531144

Feature ID: Tributary 2

Unique Site ID: T2

Project name: Highway 150/Colorado Ave.

Project #: 020-2417

County, State: Jackson, Missouri

Stream Classification: ☐TNW ☐RPW ☒Non-RPW

Side Slopes: 1:1 ☐ ☐2:1 ☒3:1 ☐4:1 or >

Hydrology: ☐ Flowing ☐ Standing ☒ None

Water Color/Quality: ☐Clear ☐Discolored ☐Oily film

Stream Has: ☒Bed/Bank ☒OHWM:

Tributary Geometry: ☐Relatively Straight ☒Meandering

OHWM width: 3ft Top of bank to top of bank width: 3ft

OHWM height: 6in Top of Bank height: 4ft

Riparian Buffer Width: N/E side: 100 Ft.
S/W side: 100 Ft.

Buffer (adjacent bank) vegetation:
Black walnut, hackberry, dogwood, bush honeysuckle

Stream Bottom Composition:
☒silt ☐concrete
☐sand ☐muck
☐gravel ☐other:
☐cobble ☐vegetation (% cover, type):
☐bedrock

Riparian Type:
☒ Forested
☐ Herbaceous
☐ Ag. Field
☐ _____

Surface Flow:
☒Discrete
☐Confined
☐Discrete and Confined
☐Overland Sheet Flow

Stream Characteristics: ☒Natural ☐Artificial ☐Manipulated
Explain Artificial/Manipulated:

Stream Type:
☐Perennial ☐Intermittent ☒Ephemeral ☐Draws/Gullies/Erosional Pattern

Stream Type Rational:
No flow, little channel development.

Significant Nexus: ☐ Yes ☒ No
Explain:
Ephemeral streams are not jurisdictional under the NWPR.

OHWM has:
☒clear, natural line on bank
☐shelving
☒veg. matted down or absent
☐leaf litter disturbed
☐ wrack line
☐scour
☒change in plant community
☐other:

Stream Condition/Stability:
☐excessive erosion
☐bank collapse
☐cut-off channels
☐riffles/runs
☐pools
☒exposed tree roots
☒steep side slopes
☒vegetated banks
☐stable stream channel
☐incised stream channel

Biological Function and Comments:

Upstream Photo:_____



Downstream Photo:_____



Date: 08/27/2020 Investigator(s): _____ 38.863457 -94.541015

Feature ID:	Tributary 3
Unique Site ID:	T3
Project name:	Highway 150/Colorado Ave.
Project #:	020-2417
County, State:	Jackson, Missouri

Stream Classification: ☐ TNW ☐ RPW ☒ Non-RPW

Side Slopes: 1:1 ☐ ☐ 2:1 ☐ 3:1 ☐ 4:1 or >

Hydrology: ☐ Flowing ☐ Standing ☒ None

Water Color/Quality: ☐ Clear ☐ Discolored ☐ Oily film

Stream Has: ☒ Bed/Bank ☒ OHWM:

Tributary Geometry: ☒ Relatively Straight ☐ Meandering

OHWM width:	3ft	Top of bank to top of bank width:	15 ft
OHWM height:	6in	Top of Bank height:	8ft
Riparian Buffer Width:		N/E side: 15	Ft.
		S/W side: 50	Ft.

Buffer (adjacent bank) vegetation:

Honeysuckle, dogwood, walnut, hackberry

Stream Bottom Composition:

☒ silt ☐ concrete
☐ sand ☐ muck
☒ gravel ☐ other:
☐ cobble ☐ vegetation (% cover, type):
☐ bedrock

Riparian Type:

☒ Forested
☐ Herbaceous
☐ Ag. Field
☐ _____

Surface Flow:

☐ Discrete
☐ Confined
☒ Discrete and Confined
☐ Overland Sheet Flow

Stream Characteristics: ☒ Natural ☐ Artificial ☐ Manipulated

Explain Artificial/Manipulated:

Stream Type:

☐ Perennial ☐ Intermittent ☒ Ephemeral ☐ Draws/Gullies/Erosional Pattern

Stream Type Rational:

Dry channel, no apparent development that would indicate groundwater connection.

Significant Nexus: ☐ Yes ☒ No

Explain:

Ephemeral streams are not jurisdictional under the NWPR.

OHWM has:

☒ clear, natural line on bank ☐ wrack line
☐ shelving ☐ scour
☐ veg. matted down or absent ☐ change in plant community
☐ leaf litter disturbed ☐ other:

Stream Condition/Stability:

☐ excessive erosion ☐ exposed tree roots
☐ bank collapse ☒ steep side slopes
☐ cut-off channels ☒ vegetated banks
☐ riffles/runs ☐ stable stream channel
☐ pools ☐ incised stream channel

Biological Function and Comments:

Upstream Photo: _____



Downstream Photo: _____



Date: 08/28/2020 Investigator(s): _____ 38.863864 -94.534279

Feature ID: Tributary 4
Unique Site ID: t4
Project name: Highway 150/Colorado Ave.
Project #: 020-2417
County, State: Jackson, Missouri
Stream Classification: ☐TNW ☐RPW ☒Non-RPW
Side Slopes: 1:1 ☐ ☒2:1 ☐3:1 ☐4:1 or >
Hydrology: ☐ Flowing ☐ Standing ☒ None
Water Color/Quality: ☐Clear ☐Discolored ☐Oily film
Stream Has: ☒Bed/Bank ☒OHWM:
Tributary Geometry: ☒Relatively Straight ☐Meandering

OHWM width: 1.5 ft. Top of bank to top of bank width: 8 ft.
OHWM height: 0.5 ft. Top of Bank height: 4 ft.
Riparian Buffer Width: N/E side: >50 Ft.
S/W side: >50 Ft.

Buffer (adjacent bank) vegetation:
bush honeysuckle

Stream Bottom Composition:
☒silt ☐concrete
☐sand ☐muck
☐gravel ☐other:
☐cobble ☐vegetation (% cover, type):
☐bedrock

Riparian Type:
☒ Forested
☐ Herbaceous
☐ Ag. Field
☐ _____

Surface Flow:
☐Discrete
☐Confined
☒Discrete and Confined
☐Overland Sheet Flow

Stream Characteristics: ☐Natural ☐Artificial ☐Manipulated
Explain Artificial/Manipulated:

Stream Type:
☐Perennial ☐Intermittent ☒Ephemeral ☐Draws/Gullies/Erosional Pattern

Stream Type Rational:
No flow and a channel that shows less development and no likely groundwater connection

Significant Nexus: ☐ Yes ☒ No
Explain:
Ephemeral streams are not jurisdictional under the NWPR.

OHWM has:
☒clear, natural line on bank
☐shelving
☐veg. matted down or absent
☐leaf litter disturbed
☐ wrack line
☐scour
☐change in plant community
☐other:

Stream Condition/Stability:
☐excessive erosion
☐bank collapse
☐cut-off channels
☐riffles/runs
☐pools
☒exposed tree roots
☐steep side slopes
☒vegetated banks
☐stable stream channel
☐incised stream channel

Biological Function and Comments:

Upstream Photo: _____ Downstream Photo: _____

Date: 8/27/2020 Investigator(s): 38.859239 -94.540207

Feature ID: Tributary 5
Unique Site ID: T5
Project name: Highway 150/Colorado Ave.
Project #: 020-2417
County, State: Jackson, Missouri
Stream Classification: ☐TNW ☐RPW ☐Non-RPW
Side Slopes: 1:1 ☐ ☒2:1 ☐3:1 ☐4:1 or >
Hydrology: ☒ Flowing ☐ Standing ☐ None
Water Color/Quality: ☒Clear ☐Discolored ☐Oily film
Stream Has: ☒Bed/Bank ☒OHWM:
Tributary Geometry: ☒Relatively Straight ☐Meandering

OHWM width: 1ft
Top of bank to top of bank width: 3ft
OHWM height: 6in
Top of Bank height: 2ft
Riparian Buffer Width: N/E side: 30 Ft.
S/W side: 20 Ft.

Buffer (adjacent bank) vegetation:
Honeysuckle, black willow, red cedar

Stream Bottom Composition:
☒silt ☐concrete
☐sand ☐muck
☐gravel ☐other:
☐cobble ☐vegetation (% cover, type):
☐bedrock

Riparian Type:
☒ Forested
☐ Herbaceous
☐ Ag. Field
☐

Surface Flow:
☐Discrete
☐Confined
☒Discrete and Confined
☐Overland Sheet Flow

Stream Characteristics: ☒Natural ☐Artificial ☐Manipulated
Explain Artificial/Manipulated:

Stream Type:
☐Perennial ☐Intermittent ☒Ephemeral ☐Draws/Gullies/Erosional Pattern
Stream Type Rational:
Very little flow, un-apparent groundwater connection.

Significant Nexus: ☐ Yes ☒ No
Explain:
Ephemeral streams are not jurisdictional under the NWPR.

OHWM has:
☒clear, natural line on bank
☐shelving
☐veg. matted down or absent
☐leaf litter disturbed
☐ wrack line
☐scour
☐change in plant community
☐other:

Stream Condition/Stability:
☐excessive erosion
☐bank collapse
☐cut-off channels
☐riffles/runs
☐pools
☒exposed tree roots
☒steep side slopes
☒vegetated banks
☒stable stream channel
☐incised stream channel

Biological Function and Comments:

Upstream Photo: South



Downstream Photo: North



Date: 8/27/2020 Investigator(s): _____ 38.859913 -94.541233

Feature ID: Tributary 6

Unique Site ID: T6

Project name: Highway 150/Colorado Ave.

Project #: 020-2417

County, State: Jackson, Missouri

Stream Classification: ☐TNW ☐RPW ☒Non-RPW

Side Slopes: 1:1 ☐ ☒2:1 ☐3:1 ☐4:1 or >

Hydrology: ☐ Flowing ☐ Standing ☒ None

Water Color/Quality: ☒Clear ☐Discolored ☐Oily film

Stream Has: ☒Bed/Bank ☒OHWM:

Tributary Geometry: ☒Relatively Straight ☐Meandering

OHWM width: 1ft Top of bank to top of bank width: 10ft

OHWM height: 6in Top of Bank height: 10ft

Riparian Buffer Width: N/E side: 30 Ft.
S/W side: 30 Ft.

Buffer (adjacent bank) vegetation:
Red cedar,honeysuckle, honey Locust, pin oak

Stream Bottom Composition:
☒silt ☐concrete
☐sand ☐muck
☒gravel ☐other:
☐cobble ☐vegetation (% cover, type):
☐bedrock

Riparian Type:
☒ Forested
☐ Herbaceous
☐ Ag. Field
☐ _____

Surface Flow:
☐Discrete
☐Confined
☒Discrete and Confined
☐Overland Sheet Flow

Stream Characteristics: ☒Natural ☐Artificial ☐Manipulated
Explain Artificial/Manipulated:

Stream Type:
☐Perennial ☐Intermittent ☒Ephemeral ☐Draws/Gullies/Erosional Pattern

Stream Type Rational:
no flowing water or apparent connection to groundwater.

Significant Nexus: ☐ Yes ☒ No
Explain:
Ephemeral streams are not jurisdictional under the NWPR.

OHWM has:
☒clear, natural line on bank
☐shelving
☐veg. matted down or absent
☐leaf litter disturbed
☐ wrack line
☐scour
☐change in plant community
☐other:

Stream Condition/Stability:
☐excessive erosion
☐bank collapse
☐cut-off channels
☐riffles/runs
☐pools
☒exposed tree roots
☐steep side slopes
☒vegetated banks
☐stable stream channel
☐incised stream channel

Biological Function and Comments:

Upstream Photo: _____



Downstream Photo: _____

Date: 8/27/2020 Investigator(s): _____ 38.862167 -94.541314

Feature ID: Tributary 7

Unique Site ID: T7

Project name: Highway 150/Colorado Ave.

Project #: 020-2417

County, State: Jackson, Missouri

Stream Classification: ☐TNW ☐RPW ☒Non-RPW

Side Slopes: 1:1 ☐ ☐2:1 ☒3:1 ☐4:1 or >

Hydrology: ☐ Flowing ☐ Standing ☒ None

Water Color/Quality: ☐Clear ☐Discolored ☐Oily film

Stream Has: ☒Bed/Bank ☒OHWM:

Tributary Geometry: ☐Relatively Straight ☒Meandering

OHWM width: 3ft Top of bank to top of bank width: 10 ft

OHWM height: 6in Top of Bank height: 4ft

Riparian Buffer Width: N/E side: 100 Ft.
S/W side: 100 Ft.

Buffer (adjacent bank) vegetation:
Hackberry, honeysuckle

Stream Bottom Composition:
☒silt ☐concrete
☐sand ☐muck
☐gravel ☐other:
☐cobble ☐vegetation (% cover, type):
☐bedrock

Riparian Type:
☒ Forested
☐ Herbaceous
☐ Ag. Field
☐ _____

Surface Flow:
☐Discrete
☐Confined
☒Discrete and Confined
☐Overland Sheet Flow

Stream Characteristics: ☒Natural ☐Artificial ☐Manipulated
Explain Artificial/Manipulated:

Stream Type:
☐Perennial ☐Intermittent ☒Ephemeral ☐Draws/Gullies/Erosional Pattern

Stream Type Rational:
No flow and no apparent connection to groundwater.

Significant Nexus: ☐ Yes ☒ No
Explain:
Ephemeral streams are not jurisdictional under the NWPR.

OHWM has:
☒clear, natural line on bank
☐shelving
☐veg. matted down or absent
☐leaf litter disturbed
☐ wrack line
☐scour
☐change in plant community
☐other:

Stream Condition/Stability:
☐excessive erosion
☐bank collapse
☐cut-off channels
☐riffles/runs
☐pools
☒exposed tree roots
☐steep side slopes
☒vegetated banks
☒stable stream channel
☐incised stream channel

Biological Function and Comments:

Upstream Photo:_____



Downstream Photo:_____



Date: 8/27/2020 Investigator(s): _____ 38.862391 -94.540285

Feature ID: Tributary

Unique Site ID: T8

Project name: Highway 150/Colorado Ave.

Project #: 020-2417

County, State: Jackson, Missouri

Stream Classification: ☐TNW ☐RPW ☒Non-RPW

Side Slopes: 1:1 ☐ ☒2:1 ☐3:1 ☐4:1 or >

Hydrology: ☒ Flowing ☐ Standing ☐ None

Water Color/Quality: ☒Clear ☐Discolored ☐Oily film

Stream Has: ☒Bed/Bank ☒OHWM:

Tributary Geometry: ☐Relatively Straight ☒Meandering

OHWM width: 5ft Top of bank to top of bank width: 12ft

OHWM height: 1ft Top of Bank height: 5ft

Riparian Buffer Width: N/E side: 100 Ft.
S/W side: 100 Ft.

Buffer (adjacent bank) vegetation:
Silver maple, honeysuckle

Stream Bottom Composition:
☒silt ☐concrete
☐sand ☐muck
☐gravel ☐other:
☒cobble ☐vegetation (% cover, type):
☐bedrock

Riparian Type:
☒ Forested
☐ Herbaceous
☐ Ag. Field
☐ _____

Surface Flow:
☐Discrete
☐Confined
☒Discrete and Confined
☐Overland Sheet Flow

Stream Characteristics: ☒Natural ☐Artificial ☐Manipulated
Explain Artificial/Manipulated:

Stream Type:
☐Perennial ☒Intermittent ☐Ephemeral ☐Draws/Gullies/Erosional Pattern

Stream Type Rational:
Flowing water and an apparent groundwater connection since rainfall had not fallen in the previous 10 days.

Significant Nexus: ☒ Yes ☐ No
Explain:
It eventually flows into the Little Blue River which flows in the Missouri River, a traditional navigable stream.

OHWM has:
☒clear, natural line on bank
☐shelving
☐veg. matted down or absent
☐leaf litter disturbed
☐ wrack line
☐scour
☐change in plant community
☐other:

Stream Condition/Stability:
☐excessive erosion
☐bank collapse
☐cut-off channels
☐riffles/runs
☐pools
☒exposed tree roots
☒steep side slopes
☒vegetated banks
☒stable stream channel
☐incised stream channel

Biological Function and Comments:

Upstream Photo: _____



Downstream Photo: _____



Date: 08/28/2020 Investigator(s): _____ 38.865535 -94.53593

Feature ID: Tributary 9
Unique Site ID: t9
Project name: Highway 150/Colorado Ave.
Project #: 020-2417
County, State: Jackson, Missouri
Stream Classification: ☐TNW ☐RPW ☒Non-RPW
Side Slopes: 1:1 ☐ ☒2:1 ☐3:1 ☐4:1 or >
Hydrology: ☐ Flowing ☐ Standing ☐ None
Water Color/Quality: ☐Clear ☒Discolored ☐Oily film
Stream Has: ☒Bed/Bank ☒OHWM:
Tributary Geometry: ☐Relatively Straight ☒Meandering

OHWM width: 8 ft
Top of bank to top of bank width: 20 ft.
OHWM height: 1 ft.
Top of Bank height: 8 ft.
Riparian Buffer Width: N/E side: 30+ Ft.
S/W side: 30+ Ft.

Buffer (adjacent bank) vegetation:
bush honeysuckle, redbud.

Stream Bottom Composition:
☒silt ☐concrete
☐sand ☐muck
☐gravel ☐other:
☐cobble ☐vegetation (% cover, type):
☐bedrock

Riparian Type:
☒ Forested
☐ Herbaceous
☐ Ag. Field
☐ _____

Surface Flow:
☐Discrete
☐Confined
☐Discrete and Confined
☐Overland Sheet Flow

Stream Characteristics: ☒Natural ☐Artificial ☐Manipulated
Explain Artificial/Manipulated:

Stream Type:
☐Perennial ☒Intermittent ☐Ephemeral ☐Draws/Gullies/Erosional Pattern
Stream Type Rational:
Flowing stream after a period of dry weather, well developed channel.

Significant Nexus: ☒ Yes ☐ No
Explain:
It eventually flows into the Little Blue River which flows in the Missouri River, a traditional navigable stream.

OHWM has:
☒clear, natural line on bank
☐shelving
☐veg. matted down or absent
☐leaf litter disturbed
☐ wrack line
☐scour
☐change in plant community
☐other:

Stream Condition/Stability:
☐excessive erosion
☐bank collapse
☐cut-off channels
☐riffles/runs
☒pools
☒exposed tree roots
☒steep side slopes
☒vegetated banks
☒stable stream channel
☐incised stream channel

Biological Function and Comments:

Upstream Photo: _____



Downstream Photo: _____



Date: 08/28/2020 Investigator(s): _____ 38.863426 -94.537224

Feature ID: Tributary 10

Unique Site ID: T10

Project name: Highway 150/Colorado Ave.

Project #: 020-2417

County, State: Jackson, Missouri

Stream Classification: ☐TNW ☐RPW ☒Non-RPW

Side Slopes: 1:1 ☐ ☒2:1 ☐3:1 ☐4:1 or >

Hydrology: ☐ Flowing ☐ Standing ☒ None

Water Color/Quality: ☐Clear ☐Discolored ☐Oily film

Stream Has: ☒Bed/Bank ☒OHWM:

Tributary Geometry: ☒Relatively Straight ☐Meandering

OHWM width: 1.5 ft. Top of bank to top of bank width: 15ft.

OHWM height: 0.5 ft. Top of Bank height: 5 ft.

Riparian Buffer Width: N/E side: 100 Ft.
S/W side: 100 Ft.

Buffer (adjacent bank) vegetation:
dogwood, bush honeysuckle

Stream Bottom Composition:
☒silt ☐concrete
☐sand ☐muck
☐gravel ☐other:
☐cobble ☐vegetation (% cover, type):
☐bedrock

Riparian Type:
☒ Forested
☐ Herbaceous
☐ Ag. Field
☐ _____

Surface Flow:
☒Discrete
☐Confined
☐Discrete and Confined
☐Overland Sheet Flow

Stream Characteristics: ☒Natural ☐Artificial ☐Manipulated
Explain Artificial/Manipulated:

Stream Type:
☐Perennial ☐Intermittent ☒Ephemeral ☐Draws/Gullies/Erosional Pattern

Stream Type Rational:
No flow and a channel that shows less development and no likely groundwater connection.

Significant Nexus: ☐ Yes ☒ No
Explain:
Ephemeral streams are not jurisdictional under the NWPR.

OHWM has:
☒clear, natural line on bank
☐shelving
☐veg. matted down or absent
☐leaf litter disturbed
☐ wrack line
☐scour
☒change in plant community
☐other:

Stream Condition/Stability:
☐excessive erosion
☐bank collapse
☐cut-off channels
☐riffles/runs
☐pools
☒exposed tree roots
☒steep side slopes
☒vegetated banks
☒stable stream channel
☐incised stream channel

Biological Function and Comments:

Upstream Photo:_____



Downstream Photo:_____



Date: 08/28/2020 Investigator(s): _____ 38.862787 -94.537224

Feature ID:	Tributary 11
Unique Site ID:	t11
Project name:	Highway 150/Colorado Ave.
Project #:	020-2417
County, State:	Jackson, Missouri

Stream Classification: ☐ TNW ☐ RPW ☒ Non-RPW

Side Slopes: 1:1 ☐ ☒ 2:1 ☐ 3:1 ☐ 4:1 or >

Hydrology: ☐ Flowing ☐ Standing ☒ None

Water Color/Quality: ☐ Clear ☐ Discolored ☐ Oily film

Stream Has: ☒ Bed/Bank ☒ OHWM:

Tributary Geometry: ☐ Relatively Straight ☒ Meandering

OHWM width:	1.0 ft.	Top of bank to top of bank width:	5 ft.
OHWM height:	0.5 ft.	Top of Bank height:	4 ft.
Riparian Buffer Width:		N/E side:	>50 Ft.
		S/W side:	>50 Ft.

Buffer (adjacent bank) vegetation:

Ragweed

Stream Bottom Composition:

☒ silt ☐ concrete
☐ sand ☐ muck
☐ gravel ☐ other:
☐ cobble ☐ vegetation (% cover, type):
☐ bedrock

Riparian Type:

☐ Forested
☒ Herbaceous
☐ Ag. Field
☐ _____

Surface Flow:

☒ Discrete
☐ Confined
☐ Discrete and Confined
☐ Overland Sheet Flow

Stream Characteristics: ☒ Natural ☐ Artificial ☐ Manipulated

Explain Artificial/Manipulated:

Stream Type:

☐ Perennial ☐ Intermittent ☒ Ephemeral ☐ Draws/Gullies/Erosional Pattern

Stream Type Rational:

No flow and a channel that shows less development and no likely groundwater connection.

Significant Nexus: ☐ Yes ☒ No

Explain:

Ephemeral streams are not jurisdictional under the NWPR.

OHWM has:

☒ clear, natural line on bank
☐ shelving
☐ veg. matted down or absent
☐ leaf litter disturbed
☐ wrack line
☐ scour
☐ change in plant community
☐ other:

Stream Condition/Stability:

☐ excessive erosion
☐ bank collapse
☐ cut-off channels
☐ riffles/runs
☐ pools
☐ exposed tree roots
☒ steep side slopes
☒ vegetated banks
☐ stable stream channel
☐ incised stream channel

Biological Function and Comments:

Upstream Photo: _____



Downstream Photo: _____



Date: 08/28/2020 Investigator(s): _____ 38.862213 -94.538978

Feature ID: Tributary 12

Unique Site ID: t12

Project name: Highway 150/Colorado Ave.

Project #: 020-2417

County, State: Jackson, Missouri

Stream Classification: ☐TNW ☐RPW ☒Non-RPW

Side Slopes: 1:1 ☐ ☒2:1 ☐3:1 ☐4:1 or >

Hydrology: ☐ Flowing ☐ Standing ☒ None

Water Color/Quality: ☐Clear ☐Discolored ☐Oily film

Stream Has: ☒Bed/Bank ☒OHWM:

Tributary Geometry: ☒Relatively Straight ☐Meandering

OHWM width: 2 ft. Top of bank to top of bank width: 6 ft.

OHWM height: 0.5 ft Top of Bank height: 5 ft.

Riparian Buffer Width: N/E side: >50 Ft.

S/W side: Ft.

Buffer (adjacent bank) vegetation:

American elm, bush honeysuckle

Stream Bottom Composition:

☒silt ☐concrete
☐sand ☐muck
☐gravel ☐other:
☐cobble ☐vegetation (% cover, type):
☐bedrock

Riparian Type:

☒ Forested
☐ Herbaceous
☐ Ag. Field
☐ _____

Surface Flow:

☐Discrete
☐Confined
☒Discrete and Confined
☐Overland Sheet Flow

Stream Characteristics: ☒Natural ☐Artificial ☐Manipulated

Explain Artificial/Manipulated:

Stream Type:

☐Perennial ☐Intermittent ☒Ephemeral ☐Draws/Gullies/Erosional Pattern

Stream Type Rational:

No flow and a channel that shows less development and no likely groundwater connection.

Significant Nexus: ☐ Yes ☒ No

Explain:

Ephemeral streams are not jurisdictional under the NWPR.

OHWM has:

☒clear, natural line on bank
☐shelving
☐veg. matted down or absent
☐leaf litter disturbed
☐ wrack line
☐scour
☒change in plant community
☐other:

Stream Condition/Stability:

☐excessive erosion
☐bank collapse
☐cut-off channels
☐riffles/runs
☐pools
☒exposed tree roots
☒steep side slopes
☒vegetated banks
☐stable stream channel
☐incised stream channel

Biological Function and Comments:

Upstream Photo: _____



Downstream Photo: _____



Date: 08/28/2020 Investigator(s): _____ 38.862801 -94.536896

Feature ID: Tributary 13
Unique Site ID: t13
Project name: Highway 150/Colorado Ave.
Project #: 020-2417
County, State: Jackson, Missouri
Stream Classification: ☐TNW ☐RPW ☒Non-RPW
Side Slopes: 1:1 ☐ ☐2:1 ☒3:1 ☐4:1 or >
Hydrology: ☐ Flowing ☐ Standing ☒ None
Water Color/Quality: ☐Clear ☐Discolored ☐Oily film
Stream Has: ☒Bed/Bank ☒OHWM:
Tributary Geometry: ☒Relatively Straight ☐Meandering

OHWM width: 3 ft. Top of bank to top of bank width: 5ft.
OHWM height: 1 ft. Top of Bank height: 8 ft.
Riparian Buffer Width: N/E side: >50 Ft.
S/W side: >50 Ft.
Buffer (adjacent bank) vegetation:

Stream Bottom Composition:
☒silt ☐concrete
☐sand ☐muck
☐gravel ☐other:
☐cobble ☐vegetation (% cover, type):
☐bedrock

Riparian Type:
☐ Forested
☐ Herbaceous
☐ Ag. Field
☐ _____

Surface Flow:
☐Discrete
☐Confined
☒Discrete and Confined
☐Overland Sheet Flow

Stream Characteristics: ☒Natural ☐Artificial ☐Manipulated
Explain Artificial/Manipulated:

Stream Type:
☐Perennial ☐Intermittent ☒Ephemeral ☐Draws/Gullies/Erosional Pattern
Stream Type Rational:
No flow and a channel that shows less development and no likely groundwater connection.

Significant Nexus: ☐ Yes ☒ No
Explain:
Ephemeral streams are not jurisdictional under the NWPR

OHWM has:
☐clear, natural line on bank
☐shelving
☒veg. matted down or absent
☐leaf litter disturbed
☐ wrack line
☐scour
☐change in plant community
☐other:

Stream Condition/Stability:
☐excessive erosion
☐bank collapse
☐cut-off channels
☐riffles/runs
☐pools
☒exposed tree roots
☐steep side slopes
☒vegetated banks
☒stable stream channel
☐incised stream channel

Biological Function and Comments:

Upstream Photo:_____ Downstream Photo: _____

Date: 09/02/2020 Investigator(s): _____ 38.862334 -94.536396

Feature ID: Tributary 14

Unique Site ID: T14

Project name: Highway 150/Colorado Ave.

Project #: 020-2417

County, State: Jackson, Missouri

Stream Classification: ☐TNW ☐RPW ☒Non-RPW

Side Slopes: 1:1 ☐ ☐2:1 ☐3:1 ☒4:1 or >

Hydrology: ☒ Flowing ☐ Standing ☐ None

Water Color/Quality: ☒Clear ☐Discolored ☐Oily film

Stream Has: ☒Bed/Bank ☒OHWM:

Tributary Geometry: ☒Relatively Straight ☐Meandering

OHWM width: 3 ft. Top of bank to top of bank width: 4 ft.

OHWM height: 0.5 ft. Top of Bank height: 1 ft.

Riparian Buffer Width: N/E side: >50 Ft.
S/W side: >50 Ft.

Buffer (adjacent bank) vegetation:
Bush honeysuckle

Stream Bottom Composition:
☒silt ☐concrete
☐sand ☐muck
☐gravel ☐other:
☐cobble ☐vegetation (% cover, type):
☐bedrock

Riparian Type:
☒ Forested
☐ Herbaceous
☐ Ag. Field
☐ _____

Surface Flow:
☒Discrete
☐Confined
☐Discrete and Confined
☐Overland Sheet Flow

Stream Characteristics: ☒Natural ☐Artificial ☐Manipulated
Explain Artificial/Manipulated:

Stream Type:
☐Perennial ☐Intermittent ☒Ephemeral ☐Draws/Gullies/Erosional Pattern

Stream Type Rational:
A trickle of water from rainfall within the previous 3 days suggests that this is ephemeral.

Significant Nexus: ☐ Yes ☒ No
Explain:
Ephemeral streams are not jurisdictional under the NWPR.

OHWM has:
☒clear, natural line on bank
☐shelving
☐veg. matted down or absent
☐leaf litter disturbed
☐ wrack line
☐scour
☐change in plant community
☐other:

Stream Condition/Stability:
☐excessive erosion
☐bank collapse
☐cut-off channels
☐riffles/runs
☐pools
☐exposed tree roots
☐steep side slopes
☒vegetated banks
☒stable stream channel
☐incised stream channel

Biological Function and Comments:

Upstream Photo: _____



Downstream Photo: _____



Date: 09/02/2020 Investigator(s): _____ 38.862849 -94.536525

Feature ID: Tributary 15

Unique Site ID: t15

Project name: Highway 150/Colorado Ave.

Project #: 020-2417

County, State: Jackson, Missouri

Stream Classification: ☐TNW ☐RPW ☒Non-RPW

Side Slopes: 1:1 ☐ ☐2:1 ☒3:1 ☐4:1 or >

Hydrology: ☐ Flowing ☐ Standing ☒ None

Water Color/Quality: ☐Clear ☐Discolored ☐Oily film

Stream Has: ☒Bed/Bank ☒OHWM:

Tributary Geometry: ☒Relatively Straight ☐Meandering

OHWM width: 1.5 ft. Top of bank to top of bank width: 3 ft.

OHWM height: 0.5 Top of Bank height: 5 ft.

Riparian Buffer Width: N/E side: >50 Ft.
S/W side: >50 Ft.

Buffer (adjacent bank) vegetation:
elm, hackberry, bush honeysuckle

Stream Bottom Composition:
☒silt ☐concrete
☐sand ☐muck
☐gravel ☐other:
☐cobble ☐vegetation (% cover, type):
☐bedrock

Riparian Type:
☒ Forested
☐ Herbaceous
☐ Ag. Field
☐ _____

Surface Flow:
☒Discrete
☐Confined
☐Discrete and Confined
☐Overland Sheet Flow

Stream Characteristics: ☒Natural ☐Artificial ☐Manipulated
Explain Artificial/Manipulated:

Stream Type:
☐Perennial ☐Intermittent ☒Ephemeral ☐Draws/Gullies/Erosional Pattern

Stream Type Rational:
No flow and a channel that shows less development and no likely groundwater connection.

Significant Nexus: ☐ Yes ☒ No
Explain:
Ephemeral streams are not jurisdictional under the NWPR.

OHWM has:
☒clear, natural line on bank ☐ wrack line
☐shelving ☐scour
☐veg. matted down or absent ☐change in plant community
☐leaf litter disturbed ☐other:

Stream Condition/Stability:
☐excessive erosion ☒exposed tree roots
☐bank collapse ☐steep side slopes
☐cut-off channels ☐vegetated banks
☐riffles/runs ☐stable stream channel
☐pools ☒incised stream channel

Biological Function and Comments:

Upstream Photo: _____



Downstream Photo: _____



Date: 09/02/2020 Investigator(s): _____ 38.863074 -94.536486

Feature ID: Tributary 16

Unique Site ID: t6

Project name: Highway 150/Colorado Ave.

Project #: 020-2417

County, State: Highway 150/Colorado Ave.

Stream Classification: ☐TNW ☐RPW ☒Non-RPW

Side Slopes: 1:1 ☐ ☒2:1 ☐3:1 ☐4:1 or >

Hydrology: ☐ Flowing ☐ Standing ☒ None

Water Color/Quality: ☐Clear ☐Discolored ☐Oily film

Stream Has: ☒Bed/Bank ☒OHWM:

Tributary Geometry: ☒Relatively Straight ☐Meandering

OHWM width: 2.5 ft. Top of bank to top of bank width: 4 ft.

OHWM height: 0.5 ft. Top of Bank height: 3 ft.

Riparian Buffer Width: N/E side: >50 Ft.
S/W side: >50 Ft.

Buffer (adjacent bank) vegetation:
Hackberry, bush honeysuckle

Stream Bottom Composition:
☒silt ☐concrete
☐sand ☐muck
☐gravel ☐other:
☐cobble ☐vegetation (% cover, type):
☐bedrock

Riparian Type:
☒ Forested
☐ Herbaceous
☐ Ag. Field
☐ _____

Surface Flow:
☐Discrete
☐Confined
☒Discrete and Confined
☐Overland Sheet Flow

Stream Characteristics: ☒Natural ☐Artificial ☐Manipulated
Explain Artificial/Manipulated:

Stream Type:
☐Perennial ☐Intermittent ☒Ephemeral ☐Draws/Gullies/Erosional Pattern

Stream Type Rational:
No flow and a channel that shows less development and no likely groundwater connection.

Significant Nexus: ☐ Yes ☒ No
Explain:
Ephemeral streams are not jurisdictional under the NWPR.

OHWM has:
☒clear, natural line on bank
☐shelving
☐veg. matted down or absent
☒leaf litter disturbed
☐ wrack line
☐scour
☐change in plant community
☐other:

Stream Condition/Stability:
☐excessive erosion
☐bank collapse
☐cut-off channels
☐riffles/runs
☐pools
☒exposed tree roots
☐steep side slopes
☒vegetated banks
☒stable stream channel
☐incised stream channel

Biological Function and Comments:

Upstream Photo: _____



Downstream Photo: _____



Date: 09/02/2020 Investigator(s): _____ 38.862772 -94.536295

Feature ID: Tributary 17

Unique Site ID: t17

Project name: Highway 150/Colorado Ave.

Project #: 020-2417

County, State: Jackson, Missouri

Stream Classification: ☐TNW ☐RPW ☒Non-RPW

Side Slopes: 1:1 ☐ ☒2:1 ☐3:1 ☐4:1 or >

Hydrology: ☐ Flowing ☐ Standing ☒ None

Water Color/Quality: ☐Clear ☐Discolored ☐Oily film

Stream Has: ☒Bed/Bank ☒OHWM:

Tributary Geometry: ☐Relatively Straight ☐Meandering

OHWM width: 2. ft Top of bank to top of bank width: 15 ft

OHWM height: 0.5 ft Top of Bank height: 4ft.

Riparian Buffer Width: N/E side: >50 Ft.
S/W side: >50 Ft.

Buffer (adjacent bank) vegetation:
hackberry bush honeysuckle

Stream Bottom Composition:
☒silt ☐concrete
☐sand ☐muck
☐gravel ☐other:
☐cobble ☐vegetation (% cover, type):
☐bedrock

Riparian Type:
☒ Forested
☐ Herbaceous
☐ Ag. Field
☐ _____

Surface Flow:
☐Discrete
☐Confined
☒Discrete and Confined
☐Overland Sheet Flow

Stream Characteristics: ☒Natural ☐Artificial ☐Manipulated
Explain Artificial/Manipulated:

Stream Type:
☐Perennial ☐Intermittent ☒Ephemeral ☐Draws/Gullies/Erosional Pattern

Stream Type Rational:
No flow and a channel that shows less development and no likely groundwater connection.

Significant Nexus: ☐ Yes ☒ No
Explain:
Ephemeral streams are not jurisdictional under the NWPR.

OHWM has:
☒clear, natural line on bank
☐shelving
☐veg. matted down or absent
☐leaf litter disturbed
☐ wrack line
☐scour
☐change in plant community
☐other:

Stream Condition/Stability:
☐excessive erosion
☐bank collapse
☐cut-off channels
☐riffles/runs
☐pools
☒exposed tree roots
☐steep side slopes
☐vegetated banks
☐stable stream channel
☐incised stream channel

Biological Function and Comments:

Upstream Photo: _____



Downstream Photo: _____



Date: 8/25/2020 Investigator(s): _____ 38.864051 -94.531544

Feature ID: Tributary 18

Unique Site ID: T18

Project name: Highway 150/Colorado Ave.

Project #: 020-2417

County, State: Jackson, Missouri

Stream Classification: ☐TNW ☐RPW ☒Non-RPW

Side Slopes: 1:1 ☐ ☒2:1 ☐3:1 ☐4:1 or >

Hydrology: ☐ Flowing ☐ Standing ☒ None

Water Color/Quality: ☐Clear ☐Discolored ☐Oily film

Stream Has: ☒Bed/Bank ☒OHWM:

Tributary Geometry: ☐Relatively Straight ☒Meandering

OHWM width: 1ft Top of bank to top of bank width: 6ft

OHWM height: 6in Top of Bank height: 3ft

Riparian Buffer Width: N/E side: 100 Ft.
S/W side: 100 Ft.

Buffer (adjacent bank) vegetation:
Black walnut, hackberry, mulberry, honeysuckle, rye

Stream Bottom Composition:
☒silt ☐concrete
☐sand ☐muck
☐gravel ☐other:
☐cobble ☐vegetation (% cover, type):
☐bedrock

Riparian Type:
☒ Forested
☐ Herbaceous
☐ Ag. Field
☐ _____

Surface Flow:
☒Discrete
☐Confined
☐Discrete and Confined
☐Overland Sheet Flow

Stream Characteristics: ☒Natural ☐Artificial ☐Manipulated
Explain Artificial/Manipulated:

Stream Type:
☐Perennial ☐Intermittent ☒Ephemeral ☐Draws/Gullies/Erosional Pattern

Stream Type Rational:
No flow

Significant Nexus: ☐ Yes ☒ No
Explain:
Ephemeral streams are not jurisdictional under the NWPR.

OHWM has:
☒clear, natural line on bank
☐shelving
☐veg. matted down or absent
☐leaf litter disturbed
☐ wrack line
☐scour
☒change in plant community
☐other:

Stream Condition/Stability:
☐excessive erosion
☐bank collapse
☐cut-off channels
☐riffles/runs
☐pools
☒exposed tree roots
☒steep side slopes
☒vegetated banks
☒stable stream channel
☐incised stream channel

Biological Function and Comments:

Upstream Photo:_____



Downstream Photo:_____



APPENDIX D

Supplemental Data Forms

Site Identification: nw1

Vegetation: American elm, honey Locust, coralberry, honeysuckle, snakeroot

Soils: 10yr2/1 (0-16") no redox

Hydrology: Non-wetland upland

Latitude: 38.862647 Longitude: -94.532537

Comments:

Photo #1
East



Photo #2
South



Photo #3
West



Photo #4
North



Site Identification: nw2

Vegetation: Ragweed, barnyard grass, aster sp.

Soils: 10yr 2/2, no redox

Hydrology: drainage pattern

Latitude: 38.863798 Longitude: -94.538526

Comments: Did not meet all three criteria for a wetland.

Photo #1
North

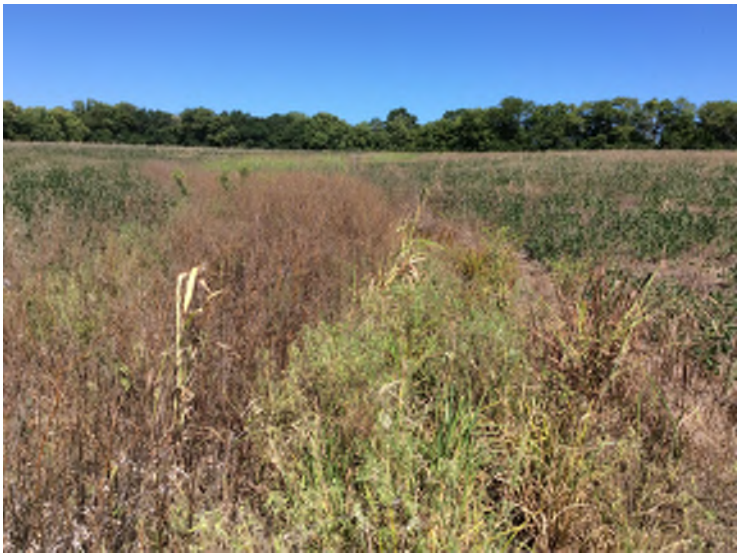


Photo #2
South



Photo #3
East



Photo #4
West



APPENDIX E

Photolog



Photo No.	1	Photo Dir.	N

Description: Entrance point of Tributary 5 into the Project area. Tributary 5 enters the Project area through a CMP that extends underneath MO 150.



Photo No.	2	Photo Dir.	N

Description: Photo showing the OHWM and bed and bank of Tributary 5.



Photo No.	3	Photo Dir.	S

Description: Tributary 5 showing OHWM and bed and bank.



Photo No.	4	Photo Dir.	N

Description: Tributary 5, showing the view upstream of the same location as Photo 3.



Photo No. 5	Photo Dir. N

Description: Tributary 5, showing an area of standing water.



Photo No. 6	Photo Dir. S

Description: Tributary 5, showing a downstream view of the same location as Photo 5



Photo No.	7	Photo Dir.	N

Description: Tributary 5, showing the stream's bed and bank.



Photo No.	8	Photo Dir.	N

Description: Tributary 5, showing OHWM and bed and bank.



Photo No.	9	Photo Dir.	SW

Description: View of Tributary 5 from an adjacent hilltop.



Photo No.	10	Photo Dir.	N

Description: Tributary 5 showing OHWM and bed and bank.

October 14, 2020

U.S. Army Corps of Engineers
Kansas City District: Regulatory Office
601 E. 12th Street, Room 402
Kansas City, MO 64106

Re: Request for Approved Jurisdictional Determination
Missouri 150 and Botts Road Project (Promontory 150 LLC)
Kansas City, Jackson County, Missouri

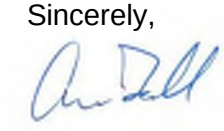
Dear Regulator:

Promontory 150 LLC (Promontory) retained Olsson to conduct a wetland delineation and stream assessment for the Promontory property of the 150 and Botts Road Project (Project). The proposed Project is located on the north side of Highway 150 and east of Botts Road in Kansas City, Jackson County, Missouri. The project center is located at 38.862589 degrees latitude and -94.543681 degrees longitude. Olsson has completed the wetland delineation and stream assessment and is now requesting an Approved Jurisdictional Determination (AJD) for the Project area. A signed AJD request form is attached to this letter.

Olsson conducted a wetland delineation and stream assessment of the Project area in August and September of 2020 and documented six palustrine emergent wetlands, one palustrine forested/ scrub-shrub wetland, two intermittent streams, and six ephemeral streams. Olsson's report, with associated data forms, figures, and photos, is included as an attachment to this letter. One of the identified streams (Tributary 6), was documented flowing from north to south in the Project area and was not depicted by any desktop resources (topographic map, NWI, or NHD). Photos of the stream are provided in the photolog appendix of the attached report. At the time of the field visits, Tributary 6 contained flowing water without recent rainfall. However, the channel was relatively narrow, lacked significant incision, and contained an ordinary high-water mark width more consistent with an ephemeral stream. Olsson reviewed surrounding land uses near the Project and determined that flow supplied to Tributary 6 is likely provided by discharge from a stormwater detention pond on a commercial property located directly north of the Project area. Groundwater does not appear to be a contributor to flow within this stream. Based on the source of flow, Olsson determined that Tributary 6 is an ephemeral stream. However, because of the borderline nature of the stream, Olsson is requesting concurrence from the USACE.

Please contact me if you have any questions about this submittal. I can be reached at 913.748.2575, or by email at aball@olsson.com.

Sincerely,



Aaron Ball
Olsson Senior Scientist

Enclosure

U.S. ARMY CORPS OF ENGINEERS

REQUEST FOR CORPS JURISDICTIONAL DETERMINATION

*__Authorities__: Rivers and Harbors Act, Section 10, 33 USC 403; Clean Water Act, Section 404, 33 USC 1344; Marine Protection, Research, and Sanctuaries Act, Section 103, 33 USC 1413; Regulatory Program of the U.S. Army Corps of Engineers; Final Rule for 33 CFR Parts 320-332. __Principal Purpose__: The information that you provide will be used in evaluating your request to determine whether there are any aquatic resources within the project area subject to federal jurisdiction under the regulatory authorities referenced above. __Routine Uses__: This information may be shared with the Department of Justice and other federal, state, and local government agencies, and the public, and may be made available as part of a public notice as required by federal law. Your name and property location where federal jurisdiction is to be determined will be included in the approved jurisdictional determination (AJD), which will be made available to the public on the District's website and on the Headquarters USACE website. __Disclosure__: Submission of requested information is voluntary; however, if information is not provided, the request for an AJD cannot be evaluated nor can an AJD be issued.

CORPS USE ONLY:
DATE RECEIVED:

PROJECT NO.:

1. PROPERTY LOCATION:

Street Address: Northeast of MO 150 and Botts Drive

City/Township/Parish: Kansas City

County: Jackson State: MO

Acreage of Parcel/Review Area for JD: 73

Section: 26 Township: 47N Range: 33W

Latitude: 38.862589 Longitude: -94.543681

(For linear projects, please include the center point of the proposed alignment.)

2.REQUESTOR CONTACT INFORMATION:

Typed or Printed Name: Aaron Ball

Company Name: Olsson

Street Address: 7301 W. 133rd St., Suite 200

City: Overland Park State: KS ZIP: 66213

Phone Number: (913) 748-2575

E-mail: aball@olsson.com

3. MAP: Please attach a survey/plat map and vicinity map identifying location and review area for the JD.

4. REASON FOR REQUEST (check as many as applicable):

- ☐ I intend to construct/develop a project or perform activities on this parcel which would be designed to avoid all aquatic resources.
- ☐ I intend to construct/develop a project or perform activities on this parcel which would be designed to avoid all jurisdictional aquatic resources under Corps authority.
- ☒ I intend to construct/develop a project or perform activities on this parcel which may require authorization from the Corps, and the JD would be used to avoid and minimize impacts to jurisdictional aquatic resources and as an initial step in a future permitting process.
- ☐ I intend to construct/develop a project or perform activities on this parcel which may require authorization from the Corps; this request is accompanied by my permit application and the JD is to be used in the permitting process.
- ☐ I intend to construct/develop a project or perform activities in a navigable water of the U.S. which is included on the district Section 10 list and/or is subject to the ebb and flow of the tide.
- ☐ A Corps JD is required in order to obtain my local/state authorization.
- ☐ I intend to contest jurisdiction over a particular aquatic resource and request the Corps confirm that jurisdiction does/does not exist over the aquatic resource on the parcel.
- ☐ I believe that the site may be comprised entirely of dry land.
- ☐ Other: _____

5. TYPE OF DETERMINATION BEING REQUESTED:

- ☒ I am requesting an approved JD.
- ☐ I am requesting a preliminary JD.
- ☐ I am requesting a “no permit required” letter as I believe my proposed activity is not regulated.
- ☐ I am unclear as to which JD I would like to request and require additional information to inform my decision.

6. OWNERSHIP DETAILS:

- ☐ I currently own this property.
- ☐ I plan to purchase this property.
- ☒ I am an agent/consultant acting on behalf of the requestor.
- ☐ Other (please explain:)

By signing below, you are indicating that you have the authority, or are acting as the duly authorized agent of a person or entity with such authority, to and do hereby grant Corps personnel right of entry to legally access the site if needed to perform the JD. Your signature shall be an affirmation that you possess the requisite property rights to request a JD on the subject property.

Signature: _____ Date: 10/14/2020

WETLAND DELINEATION AND STREAM ASSESSMENT REPORT

MISSOURI 150 AND BOTTS ROAD PROPERTY

Prepared for:
Promontory 150 LLC

October 2020

Olsson Project No: 019-1871

olsson

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APPENDICES

Appendix A Figures
Appendix B Wetland Data Forms: Midwest Region
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1. INTRODUCTION

Promontory 150 LLC (Promontory) retained Olsson to conduct a wetland delineation and stream assessment of the proposed infrastructure (Project) located on 73 acres on the northeast corner of Botts Road and Missouri Route 150 in Kansas City, Jackson County, Missouri (Appendix A, Figure 1). The latitude and longitude of the center of the Project is 38.862589 degrees north and -94.543681 degrees west, respectively. The Project is located in Section 26 of Township 47 North, Range 33 West (Appendix A, Figure 2).

The land types within the Project area include existing right-of-way (ROW), developed land, row crop agriculture, and undeveloped natural areas. The existing ROW areas were dominated by native and nonnative grasses and forbs including Indian grass (*Sorghastrum nutans*), sideoats grama (*Bouteloua curtipendula*), switchgrass (*Panicum virgatum*), tall fescue (*Schedonorus arundinaceus*), smooth brome (*Bromus inermis*), sunflowers (*Helianthus* spp.), clover (*Trifolium* sp.), goldenrod (*Solidago* spp.), and foxtails (various species). Wooded areas were dominated by deciduous trees and shrubs including common hackberry (*Celtis occidentalis*), American elm (*Ulmus americana*), black walnut (*Juglans nigra*), silver maple (*Acer saccharinum*), bush honeysuckle (*Lonicera maackii*), and coralberry (*Symphoricarpos orbiculatus*).

2. METHODS

2.1. Desktop Wetland and Stream Review

Olsson conducted a desktop review using publicly available data sources to identify locations in the Project area that were likely to contain wetlands or require stream assessments. The desktop review was followed by an on-site investigation by Olsson biologists. Resources used during the desktop review included the following:

- U.S. Geological Survey (USGS): 1:24,000 Topographic Map, 1991 Belton Missouri Quadrangles (USGS 1991)
- U.S. Fish and Wildlife Service (USFWS): National Wetlands Inventory (NWI) Map, Belton Missouri Quadrangle (USFWS 2019)
- Natural Resources Conservation Service (NRCS): Web Soil Survey, Jackson County Soils Survey Map
- Environmental Systems Research Institute (ESRI): Aerial Imagery (ESRI 2020)
- Google Earth: Historical Aerial Photographs (Google 2020)
- USGS: National Hydrography Dataset (NHD; USGS 2019)

The desktop review identified sites that warranted field surveys to document the presence or absence of wetlands and streams. Sample sites identified for review in the field are not necessarily wetlands; however, they are areas where wetland or stream indicators may be present. The field coverage was not limited or restricted by the desktop review.

2.2. Wetland Delineation

The wetland delineation was conducted per methodology outlined by the *Corps of Engineers Wetland Delineation Manual* (USACE 1987) and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region, Version 2.0* (USACE 2010).

Wetland delineations were performed for all sites that were composed of hydric vegetation, hydric soils, and wetland hydrology. The boundaries of these three indicators were determined and sufficient data was collected to aid the U.S. Army Corps of Engineers (USACE) in making a preliminary jurisdictional determination. Data required for each collection point at a sample site included the following:

- Midwest Region Version 2.0 worksheet
- GPS points (in and out) and wetland boundary shapefile
- Primary and secondary indicators of hydrology
- Vegetation indicators based on the 2016 National Wetland Plant List (Lichvar et al. 2016)
- Soil description based on a soil sample

All wetland data points are denoted with a “w” in Figure 6A and 6B (Appendix A) and in the wetland datasheets (Appendix B). The point where all three indicators exist is considered an *in point*. The wetland boundary exists where one or more of the three indicators is no longer present. A data collection point was collected outside the wetland boundary and identified as an *out point*, to document conditions outside the wetland. Geographic information system (GIS) data for a sample site included a polygon of the wetland boundary and GPS points for the in points and out points. Photographs were taken for each wetland to document conditions at the time of the survey and are included within each wetland datasheet.

2.3. Stream Assessment

Stream assessments were conducted to collect data to aid the USACE in making a preliminary jurisdictional determination of the stream reach. The assessments that were conducted were consistent with the Missouri Stream Mitigation Method (MSMM) for compensatory mitigation. Guidance for the stream assessments is contained in the *U.S. Army Corps of Engineers Jurisdictional Determination Form Instructional Guidebook* (USACE 2007) and the *State of Missouri Stream Mitigation Method* (USACE 2013).

Once a potential stream reach was located during the field survey, field teams collected assessment data using the stream assessment data form. All stream points are denoted with a "t" in figures 6A and 6B (Appendix A) and datasheets (Appendix C). These data forms assess the following aspects of the stream:

- Stream type: perennial, intermittent, or ephemeral
- Stream classification: traditional navigable water (TNW), relatively permanent waters (RPW), or non-relatively permanent waters (Non-RPW)
- Ordinary high-water mark (OHWM) characteristics
- Stream bottom composition
- Description of stream bank
- Natural, artificial, or manipulated stream characteristics
- Stream condition and stability
- Water characteristics: clear, discolored, flowing, or standing
- Riparian buffer vegetation and characteristics

Photos within the Stream Datasheets (Appendix C) and GPS points were taken to document stream conditions at the time of the survey.

3. SUMMARY OF FINDINGS

Mr. Jack Finley of Olsson collected data August 26 and 28, and September 2 and 26, 2020. Mr. Finley has received formal training in wetland delineations. Weather data for the Project area was summarized from the National Oceanic and Atmospheric Administration (NOAA) Record of Climatological Observations at the Overland Park, Kansas (Station number US1KSJO0053; NOAA 2020). No precipitation fell within the 10 days preceding the August visits, 2.27 inches fell in the 10 days prior to the September 2 visit, and no precipitation fell within the 10 days preceding the September 26 visit.

3.1. Desktop Wetland and Stream Review

U.S. Geological Survey Topographic Map

The USGS topographic map (Appendix A, Figure 2), indicates that relief within the Project area is hilly. Elevations range from approximately 970 feet above mean sea level (AMSL) in the thalweg of the two intermittent drainages that flow from west to east to 1,030 feet AMSL in the northwest corner of the Project area. The topographic map also suggests the presence of two smaller drainages that generally flow from the north and from the south into the intermittent

drainages. No open water features were indicated within the Project area by the topographic map.

Environmental Systems Research Institute Aerial Map

The aerial map (Appendix A, Figure 3) indicates that the Project area is a mixture of row crop agriculture, scattered woodlands, and riparian corridors. The areas surrounding the Project area are composed of commercial facilities to the north, south, and west, and agriculture or undeveloped land to the east. The two streams depicted in the topographic map correspond to wooded corridors in the aerial map.

National Wetlands Inventory and National Hydrography Dataset Map

The NHD (USGS 2019) indicates the presence of two unnamed intermittent stream segments (3,013 linear feet; [LF]) within the Project area (Appendix A, Figure 4). These streams correspond to the intermittent streams depicted in the topographic map. No perennial or ephemeral stream segments were specified by the NHD and no wetlands were indicated by the NWI (USFWS 2019) within the Project area.

Jackson County Soil Survey

Soil units with a soil matrix composed of greater than 60 percent of hydric inclusions are considered predominantly hydric.

The existence of predominantly hydric soils indicates the potential for an area that can support wetlands. According to the soil survey for Jackson County Missouri (NRCS 2020a; Appendix A, Figure 5), soils mapped within the Project area are as follows:

- 10117 Sampsel silty clay loam, 5 to 9 percent slopes
- 10120 Sharpsburg silt loam, 2 to 5 percent slopes
- 10122 Sharpsburg silt loam, 5 to 9 percent slopes, eroded
- 30080 Greenton silty clay loam; 5 to 9 percent slopes; 10 percent hydric inclusions
- 36083 Kennebec silt loam; 1 to 4 percent slopes; occasionally flooded; 3 percent hydric inclusions

According to the Jackson County soils list, the Project area is composed of predominately non-hydric soils

3.2. Wetland Delineation Results

The wetland delineation identified six palustrine emergent (PEM) wetlands, totaling 0.22 acre, and one palustrine scrub-shrub (PSS) wetland, totaling 0.04 acre, within the Project area. Based on the new Navigable Waters Protection Rule (NWPR) published in the Federal Register June 22, 2020 (EPA, 2020), three of the PEM wetlands (0.06 acre) are considered jurisdictional features because they are adjacent or abut an intermittent stream that ultimately flows to a TNW(the Missouri River). The three remaining PEM wetlands and the one PSS wetland

documented within the Project area are nonjurisdictional features under the NWPR. Delineated wetlands are depicted in figures 6A and 6B of Appendix A and data forms documenting these features are provided in Appendix B. Table 1 summarizes the wetland features documented in the Project area. Detailed descriptions of each feature follow Table 1.

Table 1. Wetland Delineation Summary.

Wetland ID	Data Point	Wetland Type[1]	Jurisdictional[2]	Size (acres)
Wetland 1	w1	PEM	Yes	< 0.01
Wetland 2	w2	PEM	Yes	0.02
Wetland 3	w3	PEM	Yes	0.04
Wetland 4	w4	PEM	No	0.11
Wetland 5	w5	PEM	No	0.02
Wetland 6	w6	PFO/PSS	No	0.04
Wetland 7	w7	PEM	No	0.03
			TOTAL ACRES	**0.26**
			JURISDICTIONAL ACRES	**0.16**

[1] PEM = Palustrine emergent wetland, PFO/PSS = Palustrine forested/Palustrine scrub-shrub
[2] Jurisdiction based on the June 22, 2020, Navigable Water Protection Rule (NWPR)

Jurisdictional PEM Wetlands (0.06 acre). Wetlands 1, 2, and 3 were documented as jurisdictional PEM wetlands because of their connections to an intermittent stream that is considered jurisdictional according to the NWPR. All three wetlands were dominated by bearded beggarticks (*Bidens aristosa*), broadleaf cattail (*Typha latifolia*), rough cocklebur (*Xanthium strumarium*), and sedges (*Carex* spp.). These wetlands meet the requirements of wetland soils and hydrology indicators.

Nonjurisdictional Emergent Wetlands (0.20 acre). Wetlands 4, 5, and 7 were documented as nonjurisdictional PEM wetlands according to the NWPR. All three wetlands lack a connection to a jurisdictional stream as defined by the NWPR. These three wetlands were dominated by rice cutgrass (*Leersia oryzoides*), bearded beggarticks, rough barnyard grass (*Echinochloa muricata*), and green ash (*Fraxinus pennsylvanica*). These wetlands meet the requirements of wetland soils and hydrology indicators.

Nonjurisdictional Forested/Scrub-shrub Wetlands (0.04 acre). Wetland 6 was documented as a nonjurisdictional PFO/PSS wetland because it receives hydrology from an ephemeral stream lacks a connection to a jurisdictional stream. This wetland was dominated by American

elm, ash-leaf maple (*Acer negundo*), and green ash. This wetland meets the requirements of wetland soils and hydrology indicators.

3.3. Stream Assessment Results

The stream assessment identified a total of eight stream reaches totaling 4,930 LF within the Project area. Six nonjurisdictional ephemeral streams totaling 1,751 LF and two jurisdictional intermittent streams totaling 3,179 LF were documented in the Project area. The two intermittent streams were also indicated by NHD data and topographic maps. No perennial streams were present. Under the new NWPR, only intermittent and perennial streams are considered jurisdictional.

All documented ephemeral streams generally flow from the north or south into the intermittent streams, which flow from west to east before coalescing outside the Project area. These unnamed intermittent streams eventually flow into the Little Blue River and ultimately into the Missouri River, a TNW. Stream assessment data forms are provided in Appendix C, and Table 2 below details each stream reach.

Table 2. Stream Assessment Summary.

Feature ID	Data Points	Stream Type	Stream Length within Project area (linear feet)	Jurisdictional*
Tributary 1	t1	Intermittent	1,775	Yes
Tributary 2	t2	Ephemeral	192	No
Tributary 3	t3	Ephemeral	155	No
Tributary 4	t4	Ephemeral	149	No
Tributary 5	t5	Ephemeral	62	No
Tributary 6	t6	Ephemeral	1,141	No
Tributary 7	t7	Ephemeral	52	No
Tributary 8	t8	Intermittent	1,404	Yes
		TOTAL LENGTH	**4,930**	
		JURISDICTIONAL LENGTH	**3,179**	

* Jurisdiction based on the June 22, 2020, Navigable Water Protection Rule (NWPR)

4. CONCLUSIONS

The wetland delineation and stream assessment evaluated the 73-acre Project area which included the existing right-of-way (ROW), developed land, row crop agriculture, and undeveloped natural areas. The field study identified six PEM wetlands, one PSS wetland, six ephemeral streams, and two intermittent streams within the Project Area. **Of the identified features, 0.06 acre of PEM wetlands and 3,179 LF of intermittent stream are likely considered jurisdictional under the new Navigable Water Protection Rule because of their downstream connection to the Missouri River.** Impacts to any of the jurisdictional features will require coordination with the USACE under Section 404 of the Clean Water Act.

5. REFERENCES

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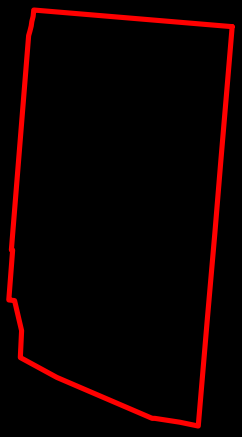
USGS (U.S. Geological Survey). 1991. 1:24,000 Topographic Map, 1991 Belton Missouri Quadrangle.

USGS 2019. National Hydrography Dataset.

APPENDIX A

Figures





Legend

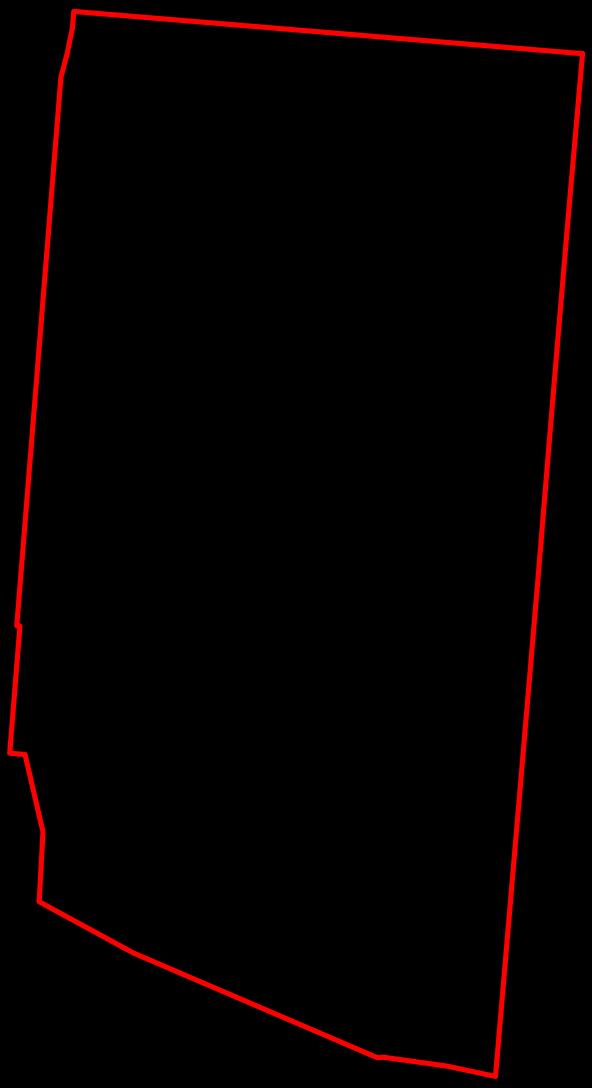
Project Area

0 500 1,000 2,000 Feet

Project Number: 019-1871 *Drawn By: JF* *Revision Date: 9/25/2020*	**Location Map** Promontory 150 LLC Botts Road and MO-150 Highway Kansas City, Missouri	DISCLAIMER : This Geographic Information System (GIS) and its components are designed as a source of reference for answering inquiries, for planning and for modeling. GIS is not intended, nor does it replace legal description information in the chain of title and other information contained in official government records such as the County Clerk and Recorders office or the courts. In addition, the representations of locations in this GIS cannot be substituted for actual legal surveys.	7301 W. 133rd Street Suite 200 Overland Park, Kansas 66213 P: 913.381.1170 F: 913.381.1174	Figure **1**

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S26, T47N, R33W



Legend

Project Area

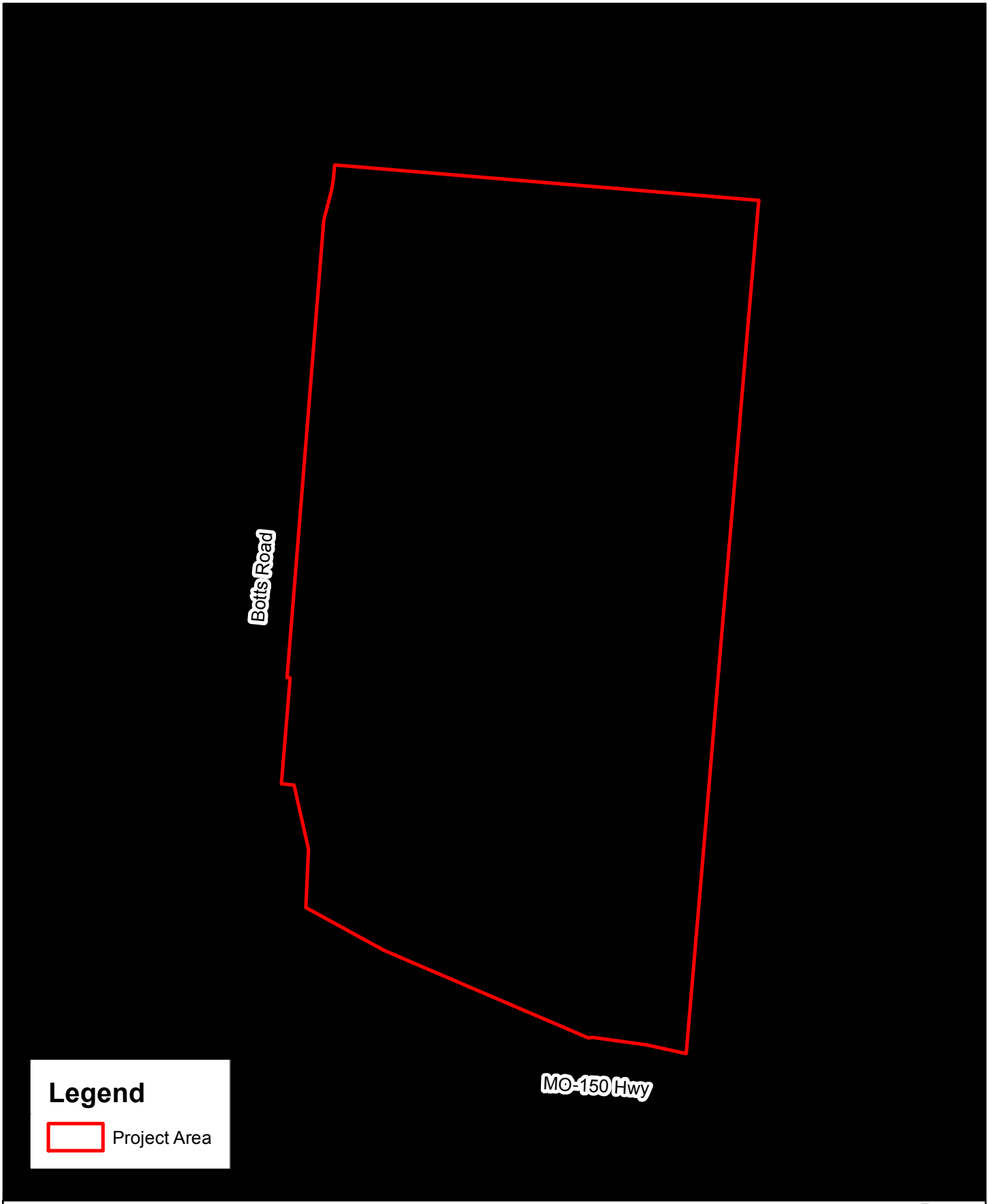
N

0 500 1,000 Feet

Project Number: 019-1871 *Drawn By: JF* *Revision Date: 9/25/2020*	**Topographic Map** Promontory 150 LLC Botts Road and MO-150 Highway Kansas City, Missouri	DISCLAIMER : This Geographic Information System (GIS) and its components are designed as a source of reference for answering inquiries, for planning and for modeling. GIS is not intended, nor does it replace legal description information in the chain of title and other information contained in official government records such as the County Clerk and Recorders office or the courts. In addition, the representations of locations in this GIS cannot be substituted for actual legal surveys.	7301 W. 133rd Street Suite 200 Overland Park, Kansas 66213 P: 913.381.1170 F: 913.381.1174	Figure **2**

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Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



Project Number: 019-1871 *Drawn By: JF* *Revision Date: 9/25/2020*	**Aerial Map** Promontory 150 LLC Botts Road and MO-150 Highway Kansas City, Missouri	DISCLAIMER : This Geographic Information System (GIS) and its components are designed as a source of reference for answering inquiries, for planning and for modeling. GIS is not intended, nor does it replace legal description information in the chain of title and other information contained in official government records such as the County Clerk and Recorders office or the courts. In addition, the representations of locations in this GIS cannot be substituted for actual legal surveys.	7301 W. 133rd Street Suite 200 Overland Park, Kansas 66213 P: 913.381.1170 F: 913.381.1174	Figure **3**

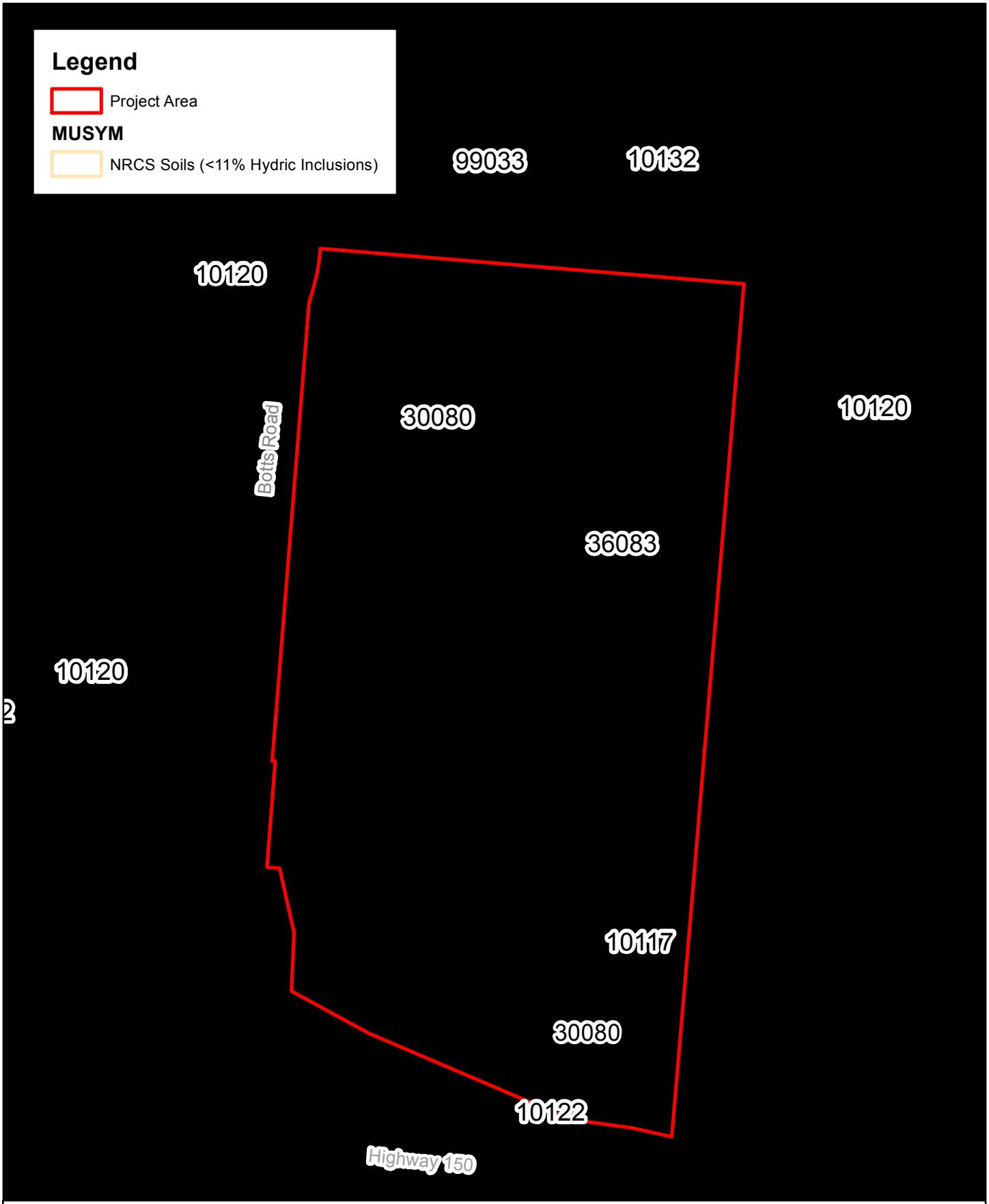


N

0 250 500 1,000 Feet

Project Number: 019-1871	**NWI and NHD Resources Map** Promontory 150 LLC Botts Road and MO-150 Highway Kansas City, Missouri	DISCLAIMER : This Geographic Information System (GIS) and its components are designed as a source of reference for answering inquiries, for planning and for modeling. GIS is not intended, nor does it replace legal description information in the chain of title and other information contained in official government records such as the County Clerk and Recorders office or the courts. In addition, the representations of locations in this GIS cannot be substituted for actual legal surveys.	7301 W. 133rd Street Suite 200 Overland Park, Kansas 66213 P: 913.381.1170 F: 913.381.1174	Figure
Drawn By: JF				
Revision Date: 9/25/2020				**4**

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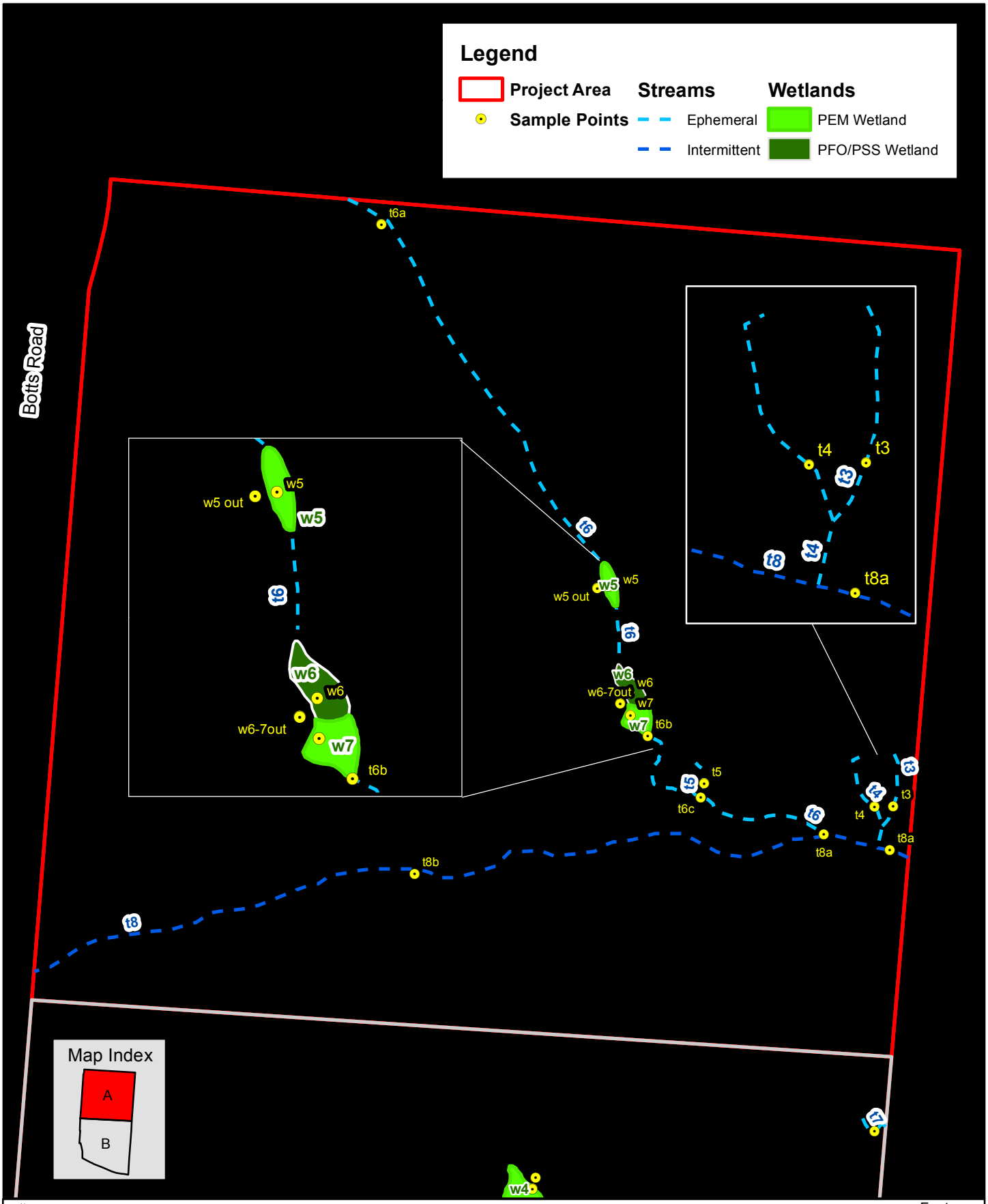


N

0 250 500 1,000 Feet

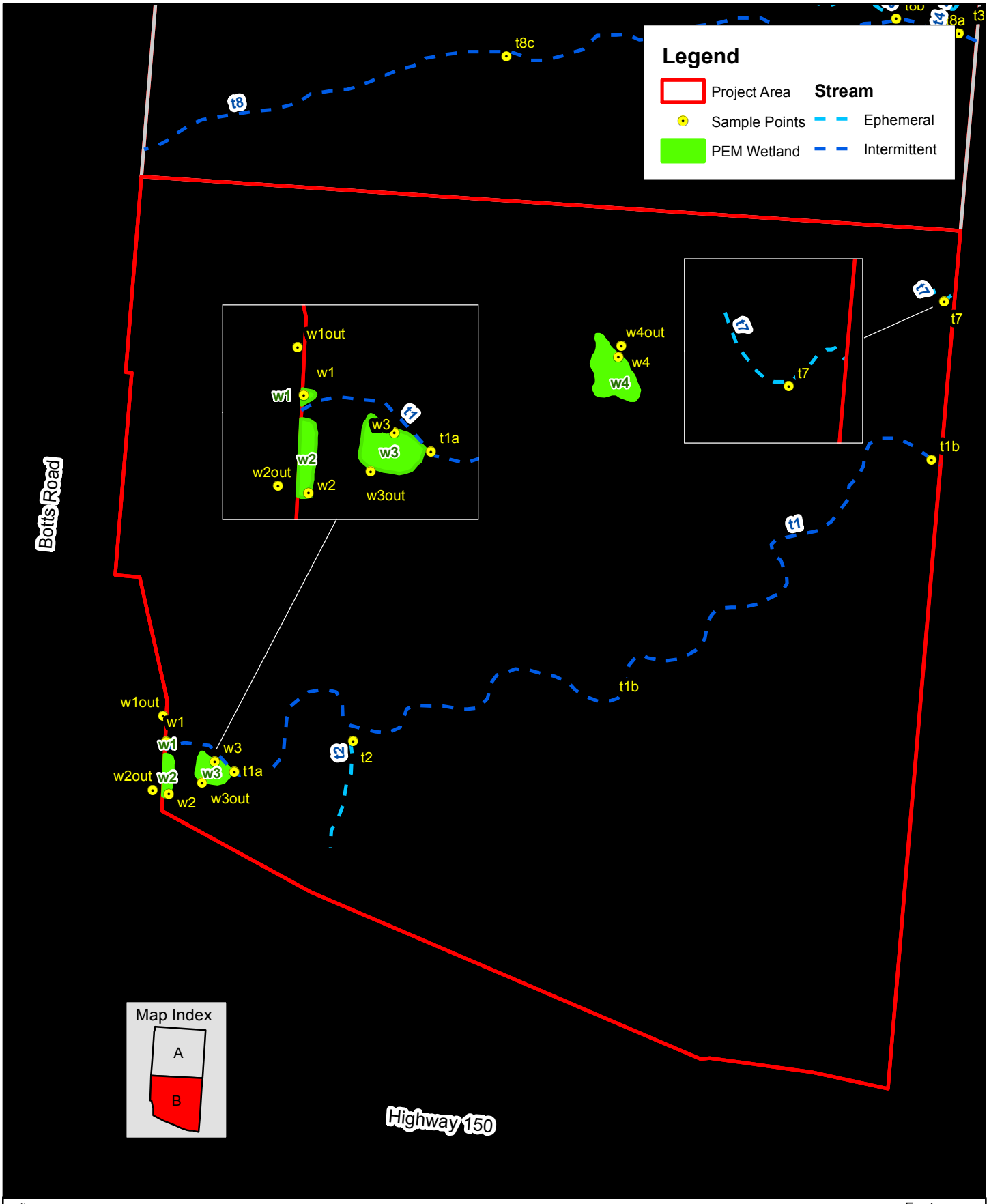
Project Number: 019-1871 *Drawn By: JF* *Revision Date: 10/6/2020*	**Soils Map** Promontory 150 LLC Botts Road and MO-150 Highway Kansas City, Missouri	DISCLAIMER : This Geographic Information System (GIS) and its components are designed as a source of reference for answering inquiries, for planning and for modeling. GIS is not intended, nor does it replace legal description information in the chain of title and other information contained in official government records such as the County Clerk and Recorders office or the courts. In addition, the representations of locations in this GIS cannot be substituted for actual legal surveys.	7301 W. 133rd Street Suite 200 Overland Park, Kansas 66213 P: 913.381.1170 F: 913.381.1174	Figure **5**

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Project Number: 019-1871 *Drawn By: JF* *Revision Date: 10/1/2020*	**Aquatic Resources** Promontory Property Botts Road and MO-150 Highway Kansas City, Missouri	DISCLAIMER : This Geographic Information System (GIS) and its components are designed as a source of reference for answering inquiries, for planning and for modeling. GIS is not intended, nor does it replace legal description information in the chain of title and other information contained in official government records such as the County Clerk and Recorders office or the courts. In addition, the representations of locations in this GIS cannot be substituted for actual legal surveys.	7301 W. 133rd Street Suite 200 Overland Park, Kansas 66213 P: 913.381.1170 F: 913.381.1174	Figure **6A**

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Project Number: 019-1871 *Drawn By: JF* *Revision Date: 10/1/2020*	**Aquatic Resources** Promontory Property Botts Road and MO-150 Highway Kansas City, Missouri	DISCLAIMER : This Geographic Information System (GIS) and its components are designed as a source of reference for answering inquiries, for planning and for modeling. GIS is not intended, nor does it replace legal description information in the chain of title and other information contained in official government records such as the County Clerk and Recorders office or the courts. In addition, the representations of locations in this GIS cannot be substituted for actual legal surveys.	7301 W. 133rd Street Suite 200 Overland Park, Kansas 66213 P: 913.381.1170 F: 913.381.1174	Figure **6B**

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APPENDIX B

Wetland Data Forms: Midwest Region

Wetland Determination Data Form - Midwest Region

Project/Site: HWY 150 and Botts Road | City/County: Grandview (Jackson Co.) | Sampling Date: 08/26/2020

Applicant/Owner: Promontory 150 LLC | State: MO | Sampling Point: w1

Investigator(s): Jack Finley | Section, Township, Range: S26 T47N R33W

Landform (hillslope, terrace, etc.): Drainageway | Local relief (concave, convex, none): Concave

Slope (%): 2-5% | Lat: 38.860278 | Long: -94.545930 | Datum: UTM83

Soil Map Unit Name: Kennebec silt loam, 1 to 4 percent slopes, occasionally flooded 3% | NWI classification: PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No ____	**Is the Sampled Area within a Wetland?**	**Yes X** **No ____**
Hydric Soil Present?	Yes X	No ____		
Wetland Hydrology Present?	Yes X	No ____		

Remarks:

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15 ft)			
1. Typha latifolia	80	X	OBL
2. Bidens frondosa	20	X	FACW
3.			
4.			
5.			
	100 = Total Cover		
Herb Stratum (Plot size: 5 ft)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	0 = Total Cover		
Woody Vine Stratum (Plot size: 30 ft)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	80	x 1 =	80
FACW species	20	x 2 =	40
FAC species	0	x 3 =	0
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals:	100 (A)		120 (B)

Prevalence Index = B/A = 1.20

Hydrophytic Vegetation Indicators:

X 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

X 3 - Prevalence Index is ≤3.0[1]

— 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

— Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes X** **No ____**

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: w1_

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Redox Features Type[1]	Redox Features Loc[2]	Texture	Remarks
0-10	Gley 5/2	20					Clay	
	10YR 3/2	70	5YR 3/4	10	C	M		

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- __ Histosol (A1)
- __ Histic Epipedon (A2)
- __ Black Histic (A3)
- __ Hydrogen Sulfide (A4)
- __ Stratified Layers (A5)
- __ 2 cm Muck (A10)
- __ Depleted Below Dark Surface (A11)
- __ Thick Dark Surface (A12)
- __ Sandy Mucky Mineral (S1)
- __ 5 cm Mucky Peat or Peat (S3)
- __ Sandy Gleyed Matrix (S4)
- __ Sandy Redox (S5)
- __ Stripped Matrix (S6)
- __ Loamy Mucky Mineral (F1)
- __ Loamy Gleyed Matrix (F2)
- __ Depleted Matrix (F3)
- X Redox Dark Surface (F6)
- __ Depleted Dark Surface (F7)
- __ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- __ Coast Prairie Redox (A16)
- __ Dark Surface (S7)
- __ Iron-Manganese Masses (F12)
- __ Very Shallow Dark Surface (TF12)
- __ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes X No _____

Remarks:
Disturbed soils could not be excavated below 10" due to rock.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- __ Surface Water (A1)
- __ High Water Table (A2)
- __ Saturation (A3)
- __ Water Marks (B1)
- __ Sediment Deposits (B2)
- __ Drift Deposits (B3)
- __ Algal Mat or Crust (B4)
- __ Iron Deposits (B5)
- __ Inundation Visible on Aerial Imagery (B7)
- __ Sparsely Vegetated Concave Surface (B8)
- __ Water-Stained Leaves (B9)
- __ Aquatic Fauna (B13)
- __ True Aquatic Plants (B14)
- __ Hydrogen Sulfide Odor (C1)
- __ Oxidized Rhizospheres on Living Roots (C3)
- __ Presence of Reduced Iron (C4)
- __ Recent Iron Reduction in Tilled Soils (C6)
- __ Thin Muck Surface (C7)
- __ Gauge or Well Data (D9)
- __ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- __ Surface Soil Cracks (B6)
- X Drainage Patterns (B10)
- __ Dry-Season Water Table (C2)
- __ Crayfish Burrows (C8)
- __ Saturation Visible on Aerial Imagery (C9)
- __ Stunted or Stressed Plants (D1)
- __ Geomorphic Position (D2)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes X	No _____	Depth (inches) _____	
Water Table Present?	Yes X	No _____	Depth (inches) _____	
Saturation Present? (includes capillary fringe)	Yes X	No _____	Depth (inches) _____	

Wetland Hydrology Present? Yes X No _____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Wetland Wetland 1 **Sample Point** w1

Longitude	Latitude
-94.545930	38.860278

Cowardin Classification: _____

Size: _____

Landform: Drainageway

Tree Stratum: _____

Sapling/Shrub: Typha latifolia Bidens frondosa

Herb Stratum: _____

Vine Stratum: _____

Hydric Soil Indicators: Redox Dark Surface (F6)

Hydrology Indicators: Drainage Patterns (B10) FAC-Neutral Test (D5)

Significant Nexus: Yes Adjacent: _____ Abuts: _____ Stream Name: _____

Jurisdictional Status and Comments:
Drains into the adjacent t1, an intermittent stream.

Photo 1



Photo 2



Photo 3



Photo 4



Wetland Determination Data Form - Midwest Region

Project/Site: HWY 150 and Botts Road | City/County: Grandview (Jackson Co.) | Sampling Date: 08/26/2020

Applicant/Owner: Promontory 150 LLC | State: MO | Sampling Point: w1out

Investigator(s): Jack Finley | Section, Township, Range: S26 T47N R33W

Landform (hillslope, terrace, etc.): Hillslope | Local relief (concave, convex, none): Convex

Slope (%): 10-15% | Lat: 38.860365 | Long: -94.545903 | Datum: UTM83

Soil Map Unit Name: Kennebec silt loam, 1 to 4 percent slopes, occasionally flooded | NWI classification: UPL

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No X	**Is the Sampled Area within a Wetland?**	**Yes** ____ **No** X
Hydric Soil Present?	Yes ____	No X		
Wetland Hydrology Present?	Yes ____	No X		

Remarks:

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15 ft)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Herb Stratum (Plot size: 5 ft)			
1. Sorghum halepense	100	X	FACU
2. Ambrosia artemisiifolia	10		FACU
3. Rubus sp.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	110 = Total Cover		
Woody Vine Stratum (Plot size: 30 ft)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 000% (A/B)

Prevalence Index worksheet:

	Total % Cover of:		Multiply by:
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	0	x 3 =	0
FACU species	110	x 4 =	440
UPL species	0	x 5 =	0
Column Totals:	110 (A)		440 (B)

Prevalence Index = B/A = 4.00

Hydrophytic Vegetation Indicators:

__ 1 - Rapid Test for Hydrophytic Vegetation

__ 2 - Dominance Test is >50%

__ 3 - Prevalence Index is ≤3.0[1]

__ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

__ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ____ No X

Remarks: (Include photo numbers here or on a separate sheet.)

Date: 09/26/2020 Investigator(s): _____ 38.863285 -94.544038

Feature ID: Tributary 6b

Unique Site ID: t6b

Project name: HWY 150 and Botts Road

Project #: 019-1871

County, State: Jackson Co., Missouri

Stream Classification: ☐TNW ☐RPW ☒Non-RPW

Side Slopes: 1:1 ☐ ☒2:1 ☐3:1 ☐4:1 or >

Hydrology: ☒ Flowing ☐ Standing ☐ None

Water Color/Quality: ☒Clear ☐Discolored ☐Oily film

Stream Has: ☒Bed/Bank ☒OHWM:

Tributary Geometry: ☒Relatively Straight ☐Meandering

OHWM width: 4' Top of bank to top of bank width: 25'

OHWM height: 0.75 Top of Bank height: 15'

Riparian Buffer Width: N/E side: 70 Ft.
S/W side: 45 Ft.

Buffer (adjacent bank) vegetation:
black willow, silver maple, bush honeysuckle.

Stream Bottom Composition:
☒silt ☐concrete
☐sand ☐muck
☐gravel ☐other:
☒cobble ☐vegetation (% cover, type):
☐bedrock

Riparian Type:
☒ Forested
☐ Herbaceous
☐ Ag. Field
☐ _____

Surface Flow:
☐Discrete
☐Confined
☒Discrete and Confined
☐Overland Sheet Flow

Stream Characteristics: ☒Natural ☐Artificial ☐Manipulated
Explain Artificial/Manipulated:

Stream Type:
☐Perennial ☒Intermittent ☐Ephemeral ☐Draws/Gullies/Erosional Pattern

Stream Type Rational:
Flowing water, well developed channel with a likely groundwater connection.

Significant Nexus: ☒ Yes ☐ No
Explain:
It eventually flows into the Little Blue River which flows in the Missouri River, a traditional navigable stream.

OHWM has:
☒clear, natural line on bank
☐shelving
☐veg. matted down or absent
☐leaf litter disturbed
☐ wrack line
☐scour
☐change in plant community
☐other:

Stream Condition/Stability:
☐excessive erosion
☐bank collapse
☐cut-off channels
☐riffles/runs
☐pools
☒exposed tree roots
☒steep side slopes
☒vegetated banks
☒stable stream channel
☐incised stream channel

Biological Function and Comments:

Upstream Photo: View west



Downstream Photo: View east



SOIL

Sampling Point: w1out

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- __ Histosol (A1)
- __ Histic Epipedon (A2)
- __ Black Histic (A3)
- __ Hydrogen Sulfide (A4)
- __ Stratified Layers (A5)
- __ 2 cm Muck (A10)
- __ Depleted Below Dark Surface (A11)
- __ Thick Dark Surface (A12)
- __ Sandy Mucky Mineral (S1)
- __ 5 cm Mucky Peat or Peat (S3)
- __ Sandy Gleyed Matrix (S4)
- __ Sandy Redox (S5)
- __ Stripped Matrix (S6)
- __ Loamy Mucky Mineral (F1)
- __ Loamy Gleyed Matrix (F2)
- __ Depleted Matrix (F3)
- __ Redox Dark Surface (F6)
- __ Depleted Dark Surface (F7)
- __ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- __ Coast Prairie Redox (A16)
- __ Dark Surface (S7)
- __ Iron-Manganese Masses (F12)
- __ Very Shallow Dark Surface (TF12)
- __ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks:
Disturbed rocky soils could not be excavated.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- __ Surface Water (A1)
- __ High Water Table (A2)
- __ Saturation (A3)
- __ Water Marks (B1)
- __ Sediment Deposits (B2)
- __ Drift Deposits (B3)
- __ Algal Mat or Crust (B4)
- __ Iron Deposits (B5)
- __ Inundation Visible on Aerial Imagery (B7)
- __ Sparsely Vegetated Concave Surface (B8)
- __ Water-Stained Leaves (B9)
- __ Aquatic Fauna (B13)
- __ True Aquatic Plants (B14)
- __ Hydrogen Sulfide Odor (C1)
- __ Oxidized Rhizospheres on Living Roots (C3)
- __ Presence of Reduced Iron (C4)
- __ Recent Iron Reduction in Tilled Soils (C6)
- __ Thin Muck Surface (C7)
- __ Gauge or Well Data (D9)
- __ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- __ Surface Soil Cracks (B6)
- __ Drainage Patterns (B10)
- __ Dry-Season Water Table (C2)
- __ Crayfish Burrows (C8)
- __ Saturation Visible on Aerial Imagery (C9)
- __ Stunted or Stressed Plants (D1)
- __ Geomorphic Position (D2)
- __ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes _____	No _____	Depth (inches) _____		
Water Table Present?	Yes _____	No _____	Depth (inches) _____		
Saturation Present? (includes capillary fringe)	Yes _____	No _____	Depth (inches) _____	**Wetland Hydrology Present?**	Yes _____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Wetland _____ **Sample Point** w1out

Longitude	Latitude
-94.545903	38.860365

Cowardin Classification: UPL

Size: _____

Landform: Hillslope

Tree Stratum: _____

Sapling/Shrub: _____

Herb Stratum: Sorghum halepense Ambrosia artemisiifolia Rubus sp.

Vine Stratum: _____

Hydric Soil Indicators: _____

Hydrology Indicators: _____

Significant Nexus: _____ Adjacent: _____ Abuts: _____ Stream Name: _____

Jurisdictional Status and Comments:

Photo 1



Photo 2



Photo 3



Photo 4



Wetland Determination Data Form - Midwest Region

Project/Site: HWY 150 and Botts Road | City/County: Grandview (Jackson Co.) | Sampling Date: 08/26/2020

Applicant/Owner: Promontory 150 LLC | State: MO | Sampling Point: w2

Investigator(s): Jack Finley | Section, Township, Range: S26 T47N R33W

Landform (hillslope, terrace, etc.): Drainageway | Local relief (concave, convex, none): Concave

Slope (%): 2-5% | Lat: 38.860022 | Long: -94.545863 | Datum: UTM83

Soil Map Unit Name: 10117 Sampsel silty clay loam, 5 to 9 percent slopes | NWI classification: PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No ____	
Hydric Soil Present?	Yes X	No ____	**Is the Sampled Area within a Wetland?** Yes X No ____
Wetland Hydrology Present?	Yes X	No ____	

Remarks:

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15 ft)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Herb Stratum (Plot size: 5 ft)			
1. Typha latifolia	100	X	OBL
2. Scirpus atrovirens	10		OBL
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	110 = Total Cover		
Woody Vine Stratum (Plot size: 30 ft)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	110	x 1 =	110
FACW species	0	x 2 =	0
FAC species	0	x 3 =	0
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals:	110 (A)		110 (B)

Prevalence Index = B/A = 1.00

Hydrophytic Vegetation Indicators:

X 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

X 3 - Prevalence Index is ≤3.0[1]

— 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

— Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No ____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: w2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Redox Features Type[1]	Redox Features Loc[2]	Texture	Remarks
0-6	2.5Y 2.5/1	100					Loam	
6-12	2.5Y 5/1	90	7.5YR 4/6	10	C	M	Clay	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- __ Histosol (A1)
- __ Histic Epipedon (A2)
- __ Black Histic (A3)
- __ Hydrogen Sulfide (A4)
- __ Stratified Layers (A5)
- __ 2 cm Muck (A10)
- __ Depleted Below Dark Surface (A11)
- __ Thick Dark Surface (A12)
- __ Sandy Mucky Mineral (S1)
- __ 5 cm Mucky Peat or Peat (S3)
- __ Sandy Gleyed Matrix (S4)
- __ Sandy Redox (S5)
- __ Stripped Matrix (S6)
- __ Loamy Mucky Mineral (F1)
- __ Loamy Gleyed Matrix (F2)
- X Depleted Matrix (F3)
- __ Redox Dark Surface (F6)
- __ Depleted Dark Surface (F7)
- __ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- __ Coast Prairie Redox (A16)
- __ Dark Surface (S7)
- __ Iron-Manganese Masses (F12)
- __ Very Shallow Dark Surface (TF12)
- __ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes X No _____

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- __ Surface Water (A1)
- __ High Water Table (A2)
- X Saturation (A3)
- __ Water Marks (B1)
- __ Sediment Deposits (B2)
- __ Drift Deposits (B3)
- __ Algal Mat or Crust (B4)
- __ Iron Deposits (B5)
- __ Inundation Visible on Aerial Imagery (B7)
- __ Sparsely Vegetated Concave Surface (B8)
- __ Water-Stained Leaves (B9)
- __ Aquatic Fauna (B13)
- __ True Aquatic Plants (B14)
- __ Hydrogen Sulfide Odor (C1)
- __ Oxidized Rhizospheres on Living Roots (C3)
- __ Presence of Reduced Iron (C4)
- __ Recent Iron Reduction in Tilled Soils (C6)
- __ Thin Muck Surface (C7)
- __ Gauge or Well Data (D9)
- __ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- __ Surface Soil Cracks (B6)
- X Drainage Patterns (B10)
- __ Dry-Season Water Table (C2)
- __ Crayfish Burrows (C8)
- __ Saturation Visible on Aerial Imagery (C9)
- __ Stunted or Stressed Plants (D1)
- __ Geomorphic Position (D2)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes	_____	No	X	Depth (inches) _____
Water Table Present?	Yes	_____	No	X	Depth (inches) _____
Saturation Present? (includes capillary fringe)	Yes	X	No	_____	Depth (inches) 0

Wetland Hydrology Present? Yes X No _____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Wetland Wetland 2 **Sample Point** w2

Longitude	Latitude
-94.545863	38.860022

Cowardin Classification:

Size:

Landform: Drainageway

Tree Stratum:

Sapling/Shrub:

Herb Stratum: Typha latifolia Scirpus atrovirens

Vine Stratum:

Hydric Soil Indicators: Depleted Matrix (F3)

Hydrology Indicators: Saturation (A3) Drainage Patterns (B10)

Significant Nexus: Yes Adjacent: Abuts: Stream Name:

Jurisdictional Status and Comments:
Drains into the adjacent t1, an intermittent stream.

Photo 1



Photo 2



Photo 3

Photo 4

Wetland Determination Data Form - Midwest Region

Project/Site: HWY 150 and Botts Road | City/County: Grandview (Jackson Co.) | Sampling Date: 08/26/2020

Applicant/Owner: Promontory 150 LLC | State: MO | Sampling Point: w2out

Investigator(s): Jack Finley | Section, Township, Range: S26 T47N R33W

Landform (hillslope, terrace, etc.): Hillslope | Local relief (concave, convex, none): Convex

Slope (%): 5-10% | Lat: 38.860038 | Long: -94.545955 | Datum: UTM83

Soil Map Unit Name: 10117 Sampsel silty clay loam, 5 to 9 percent slopes | NWI classification: UPL

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No X	**Is the Sampled Area within a Wetland?**	**Yes** ____ **No** X
Hydric Soil Present?	Yes ____	No X		
Wetland Hydrology Present?	Yes ____	No X		

Remarks:

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15 ft)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Herb Stratum (Plot size: 5 ft)			
1. Bouteloua curtipendula	40	X	UPL
2. Sorghastrum nutans	10		FACU
3. Sorghum halepense	30	X	FACU
4. Symphoricarpos orbiculatus	30	X	FACU
5.			
6.			
7.			
8.			
9.			
10.			
	110 = Total Cover		
Woody Vine Stratum (Plot size: 30 ft)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 000% (A/B)

Prevalence Index worksheet:

	Total % Cover of:		Multiply by:
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	0	x 3 =	0
FACU species	70	x 4 =	280
UPL species	40	x 5 =	200
Column Totals:	110 (A)		480 (B)

Prevalence Index = B/A = 4.36

Hydrophytic Vegetation Indicators:

- ____ 1 - Rapid Test for Hydrophytic Vegetation
- ____ 2 - Dominance Test is >50%
- ____ 3 - Prevalence Index is ≤3.0[1]
- ____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes** ____ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: w2out

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Redox Features Type[1]	Redox Features Loc[2]	Texture	Remarks
0-8	2.5Y 2/1	100					Clay	
8-12	2.5Y 3/1	70	2.5 YR 4/6	5	C	M	Clay	
	2.5Y 5/1	25						

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- __ Histosol (A1)
- __ Histic Epipedon (A2)
- __ Black Histic (A3)
- __ Hydrogen Sulfide (A4)
- __ Stratified Layers (A5)
- __ 2 cm Muck (A10)
- __ Depleted Below Dark Surface (A11)
- __ Thick Dark Surface (A12)
- __ Sandy Mucky Mineral (S1)
- __ 5 cm Mucky Peat or Peat (S3)
- __ Sandy Gleyed Matrix (S4)
- __ Sandy Redox (S5)
- __ Stripped Matrix (S6)
- __ Loamy Mucky Mineral (F1)
- __ Loamy Gleyed Matrix (F2)
- __ Depleted Matrix (F3)
- __ Redox Dark Surface (F6)
- __ Depleted Dark Surface (F7)
- __ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- __ Coast Prairie Redox (A16)
- __ Dark Surface (S7)
- __ Iron-Manganese Masses (F12)
- __ Very Shallow Dark Surface (TF12)
- __ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks:
Disturbed soil.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- __ Surface Water (A1)
- __ High Water Table (A2)
- __ Saturation (A3)
- __ Water Marks (B1)
- __ Sediment Deposits (B2)
- __ Drift Deposits (B3)
- __ Algal Mat or Crust (B4)
- __ Iron Deposits (B5)
- __ Inundation Visible on Aerial Imagery (B7)
- __ Sparsely Vegetated Concave Surface (B8)
- __ Water-Stained Leaves (B9)
- __ Aquatic Fauna (B13)
- __ True Aquatic Plants (B14)
- __ Hydrogen Sulfide Odor (C1)
- __ Oxidized Rhizospheres on Living Roots (C3)
- __ Presence of Reduced Iron (C4)
- __ Recent Iron Reduction in Tilled Soils (C6)
- __ Thin Muck Surface (C7)
- __ Gauge or Well Data (D9)
- __ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- __ Surface Soil Cracks (B6)
- __ Drainage Patterns (B10)
- __ Dry-Season Water Table (C2)
- __ Crayfish Burrows (C8)
- __ Saturation Visible on Aerial Imagery (C9)
- __ Stunted or Stressed Plants (D1)
- __ Geomorphic Position (D2)
- __ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes _____	No X	Depth (inches)	_____
Water Table Present?	Yes _____	No X	Depth (inches)	_____
Saturation Present? (includes capillary fringe)	Yes _____	No X	Depth (inches)	_____

Wetland Hydrology Present? Yes _____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Wetland _____ **Sample Point** w2out

Longitude	Latitude
-94.545955	38.860038

Cowardin Classification: UPL

Size: _____

Landform: Hillslope

Tree Stratum: _____

Sapling/Shrub: _____

Herb Stratum: Bouteloua curtipendula Sorghastrum nutans Sorghum halepense

Vine Stratum: _____

Hydric Soil Indicators: _____

Hydrology Indicators: _____

Significant Nexus: _____ Adjacent: _____ Abuts: _____ Stream Name: _____

Jurisdictional Status and Comments:

Photo 1



Photo 2



Photo 3



Photo 4



Wetland Determination Data Form - Midwest Region

Project/Site: HWY 150 and Botts Road | City/County: Grandview (Jackson Co.) | Sampling Date: 08/26/2020

Applicant/Owner: Promontory 150 LLC | State: MO | Sampling Point: w3

Investigator(s): Jack Finley | Section, Township, Range: S26 T47N R33W

Landform (hillslope, terrace, etc.): Drainageway | Local relief (concave, convex, none): Concave

Slope (%): 2-5% | Lat: 38.860167 | Long: -94.545609 | Datum: UTM83

Soil Map Unit Name: 36083 Kennebec silt loam, 1 to 4 percent slopes, occasionally floode | NWI classification: PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No ____	
Hydric Soil Present?	Yes X	No ____	**Is the Sampled Area within a Wetland?** Yes X No ____
Wetland Hydrology Present?	Yes X	No ____	

Remarks:

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15 ft)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Herb Stratum (Plot size: 5 ft)			
1. Typha latifolia	100	X	OBL
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	100 = Total Cover		
Woody Vine Stratum (Plot size: 30 ft)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	100	x 1 =	100
FACW species	0	x 2 =	0
FAC species	0	x 3 =	0
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals:	100 (A)		100 (B)

Prevalence Index = B/A = 1.00

Hydrophytic Vegetation Indicators:

- X 1 - Rapid Test for Hydrophytic Vegetation
- X 2 - Dominance Test is >50%
- X 3 - Prevalence Index is ≤3.0[1]
- ____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No ____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: w3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- __ Histosol (A1)
- __ Histic Epipedon (A2)
- __ Black Histic (A3)
- __ Hydrogen Sulfide (A4)
- __ Stratified Layers (A5)
- __ 2 cm Muck (A10)
- __ Depleted Below Dark Surface (A11)
- __ Thick Dark Surface (A12)
- __ Sandy Mucky Mineral (S1)
- __ 5 cm Mucky Peat or Peat (S3)
- __ Sandy Gleyed Matrix (S4)
- __ Sandy Redox (S5)
- __ Stripped Matrix (S6)
- __ Loamy Mucky Mineral (F1)
- __ Loamy Gleyed Matrix (F2)
- __ Depleted Matrix (F3)
- __ Redox Dark Surface (F6)
- __ Depleted Dark Surface (F7)
- __ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- __ Coast Prairie Redox (A16)
- __ Dark Surface (S7)
- __ Iron-Manganese Masses (F12)
- __ Very Shallow Dark Surface (TF12)
- __ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes X No _____

Remarks:
Soils inundated with water; hydric soil status assumed.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- X Surface Water (A1)
- X High Water Table (A2)
- X Saturation (A3)
- __ Water Marks (B1)
- __ Sediment Deposits (B2)
- __ Drift Deposits (B3)
- __ Algal Mat or Crust (B4)
- __ Iron Deposits (B5)
- __ Inundation Visible on Aerial Imagery (B7)
- __ Sparsely Vegetated Concave Surface (B8)
- __ Water-Stained Leaves (B9)
- __ Aquatic Fauna (B13)
- __ True Aquatic Plants (B14)
- __ Hydrogen Sulfide Odor (C1)
- __ Oxidized Rhizospheres on Living Roots (C3)
- __ Presence of Reduced Iron (C4)
- __ Recent Iron Reduction in Tilled Soils (C6)
- __ Thin Muck Surface (C7)
- __ Gauge or Well Data (D9)
- __ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- __ Surface Soil Cracks (B6)
- __ Drainage Patterns (B10)
- __ Dry-Season Water Table (C2)
- __ Crayfish Burrows (C8)
- __ Saturation Visible on Aerial Imagery (C9)
- __ Stunted or Stressed Plants (D1)
- X Geomorphic Position (D2)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes X	No _____	Depth (inches)	1
Water Table Present?	Yes X	No _____	Depth (inches)	0
Saturation Present? (includes capillary fringe)	Yes X	No _____	Depth (inches)	0

Wetland Hydrology Present? Yes X No _____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Wetland Wetland 3 **Sample Point** w3

Longitude	Latitude
-94.545609	38.860167

Cowardin Classification: PEM

Size:

Landform: Drainageway

Tree Stratum:

Sapling/Shrub:

Herb Stratum: Typha latifolia

Vine Stratum:

Hydric Soil Indicators: inundated

Hydrology Indicators: Surface Water (A1) Drainage Patterns (B10)

Significant Nexus: Yes Adjacent: Abuts: Stream Name:

Jurisdictional Status and Comments:
Drains into the adjacent t1, an intermittent stream.

Photo 1



Photo 2



Photo 3



Photo 4



Wetland Determination Data Form - Midwest Region

Project/Site: HWY 150 and Botts Road | City/County: Grandview (Jackson Co.) | Sampling Date: 08/26/2020

Applicant/Owner: Promontory 150 LLC | State: | Sampling Point: w3out

Investigator(s): Jack Finley | Section, Township, Range: S26 T47N R33W

Landform (hillslope, terrace, etc.): Hillslope | Local relief (concave, convex, none): Convex

Slope (%): 5-10% | Lat: 38.860075 | Long: -94.545678 | Datum: UTM83

Soil Map Unit Name: 36083 Kennebec silt loam, 1 to 4 percent slopes, occasionally floode | NWI classification: UPL

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes		No	X	
Hydric Soil Present?	Yes		No	X	**Is the Sampled Area within a Wetland?** Yes ____ No X
Wetland Hydrology Present?	Yes		No	X	

Remarks:

VEGETATION - Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status
Tree Stratum (Plot size: 30 ft)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15 ft)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Herb Stratum (Plot size: 5 ft)			
1. Solidago altissima	40	X	FACU
2. Daucus carota	40	X	UPL
3. Trifolium sp.	10		
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	90 = Total Cover		
Woody Vine Stratum (Plot size: 30 ft)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 000% (A/B)

Prevalence Index worksheet:

	Total % Cover of:		Multiply by:
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	0	x 3 =	0
FACU species	40	x 4 =	160
UPL species	40	x 5 =	200
Column Totals:	80 (A)		360 (B)

Prevalence Index = B/A = 4.50

Hydrophytic Vegetation Indicators:

- ____ 1 - Rapid Test for Hydrophytic Vegetation
- ____ 2 - Dominance Test is >50%
- ____ 3 - Prevalence Index is ≤3.0[1]
- ____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ____ No X

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: w3out

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- __ Histosol (A1)
- __ Histic Epipedon (A2)
- __ Black Histic (A3)
- __ Hydrogen Sulfide (A4)
- __ Stratified Layers (A5)
- __ 2 cm Muck (A10)
- __ Depleted Below Dark Surface (A11)
- __ Thick Dark Surface (A12)
- __ Sandy Mucky Mineral (S1)
- __ 5 cm Mucky Peat or Peat (S3)
- __ Sandy Gleyed Matrix (S4)
- __ Sandy Redox (S5)
- __ Stripped Matrix (S6)
- __ Loamy Mucky Mineral (F1)
- __ Loamy Gleyed Matrix (F2)
- __ Depleted Matrix (F3)
- __ Redox Dark Surface (F6)
- __ Depleted Dark Surface (F7)
- __ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- __ Coast Prairie Redox (A16)
- __ Dark Surface (S7)
- __ Iron-Manganese Masses (F12)
- __ Very Shallow Dark Surface (TF12)
- __ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ____ No X

Remarks:
Disturbed soil could not be excavated due to rock.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- __ Surface Water (A1)
- __ High Water Table (A2)
- __ Saturation (A3)
- __ Water Marks (B1)
- __ Sediment Deposits (B2)
- __ Drift Deposits (B3)
- __ Algal Mat or Crust (B4)
- __ Iron Deposits (B5)
- __ Inundation Visible on Aerial Imagery (B7)
- __ Sparsely Vegetated Concave Surface (B8)
- __ Water-Stained Leaves (B9)
- __ Aquatic Fauna (B13)
- __ True Aquatic Plants (B14)
- __ Hydrogen Sulfide Odor (C1)
- __ Oxidized Rhizospheres on Living Roots (C3)
- __ Presence of Reduced Iron (C4)
- __ Recent Iron Reduction in Tilled Soils (C6)
- __ Thin Muck Surface (C7)
- __ Gauge or Well Data (D9)
- __ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- __ Surface Soil Cracks (B6)
- __ Drainage Patterns (B10)
- __ Dry-Season Water Table (C2)
- __ Crayfish Burrows (C8)
- __ Saturation Visible on Aerial Imagery (C9)
- __ Stunted or Stressed Plants (D1)
- __ Geomorphic Position (D2)
- __ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches) ____		
Water Table Present?	Yes ____	No X	Depth (inches) ____		
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches) ____	**Wetland Hydrology Present?**	Yes ____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Wetland _____ **Sample Point** w3out

Longitude	Latitude
-94.545678	38.860075

Cowardin Classification: _____

Size: _____

Landform: Hillslope

Tree Stratum: _____

Sapling/Shrub: _____

Herb Stratum: Solidago altissima Daucus carota Trifolium sp.

Vine Stratum: _____

Hydric Soil Indicators: _____

Hydrology Indicators: _____

Significant Nexus: _____ Adjacent: _____ Abuts: _____ Stream Name: _____

Jurisdictional Status and Comments:

Photo 1



Photo 2



Photo 3



Photo 4



Wetland Determination Data Form - Midwest Region

Project/Site: HWY 150 and Botts Road | City/County: Grandview (Jackson Co.) | Sampling Date: 08/26/2020

Applicant/Owner: Promontory 150 LLC | State: MO | Sampling Point: w4

Investigator(s): Jack Finley | Section, Township, Range: S26 T47N R33W

Landform (hillslope, terrace, etc.): Depression | Local relief (concave, convex, none): Concave

Slope (%): 0-2% | Lat: 38.861975 | Long: -94.543380 | Datum: UTM83

Soil Map Unit Name: 30080 Greenton silty clay loam, 5 to 9 percent slopes | NWI classification: PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No ____	
Hydric Soil Present?	Yes X	No ____	**Is the Sampled Area within a Wetland?** Yes X No ____
Wetland Hydrology Present?	Yes X	No ____	

Remarks:

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15 ft)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Herb Stratum (Plot size: 5 ft)			
1. Cyperus esculentus	100	X	FACW
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	100 = Total Cover		
Woody Vine Stratum (Plot size: 30 ft)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	100	x 2 =	200
FAC species	0	x 3 =	0
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals:	100 (A)		200 (B)

Prevalence Index = B/A = 2.00

Hydrophytic Vegetation Indicators:

- X 1 - Rapid Test for Hydrophytic Vegetation
- X 2 - Dominance Test is >50%
- X 3 - Prevalence Index is ≤3.0[1]
- ____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No ____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: w4

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks
0-4	10YR 2/1	100					Silty Clay Loam	
4-8	Gley 1 4/10GY	40	5YR 4/6	10			Silty Clay Loam	
	Gley 6/10Y	50						

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- __ Histosol (A1)
- __ Histic Epipedon (A2)
- __ Black Histic (A3)
- __ Hydrogen Sulfide (A4)
- __ Stratified Layers (A5)
- __ 2 cm Muck (A10)
- __ Depleted Below Dark Surface (A11)
- __ Thick Dark Surface (A12)
- __ Sandy Mucky Mineral (S1)
- __ 5 cm Mucky Peat or Peat (S3)
- __ Sandy Gleyed Matrix (S4)
- __ Sandy Redox (S5)
- __ Stripped Matrix (S6)
- __ Loamy Mucky Mineral (F1)
- __ Loamy Gleyed Matrix (F2)
- __ Depleted Matrix (F3)
- X Redox Dark Surface (F6)
- __ Depleted Dark Surface (F7)
- __ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- __ Coast Prairie Redox (A16)
- __ Dark Surface (S7)
- __ Iron-Manganese Masses (F12)
- __ Very Shallow Dark Surface (TF12)
- __ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type:

Depth (inches):

Hydric Soil Present? Yes X No ____

Remarks:
Soils have been disturbed by construction in previous years.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- __ Surface Water (A1)
- __ High Water Table (A2)
- __ Saturation (A3)
- __ Water Marks (B1)
- __ Sediment Deposits (B2)
- __ Drift Deposits (B3)
- __ Algal Mat or Crust (B4)
- __ Iron Deposits (B5)
- __ Inundation Visible on Aerial Imagery (B7)
- __ Sparsely Vegetated Concave Surface (B8)
- __ Water-Stained Leaves (B9)
- __ Aquatic Fauna (B13)
- __ True Aquatic Plants (B14)
- __ Hydrogen Sulfide Odor (C1)
- __ Oxidized Rhizospheres on Living Roots (C3)
- __ Presence of Reduced Iron (C4)
- __ Recent Iron Reduction in Tilled Soils (C6)
- __ Thin Muck Surface (C7)
- __ Gauge or Well Data (D9)
- __ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- __ Surface Soil Cracks (B6)
- __ Drainage Patterns (B10)
- __ Dry-Season Water Table (C2)
- __ Crayfish Burrows (C8)
- __ Saturation Visible on Aerial Imagery (C9)
- __ Stunted or Stressed Plants (D1)
- X Geomorphic Position (D2)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ____ No ____ Depth (inches) ____

Water Table Present? Yes ____ No ____ Depth (inches) ____

Saturation Present? Yes ____ No ____ Depth (inches) ____

(includes capillary fringe)

Wetland Hydrology Present? Yes X No ____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Wetland Wetland 4 **Sample Point** w4

Longitude	Latitude
-94.543380	38.861975

Cowardin Classification: PEM

Size:

Landform: Depression

Tree Stratum:

Sapling/Shrub:

Herb Stratum: Cyperus esculentus

Vine Stratum:

Hydric Soil Indicators: Redox Dark Surface (F6)

Hydrology Indicators: Geomorphic Position (D2) FAC-Neutral Test (D5)

Significant Nexus: No Adjacent: Abuts: Stream Name:

Jurisdictional Status and Comments:

Wetland is located in the middle of a soybean field and is without connection to a stream.

Photo 1



Photo 2



Photo 3



Photo 4



Wetland Determination Data Form - Midwest Region

Project/Site: HWY 150 and Botts Road | City/County: Grandview (Jackson Co.) | Sampling Date: 08/26/2020

Applicant/Owner: Promontory 150 LLC | State: MO | Sampling Point: w4out

Investigator(s): Jack Finley | Section, Township, Range: S26 T47N R33W

Landform (hillslope, terrace, etc.): Hillslope | Local relief (concave, convex, none): Convex

Slope (%): 0-2% | Lat: 38.862023 | Long: -94.543364 | Datum: UTM83

Soil Map Unit Name: 30080 Greenton silty clay loam, 5 to 9 percent slopes | NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No X
Hydric Soil Present?	Yes ____	No X
Wetland Hydrology Present?	Yes ____	No X
Is the Sampled Area within a Wetland?	**Yes** ____	**No** X

Remarks:

VEGETATION - Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status
Tree Stratum (Plot size: 30 ft)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15 ft)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Herb Stratum (Plot size: 5 ft)			
1. Glycine max	40	X	
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	40 = Total Cover		
Woody Vine Stratum (Plot size: 30 ft)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 000% (A/B)

Prevalence Index worksheet:

	Total % Cover of:		Multiply by:
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	0	x 3 =	0
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals:	0 (A)		0 (B)

Prevalence Index = B/A = ____

Hydrophytic Vegetation Indicators:

- ____ 1 - Rapid Test for Hydrophytic Vegetation
- ____ 2 - Dominance Test is >50%
- ____ 3 - Prevalence Index is ≤3.0[1]
- ____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ____ No X

Remarks: (Include photo numbers here or on a separate sheet.)

Sample plot is located in a soybean field.

SOIL

Sampling Point: w4out

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks
0-4	10YR 2/1 100	100					Silty Clay Loam	
4-8	Gley 1 4/10GY	40	5YR 4/6	40			Silty Clay Loam	
	Gley 6/10Y	50						

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- __ Histosol (A1)
- __ Histic Epipedon (A2)
- __ Black Histic (A3)
- __ Hydrogen Sulfide (A4)
- __ Stratified Layers (A5)
- __ 2 cm Muck (A10)
- __ Depleted Below Dark Surface (A11)
- __ Thick Dark Surface (A12)
- __ Sandy Mucky Mineral (S1)
- __ 5 cm Mucky Peat or Peat (S3)
- __ Sandy Gleyed Matrix (S4)
- __ Sandy Redox (S5)
- __ Stripped Matrix (S6)
- __ Loamy Mucky Mineral (F1)
- __ Loamy Gleyed Matrix (F2)
- __ Depleted Matrix (F3)
- __ Redox Dark Surface (F6)
- __ Depleted Dark Surface (F7)
- __ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- __ Coast Prairie Redox (A16)
- __ Dark Surface (S7)
- __ Iron-Manganese Masses (F12)
- __ Very Shallow Dark Surface (TF12)
- __ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ____ No X

Remarks:
Soils are disturbed by former construction.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- __ Surface Water (A1)
- __ High Water Table (A2)
- __ Saturation (A3)
- __ Water Marks (B1)
- __ Sediment Deposits (B2)
- __ Drift Deposits (B3)
- __ Algal Mat or Crust (B4)
- __ Iron Deposits (B5)
- __ Inundation Visible on Aerial Imagery (B7)
- __ Sparsely Vegetated Concave Surface (B8)
- __ Water-Stained Leaves (B9)
- __ Aquatic Fauna (B13)
- __ True Aquatic Plants (B14)
- __ Hydrogen Sulfide Odor (C1)
- __ Oxidized Rhizospheres on Living Roots (C3)
- __ Presence of Reduced Iron (C4)
- __ Recent Iron Reduction in Tilled Soils (C6)
- __ Thin Muck Surface (C7)
- __ Gauge or Well Data (D9)
- __ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- __ Surface Soil Cracks (B6)
- __ Drainage Patterns (B10)
- __ Dry-Season Water Table (C2)
- __ Crayfish Burrows (C8)
- __ Saturation Visible on Aerial Imagery (C9)
- __ Stunted or Stressed Plants (D1)
- __ Geomorphic Position (D2)
- __ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches) ____	
Water Table Present?	Yes ____	No X	Depth (inches) ____	
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches) ____	

Wetland Hydrology Present? Yes ____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Wetland _____ **Sample Point** w4out

Longitude	Latitude
-94.543364	38.862023

Cowardin Classification: UPL

Size: _____

Landform: Hillslope

Tree Stratum: _____

Sapling/Shrub: _____

Herb Stratum: Glycine max

Vine Stratum: _____

Hydric Soil Indicators: Redox Dark Surface (F6)

Hydrology Indicators: _____

Significant Nexus: _____ Adjacent: _____ Abuts: _____ Stream Name: _____

Jurisdictional Status and Comments:

Photo 1



Photo 2



Photo 3



Photo 4



Wetland Determination Data Form - Midwest Region

Project/Site: HWY 150 and Botts Road | City/County: Grandview (Jackson Co.) | Sampling Date: 08/26/2020

Applicant/Owner: Promontory 150 LLC | State: MO | Sampling Point: w5

Investigator(s): Jack Finley | Section, Township, Range: S26 T47N R33W

Landform (hillslope, terrace, etc.): Drainageway | Local relief (concave, convex, none): Concave

Slope (%): 0-2% | Lat: 38.864501 | Long: -94.543027 | Datum: UTM83

Soil Map Unit Name: 30080 Greenton silty clay loam, 5 to 9 percent slopes | NWI classification: PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No ____	
Hydric Soil Present?	Yes X	No ____	**Is the Sampled Area within a Wetland?** Yes X No ____
Wetland Hydrology Present?	Yes X	No ____	

Remarks:

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15 ft)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Herb Stratum (Plot size: 5 ft)			
1. Leersia oryzoides	100	X	OBL
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	100 = Total Cover		
Woody Vine Stratum (Plot size: 30 ft)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	100	x 1 =	100
FACW species	0	x 2 =	0
FAC species	0	x 3 =	0
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals:	100 (A)		100 (B)

Prevalence Index = B/A = 1.00

Hydrophytic Vegetation Indicators:

- X 1 - Rapid Test for Hydrophytic Vegetation
- X 2 - Dominance Test is >50%
- X 3 - Prevalence Index is ≤3.0[1]
- ____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No ____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: w5

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- __ Histosol (A1)
- __ Histic Epipedon (A2)
- __ Black Histic (A3)
- __ Hydrogen Sulfide (A4)
- __ Stratified Layers (A5)
- __ 2 cm Muck (A10)
- __ Depleted Below Dark Surface (A11)
- __ Thick Dark Surface (A12)
- __ Sandy Mucky Mineral (S1)
- __ 5 cm Mucky Peat or Peat (S3)
- __ Sandy Gleyed Matrix (S4)
- __ Sandy Redox (S5)
- __ Stripped Matrix (S6)
- __ Loamy Mucky Mineral (F1)
- __ Loamy Gleyed Matrix (F2)
- __ Depleted Matrix (F3)
- __ Redox Dark Surface (F6)
- __ Depleted Dark Surface (F7)
- __ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- __ Coast Prairie Redox (A16)
- __ Dark Surface (S7)
- __ Iron-Manganese Masses (F12)
- __ Very Shallow Dark Surface (TF12)
- __ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type:

Depth (inches):

Hydric Soil Present? Yes X No __

Remarks:
Soils inundated, assumed hydric.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- X Surface Water (A1)
- X High Water Table (A2)
- X Saturation (A3)
- __ Water Marks (B1)
- __ Sediment Deposits (B2)
- __ Drift Deposits (B3)
- __ Algal Mat or Crust (B4)
- __ Iron Deposits (B5)
- __ Inundation Visible on Aerial Imagery (B7)
- __ Sparsely Vegetated Concave Surface (B8)
- __ Water-Stained Leaves (B9)
- __ Aquatic Fauna (B13)
- __ True Aquatic Plants (B14)
- __ Hydrogen Sulfide Odor (C1)
- __ Oxidized Rhizospheres on Living Roots (C3)
- __ Presence of Reduced Iron (C4)
- __ Recent Iron Reduction in Tilled Soils (C6)
- __ Thin Muck Surface (C7)
- __ Gauge or Well Data (D9)
- __ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- __ Surface Soil Cracks (B6)
- __ Drainage Patterns (B10)
- __ Dry-Season Water Table (C2)
- __ Crayfish Burrows (C8)
- __ Saturation Visible on Aerial Imagery (C9)
- __ Stunted or Stressed Plants (D1)
- X Geomorphic Position (D2)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes X	No __	Depth (inches)	2
Water Table Present?	Yes X	No __	Depth (inches)	0
Saturation Present? (includes capillary fringe)	Yes X	No __	Depth (inches)	0

Wetland Hydrology Present? Yes X No __

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Wetland Wetland 5 **Sample Point** w5

Longitude	Latitude
-94.543027	38.864501

Cowardin Classification: PEM

Size:

Landform: Drainageway

Tree Stratum:

Sapling/Shrub:

Herb Stratum: Leersia oryzoides

Vine Stratum:

Hydric Soil Indicators: Assumed hydric

Hydrology Indicators: Surface Water (A1) Saturation (A3)

Significant Nexus: No Adjacent: Abuts: Stream Name:

Jurisdictional Status and Comments:

Hydrology supplied by t6, an ephemeral drainage which is not jurisdictional under the NWPR.

Photo 1



Photo 2



Photo 3

Photo 4

Wetland Determination Data Form - Midwest Region

Project/Site: HWY 150 and Botts Road | City/County: Grandview (Jackson Co.) | Sampling Date: 09/02/2020

Applicant/Owner: Promontory 150 LLC | State: MO | Sampling Point: w5out

Investigator(s): Jack Finley | Section, Township, Range: S26 T47N R33W

Landform (hillslope, terrace, etc.): Drainageway | Local relief (concave, convex, none): Concave

Slope (%): 0-2% | Lat: 38.864492 | Long: -94.543088 | Datum: UTM83

Soil Map Unit Name: 30080 Greenton silty clay loam, 5 to 9 percent slopes | NWI classification: PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No X	**Is the Sampled Area within a Wetland?**	**Yes** ____ **No** X
Hydric Soil Present?	Yes ____	No X		
Wetland Hydrology Present?	Yes ____	No X		

Remarks:

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15 ft)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Herb Stratum (Plot size: 5 ft)			
1. Sorghum halepense	100	X	FACU
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	100 = Total Cover		
Woody Vine Stratum (Plot size: 30 ft)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 000% (A/B)

Prevalence Index worksheet:

	Total % Cover of:		Multiply by:
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	0	x 3 =	0
FACU species	100	x 4 =	400
UPL species	0	x 5 =	0
Column Totals:	100 (A)		400 (B)

Prevalence Index = B/A = 4.00

Hydrophytic Vegetation Indicators:

- ____ 1 - Rapid Test for Hydrophytic Vegetation
- ____ 2 - Dominance Test is >50%
- ____ 3 - Prevalence Index is ≤3.0[1]
- ____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes** ____ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: w5out

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Redox Features Type[1]	Redox Features Loc[2]	Texture	Remarks
0-16	10YR 2/1	100					loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- __ Histosol (A1)
- __ Histic Epipedon (A2)
- __ Black Histic (A3)
- __ Hydrogen Sulfide (A4)
- __ Stratified Layers (A5)
- __ 2 cm Muck (A10)
- __ Depleted Below Dark Surface (A11)
- __ Thick Dark Surface (A12)
- __ Sandy Mucky Mineral (S1)
- __ 5 cm Mucky Peat or Peat (S3)
- __ Sandy Gleyed Matrix (S4)
- __ Sandy Redox (S5)
- __ Stripped Matrix (S6)
- __ Loamy Mucky Mineral (F1)
- __ Loamy Gleyed Matrix (F2)
- __ Depleted Matrix (F3)
- __ Redox Dark Surface (F6)
- __ Depleted Dark Surface (F7)
- __ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- __ Coast Prairie Redox (A16)
- __ Dark Surface (S7)
- __ Iron-Manganese Masses (F12)
- __ Very Shallow Dark Surface (TF12)
- __ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ____ No X

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- __ Surface Water (A1)
- __ High Water Table (A2)
- __ Saturation (A3)
- __ Water Marks (B1)
- __ Sediment Deposits (B2)
- __ Drift Deposits (B3)
- __ Algal Mat or Crust (B4)
- __ Iron Deposits (B5)
- __ Inundation Visible on Aerial Imagery (B7)
- __ Sparsely Vegetated Concave Surface (B8)
- __ Water-Stained Leaves (B9)
- __ Aquatic Fauna (B13)
- __ True Aquatic Plants (B14)
- __ Hydrogen Sulfide Odor (C1)
- __ Oxidized Rhizospheres on Living Roots (C3)
- __ Presence of Reduced Iron (C4)
- __ Recent Iron Reduction in Tilled Soils (C6)
- __ Thin Muck Surface (C7)
- __ Gauge or Well Data (D9)
- __ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- __ Surface Soil Cracks (B6)
- __ Drainage Patterns (B10)
- __ Dry-Season Water Table (C2)
- __ Crayfish Burrows (C8)
- __ Saturation Visible on Aerial Imagery (C9)
- __ Stunted or Stressed Plants (D1)
- __ Geomorphic Position (D2)
- __ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches) ____	
Water Table Present?	Yes ____	No X	Depth (inches) ____	
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches) ____	

Wetland Hydrology Present? Yes ____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Wetland _____ **Sample Point** w5out

Longitude	Latitude
-94.543088	38.864492

Cowardin Classification: _____

Size: _____

Landform: Drainageway

Tree Stratum: _____

Sapling/Shrub: _____

Herb Stratum: Sorghum halepense

Vine Stratum: _____

Hydric Soil Indicators: _____

Hydrology Indicators: _____

Significant Nexus: _____ Adjacent: _____ Abuts: _____ Stream Name: _____

Jurisdictional Status and Comments:

Photo 1



Photo 2



Photo 3

Photo 4

Wetland Determination Data Form - Midwest Region

Project/Site: HWY 150 and Botts Road | City/County: Grandview (Jackson Co.) | Sampling Date: 09/02/2020

Applicant/Owner: Promontory 150 LLC | State: MO | Sampling Point: w6

Investigator(s): Jack Finley | Section, Township, Range: S26 T47N R33W

Landform (hillslope, terrace, etc.): Drainageway | Local relief (concave, convex, none): Concave

Slope (%): 0-2% | Lat: 38.864052 | Long: -94.542905 | Datum: UTM83

Soil Map Unit Name: 36083 Kennebec silt loam, 1 to 4 percent slopes, occasionally floode | NWI classification: PFO-PSS

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No ____	
Hydric Soil Present?	Yes X	No ____	**Is the Sampled Area within a Wetland?** Yes X No ____
Wetland Hydrology Present?	Yes X	No ____	

Remarks:

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status
1. Fraxinus pennsylvanica	20	X	FACW
2. Ulmus americana	40	X	FACW
3. Acer negundo	20	X	FAC
4. Gleditsia triacanthos	10		FACU
5.			
	90	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15 ft)			
1. Fraxinus pennsylvanica	60	X	FACW
2. Morus rubra	30	X	FACU
3.			
4.			
5.			
	90	= Total Cover	

Herb Stratum (Plot size: 5 ft)			
1. Persicaria punctata	20	X	OBL
2. Solidago gigantea	10	X	FACW
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	30	= Total Cover	

Woody Vine Stratum (Plot size: 30 ft)			
1.			
2.			
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 6 (A)

Total Number of Dominant Species Across All Strata: 7 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 86% (A/B)

Prevalence Index worksheet:

	Total % Cover of:		Multiply by:
OBL species	20	x 1 =	20
FACW species	130	x 2 =	260
FAC species	20	x 3 =	60
FACU species	40	x 4 =	160
UPL species	0	x 5 =	0
Column Totals:	210 (A)		500 (B)

Prevalence Index = B/A = 2.38

Hydrophytic Vegetation Indicators:

- ____ 1 - Rapid Test for Hydrophytic Vegetation
- X 2 - Dominance Test is >50%
- X 3 - Prevalence Index is ≤3.0[1]
- ____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No ____

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: w6

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- __ Histosol (A1)
- __ Histic Epipedon (A2)
- __ Black Histic (A3)
- __ Hydrogen Sulfide (A4)
- __ Stratified Layers (A5)
- __ 2 cm Muck (A10)
- __ Depleted Below Dark Surface (A11)
- __ Thick Dark Surface (A12)
- __ Sandy Mucky Mineral (S1)
- __ 5 cm Mucky Peat or Peat (S3)
- __ Sandy Gleyed Matrix (S4)
- __ Sandy Redox (S5)
- __ Stripped Matrix (S6)
- __ Loamy Mucky Mineral (F1)
- __ Loamy Gleyed Matrix (F2)
- __ Depleted Matrix (F3)
- __ Redox Dark Surface (F6)
- __ Depleted Dark Surface (F7)
- __ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- __ Coast Prairie Redox (A16)
- __ Dark Surface (S7)
- __ Iron-Manganese Masses (F12)
- __ Very Shallow Dark Surface (TF12)
- __ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes X No ____

Remarks:
Soil inundated, assumed hydric.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- X Surface Water (A1)
- __ High Water Table (A2)
- X Saturation (A3)
- __ Water Marks (B1)
- __ Sediment Deposits (B2)
- __ Drift Deposits (B3)
- __ Algal Mat or Crust (B4)
- __ Iron Deposits (B5)
- __ Inundation Visible on Aerial Imagery (B7)
- __ Sparsely Vegetated Concave Surface (B8)
- __ Water-Stained Leaves (B9)
- __ Aquatic Fauna (B13)
- __ True Aquatic Plants (B14)
- __ Hydrogen Sulfide Odor (C1)
- __ Oxidized Rhizospheres on Living Roots (C3)
- __ Presence of Reduced Iron (C4)
- __ Recent Iron Reduction in Tilled Soils (C6)
- __ Thin Muck Surface (C7)
- __ Gauge or Well Data (D9)
- __ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- __ Surface Soil Cracks (B6)
- __ Drainage Patterns (B10)
- __ Dry-Season Water Table (C2)
- __ Crayfish Burrows (C8)
- __ Saturation Visible on Aerial Imagery (C9)
- __ Stunted or Stressed Plants (D1)
- X Geomorphic Position (D2)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes X	No ____	Depth (inches)	1
Water Table Present?	Yes X	No ____	Depth (inches)	0
Saturation Present? (includes capillary fringe)	Yes X	No ____	Depth (inches)	0

Wetland Hydrology Present? Yes X No ____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Wetland Wetland 6 **Sample Point** w6

Longitude	Latitude
-94.542905	38.864052

Cowardin Classification: PFO/PSS

Size:

Landform: Drainageway

Tree Stratum: Fraxinus pennsylvanica Ulmus americana Acer negundo

Sapling/Shrub: Fraxinus pennsylvanica Morus rubra

Herb Stratum: Persicaria punctata Solidago gigantea

Vine Stratum:

Hydric Soil Indicators: Assumed hydric--inundated

Hydrology Indicators: Surface Water (A1) Saturation (A3)

Significant Nexus: No Adjacent: Abuts: Stream Name:

Jurisdictional Status and Comments:

Hydrology supplied by t6, an ephemeral drainage which is not jurisdictional under the NWPR.

Photo 1



Photo 2



Photo 3

Photo 4

Wetland Determination Data Form - Midwest Region

Project/Site: HWY 150 and Botts Road | City/County: Grandview (Jackson Co.) | Sampling Date: 09/02/2020

Applicant/Owner: Promontory 150 LLC | State: MO | Sampling Point: w6-7out

Investigator(s): Jack Finley | Section, Township, Range: S26 T47N R33W

Landform (hillslope, terrace, etc.): Hillslope | Local relief (concave, convex, none): None

Slope (%): 0-2% | Lat: 38.864011 | Long: -94.542954 | Datum: UTM83

Soil Map Unit Name: 36083 Kennebec silt loam, 1 to 4 percent slopes, occasionally floode | NWI classification: UPL

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No X	**Is the Sampled Area within a Wetland?**	**Yes** ____ **No** X
Hydric Soil Present?	Yes ____	No X		
Wetland Hydrology Present?	Yes ____	No X		

Remarks:

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15 ft)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Herb Stratum (Plot size: 5 ft)			
1. Sorghum halepense	50	X	FACU
2. Glycine max	50	X	NI
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
	100 = Total Cover		
Woody Vine Stratum (Plot size: 30 ft)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 000% (A/B)

Prevalence Index worksheet:

	Total % Cover of:		Multiply by:
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	0	x 3 =	0
FACU species	50	x 4 =	200
UPL species	0	x 5 =	0
Column Totals:	50 (A)		200 (B)

Prevalence Index = B/A = 4.00

Hydrophytic Vegetation Indicators:

__ 1 - Rapid Test for Hydrophytic Vegetation

__ 2 - Dominance Test is >50%

__ 3 - Prevalence Index is ≤3.0[1]

__ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

__ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes** ____ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: w6-7out

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks
0-16	10YR 2/2	100					Loam	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- __ Histosol (A1)
- __ Histic Epipedon (A2)
- __ Black Histic (A3)
- __ Hydrogen Sulfide (A4)
- __ Stratified Layers (A5)
- __ 2 cm Muck (A10)
- __ Depleted Below Dark Surface (A11)
- __ Thick Dark Surface (A12)
- __ Sandy Mucky Mineral (S1)
- __ 5 cm Mucky Peat or Peat (S3)
- __ Sandy Gleyed Matrix (S4)
- __ Sandy Redox (S5)
- __ Stripped Matrix (S6)
- __ Loamy Mucky Mineral (F1)
- __ Loamy Gleyed Matrix (F2)
- __ Depleted Matrix (F3)
- __ Redox Dark Surface (F6)
- __ Depleted Dark Surface (F7)
- __ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- __ Coast Prairie Redox (A16)
- __ Dark Surface (S7)
- __ Iron-Manganese Masses (F12)
- __ Very Shallow Dark Surface (TF12)
- __ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- __ Surface Water (A1)
- __ High Water Table (A2)
- __ Saturation (A3)
- __ Water Marks (B1)
- __ Sediment Deposits (B2)
- __ Drift Deposits (B3)
- __ Algal Mat or Crust (B4)
- __ Iron Deposits (B5)
- __ Inundation Visible on Aerial Imagery (B7)
- __ Sparsely Vegetated Concave Surface (B8)
- __ Water-Stained Leaves (B9)
- __ Aquatic Fauna (B13)
- __ True Aquatic Plants (B14)
- __ Hydrogen Sulfide Odor (C1)
- __ Oxidized Rhizospheres on Living Roots (C3)
- __ Presence of Reduced Iron (C4)
- __ Recent Iron Reduction in Tilled Soils (C6)
- __ Thin Muck Surface (C7)
- __ Gauge or Well Data (D9)
- __ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- __ Surface Soil Cracks (B6)
- __ Drainage Patterns (B10)
- __ Dry-Season Water Table (C2)
- __ Crayfish Burrows (C8)
- __ Saturation Visible on Aerial Imagery (C9)
- __ Stunted or Stressed Plants (D1)
- __ Geomorphic Position (D2)
- __ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes _____	No X	Depth (inches)	_____
Water Table Present?	Yes _____	No X	Depth (inches)	_____
Saturation Present? (includes capillary fringe)	Yes _____	No X	Depth (inches)	_____

Wetland Hydrology Present? Yes _____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Wetland _____ **Sample Point** w6-7out

Longitude	Latitude
-94.542954	38.864011

Cowardin Classification: _____

Size: _____

Landform: Hillslope

Tree Stratum: _____

Sapling/Shrub: _____

Herb Stratum: Sorghum halepense Glycine max

Vine Stratum: _____

Hydric Soil Indicators: _____

Hydrology Indicators: _____

Significant Nexus: _____ Adjacent: _____ Abuts: _____ Stream Name: _____

Jurisdictional Status and Comments:

Photo 1



Photo 2



Photo 3

Photo 4

Wetland Determination Data Form - Midwest Region

Project/Site: HWY 150 and Botts Road | City/County: Grandview (Jackson Co.) | Sampling Date: 09/02/2020

Applicant/Owner: Promontory 150 LLC | State: MO | Sampling Point: w7

Investigator(s): Jack Finley | Section, Township, Range: S26 T47N R33W

Landform (hillslope, terrace, etc.): Depression | Local relief (concave, convex, none): Concave

Slope (%): 0-2% | Lat: 38.863965 | Long: -94.542899 | Datum: UTM83

Soil Map Unit Name: 36083 Kennebec silt loam, 1 to 4 percent slopes, occasionally floode | NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No X (If no, explain in Remarks)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes X No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No ____	**Is the Sampled Area within a Wetland?**	**Yes X** **No ____**
Hydric Soil Present?	Yes X	No ____		
Wetland Hydrology Present?	Yes X	No ____		

Remarks:

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 30 ft)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15 ft)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Herb Stratum (Plot size: 5 ft)			
1. Echinochloa muricata	40	X	OBL
2. Fraxinus pennsylvanica	20		FACW
3. Persicaria punctata	40	X	OBL
4. Bidens aristosa	10		FACW
5.			
6.			
7.			
8.			
9.			
10.			
	110 = Total Cover		
Woody Vine Stratum (Plot size: 30 ft)			
1.			
2.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	80	x 1 =	80
FACW species	30	x 2 =	60
FAC species	0	x 3 =	0
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column Totals:	110 (A)		140 (B)

Prevalence Index = B/A = 1.27

Hydrophytic Vegetation Indicators:

- X 1 - Rapid Test for Hydrophytic Vegetation
- X 2 - Dominance Test is >50%
- X 3 - Prevalence Index is ≤3.0[1]
- ____ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ____ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes X** **No ____**

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: w7

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

- __ Histosol (A1)
- __ Histic Epipedon (A2)
- __ Black Histic (A3)
- __ Hydrogen Sulfide (A4)
- __ Stratified Layers (A5)
- __ 2 cm Muck (A10)
- __ Depleted Below Dark Surface (A11)
- __ Thick Dark Surface (A12)
- __ Sandy Mucky Mineral (S1)
- __ 5 cm Mucky Peat or Peat (S3)
- __ Sandy Gleyed Matrix (S4)
- __ Sandy Redox (S5)
- __ Stripped Matrix (S6)
- __ Loamy Mucky Mineral (F1)
- __ Loamy Gleyed Matrix (F2)
- __ Depleted Matrix (F3)
- __ Redox Dark Surface (F6)
- __ Depleted Dark Surface (F7)
- __ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- __ Coast Prairie Redox (A16)
- __ Dark Surface (S7)
- __ Iron-Manganese Masses (F12)
- __ Very Shallow Dark Surface (TF12)
- __ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type:

Depth (inches):

Hydric Soil Present? Yes X No __

Remarks:
Soils inundated; assumed hydric.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- X Surface Water (A1)
- __ High Water Table (A2)
- X Saturation (A3)
- __ Water Marks (B1)
- __ Sediment Deposits (B2)
- __ Drift Deposits (B3)
- __ Algal Mat or Crust (B4)
- __ Iron Deposits (B5)
- __ Inundation Visible on Aerial Imagery (B7)
- __ Sparsely Vegetated Concave Surface (B8)
- __ Water-Stained Leaves (B9)
- __ Aquatic Fauna (B13)
- __ True Aquatic Plants (B14)
- __ Hydrogen Sulfide Odor (C1)
- __ Oxidized Rhizospheres on Living Roots (C3)
- __ Presence of Reduced Iron (C4)
- __ Recent Iron Reduction in Tilled Soils (C6)
- __ Thin Muck Surface (C7)
- __ Gauge or Well Data (D9)
- __ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- __ Surface Soil Cracks (B6)
- __ Drainage Patterns (B10)
- __ Dry-Season Water Table (C2)
- __ Crayfish Burrows (C8)
- __ Saturation Visible on Aerial Imagery (C9)
- __ Stunted or Stressed Plants (D1)
- X Geomorphic Position (D2)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes	X	No	Depth (inches)	1
Water Table Present?	Yes		No	X	Depth (inches)	
Saturation Present? (includes capillary fringe)	Yes	X	No		Depth (inches)	0

Wetland Hydrology Present? Yes X No __

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Wetland Wetland 7 **Sample Point** w7

Longitude	Latitude
-94.542899	38.863965

Cowardin Classification: PEM

Size:

Landform: Depression

Tree Stratum:

Sapling/Shrub:

Herb Stratum: Echinochloa muricata Fraxinus pennsylvanica Persicaria punctata

Vine Stratum:

Hydric Soil Indicators: assumed hydric-inundated

Hydrology Indicators: Surface Water (A1) Saturation (A3)

Significant Nexus: _____ Adjacent: _____ Abuts: _____ Stream Name: _____

Jurisdictional Status and Comments:

Hydrology supplied by t6, an ephemeral drainage which is not jurisdictional under the NWPR.

Photo 1



Photo 2



Photo 3

Photo 4

APPENDIX C

Stream Assessment Data Forms

Date: 08/26/2020 Investigator(s): _____ 38.860124 -94.545498

Feature ID: Tributary 1
Unique Site ID: t1a
Project name: HWY 150 and Botts Road
Project #: 019-1871
County, State: Jackson Co., MO
Stream Classification: ☐TNW ☐RPW ☒Non-RPW
Side Slopes: 1:1 ☐ ☒2:1 ☐3:1 ☐4:1 or >
Hydrology: ☒ Flowing ☐ Standing ☐ None
Water Color/Quality: ☒Clear ☐Discolored ☐Oily film
Stream Has: ☒Bed/Bank ☒OHWM:
Tributary Geometry: ☐Relatively Straight ☒Meandering

OHWM width: 6' Top of bank to top of bank width: 15'
OHWM height: 1' Top of Bank height: 4
Riparian Buffer Width: N/E side: >50 Ft.
S/W side: >50 Ft.
Buffer (adjacent bank) vegetation:

Stream Bottom Composition:
☐silt ☐concrete
☐sand ☐muck
☐gravel ☐other:
☒cobble ☐vegetation (% cover, type):
☐bedrock

Riparian Type:
☒ Forested
☐ Herbaceous
☐ Ag. Field
☐ _____

Surface Flow:
☐Discrete
☐Confined
☒Discrete and Confined
☐Overland Sheet Flow

Stream Characteristics: ☒Natural ☐Artificial ☐Manipulated
Explain Artificial/Manipulated:

Stream Type:
☐Perennial ☒Intermittent ☐Ephemeral ☐Draws/Gullies/Erosional Pattern
Stream Type Rational:
flowing water, well developed stream channel.

Significant Nexus: ☒ Yes ☐ No
Explain:
T1eventually flows into the Little Blue River which flows in the Missouri River, a traditional navigable stream.

OHWM has:
☒clear, natural line on bank
☐shelving
☐veg. matted down or absent
☐leaf litter disturbed
☐ wrack line
☐scour
☐change in plant community
☐other:

Stream Condition/Stability:
☒excessive erosion
☐bank collapse
☐cut-off channels
☐riffles/runs
☐pools
☐exposed tree roots
☐steep side slopes
☒vegetated banks
☒stable stream channel
☐incised stream channel

Biological Function and Comments:

Upstream Photo: View west.



Downstream Photo: View east



Date: 08/26/2020 Investigator(s): _____ 38.861545 -94.541613

Feature ID: Tributary 1b
Unique Site ID: t1b
Project name: HWY 150 and Botts Road
Project #: 019-1871
County, State: Jackson Co., MO

Stream Classification: ☐TNW ☐RPW ☐Non-RPW
Side Slopes: 1:1 ☐ ☒2:1 ☐3:1 ☐4:1 or >
Hydrology: ☒ Flowing ☐ Standing ☐ None
Water Color/Quality: ☐Clear ☒Discolored ☐Oily film
Stream Has: ☒Bed/Bank ☒OHWM:
Tributary Geometry: ☐Relatively Straight ☒Meandering

OHWM width: 13' Top of bank to top of bank width: 20'
OHWM height: 1.5' Top of Bank height: S-4', N-8'
Riparian Buffer Width: N/E side: >50 Ft.
S/W side: >50 Ft.

Buffer (adjacent bank) vegetation:
Bush honeysuckle, hackberry.

Stream Bottom Composition:
☒silt ☐concrete
☐sand ☐muck
☐gravel ☐other:
☒cobble ☐vegetation (% cover, type):
☐bedrock

Riparian Type:
☒ Forested
☐ Herbaceous
☐ Ag. Field
☐ _____

Surface Flow:
☐Discrete
☐Confined
☒Discrete and Confined
☐Overland Sheet Flow

Stream Characteristics: ☒Natural ☐Artificial ☐Manipulated
Explain Artificial/Manipulated:

Stream Type:
☐Perennial ☒Intermittent ☐Ephemeral ☐Draws/Gullies/Erosional Pattern
Stream Type Rational:
Flowing water, well developed channel.

Significant Nexus: ☒ Yes ☐ No
Explain:
It eventually flows into the Little Blue River which flows in the Missouri River, a traditional navigable stream.

OHWM has:
☒clear, natural line on bank
☐shelving
☐veg. matted down or absent
☐leaf litter disturbed
☐ wrack line
☐scour
☒change in plant community
☐other:

Stream Condition/Stability:
☐excessive erosion
☐bank collapse
☐cut-off channels
☐riffles/runs
☐pools
☒exposed tree roots
☒steep side slopes
☐vegetated banks
☒stable stream channel
☐incised stream channel

Biological Function and Comments:

Upstream Photo: View west



Downstream Photo: View east



Date: 08/26/2020 Investigator(s): _____ 38.860268 -94.544833

Feature ID: Tributary 2
Unique Site ID: t2
Project name: HWY 150 and Botts Road
Project #: 019-1871
County, State: Jackson Co., MO
Stream Classification: ☐TNW ☐RPW ☒Non-RPW
Side Slopes: 1:1 ☐ ☐2:1 ☐3:1 ☒4:1 or >
Hydrology: ☐ Flowing ☐ Standing ☒ None
Water Color/Quality: ☐Clear ☐Discolored ☐Oily film
Stream Has: ☒Bed/Bank ☒OHWM:
Tributary Geometry: ☒Relatively Straight ☐Meandering

OHWM width: 1.5' Top of bank to top of bank width: 20'
OHWM height: 0.5' Top of Bank height: 6'
Riparian Buffer Width: N/E side: >50 Ft.
S/W side: >50 Ft.

Buffer (adjacent bank) vegetation:
osage orange

Stream Bottom Composition:
☒silt ☐concrete
☐sand ☐muck
☐gravel ☐other:
☐cobble ☐vegetation (% cover, type):
☐bedrock

Riparian Type:
☒ Forested
☐ Herbaceous
☐ Ag. Field
☐ _____

Surface Flow:
☐Discrete
☐Confined
☒Discrete and Confined
☐Overland Sheet Flow

Stream Characteristics: ☒Natural ☐Artificial ☐Manipulated
Explain Artificial/Manipulated:

Stream Type:
☐Perennial ☐Intermittent ☒Ephemeral ☐Draws/Gullies/Erosional Pattern
Stream Type Rational:
Dry, poorly developed.

Significant Nexus: ☐ Yes ☒ No
Explain:
Ephemeral streams are not jurisdictional under the NWPR.

OHWM has:
☒clear, natural line on bank
☐shelving
☐veg. matted down or absent
☐leaf litter disturbed
☐ wrack line
☐scour
☐change in plant community
☐other:

Stream Condition/Stability:
☐excessive erosion
☐bank collapse
☐cut-off channels
☐riffles/runs
☐pools
☐exposed tree roots
☐steep side slopes
☐vegetated banks
☒stable stream channel
☐incised stream channel

Biological Function and Comments:

Upstream Photo: view south



Downstream Photo: View north



Date: 08/26/2020 Investigator(s): _____ 38.863601 -94.541483

Feature ID: Tributary 3
Unique Site ID: t3
Project name: HWY 150 and Botts Road
Project #: 019-1871
County, State: Jackson Co., MO
Stream Classification: ☐TNW ☐RPW ☒Non-RPW
Side Slopes: 1:1 ☐ ☒2:1 ☐3:1 ☐4:1 or >
Hydrology: ☐ Flowing ☐ Standing ☒ None
Water Color/Quality: ☐Clear ☐Discolored ☐Oily film
Stream Has: ☒Bed/Bank ☒OHWM:
Tributary Geometry: ☒Relatively Straight ☐Meandering

OHWM width: 1.5' Top of bank to top of bank width: 6'
OHWM height: 0.5' Top of Bank height: 2'
Riparian Buffer Width: N/E side: >50 Ft.
S/W side: >50 Ft.

Buffer (adjacent bank) vegetation:
American elm, bush honeysuckle

Stream Bottom Composition:
☒silt ☐concrete
☐sand ☐muck
☐gravel ☐other:
☐cobble ☐vegetation (% cover, type):
☐bedrock

Riparian Type:
☒ Forested
☐ Herbaceous
☐ Ag. Field
☐ _____

Surface Flow:
☐Discrete
☐Confined
☒Discrete and Confined
☐Overland Sheet Flow

Stream Characteristics: ☒Natural ☐Artificial ☐Manipulated
Explain Artificial/Manipulated:

Stream Type:
☐Perennial ☐Intermittent ☒Ephemeral ☐Draws/Gullies/Erosional Pattern
Stream Type Rational:
No flow and a channel that shows little development and no likely groundwater connection.

Significant Nexus: ☐ Yes ☒ No
Explain:
Ephemeral streams are not jurisdictional under the NWPR.

OHWM has:
☒clear, natural line on bank
☐shelving
☐veg. matted down or absent
☐leaf litter disturbed
☐ wrack line
☐scour
☐change in plant community
☐other:

Stream Condition/Stability:
☐excessive erosion
☐bank collapse
☐cut-off channels
☐riffles/runs
☐pools
☒exposed tree roots
☐steep side slopes
☐vegetated banks
☒stable stream channel
☐incised stream channel

Biological Function and Comments:

Upstream Photo: View north



Downstream Photo: View south



Date: 08/26/2020 Investigator(s): 38.863597 -94.541586

Feature ID: Tibutary 4

Unique Site ID: t4

Project name: HWY 150 and Botts Road

Project #: 019-1871

County, State: Jackson Co., MO

Stream Classification: ☐TNW ☐RPW ☒Non-RPW

Side Slopes: 1:1 ☐ ☐2:1 ☒3:1 ☐4:1 or >

Hydrology: ☐ Flowing ☐ Standing ☒ None

Water Color/Quality: ☐Clear ☐Discolored ☐Oily film

Stream Has: ☒Bed/Bank ☒OHWM:

Tributary Geometry: ☒Relatively Straight ☐Meandering

OHWM width: 2' Top of bank to top of bank width: 5'

OHWM height: .75' Top of Bank height: 2'

Riparian Buffer Width: N/E side: >50 Ft.
S/W side: >50 Ft.

Buffer (adjacent bank) vegetation:
bush honeysuckle

Stream Bottom Composition:
☒silt ☐concrete
☐sand ☐muck
☐gravel ☐other:
☐cobble ☐vegetation (% cover, type):
☐bedrock

Riparian Type:
☒ Forested
☐ Herbaceous
☐ Ag. Field
☐ _____

Surface Flow:
☐Discrete
☐Confined
☒Discrete and Confined
☐Overland Sheet Flow

Stream Characteristics: ☐Natural ☐Artificial ☐Manipulated
Explain Artificial/Manipulated:

Stream Type:
☐Perennial ☐Intermittent ☒Ephemeral ☐Draws/Gullies/Erosional Pattern

Stream Type Rational:
No flow and a channel that shows little development and no likely groundwater connection.

Significant Nexus: ☐ Yes ☒ No
Explain:
Ephemeral streams are not jurisdictional under the NWPR.

OHWM has:
☒clear, natural line on bank
☐shelving
☐veg. matted down or absent
☐leaf litter disturbed
☐ wrack line
☐scour
☐change in plant community
☐other:

Stream Condition/Stability:
☒excessive erosion
☐bank collapse
☐cut-off channels
☐riffles/runs
☐pools
☒exposed tree roots
☐steep side slopes
☒vegetated banks
☐stable stream channel
☐incised stream channel

Biological Function and Comments:

Upstream Photo: View north



Downstream Photo: View south



Date: 08/26/2020 Investigator(s): 38.863683 -94.542499

Feature ID: Tributary 5
Unique Site ID: t5
Project name: HWY 150 and Botts Road
Project #: 019-1871
County, State: Jackson Co., MO

Stream Classification: ☐TNW ☐RPW ☒Non-RPW
Side Slopes: 1:1 ☐ ☒2:1 ☐3:1 ☐4:1 or >
Hydrology: ☐ Flowing ☐ Standing ☒ None
Water Color/Quality: ☐Clear ☐Discolored ☐Oily film
Stream Has: ☒Bed/Bank ☒OHWM:
Tributary Geometry: ☒Relatively Straight ☐Meandering

OHWM width: 1' Top of bank to top of bank width: 3'
OHWM height: 0.5 Top of Bank height: 1'
Riparian Buffer Width: N/E side: >50 Ft.
S/W side: >50 Ft.

Buffer (adjacent bank) vegetation:
bush honeysuckle

Stream Bottom Composition:
☒silt ☐concrete
☐sand ☐muck
☐gravel ☐other:
☐cobble ☐vegetation (% cover, type):
☐bedrock

Riparian Type:
☒ Forested
☐ Herbaceous
☐ Ag. Field
☐ _____

Surface Flow:
☐Discrete
☐Confined
☐Discrete and Confined
☐Overland Sheet Flow

Stream Characteristics: ☒Natural ☐Artificial ☐Manipulated
Explain Artificial/Manipulated:

Stream Type:
☐Perennial ☐Intermittent ☒Ephemeral ☐Draws/Gullies/Erosional Pattern
Stream Type Rational:
No flow and a channel that shows little development and no likely groundwater connection.

Significant Nexus: ☐ Yes ☒ No
Explain:
Ephemeral streams are not jurisdictional under the NWPR.

OHWM has:
☒clear, natural line on bank
☐shelving
☐veg. matted down or absent
☐leaf litter disturbed
☐ wrack line
☐scour
☐change in plant community
☐other:

Stream Condition/Stability:
☐excessive erosion
☐bank collapse
☐cut-off channels
☐riffles/runs
☐pools
☒exposed tree roots
☐steep side slopes
☐vegetated banks
☒stable stream channel
☐incised stream channel

Biological Function and Comments:

Upstream Photo: View north



Downstream Photo: View south



Date: 09/02/2020 Investigator(s): 38.865998 -94.544275

Feature ID: Tributary 6a

Unique Site ID: t6a

Project name: HWY 150 and Botts Road

Project #: 019-1871

County, State: Jackson Co., Missouri

Stream Classification: ☐TNW ☐RPW ☒Non-RPW

Side Slopes: 1:1 ☐ ☒2:1 ☐3:1 ☐4:1 or >

Hydrology: ☒ Flowing ☐ Standing ☐ None

Water Color/Quality: ☒Clear ☐Discolored ☐Oily film

Stream Has: ☒Bed/Bank ☐OHWM:

Tributary Geometry: ☒Relatively Straight ☐Meandering

OHWM width: 2' Top of bank to top of bank width: 15'

OHWM height: 0.75' Top of Bank height: 6'

Riparian Buffer Width: N/E side: >50 Ft.
S/W side: <50 Ft.

Buffer (adjacent bank) vegetation:

Stream Bottom Composition:
☒silt ☐concrete
☐sand ☐muck
☐gravel ☐other:
☐cobble ☐vegetation (% cover, type):
☐bedrock

Riparian Type:
☒ Forested
☐ Herbaceous
☐ Ag. Field
☐ _____

Surface Flow:
☐Discrete
☐Confined
☒Discrete and Confined
☐Overland Sheet Flow

Stream Characteristics: ☒Natural ☐Artificial ☐Manipulated
Explain Artificial/Manipulated:

Stream Type:
☐Perennial ☐Intermittent ☒Ephemeral ☐Draws/Gullies/Erosional Pattern

Stream Type Rational:
The channel shows less development than many intermittent streams and a strong groundwater connection is not apparent.

Significant Nexus: ☐ Yes ☒ No
Explain:
Ephemeral streams are not jurisdictional under the NWPR.

OHWM has:
☒clear, natural line on bank
☐shelving
☐veg. matted down or absent
☐leaf litter disturbed
☐ wrack line
☐scour
☐change in plant community
☐other:

Stream Condition/Stability:
☐excessive erosion
☐bank collapse
☐cut-off channels
☐riffles/runs
☐pools
☒exposed tree roots
☒steep side slopes
☒vegetated banks
☐stable stream channel
☐incised stream channel

Biological Function and Comments:

Upstream Photo: View north



Downstream Photo: View south



Date: 09/02/2020 Investigator(s): 38.863878 -94.542803

Feature ID: Tributary 6b
Unique Site ID: t6b
Project name: HWY 150 and Botts Road
Project #: 019-1871
County, State: Jackson Co., Missouri
Stream Classification: ☐TNW ☐RPW ☒Non-RPW
Side Slopes: 1:1 ☐ ☐2:1 ☐3:1 ☒4:1 or >
Hydrology: ☒Flowing ☐Standing ☐None
Water Color/Quality: ☒Clear ☐Discolored ☐Oily film
Stream Has: ☒Bed/Bank ☒OHWM:
Tributary Geometry: ☒Relatively Straight ☐Meandering

OHWM width: 2' Top of bank to top of bank width: 3'
OHWM height: 0.5' Top of Bank height: 1.5'
Riparian Buffer Width: N/E side: 30 Ft.
S/W side: 30 Ft.

Buffer (adjacent bank) vegetation:
goldenrod, green ash

Stream Bottom Composition:
☒silt ☐concrete
☐sand ☐muck
☐gravel ☐other:
☐cobble ☐vegetation (% cover, type):
☐bedrock

Riparian Type:
☐ Forested
☒ Herbaceous
☐ Ag. Field
☐ _____

Surface Flow:
☒Discrete
☐Confined
☐Discrete and Confined
☐Overland Sheet Flow

Stream Characteristics: ☒Natural ☐Artificial ☐Manipulated
Explain Artificial/Manipulated:

Stream Type:
☐Perennial ☐Intermittent ☒Ephemeral ☐Draws/Gullies/Erosional Pattern
Stream Type Rational:
Channel that shows less development than an intermittent stream and a groundwater connection is not apparent.

Significant Nexus: ☐ Yes ☒ No
Explain:
Ephemeral streams are not jurisdictional under the NWPR.

OHWM has:
☒clear, natural line on bank
☐shelving
☐veg. matted down or absent
☐leaf litter disturbed
☐ wrack line
☐scour
☐change in plant community
☐other:

Stream Condition/Stability:
☐excessive erosion
☐bank collapse
☐cut-off channels
☐riffles/runs
☐pools
☐exposed tree roots
☐steep side slopes
☒vegetated banks
☒stable stream channel
☐incised stream channel

Biological Function and Comments:

Upstream Photo: view west



Downstream Photo: _____

Date: 08/26/2020 Investigator(s): _____ 38.863624 -94.542515

Feature ID: Tributary 6c

Unique Site ID: t6c

Project name: HWY 150 and Botts Road

Project #: 019-1871

County, State: Jackson Co., Missouri

Stream Classification: ☐TNW ☐RPW ☒Non-RPW

Side Slopes: 1:1 ☐ ☒2:1 ☐3:1 ☐4:1 or >

Hydrology: ☒ Flowing ☐ Standing ☐ None

Water Color/Quality: ☒Clear ☐Discolored ☐Oily film

Stream Has: ☒Bed/Bank ☒OHWM:

Tributary Geometry: ☒Relatively Straight ☐Meandering

OHWM width: 2' Top of bank to top of bank width: 15'

OHWM height: 0.5' Top of Bank height: 10'

Riparian Buffer Width: N/E side: >50 Ft.
S/W side: >50 Ft.

Buffer (adjacent bank) vegetation:
hackberry, walnut, and bush honeysuckle

Stream Bottom Composition:
☒silt ☐concrete
☐sand ☐muck
☐gravel ☐other:
☐cobble ☐vegetation (% cover, type):
☐bedrock

Riparian Type:
☒ Forested
☐ Herbaceous
☐ Ag. Field
☐ _____

Surface Flow:
☐Discrete
☐Confined
☒Discrete and Confined
☐Overland Sheet Flow

Stream Characteristics: ☒Natural ☐Artificial ☐Manipulated
Explain Artificial/Manipulated:

Stream Type:
☐Perennial ☐Intermittent ☒Ephemeral ☐Draws/Gullies/Erosional Pattern

Stream Type Rational:
The channel shows less development than a typical intermittent stream and a groundwater connection is unknown.

Significant Nexus: ☐ Yes ☒ No
Explain:
Ephemeral streams are not jurisdictional under the NWPR.

OHWM has:
☒clear, natural line on bank
☐shelving
☐veg. matted down or absent
☐leaf litter disturbed
☐ wrack line
☐scour
☐change in plant community
☐other:

Stream Condition/Stability:
☐excessive erosion
☐bank collapse
☐cut-off channels
☐riffles/runs
☐pools
☒exposed tree roots
☒steep side slopes
☐vegetated banks
☒stable stream channel
☐incised stream channel

Biological Function and Comments:

Upstream Photo: View north



Downstream Photo: View south



Date: 09/26/2020 Investigator(s): 38.862241 -94.541555

Feature ID: Tributary 7
Unique Site ID: t7
Project name: HWY 150 and Botts Road
Project #: 019-1871
County, State: Jackson Co., Missouri

Stream Classification: ☐TNW ☐RPW ☒Non-RPW

Side Slopes: 1:1 ☐ ☒2:1 ☐3:1 ☐4:1 or >

Hydrology: ☐ Flowing ☐ Standing ☒ None

Water Color/Quality: ☐Clear ☐Discolored ☐Oily film

Stream Has: ☒Bed/Bank ☒OHWM:

Tributary Geometry: ☐Relatively Straight ☒Meandering

OHWM width: 2' Top of bank to top of bank width: 20'

OHWM height: 0.75 Top of Bank height: 12'

Riparian Buffer Width: N/E side: >50 Ft.
S/W side: >50 Ft.

Buffer (adjacent bank) vegetation:
bush honeysuckle

Stream Bottom Composition:
☒silt ☐concrete
☐sand ☐muck
☐gravel ☐other:
☐cobble ☐vegetation (% cover, type):
☐bedrock

Riparian Type:
☒ Forested
☐ Herbaceous
☐ Ag. Field
☐ _____

Surface Flow:
☐Discrete
☐Confined
☒Discrete and Confined
☐Overland Sheet Flow

Stream Characteristics: ☒Natural ☐Artificial ☐Manipulated
Explain Artificial/Manipulated:

Stream Type:
☐Perennial ☐Intermittent ☒Ephemeral ☐Draws/Gullies/Erosional Pattern

Stream Type Rational:
Channel shows less development than an intermittent stream and a groundwater connection is not apparent.

Significant Nexus: ☐ Yes ☒ No
Explain:
Ephemeral streams are not jurisdictional under the NWPR.

OHWM has:
☒clear, natural line on bank
☐shelving
☐veg. matted down or absent
☐leaf litter disturbed
☐ wrack line
☐scour
☐change in plant community
☐other:

Stream Condition/Stability:
☐excessive erosion
☐bank collapse
☐cut-off channels
☐riffles/runs
☐pools
☒exposed tree roots
☒steep side slopes
☒vegetated banks
☒stable stream channel
☐incised stream channel

Biological Function and Comments:

Upstream Photo: View NW



Downstream Photo: View SE



Date: 09/26/2020 Investigator(s): _____ 38.863419 -94.541499

Feature ID: Tributary 8a

Unique Site ID: t8a

Project name: HWY 150 and Botts Road

Project #: 019-1871

County, State: Jackson Co., Missouri

Stream Classification: ☐TNW ☐RPW ☒Non-RPW

Side Slopes: 1:1 ☐ ☒2:1 ☐3:1 ☐4:1 or >

Hydrology: ☒ Flowing ☐ Standing ☐ None

Water Color/Quality: ☒Clear ☐Discolored ☐Oily film

Stream Has: ☒Bed/Bank ☒OHWM:

Tributary Geometry: ☒Relatively Straight ☐Meandering

OHWM width: 6' Top of bank to top of bank width: 10'

OHWM height: 0.75' Top of Bank height: 20'

Riparian Buffer Width: N/E side: >50 Ft.
S/W side: <50 Ft.

Buffer (adjacent bank) vegetation:
bush honeysuckle

Stream Bottom Composition:
☒silt ☐concrete
☐sand ☐muck
☐gravel ☐other:
☒cobble ☐vegetation (% cover, type):
☐bedrock

Riparian Type:
☒ Forested
☐ Herbaceous
☐ Ag. Field
☐ _____

Surface Flow:
☐Discrete
☐Confined
☒Discrete and Confined
☐Overland Sheet Flow

Stream Characteristics: ☒Natural ☐Artificial ☐Manipulated
Explain Artificial/Manipulated:

Stream Type:
☐Perennial ☒Intermittent ☐Ephemeral ☐Draws/Gullies/Erosional Pattern

Stream Type Rational:
Flowing water, well developed channel with a likely groundwater connection since it is the lowest part of the landscape.

Significant Nexus: ☒ Yes ☐ No
Explain:
It eventually flows into the Little Blue River which flows in the Missouri River, a traditional navigable stream.

OHWM has:
☒clear, natural line on bank
☐shelving
☐veg. matted down or absent
☐leaf litter disturbed
☐ wrack line
☐scour
☐change in plant community
☐other:

Stream Condition/Stability:
☐excessive erosion
☐bank collapse
☐cut-off channels
☐riffles/runs
☒pools
☒exposed tree roots
☒steep side slopes
☒vegetated banks
☒stable stream channel
☐incised stream channel

Biological Function and Comments:

Upstream Photo: View west



Downstream Photo: _____



DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, KANSAS CITY DISTRICT
601 E. 12TH STREET, 635 FEDERAL BUILDING
KANSAS CITY, MO 64106-2824

January 11, 2021

Regulatory Branch
NWK-2021-00041

Mr. Aaron Ball
Olsson Associates, Inc.
7301 West 133rd Street, Suite 200
Overland Park, KS 66213

Dear Mr. Ball:

This letter is in response to your request submitted on behalf of Promontory 150 LLC for a Jurisdictional Determination for commercial land development. The site is located in Section 26, Township 47 north, Range 33 west, Jackson County, Missouri. Your request has been assigned Regulatory File No. NWK-2021-00041. Please reference this file number on any correspondence to us or to other interested parties concerning this matter.

This letter contains an approved jurisdictional determination for your project site. This jurisdictional determination is valid for a 5-year period from the date of this letter unless new information warrants revision of the determination before the expiration date. If you object to this determination, you may request an administrative appeal under Corps regulations at 33 CFR Part 331. Enclosed you will find a Notification of Administrative Appeal Options and Process and Request for Appeal (NAO-RFA) form. If you request to appeal this determination, you must submit a completed NAO-RFA form to the Northwestern Division Office at the following address:

Division Engineer
U.S. Army Corps of Engineers, Northwestern Division
ATTN: Melinda M. Larsen
Regulatory Appeals Review Officer
1201 NE Lloyd Blvd., Suite 400
Portland, OR 97232
Telephone: 503-808-3888

In order for an NAO-RFA to be accepted by the Corps, the Corps must determine that it is completed, 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 NAO-RFA. Should you decide to submit a NAO-RFA form, it must be received at the above address by March 12, 2021. It is not necessary to submit a NAO-RFA form to the Division Office if you do not object to the determination in this letter.

In the event that you disagree with an approved jurisdictional determination and you have **new information** not considered in the original determination, you may request reconsideration of that determination by the Corps District prior to initiating an appeal. To request this reconsideration based upon new information, you must submit the completed NAO-RFA form and the new information to the District Office so that it is received within 60 days of the date of the NAO-RFA. Send approved jurisdictional determination reconsideration requests to:

District Commander
U.S. Army Corps of Engineers, Kansas City District
ATTN: Mark D. Frazier
Chief, Regulatory Branch
601 East 12th Street, Suite 402
Kansas City, MO 64106-2824
Telephone: 816-389-3990 - FAX: 816-389-2032

The Corps of Engineers has jurisdiction over all waters of the United States. Discharges of dredged or fill material in waters of the United States, including wetlands, require prior authorization from the Corps under Section 404 of the Clean Water Act (33 USC 1344). The implementing regulation for this Act is found at 33 CFR 320-332.

We are interested in your thoughts and opinions concerning your experience with the Kansas City District, Corps of Engineers Regulatory Program. Please feel free to complete our Customer Service Survey form on our website at: http://corpsmapu.usace.army.mil/cm_apex/f?p=regulatory_survey. You may also call and request a paper copy of the survey which you may complete and return to us by mail.

If you have any questions concerning this matter, please feel free to write or contact me at 816-389-3115 or by email at Connor.N.Bickford@usace.army.mil. Please reference Regulatory File No. NWK-2021-00041 in all comments and/or inquiries relating to this project. This letter is only being provided to you electronically at aball@olsson.com.

Sincerely,

Connor N. Bickford

Connor Bickford
Regulatory Specialist

Enclosures

cc (electronically w/o enclosures):

Environmental Protection Agency,
Watershed Planning and Implementation Branch
U.S. Fish and Wildlife Service, Columbia, Missouri
Missouri Department of Natural Resources,
Water Protection Program
State Historic Preservation Office
Missouri Department of Conservation

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, KANSAS CITY DISTRICT
635 FEDERAL BUILDING
601 E. 12TH STREET
KANSAS CITY, MISSOURI 64106-2824

November 9, 2020

Regulatory Branch
NWK-2020-00813

Mr. Aaron Ball
Olsson
7301 West 133rd Street, Suite 200
Overland Park, Kansas 66213

Dear Mr. Ball:

This letter is in response to the approved jurisdictional determination request you submitted on behalf of Platform Ventures. It was received on September 29, 2020. The area covered by the jurisdictional determination involves waters within the upper watershed of the Little Blue River. The project is located in Section 26, Township 47 North, Range 33 West, Jackson County, Missouri.

This letter contains an approved jurisdictional determination for your project site. This jurisdictional determination is valid for a 5-year period from the date of this letter unless new information warrants revision of the determination before the expiration date. If you object to this determination, you may request an administrative appeal under Corps regulations at 33 CFR Part 331. Enclosed you will find a Notification of Administrative Appeal Options and Process and Request for Appeal (NAO-RFA) form. If you request to appeal this determination, you must submit a completed NAO-RFA form to the Northwestern Division Office at the following address:

Division Engineer
U.S. Army Corps of Engineers, Northwestern Division
ATTN: Melinda M. Larsen
Regulatory Appeals Review Officer
1201 NE Lloyd Blvd., Suite 400
Portland, OR 97232
Telephone: 503-808-3888

In order for an NAO-RFA 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 NAO-RFA. Should you decide to submit an NAO-RFA form, it must be received at the above address by January 8, 2021. It is not necessary to submit an NAO-RFA form to the Division Office if you do not object to the determination in this letter.

In the event that you disagree with an approved jurisdictional determination, and you have **new information** not considered in the original determination, you may request reconsideration of that determination by the Corps District prior to initiating an appeal. To request this reconsideration based upon new information, you must submit the completed NAO-RFA form and the new information to the District Office so that it is received within 60 days of the date of the NAO-RFA. Send approved jurisdictional determination reconsideration requests to:

District Commander
ATTN: Mark D. Frazier
Chief, Regulatory Branch
U.S. Army Engineer District, Kansas City
601 East 12th Street, Suite 402
Kansas City, MO 64106-2824
Voice: 816-389-3990 – FAX: 816-389-2032

The Corps of Engineers has jurisdiction over all waters of the United States. Discharges of dredged or fill material in waters of the United States, including wetlands, require prior authorization from the Corps under Section 404 of the Clean Water Act (33 U.S.C. 1344). The implementing regulation for this Act is found at 33 CFR 320-332.

We are interested in your thoughts and opinions concerning your experience with the Kansas City District, Corps of Engineers Regulatory Program. Please feel free to complete our Customer Service Survey form on our website at: http://corpsmapu.usace.army.mil/cm_apex/f?p=regulatory_survey. You may also call and request a paper copy of the survey which you may complete and return to us by mail.

If you have any questions concerning this matter, please feel free to write or contact me at 816-389-3739 or by email at jesse.s.cochran@usace.army.mil. Please reference Regulatory File No. NWK-2020-813 in all comments and/or inquiries relating to this project. This letter is only being provided to you electronically at: aball@olsson.com.

Sincerely,

Jesse Cochran
Regulatory Specialist

Enclosures

cc (electronically w/o enclosures):

Environmental Protection Agency,
Watershed Planning and Implementation Branch
U.S. Fish and Wildlife Service, Columbia, Missouri
Missouri Department of Natural Resources,
Water Protection Program
State Historic Preservation Office
Missouri Department of Conservation

APPENDIX C – Acoustic Bat Survey and Analysis

TERRA TECHNOLOGIES

Engineers • Scientists • Permit Specialists

I-49 Industrial Center

Acoustic Bat Survey and Analysis



Prepared for

Platform Ventures

June 2021

6240 West 135th Street, Suite 100 • Overland Park, Kansas 66223
Phone: 913-385-9560 • Fax: 913-385-5295
Web: http://www.terratechnologies.com

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Figure 4 – Study Plan

Figure 5 – Forested Areas and Clearing

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A Photographic Documentation

B Acoustic Survey Data Forms

C Kaleidoscope Pro Spreadsheets

D Curriculum Vitae

1.0 INTRODUCTION

Terra Technologies is retained by the applicant, Platform Ventures, to conduct an acoustic bat survey and analysis for the purpose of determining the presence or absence of federally endangered Indiana Bats (*Myotis sodalis*) and/or federally threatened Northern Long Eared Bats (NLEB) (*Myotis septentrionalis*) within the project area located in Kansas City, Jackson County, Missouri. The Information Planning and Consultation (IPaC) system advance notice output report provided by USFWS signifies the project area is within the range of the endangered Indiana Bat and Gray Bat, and the threatened NLEB, thus an acoustic survey and analysis was conducted to determine the presence/absence of such bats.

In accordance with Fish and Wildlife Coordination Act (16 U.S.C. 661 et seq.), National Environmental Policy Act of 1969 (42 U.S.C 4241-4347) and the Endangered Species Act of 1973, as amended (16 U.S.C. 1531-1534), the U.S. Fish and Wildlife Service (USFWS) administers the permitting of activities that may affect threatened and endangered species, including their habitat. Most activities that would result in the potential harm to threatened or endangered species or their critical habitat require permit authorization from the USFWS. The information contained in this report will assist USFWS and other regulatory agencies in the determination of the presence or absence of Indiana Bats and/or NLEBs within the project area.

2.0 PROJECT LOCATION, LAND USE, AND DESCRIPTION

The subject area is approximately 258.25 acres in size and is located in Section 26 of Township 47N Range 33W in southwest Jackson County, Missouri (see Figures 1a & 1b [Google, 2019]).

The USGS topographic map published by the U.S. Geological Survey (USGS) indicates three streams and no ponds on the site (see Figure 1c [Google, 2019]).

The project site consists mainly of agricultural land and forested land. It is bordered by agricultural, commercial, and residential land to the north, by a railroad to the east, by MO Highway 150 to the south, and by Botts Road to the west (see Figure 1d [Google, 2019]).

3.0 POTENTIALLY SUITABLE HABITAT REQUIREMENTS

Indiana Bat Habitat

Indiana Bats feed on insects in the tree canopy of floodplain, riparian, and upland forests. Streams, wetlands, and open water features are preferred feeding habitats for pregnant and lactating bats.

Potentially suitable Indiana Bat summer habitat can include a diversity of forested or wooded habitats which are used for roosting, hunting, and travel. Herbaceous wetlands and the edges of agricultural fields, pastures, and old fields are also used as habitat when they are adjacent or within forested or wooded habitats. Suitable forested or wooded habitats can include any of the following characteristics (USFWS, 2019):

1) The presence of potential roost trees (live or overly mature trees and snags with a diameter at breast height greater than 5 inches with peeling or exfoliating bark and/or split tree trunks or cavities which may be used as maternity or bachelor roosts)
2) Linear wooded features such as fence rows, wooded corridors, and riparian forests
3) Dense forested areas or loose aggregates of trees with variable canopy closure
4) Individual trees within 1,000 feet of other forested or wooded habitat

Indiana Bats utilize two types of habitat depending on the season. Summer habitat consists of wooded or semi-wooded areas usually along streams. Solitary females or small clusters of females (maternity colonies) bear their offspring in hollow trees or under loose bark of living or dead trees. Dead trees in sunny openings or in woodland interiors are preferred to living trees. Large specimens of white oak (*Quercus alba*) and shagbark hickory (*Carya ovata*) are often preferred for maternal roosts because of loose bark. During the winter, the bats hibernate in caves, mines, or similar protective structures.

Examples of unsuitable habitat for Indiana Bats include the following (USFWS, 2019):

1) Individual trees more than 1,000 feet from forested or wooded areas
2) Trees in highly developed areas such as street trees or trees located in downtown areas
3) A pure stand of trees less than 3 inches in diameter at breast height that lacks larger trees

Northern Long Eared Bat (NLEB) Habitat

Suitable winter habitat (hibernacula) for the NLEB includes underground caves and cave-like structures with high humidity and minimal air currents (*e.g.*, abandoned or active mines, railroad tunnels). These hibernacula typically have relatively constant, cool temperatures (0-9 degrees Celsius) and large passages with significant cracks and crevices for roosting. Within hibernacula, surveyors find NLEBs in small crevices or cracks, often with only the nose and ears visible. NLEBs will typically hibernate between mid-fall through mid-spring each year.

Suitable summer habitat for NLEB consists of a wide variety of forested/wooded habitats where they roost, forage, and travel and may also include some adjacent and interspersed non-forested habitats such as emergent wetlands and adjacent edges of agricultural fields, old fields and pastures. This includes forests and woodlots containing potential roosts (*i.e.*, live trees and/or snags ≥3 inches in diameter at breast height that have exfoliating bark, cracks, crevices, and/or cavities), as well as linear features such as fencerows, riparian forests, and other wooded corridors. These wooded areas may be dense or loose aggregates of trees with variable amounts of canopy closure. Individual trees may be considered suitable habitat when they exhibit characteristics of suitable roost trees and are within 1,000 feet of other forested/wooded habitat. NLEB has also been observed roosting in human-made structures, such as buildings, barns, bridges, and bat houses; therefore, these structures are also considered potential summer habitat. NLEBs typically occupy their summer habitat from mid-May through mid-August each year and the species may arrive or leave some time before or after this period (USFWS, 2019).

NLEB maternity habitat is defined as suitable summer habitat used by juveniles and reproductive (pregnant, lactating, or post-lactating) females. NLEB home ranges, consisting of maternity, foraging, roosting, and commuting habitat, typically occur within three miles of a documented capture record or a positive identification of NLEB from properly deployed acoustic devices, or within 1.5 miles of a known suitable roost tree.

Examples of unsuitable habitat for NLEBs include the following (USFWS, 2019):

1) Individual trees more than 1,000 feet from forested or wooded areas
2) Trees in highly developed areas such as street trees or trees located in downtown areas
3) A pure stand of trees less than 3 inches in diameter at breast height that lacks larger trees

4.0 METHODS

A Draft Study Plan was approved by the USFWS for two locations to survey a total of eight (8) detector nights. The acoustic survey was conducted May 21 – May 25, 2021 by Danny DeAngelo, a scientist qualified to perform bat acoustic surveys and analysis (Curriculum vitae included in Appendix D).

4.1 Acoustic Survey Background

Acoustic surveys for bats involve recording their high-frequency echolocation calls with a specially designed high-frequency sensitive microphone on a "bat detector," capable of digitizing these recordings and saving them as audio *.WAV files. Analysis of echolocation calls involves converting the digitized sound into illustrations (*i.e.*, "spectrograms") representing how the frequencies and intensities of the sounds change over time and then qualitatively and quantitatively analyzing the content of the spectrograms. Acoustic surveys are based on the premise that different species have unique call-types much like birds and other vocal animals, so by collecting a recording from a bat, researchers can determine its species by measuring the frequency and intensity of the bat's vocalizations.

Acoustic surveys can be "passive," where stationary microphones are autonomously listening to and recording all echolocation calls from the airspace covered by the microphone, "active," where a researcher moves a microphone in line with an observable bat as it is flying, or "mobile," where a researcher moves through a habitat or between a series of habitats, listening for bats along a pre-defined route and/or at pre-defined locations. For this survey, only passive acoustic monitoring methods were used.

The benefits of acoustic surveys are that they collect data in a "non-contact" manner without affecting the behavior of the animal. No bats are disturbed or handled during acoustic surveys. Acoustic surveys are biased towards recording bats that produce the loudest echolocation calls and the lowest frequency echolocation calls since these are detectable over longer distances. The same microphone will sample a larger volume of airspace for these bats than for those who produce quiet and/or high-frequency echolocation calls, as these attenuate more rapidly across distances.

4.2 Survey Locations

As shown in Figure 4, two survey sites were established to evaluate the presence or absence of threatened and endangered bats at the project area. Site 1 was located in the northeastern portion of the project area while Site 2 was located in the southwestern portion of the project area.

Site 1 was located on the edge of a forested area and was overlooking a stream. This location was chosen because of the openness and the high likelihood the area would be used by the target species for foraging or travel. The location of this site changed slightly from the draft study plan as onsite observations determined the location on the draft study plan had to too much foliage and clutter to get good recordings. Therefore, the site was moved to a more ideal location which was clear and still pointed along the forested edge and was overlooking the stream.

Site 2 was located in a linear forested opening. Placing the detector in the linear opening allows one to record bats as they are foraging or traveling along it. The location of this site did not change from the draft study plan as onsite observations found the location to be ideal for recording bats.

4.3 Survey Tools and Deployment

Equipment used included two Petterson D500x full spectrum bat detectors with external D500x microphones absent of windscreens and/or aftermarket horns on 25-foot extension cables. The microphones are capable of recording a 40kHz sounds. Detection distance varies under actual field conditions based upon: (1) the intensity (volume) of the bat echolocation call, (2) the frequency of the echolocation call (*i.e.*, higher frequencies attenuate more rapidly in air and therefore are detected at shorter distances), and (3) the temperature and/or humidity of the air. Barometric pressure, wind, and other conditions also affect how far high-frequency sound travels in air and how well sound can be recorded. Despite these limitations, over a long-term deployment enough bats are echolocating under suitable conditions to identify the majority of species occupying an area.

Detectors were placed in 767 cubic-inch capacity sealed "dry-storage, ammunition boxes" made of heavy-duty molded-plastic. These boxes provide a shaded and moisture-proof environment for the detector and associated monitoring gear (spare batteries, memory cards, microphone cable, and deployment materials). A channel was cut between the box and the lid to accommodate the microphone cable without crimping the cable when the box was sealed.

Boxes were set at or near the base of a microphone mast and efforts were made to shade the units using vegetation and/or other natural barriers. Boxes are labeled with appropriate signage designating the purpose of the survey and contact information for the primary investigator in the event of questions or problems. Microphone masts were constructed of portable, lightweight, and extendable aluminum poles to create masts that were 18 feet tall. Microphones were attached to the top of the masts using heat- and UV-resistant, non-latex EPDM rubber bands and with the microphone membrane oriented horizontally to prevent moisture damage during precipitation events and/or the accumulation of dew on the microphone. Microphone cables were wrapped tightly around the masts to prevent noise from cable slap during windy weather and to keep the microphone securely mounted. Masts were secured with a 3-foot "pole anchor" made of heavy-duty 1/2" rebar or pipe. The rebar and pipe were pounded into the ground with a mini-sledge to about 1/3-1/2 their length and the hollow base of the microphone mast is slipped over the rebar. For this deployment no additional stabilization with guy lines was required. After the detector was fully deployed, a clap test or 'microphone check' was performed in order to make sure the microphone and detector were functioning properly. This was also done at the end of each deployment to ensure the microphone and detector were still functioning properly, ensuring that the equipment was functioning properly throughout the entire deployment.

Detector settings were the same for each of the detectors deployed and are shown below in Table 1.

Table 1. Detector Settings

Detector ID	Sam. Freq.	Pre-trigger	Rec. Length	HP Filter	Auto Rec.	Trig. Sens.	In. Gain	Trigger Level	Int.	Start Rec.	Stop Rec.
52383	500	Off	4 Sec.	Yes	Yes	Medium	45	160	0	Rel. Time 0	Rel. Time 0
52380	500	Off	4 Sec.	Yes	Yes	Medium	45	160	0	Rel. Time 0	Rel. Time 0

The Weather for each night the detectors were deployed was within the acceptable parameters of the 2020 Indiana Bat Survey Guidelines (USFWS, 2020). While there was a small amount of intermittent rain on the night of May 21st, the rain did not start within the first five hours of the survey and therefore would be considered an acceptable survey night. The weather for each night is shown below in Table 2. Weather information was collected from the Weather Underground Weather Station KMOGRAND4 located approximately 1.71 miles northeast of the project area.

Table 2. Weather Per Detector Night

Detector Night	Low Temp. (°F)	Wind Speed AVG. (MPH)	Precipitation	
			Inches	Time
5/21/21-5/22/21	67	3-6	0.06	1:49am-4:04am
5/22/21-5/23/21	63	0-1	0.00	N/A
5/23/21-5/24/21	67	0-1	0.00	N/A
5/24/21-5/25/21	67	0-1	0.00	N/A

The Level of Effort for the passive acoustic survey was to obtain a minimum of eight detector nights with the use of two detectors at two different locations over four nights. Recordings took place on the nights and following mornings of May 21st, May 22nd, May 23rd, and May 24th, 2021. Each passive detector unit was programmed to turn on at sunset and turn off at sunrise and run all-night. The rational for this survey schedule was to ensure the entire night when bats are active was recorded while avoiding the day time when bats are not active. This resulted in approximately nine hours and thirty-one minutes of recording per survey night, per survey site for a total of approximately seventy-six hours and eight minutes of survey time. This level of effort meets recommended survey protocols for an aerial survey based on the 2020 Indiana Bat Summer Survey Guidelines (USFWS, 2020).

4.4 Data Analysis Methods

All bat calls were downloaded from the detectors into an archive folder with separate subfolders for each recording site. These files are generally known as the 'raw' data and will be kept on file for a minimum of seven years. The files were then copied and re-named with a set prefix of the survey type 'PAS' (passive detector), the project name 'I49Ind' (I-49 Industrial Center), the location 'Sit1' or 'Sit2' (Site 1 or Site 2), the detector type 'D500' (Petterson D500x), and the recording date and time 'YYYYMMDD_hhmmss' using the SonoBat Data Wizard software. An example of nomenclature is 'PAS_I49Ind_Sit1_D500-20210521_203822.wav' The SonoBat Data wizard was also used to attribute the files with the following metadata for each recording:

- State
- County
- Town
- Project Name
- Loc Position
- Recorded By
- Mic Model

- Mic Height
- Mic Orientation
- Mic Weatherproofing
- Weather

Please note the SonoBat Wizard was used solely to rename and attribute the files with metadata and is not used to classify any of the recorded bat calls, nor does it modify the calls in any way.

All bat calls were then subjected to USFWS-approved automated acoustic bat ID software program Kaleidoscope Pro to determined which species of bats were recorded at the project area. Automated software type and settings are shown below in Table 3.

Table 3. Software and Settings

Software	**Version**	**Classifier**	**Region**	**Setting**
Kaleidoscope Pro	5.4.0	B.N.A. 5.4.0	Missouri	0 Bal. (Neutral)
Signal Parameters				
(kHz) Minimum and Maximum Frequency Range:				8-120
(ms) Minimum and Maximum Length of Detected pulses:				2-500
(ms) Maximum inter-syllable gap:				500
Minimum number of pulses:				2
When zero crossing for conversion or analysis, enhance with advanced signal processing:				Yes

Within the Kaleidoscope Pro software, setting the correct classifier and region is critical in getting accurate identifications. Not only because only certain classifiers are approved by USFWS, but also because the classifier is programmed to determine which species of bats could be present in a certain location. Thus, by using the Bats of North America Classifier with the Missouri region, the software will only analyze for and identify bat species which are found in Missouri. This prevents the automated ID from generating false positives or false negatives for species having similar calls but with ranges that do not overlap at the location of the project. For the classifier 'Bats of North America' and Region 'Missouri', the species included are:

- *Eptesicus fuscus* - Big Brown Bat
- *Lasiurus borealis* – Eastern Red Bat
- *Lasiurus cinereus* – Hoary Bat
- *Lasionycteris noctivagans* – Silver Haired Bat
- *Myotis austroriparius* – Southeastern Myotis
- *Myotis grisescens* – Gray Bat

- *Myotis leibii* – Eastern Small-Footed Myotis
- *Myotis lucifugus* – Little Brown Bat
- *Myotis septentrionalis* – Northern Long Eared Bat
- *Myotis sodalis* – Indiana Bat
- *Nycticeius humeralis* – Evening Bat
- *Perimyotis subflavus* – Tricolored bat

The software utility uses a decision engine based on the quantitative analysis of known recordings of bat echolocation calls (exact number varies by species). During the analysis process, call pulses within a file were automatically recognized and sorted, then processed to extract unique parameters that describe the time-frequency and time-amplitude trends of each call.

The quality and accuracy of this call classification depends upon the quality of the recorded signals. While derived from a robust data set acquired from a variety of environments and conditions, the data set nevertheless encompasses a finite set of vocalizations from each species covered. Bats exhibit considerable plasticity in their vocalizations and considerable overlap in call parameters among species; this coupled with complications from noise and weak signals (as from bats at a greater distance from the detector) can potentially result in a recording from one species with parameters that match the expected parameter space of another species, resulting in a misclassification. With most passive recordings, many of the call sequences obtained will be of insufficient quality to render an unambiguous classification result. This is largely due to stationary microphones (as those deployed in any passive monitoring activity) and their inability to follow bats as they echolocate past the recording device. As a result, only a portion of the call will be well within the microphone's best cone of reception throughout the duration of the call. This often results in shorter call sequences and suboptimal signal to noise ratios. Both situations can confound accurate call classification. A bat's behavior may also impact the call types produced. As bats approach an object (*i.e.*, an insect, potential prey item, or obstacle, such as a bat detector on a stick), calls often become shorter in duration and higher in frequency, thus becoming more difficult to accurately classify.

In order to address the possibility of misclassifications or what is also described as false positives and false negatives, the software utilizes a maximum-likelihood-estimator (MLE) P-value approach to determine the accuracy of each species determination. As described by Wildlife Acoustics:

> *"The method described takes two inputs. First, there are the classification results* e.g. *How many detections of each bat did the classifier find? Second, there is the confusion matrix representing the known error rates across all the classifiers. For example, 70% of MYLU [Myotis lucifugus] calls are correctly classified as MYLU while 3% of MYLU calls are misclassified as MYSO [Myotis sodalis],* etc.
>
> *The maximum likelihood estimator determines what the most likely distribution of different species are that would result in the observed classifications given the classifier error rate. Then, to calculate P-values, a given species is clamped as absent and the most likely distribution is recalculated. The ratio of the clamped likelihood divided by the original likelihood is the P-value.*
>
> *In layman's terms, if we run an automated classifier on a data set, we will end up with a number of classifications for each species found in the data. From this, we want to determine the likelihood of presence or absence by calculating the P-value corresponding to the null hypothesis of absence. A low (near zero) p-value would therefore suggest presence." (Agranat 2018).*

Per the 2020 Indiana Bat Summer Survey Guidelines, calls identified by the software as Indiana Bats or NLEBs, must have an MLE of 0.05 or less per site per night for the species to be determined present. If the MLE is greater than 0.05 per site per night, then the probability that the targeted species was actually recorded is too low and presence cannot be confirmed.

Several main call parameters were extracted from every sound file processed by the automatic classification software. These parameters were saved in a Microsoft Excel spreadsheet and were referenced back to the original recording via filename, which included the date/time-stamp for each recording location. Parameters written to the Excel spreadsheet that are relevant to this report included the following:

- Data and time
- Auto-id species decision
- Number individual call pulses
- Number of matching call pulses
- Match ratio

- Alternate id 1
- Alternate id 2
- Average characteristic frequency of pulses in the sequence
- Characteristic slope of the call
- Average duration of the call pulses in the sequence,
- Frequency with the greatest power (kHz)
- Many other measurements of the call sequence.

A summary Excel spreadsheet is also created by the automatic classification software. This spreadsheet summarizes the automatic classification of the calls by site by night. The summary info includes the following:

- Site #1 and Site #2
- Each night
- Bat Species
- Number of Calls Identified to species
- Number of Calls that were not Identified
- Number of Noise files
- The MLE Value per site per night

Finally, it is important to recognize all classifications rendered in this report are "suggested classifications" and refer to call sequences that approximate, with varying degrees of certainty (as identified by the MLE assigned by the software), the typical call characteristics identified for the known species that where documented during the development of the automated analysis software. Bat echolocation call sequences identified to species during this analysis are those which share characteristics identical to those recorded for that species under controlled conditions where sequences were collected from species identified with 100% confidence. Many species of bats can exhibit similar call characteristics under certain field conditions. This can prevent reliable identification absent visual confirmation of the bat in flight and/or physical capture of the individual allowing morphological characteristics to be viewed in the hand. The species suggested by the echolocation sequences recorded during this project approximate, to varying degrees of certainty (as recorded by the MLE identified for each sequence), characteristics of echolocation call parameters known for those species. The classifications rendered by the software used for analysis are robust, but by no means provide infallible results to determine absolute species presence.

5.0 RESULTS AND ANALYSIS

A total of 558 files were recorded by the two Petterson D500x full-spectrum detectors at two different locations over the eight acceptable detector nights for this project. The 558 files were then processed using the Kaleidoscope Pro software; and 437 were recognized as bat calls and identified to species, 107 files were recognized as bat calls but were not identified to species, and 14 files were determined to be noise. Photographic documentation of detector deployment can be found in Appendix A and Acoustic Survey Data Sheets are provided in Appendix B.

Of the calls identified to species, none were identified as Indiana Bat or NLEB. Of the calls identified to species, 271 were identified as big brown bat, 51 were identified as eastern red bat, 90 were identified as hoary bat, 9 were identified as silver haired bat, 9 were identified as little brown bat, 6 were identified as evening bat, and 1 was identified as tricolored bat. Table 4 below shows the totals calls per site per night and the MLE values for the identified calls per night. The original outputs from the software can be found in Appendix C.

Table 4. Identified Calls

Date	Identified Calls									MLE Value							
	EPTFUS	LASBOR	LASCIN	LASNOC	MYOLUC	NYCHUM	PERSUB	NOID	Noise	EPTFUS	LASBOR	LASCIN	LASNOC	MYOLUC	MYOSEP	NYCHUM	PERSUB
Site 1																	
5/21	74	4	18	0	0	1	0	14	3	0	0.0002724	0.0000017	1	1	1	1	1
5/22	32	6	9	1	0	0	0	21	0	0	0.0000006	0.0004844	1	1	1	1	1
5/23	80	12	25	7	0	2	0	21	2	0	0	0	1	1	1	1	1
5/24	33	16	25	0	0	0	0	14	1	0	0	0	1	1	1	1	1
Site 2																	
5/21	3	2	3	0	1	0	0	6	4	0.013819	0.0129638	0.005555	1	0.493477	1	1	1
5/22	39	6	1	0	3	2	0	14	0	0	0.0000138	1	1	0.204324	1	1	1
5/23	6	4	7	1	2	1	1	12	2	0.000453	0.0003328	0.0000023	1	0.3662356	1	1	0.3662356
5/24	4	1	2	0	3	0	0	5	2	0.000896	0.3291773	0.0812162	1	0.0058678	1	1	1
Total	**271**	**51**	**90**	**9**	**9**	**6**	**1**	**107**	**14**								

As shown above by the highlighted cells, the big brown bat, the eastern red bat, the hoary bat, and the little brown bat had MLE values less than 0.05 and therefore have a high probability of being present at the project area. The remaining species identified, had an MLE value greater than 0.05 and therefore have a low probability of being present, and presence cannot be confirmed. Below are visual examples of the calls recorded for the species determined to be present (MLE less than 0.05). Please note, the examples below are calls from this project which were identified by the software: they were not manually vetted to confirm species.

Image 1. EPTFUS Example

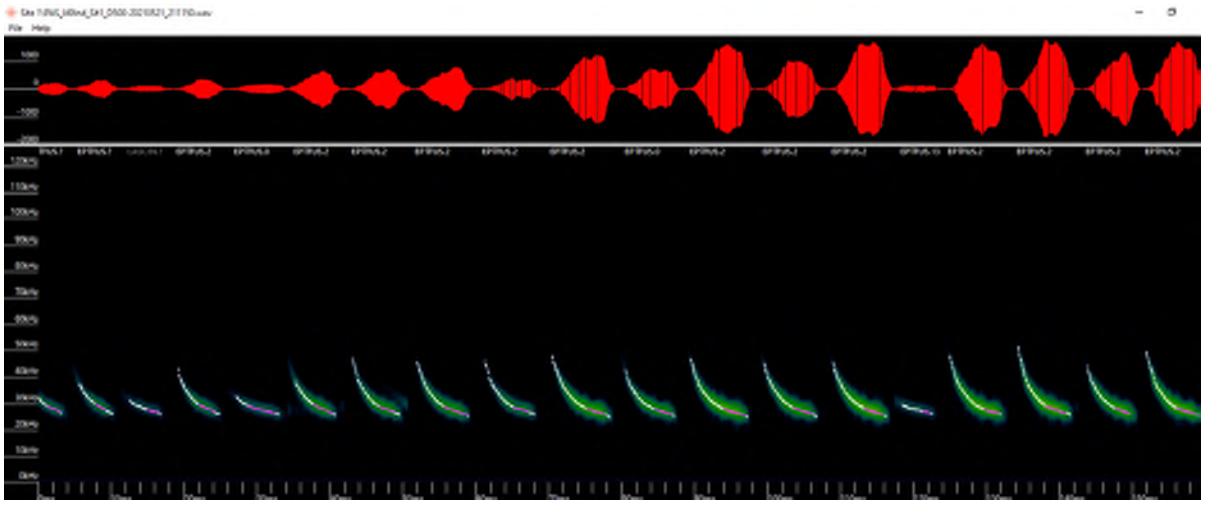


Image 2. LASBOR Example

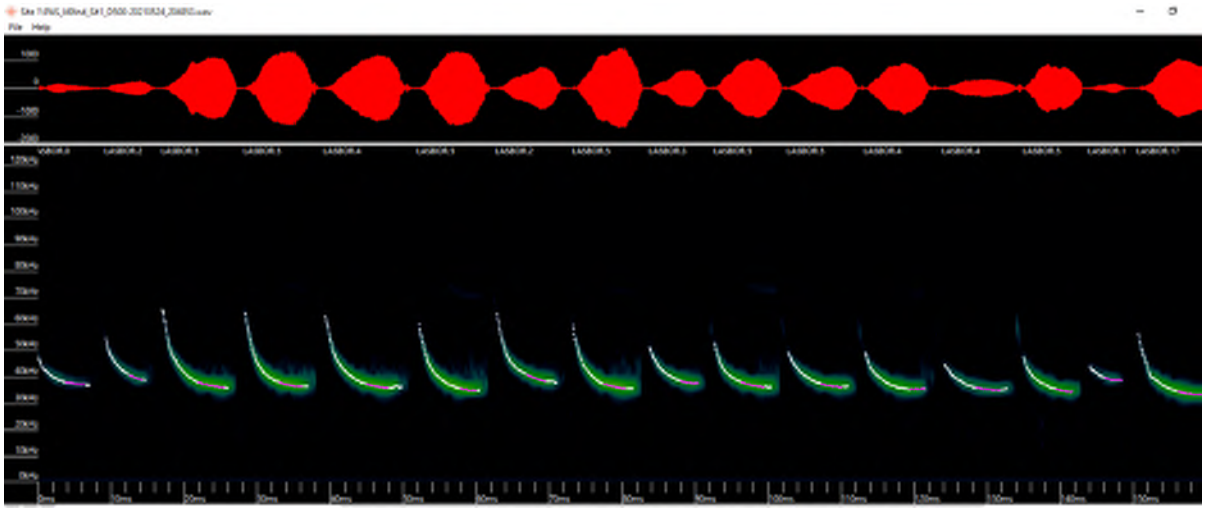


Image 3. LASCIN Example

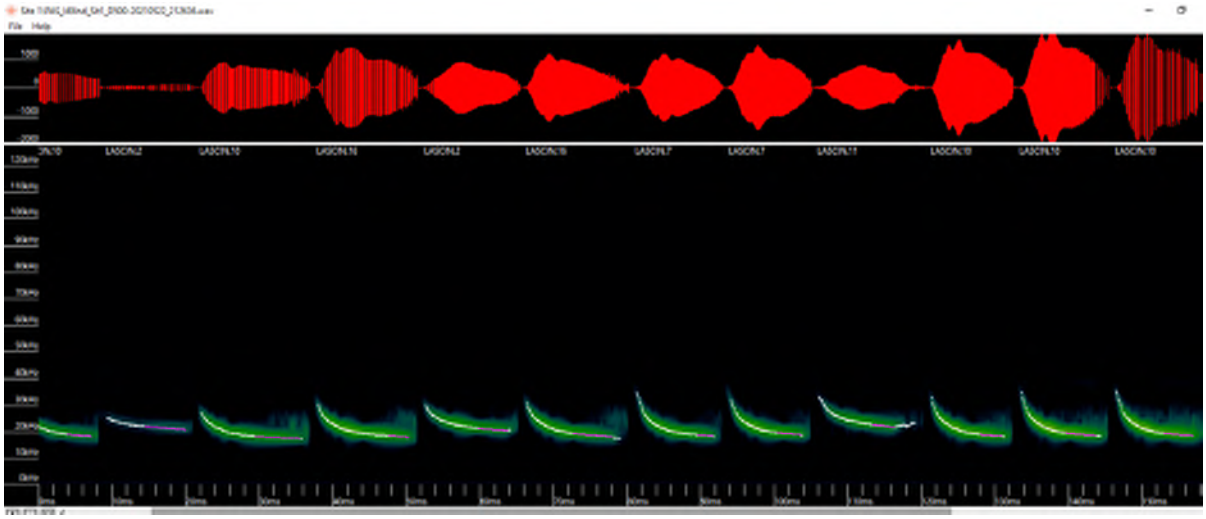
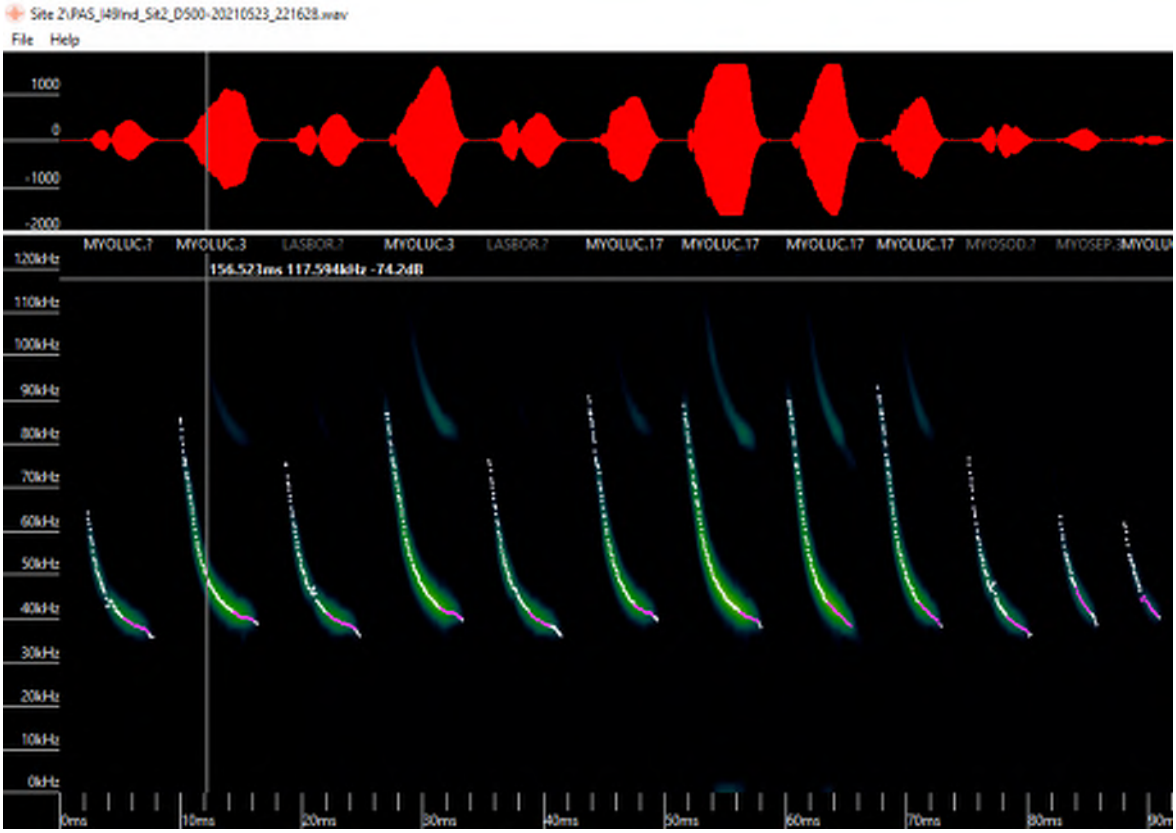


Image 4. MYOLUC Example



6.0 CONCLUSIONS

There is a low probability Indiana Bats or NLEBs are present at the project area as no Indiana Bat or NLEB calls were identified by the software. Therefore, both Indiana bats and NLEBs did not have an MLE of 0.05 or less. While no Indiana Bat or NLEB calls were identified, calls from big brown bats, eastern red bats, hoary bats, silver haired bats, little brown bats, evening bats, and tricolored bats were identified by the software, though only big brown bats, eastern red bats, hoary bats, and little brown bats had an MLE low enough to confirm the presence of those species. Because the software used indicates the absence of Indiana bats and NLEBs, no further qualitative analysis (manual vetting) is required.

Because the project area is not within a known Indiana Bat or NLEB maternity home range, is not at a known Indiana Bat or NLEB hibernacula or their surrounding spring-staging and fall-swarming zones, and because the acoustic survey indicates a high probability the target species are absent from the project area, it is likely the USFWS will determine that the mechanical clearing of approximately 33.77 acres of forested land at the project area will not adversely affect the regulated species.

7.0 REFERENCES

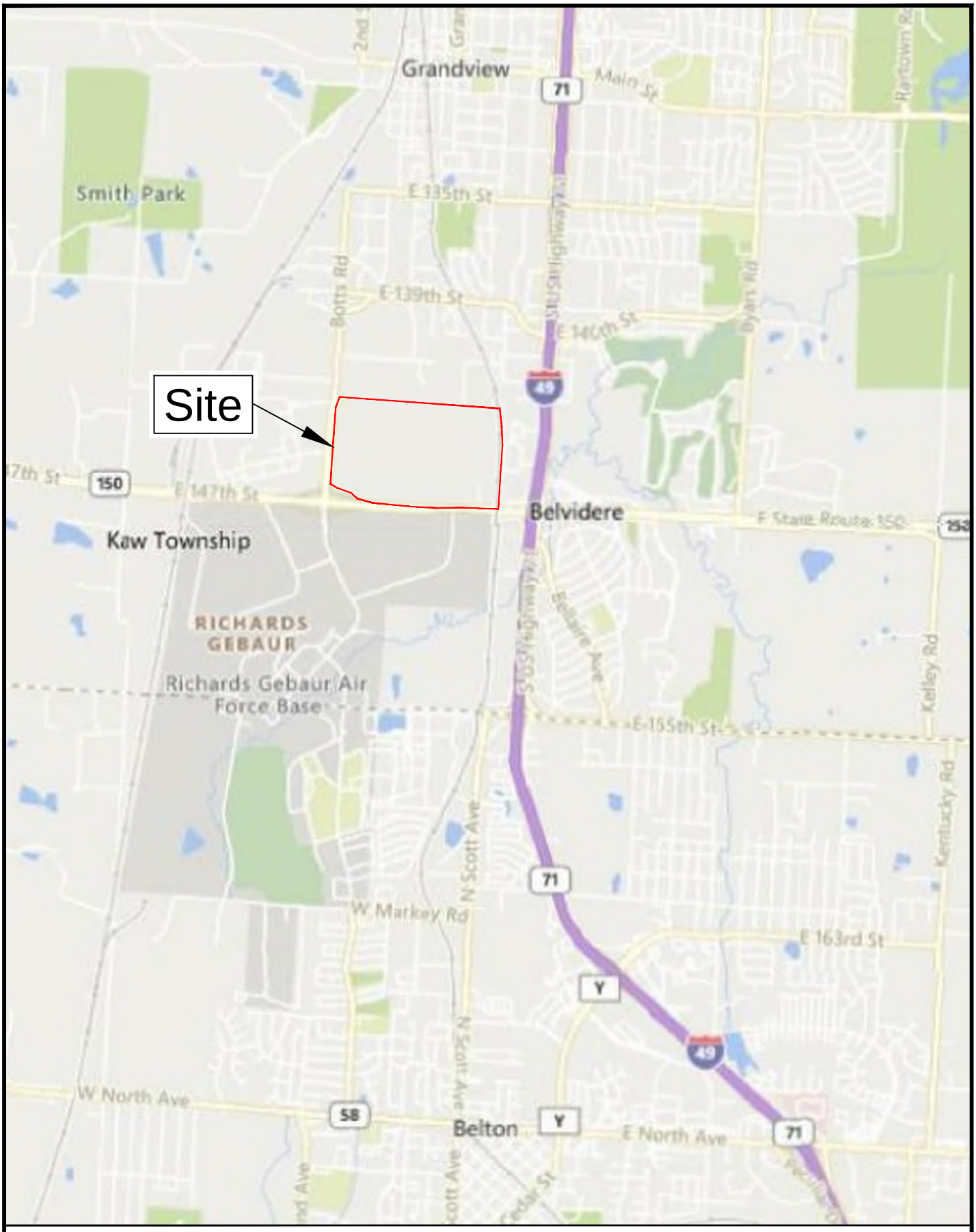
Agranat, Ian July 19, 2018; Wildlife Acoustics. Explaining Maximum Likelihood Estimators (MLE) and P-Values Used in Kaleidoscope. Accessed on June 11, 2019 https://www.wildlifeacoustics.com/blog/home/explaining-maximum-likelihood-estimators-mle-and-p-values-used-in-kaleidoscope

Google Inc. 2019. Google Earth (Version 7.3.2.5776) [Software]. http://www.google.com/earth/download/ge/agree.html

U.S. Fish and Wildlife Service (USFWS). 2020. Range-Wide Indiana Bat Survey Guidelines. Retrieved from: https://www.fws.gov/midwest/endangered/mammals/inba/surveys/pdf/FINAL%20Range-wide%20IBat%20Survey%20Guidelines%203.23.20.pdf Accessed on: April 27, 2020.

Sincerely,
TERRA TECHNOLOGIES INC.

Danny DeAngelo
Senior Environmental Scientist



Revisions		
No.	Description	Date

Terra Technologies

6240 West 135th Street, Suite 100, Overland Park, KS 66223

I-49 Industrial Center
Kansas City, Jackson County, Missouri

Site Location Map

DRAWING	DATE
FIG 1a	JUN 2021



Revisions		
No.	Description	Date

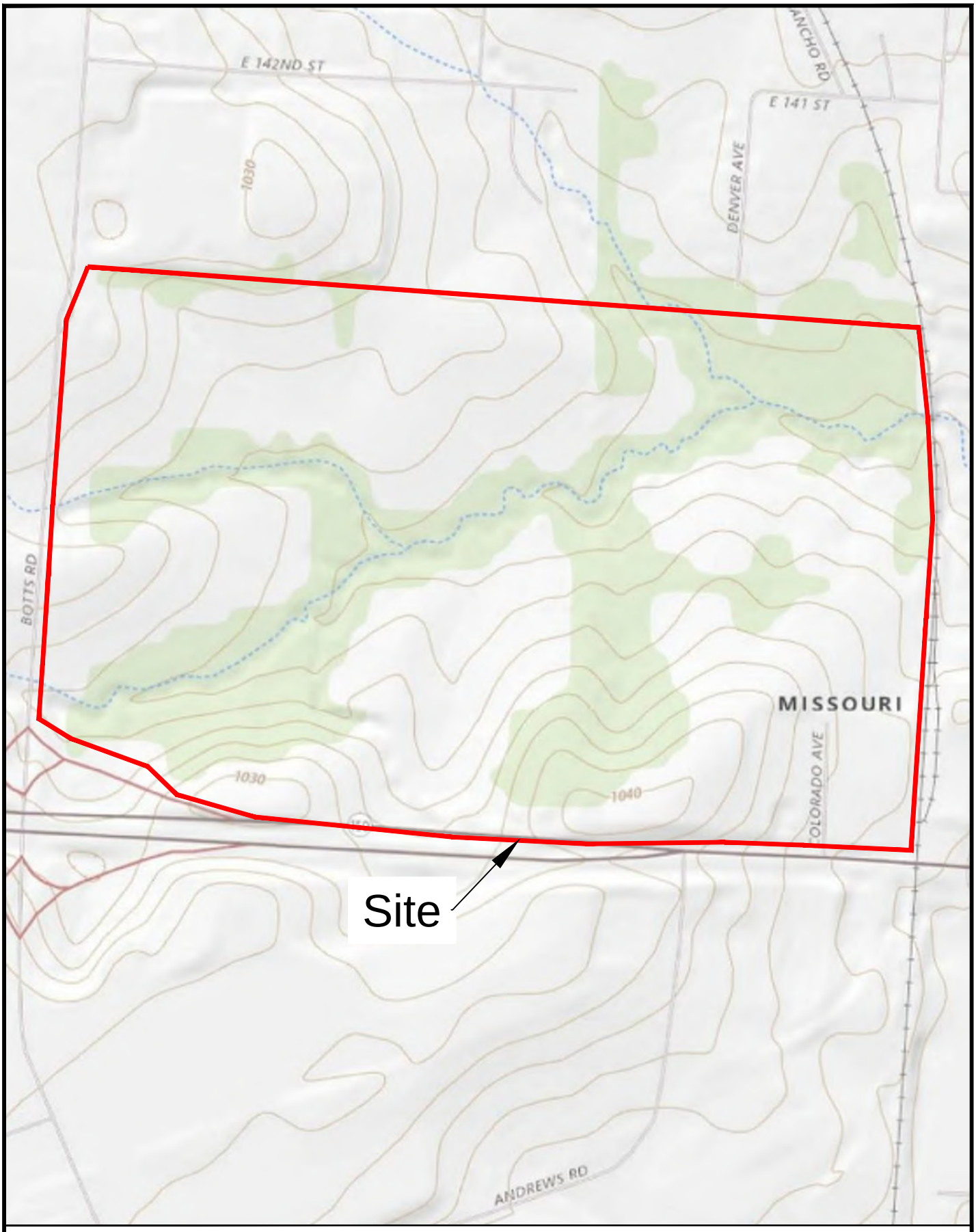
Terra Technologies

6240 West 135th Street, Suite 100, Overland Park, KS 66223

I-49 Industrial Center
Kansas City, Jackson County, Missouri

Section, Township, Range

DRAWING	DATE
FIG 1b	JUN 2021



	Revisions	
No.	Description	Date

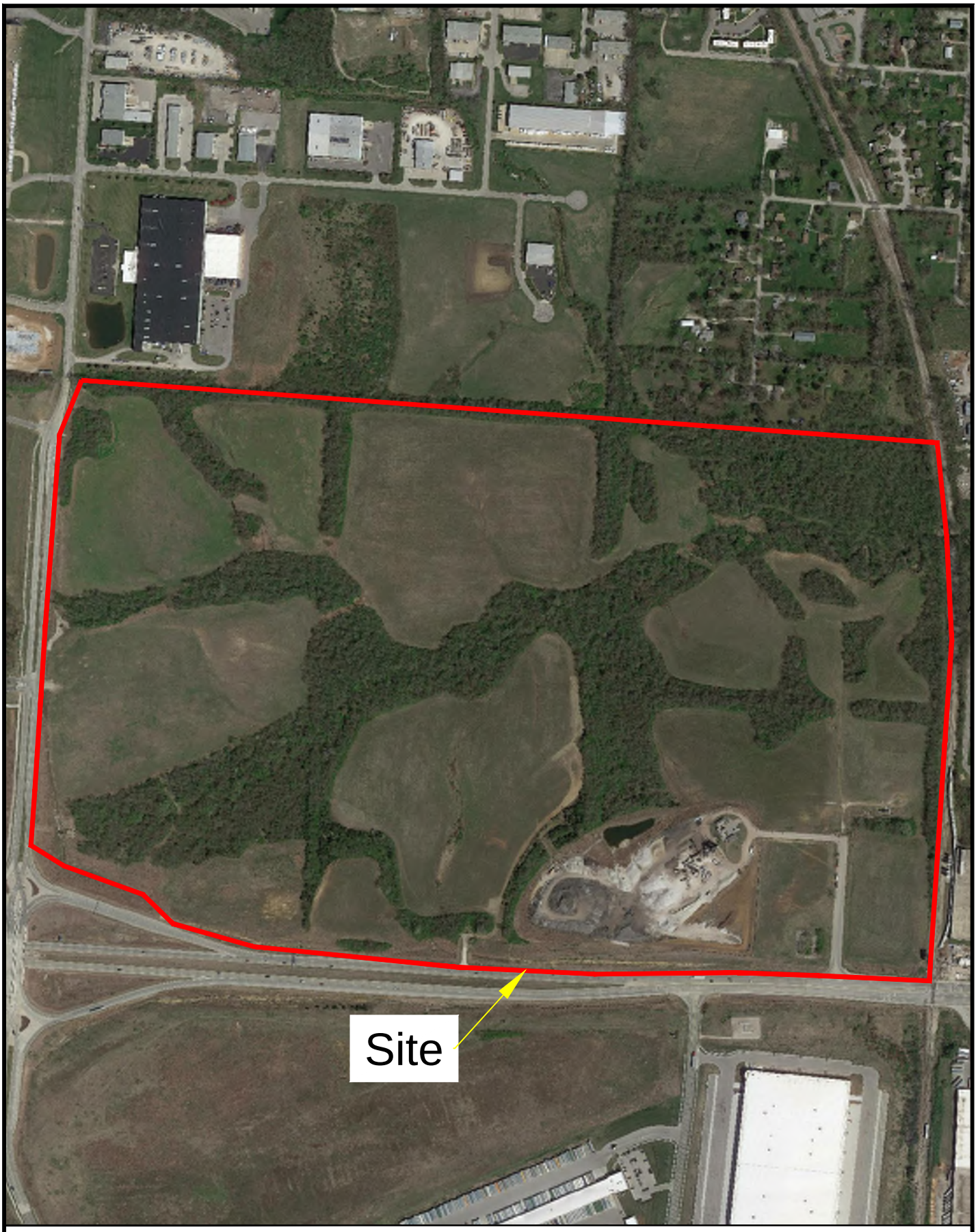
Terra Technologies

6240 West 135th Street, Suite 100, Overland Park, KS 66223

I-49 Industrial Center
Kansas City, Jackson County, Missouri

USGS Topography

DRAWING	DATE
FIG 1c	JUN 2021



	Revisions	
No.	Description	Date

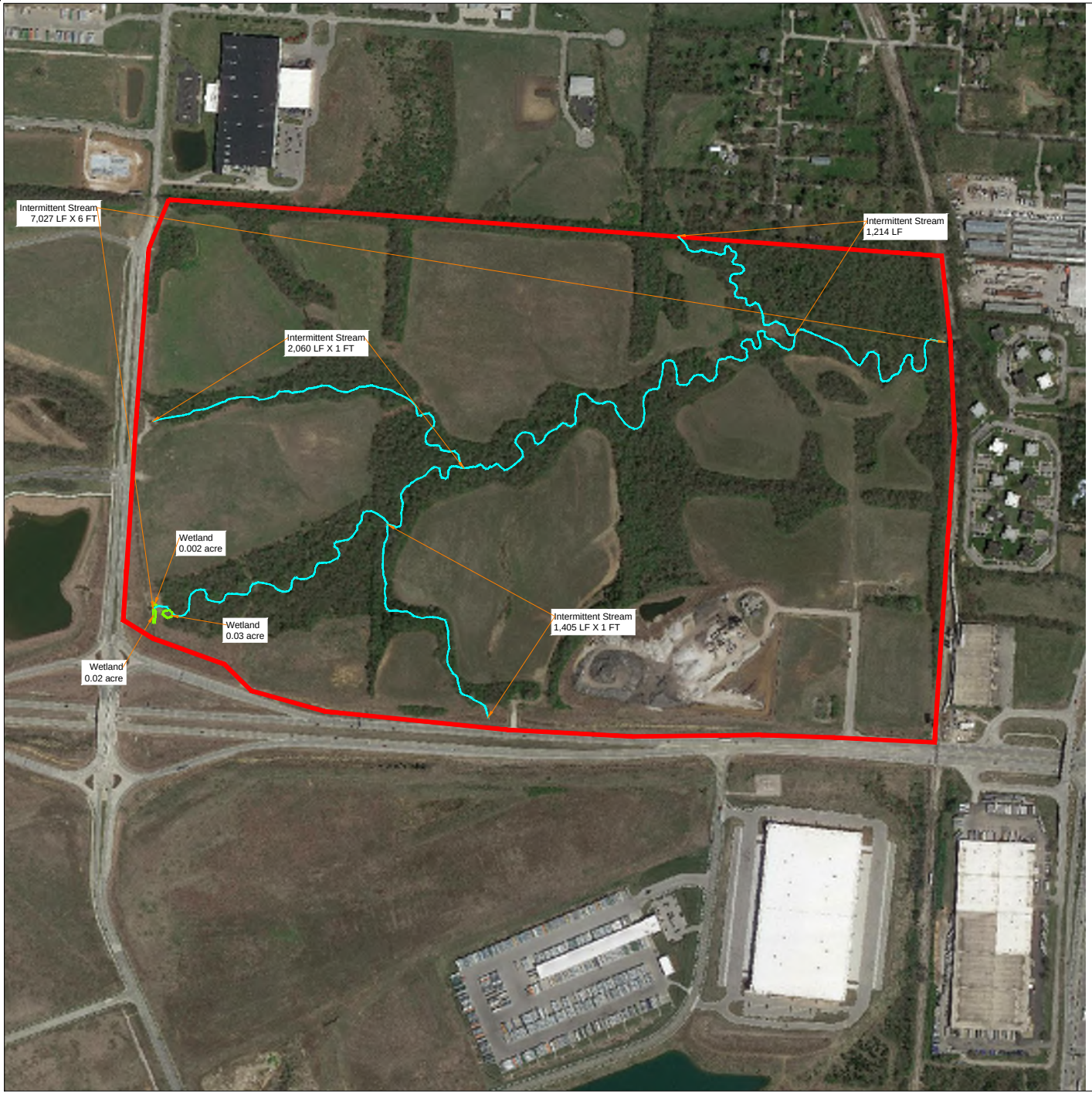
Terra Technologies

6240 West 135th Street, Suite 100, Overland Park, KS 66223

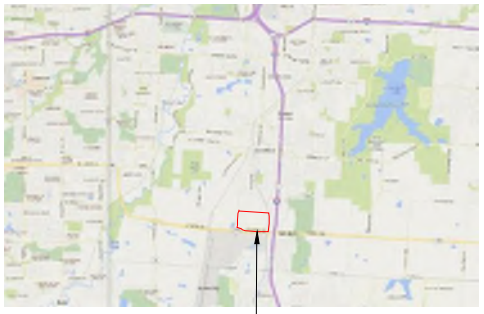
I-49 Industrial Center
Kansas City, Jackson County, Missouri

Aerial Photograph

DRAWING	DATE
FIG 1d	JUN 2021



Please note that the features shown are the features determined to be jurisdictional waters by the USACE. Additional non-jurisdictional waters are present at the site but were not included on this map as Terra Technologies did not perform the delineation and therefore does not have the linework/extents of all the site features.



Site Location
T47N-R33W-S26
Kansas City, Jackson County, Missouri
258.25 Acres
Lat. 38.86113
Long. -94.53828

GRAPHIC SCALE
250 0 125 250 500 1,000
(IN FEET)
1 inch = 250 ft.

Terra Technologies
6240 W. 135th St., Ste. 100
Overland Park, Kansas 66223
Tel 913.385.9560 Fax 913.385.5295

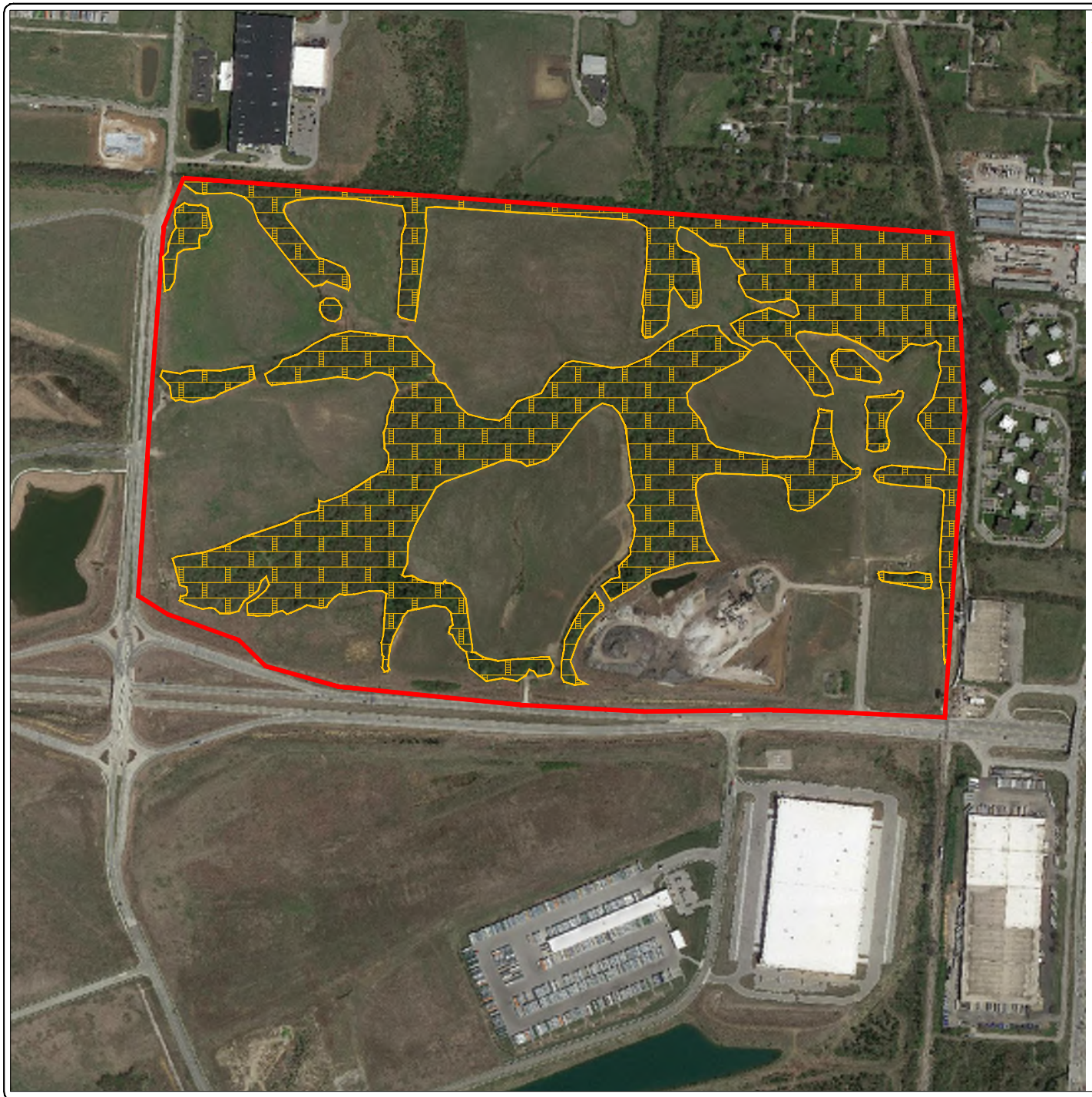
FIGURE 2

SHEET TITLE: SITE FEATURES
PROJECT: I-49 INDUSTRIAL CENTER
CLIENT: PLATFORM VENTURES

REVISIONS

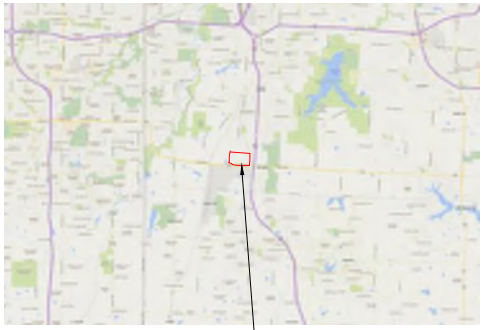
DATE	DESCRIPTION

DATE 06/7/21
CHECKED BY JMK DRAWN BY DTD
SHEET NO. SF
JOB NO. XXX



Habitat Assessment

Suitable Indiana Bat and Northern Long Eared Bat Habitat
85.86 Acres



Site Location
T47N-R33W-S26
Kansas City, Jackson County, Missouri
258.25 Acres
Lat. 38.86113
Long. -94.53828

GRAPHIC SCALE
250 0 125 250 500 1,000
(IN FEET)
1 inch = 250 ft.

Terra Technologies
6240 W. 135th St., Ste. 100
Overland Park, Kansas 66223
Tel 913.385.9560 Fax 913.385.5295

FIGURE 3

SHEET TITLE: HABITAT ASSESSMENT
PROJECT: I-49 INDUSTRIAL CENTER
CLIENT: PLATFORM VENTURES

REVISIONS	
DATE	DESCRIPTION

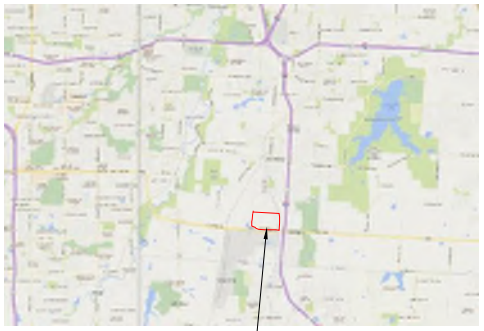
DATE 6/7/21
CHECKED BY JMK DRAWN BY DTD
SHEET NO. HA
JOB NO. XXX



ACOUSTIC SURVEY

Site #1
Petterson D500x
Four Detector Nights
Located along Forested Edge overlooking a stream channel.
Microphone pointing along edge of forested area and over stream.

Site #2
Petterson D500x
Four Detector Nights
Located in linear forested opening.
Microphone pointing along linear opening.



Site Location
T47N-R33W-S26
Kansas City, Jackson County, Missouri
258.25 Acres
Lat. 38.86113
Long. -94.53828

GRAPHIC SCALE
250 0 125 250 500 1,000
(IN FEET)
1 inch = 250 ft.

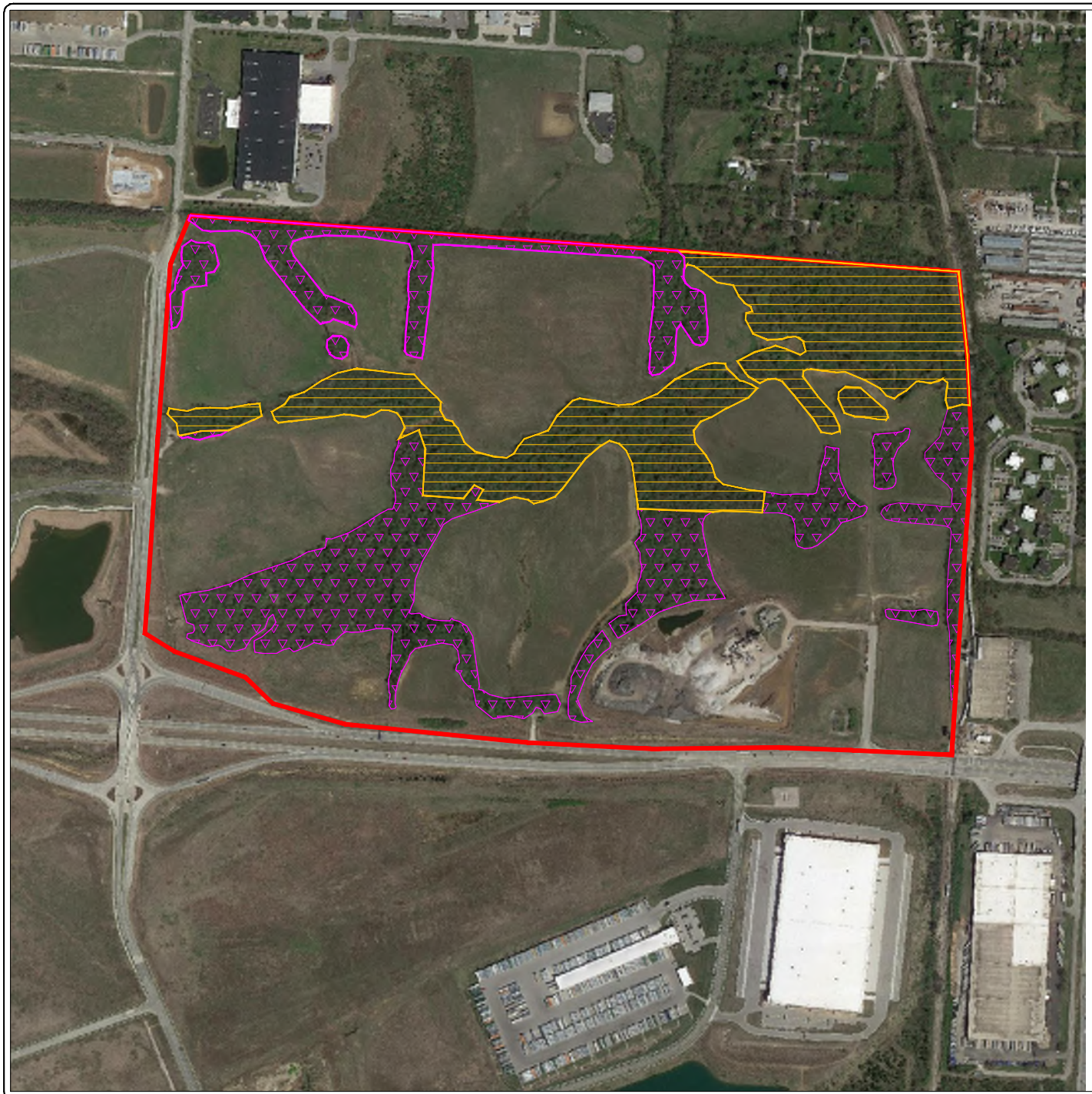
Terra Technologies
6240 W. 135th St., Ste. 100
Overland Park, Kansas 66223
Tel 913.385.9560 Fax 913.385.5295

FIGURE 4

SHEET TITLE: STUDY PLAN
PROJECT: I-49 INDUSTRIAL CENTER
CLIENT: PLATFORM VENTURES

REVISIONS	
DATE	DESCRIPTION

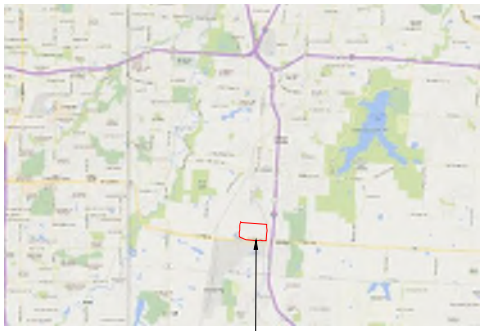
DATE 6/7/21
CHECKED BY JMK DRAWN BY DTD
SHEET NO. SP
JOB NO. XXX



Forested Areas and Clearing

Suitable Habitat Clearing
45.33 Acres

Suitable Habitat Reserve (No Clearing)
40.53 Acres



Site Location
T47N-R33W-S26
Kansas City, Jackson County, Missouri
258.25 Acres
Lat. 38.86113
Long. -94.53828

GRAPHIC SCALE
250 0 125 250 500 1,000
(IN FEET)
1 inch = 250 ft.

Terra Technologies
6240 W. 135th St., Ste. 100
Overland Park, Kansas 66223
Tel 913.385.9560 Fax 913.385.5295

FIGURE 5

SHEET TITLE: FORESTED AREAS AND CLEARING
PROJECT: I-49 INDUSTRIAL CENTER
CLIENT: PLATFORM VENTURES

REVISIONS	
DATE	DESCRIPTION

DATE 6/7/21
CHECKED BY JMK DRAWN BY DTD
SHEET NO. FC
JOB NO. XXX

PHOTO LOG

DATE: 5/21/21 TAKEN BY: DD	SITE NAME: I49 INDUSTRIAL CENTER
COMMENTS: Photograph facing north showing the detector setup at Site #1. PHOTO #: 1	

DATE: 5/21/21 TAKEN BY: DD	SITE NAME: I49 INDUSTRIAL CENTER
COMMENTS: Photograph facing east northeast showing the area the microphone is pointing towards. PHOTO #: 2	

PHOTO LOG

DATE: 5/25/21 TAKEN BY: DD	SITE NAME: I49 INDUSTRIAL CENTER
COMMENTS: Photograph facing north showing Site #1 was in good working order before it was taken down at the conclusion of the survey. PHOTO #: 3	

DATE: 5/21/21 TAKEN BY: DD	SITE NAME: I49 INDUSTRIAL CENTER
COMMENTS: Photograph facing southeast showing the detector setup at Site #2. PHOTO #: 4	

PHOTO LOG

DATE: 5/21/21 TAKEN BY: DD	SITE NAME: I49 INDUSTRIAL CENTER
COMMENTS: Photograph facing southwest from behind the microphone showing the linear forested opening it is pointed towards. PHOTO #: 5	

DATE: 5/25/21 TAKEN BY: DD	SITE NAME: I49 INDUSTRIAL CENTER
COMMENTS: Photograph facing southeast showing Site #2 was in good working order before it was taken down at the conclusion of the survey. PHOTO #: 6	

Acoustic Survey Datasheet

Site Deployment

Project Name:	I49 Industrial Center		
Site:	#1	Surveyor:	D. DeAngelo
Latitude:	38 . 86368	Detector ID:	52383
Longitude:	– 94 . 53174	Positional Accuracy:	± 5m
Start Date:	5 / 21 / 2021	Start Time (military):	20 : 32
End Date:	5 / 25 / 2021	End Time (military):	06 : 03

Detector Settings

Detector Brand:	Petterson
Detector Model:	D500x
Weatherproofing:	None on Microphone
Sensitivity Setting:	N/A to D500x

Microphone

Model:	D500x External
Height:	6 m
Vert. Orientation:	68 °
Horiz. Orientation:	0 °

Habitat

Habitat Type:	Forest
Habitat Features:	Forested edge and stream

☐ Flyway ☑ Water ☑ Edge ☐ Canopy Gap ☐ Other:

Distance to nearest vegetation

N:	4 m	S:	100+ m	Canopy Openness (%):	90
E:	60 m	W:	30 m	Basal Area:	2

Acoustic Survey Datasheet

Site Deployment

Project Name:	I49 Industrial Center		
Site:	#2	Surveyor:	D. DeAngelo
Latitude:	38 . 86025	Detector ID:	52380
Longitude:	– 94 . 54407	Positional Accuracy:	± 5m
Start Date:	5 / 21 / 2021	Start Time (military):	20 : 31
End Date:	5 / 25 / 2021	End Time (military):	06 : 03

Detector Settings

Detector Brand:	Petterson
Detector Model:	D500x
Weatherproofing:	None on Microphone
Sensitivity Setting:	N/A to D500x

Microphone

Model:	D500x External
Height:	6 m
Vert. Orientation:	207 °
Horiz. Orientation:	0 °

Habitat

Habitat Type:	Forest
Habitat Features:	Linear Forested Opening

☑ Flyway ☐ Water ☑ Edge ☑ Canopy Gap ☐ Other:

Distance to nearest vegetation

N:	30 m	S:	50 m	Canopy Openness (%):	60
E:	4 m	W:	10 m	Basal Area:	3

KALEIDOSCOPE 5.4.0

Bats of North America 5.4.0	S/A: 0	EPTFUS	LASBOR	LASCIN	LASNOC	MYOAUS	MYOGRI	MYOLEI	MYOLUC	MYOSEP	MYOSOD	NYCHUM	PERSUB	NOID	NOISE
*	*	271	51	90	9				9			6	1	107	14
Site 1	*	219	38	77	8							3		70	6
	20210521	74	4	18								1		14	3
	20210522	32	6	9	1									21	0
	20210523	80	12	25	7							2		21	2
	20210524	33	16	25										14	1
Site 2	*	52	13	13	1				9			3	1	37	8
	20210521	3	2	3					1					6	4
	20210522	39	6	1					3			2		14	0
	20210523	6	4	7	1				2			1	1	12	2
	20210524	4	1	2					3					5	2

Presence P	EPTFUS	LASBOR	LASCIN	LASNOC	MYOAUS	MYOGRI	MYOLEI	MYOLUC	MYOSEP	MYOSOD	NYCHUM	PERSUB
	0	0	0	1	1	1	1	0.4535087	1	1	1	1
	0	0	0	1	1	1	1	1	1	1	1	1
	0	0.0002724	0.0000017	1	1	1	1	1	1	1	1	1
	0	0.0000006	0.0004844	1	1	1	1	1	1	1	1	1
	0	0	0	1	1	1	1	1	1	1	1	1
	0	0	0	1	1	1	1	1	1	1	1	1
	0	0	0.0000498	1	1	1	1	0.0012348	1	1	1	1
	0.013819	0.0129638	0.005555	1	1	1	1	0.493477	1	1	1	1
	0	0.0000138	1	1	1	1	1	0.204324	1	1	1	1
	0.0004593	0.0003328	0.0000023	1	1	1	1	0.3662356	1	1	1	0.8434976
	0.0008965	0.3291773	0.0812162	1	1	1	1	0.0058678	1	1	1	1

| | | |

TERRA TECHNOLOGIES

DANNY DEANGELO Senior Environmental Scientist

Mr. DeAngelo performs wetland and stream system jurisdictional assessments, assists with Clean Water Act Section 404 and 401 permitting, endangered species habitat surveys, and endangered species surveys. He also helps design large scale wetland and riparian restoration projects as well as biotechnical engineering stream stabilization projects. Additionally, Mr. DeAngelo performs construction oversight on stream stabilization projects and wetland restorations.

Mr. DeAngelo brings extensive biotechnical and natural resources construction experience to Terra Technologies.
In his previous positions he assisted in the design and creation of over a thousand acres of wetlands, riparian areas and prairies. Mr. DeAngelo also took part in many forest restoration projects.

PROFESSIONAL CERTIFICATIONS

- *Member, Society of Wetland Scientists*
- *Approved Special Inspector for Major Land Disturbance Projects in St. Louis County*
- *Certified in Wildland Fire Suppression*

EDUCATION

- *B.S. Environmental Science, Greenville College, 2003*

BACKGROUND

- *Environmental Manager, Parisi Ecoworks Inc.*
- *Prairie and Wetland Restoration Manger, Encap Inc.*
- *Forest Restoration Intern, Zahniser Institute for Environmental Studies*
- *Prairie Management Intern, Illinois Department of Natural Resources*

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Mr. DeAngelo has worked on hundreds of projects in Kansas, Missouri, Ohio, Illinois, and Tennessee delineating 10,000+ acres of land for Clean Water Act wetland and stream jurisdiction, performed endangered species surveys, and endangered species habitat surveys on 1,000+ acres, and has designed many mitigation banks in Kansas and Missouri.

Bat Acoustic Survey Methods Course

Mr. DeAngelo completed the Bat Acoustic Survey Methods Training Course in April 2019 which was provided by a partnership between Bat Conservation Management and Bat Survey Solutions, LLC. This course provided extensive training in the different monitoring types of surveying (active, mobile, and passive), the use of bat detectors (Wildlife Acoustics and Petterson) and their different microphones, the deployment of the detectors, the siting and placement of detector locations. The course also went into great depth in the use of the software Kaleidoscope Pro and Sonobat. In addition to the detectors and software, the course trained Mr. DeAngelo the skills and knowledge to manually identify bat calls. Find more information on this course at: <https://batsurveysolutions.com/pages/bat-acoustic-survey-training>

Evaluating Acoustic Bat Surveys for ESA Compliance

Mr. DeAngelo completed the Evaluating Acoustic Bat Surveys for ESA Compliance Training Course in May 2019 which was provided by the United States Fish and Wildlife Service. This training course provided the knowledge and skills to properly follow the 2019 Range-wide Indian bat (*Myotis sodalis*) Summer survey Guidelines for acoustically assessing presence/probable absence of bats, critically evaluate acoustic surveys and reports for scientific integrity and compliance, describe the advantages and disadvantages of sampling bats using acoustics, properly set up and utilize bat detectors to maximize detectability, and to properly process and analyze acoustic data using each of the USFWS-approved software programs. Find more information on this course at:
https://training.fws.gov/courses/descriptions/CSP2111-Evaluating-Acoustic-Bat-Surveys-for-ESA-Compliance.pdf

Acoustic Bat Surveys

Mr. DeAngelo has been approved by the United States Fish and Wildlife Service to conduct acoustic bat surveys and has completed many acoustic bat surveys within Missouri. Surveys completed include small 10-acre projects to larger 300+-acre projects. All acoustic surveys conducted by Mr. DeAngelo were completed within the timeframes allotted by the regulations and were accepted by the United States Fish and Wildlife Service.

APPENDIX D – NNSA Phase 1 Environmental Site Assessment

(landowner/developer's ESAs included as attachments)

Phase I Environmental Site Assessment

KCNEXT - Botts Campus

14650 Colorado Avenue

Kansas City, Jackson County, MO

May 16, 2023 | Terracon Project No. 02237055

Prepared for:

Tierra Right of Way Services
7500 Jefferson St NE Ste 206
Albuquerque, NM



Prepared by:

Terracon Consultants, Inc.
Lenexa, Kansas

Terracon

Nationwide
Terracon.com

- Facilities
- Environmental
- Geotechnical
- Materials

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May 16, 2023

Tierra Right of Way Services
7500 Jefferson St NE Ste 206
Albuquerque, NM 87109

Attn: Ms. Monica Rodriquez, SR/WA
P: (505) 270-3488
E: mrodriquez@tierra-row.com

Re: Phase I Environmental Site Assessment
KCNEXT - Botts Campus
14650 Colorado Avenue
Kansas City, Jackson County, Missouri
Terracon Project No. 02237055

Dear Ms. Rodriquez:

Terracon Consultants, Inc. (Terracon) is pleased to submit the enclosed Phase I Environmental Site Assessment (ESA) report for the above-referenced subject property (hereinafter known as the 'site'). This assessment was performed in accordance with Terracon Proposal No. P02237055 dated April 13, 2023, Revised. We appreciate the opportunity to be of service to you on this project. In addition to Phase I services, our professionals provide other environmental, geotechnical, construction materials, and facilities services on a wide variety of projects locally, regionally, and nationally. For more detailed information on all of Terracon's services please visit our website at www.terracon.com. If there are any questions regarding this report or if we may be of further assistance, please do not hesitate to contact us.

Sincerely,

Terracon Consultants, Inc.

Melissa A. Dowling
Site Investigation Group Manager

Tracie A. Ragland
Senior Scientist

Attachments

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APPENDICES

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APPENDIX B	Site Photographs
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EXECUTIVE SUMMARY

This Phase I Environmental Site Assessment (ESA) was performed in accordance with Terracon Proposal No. P02237055dated August 13, 2023 Revised and was conducted consistent with the procedures included in ASTM E1527-21, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. The purpose of this ESA was to assist the client in developing information to identify RECs in connection with the site as reflected by the scope of this report. The ESA was conducted under the supervision or responsible charge of Melissa A. Dowling, Environmental Professional. Melissa A. Dowling performed the site reconnaissance on April 13, 2023.

Findings and Opinions

A summary of findings is provided below. It should be recognized that details were not included or fully developed in this section, and the report must be read in its entirety for a comprehensive understanding of the items contained herein.

Site Description and Use

The site is located at 14650 Colorado Avenue in Kansas City, Jackson County, Missouri and is approximately 246 acres. The site is comprised of multiple parcels, one parcel was developed as an asphalt batch plant (now demolished), the remainder of the site was undeveloped land in varying states of clearing and grading and contained an intermittent stream, drainage ditches, and a wetland area on the northeast corner. Current site activities include tree and brush clearing and surface grading activities.

Historical Information

Based on a review of the historical information, the site has primarily consisted of vacant land and cropland with several ponds and intermittent streams across the site from the late 1800s to 1930s. A residential structure / farm structures were evident on site from the mid-1930s to early 1940s. By the late 1940s the residential / farm structures were no longer evident on site. From the 1970s to early 1980s the site appears similar with several unpaved access roads and grading on the northeast corner in 1970, likely related to east adjacent construction activities. A small structure was present on the southeast corner of the site from at least 1985 to 2010s. By at least 2012 a concrete batch plant was present on the west site boundary, likely related to the expansion of Botts Road and the intersection/overpass at Botts Road and 150 Highway. By 2016 to 2020, the site was grass and cropland with several ponds and several intermittent streams that flowed generally to the east, a small structure was present on the southeast corner, west of the access drive (Colorado Avenue), the Ideker asphalt plant was present on the south boundary at 150 Hwy, and several structures were present on the southeast corner of the site, northeast of Colorado Avenue.

Surrounding properties were vacant land/cropland from the late 1800s with a railroad track on the east boundary since at least the early 1930s followed by commercial developments over time, a road corresponding to 150 Highway on the south boundary since at least the early 1930s followed by commercial development over time, a road corresponding to Botts Road on the west boundary

since at least the early 1930s followed by commercial development over time, and residential structures north of the site from at least 1940, commercial structures northwest and north of the site by 2006 and a developing residential neighborhood to the northeast. Recognized Environmental Conditions (RECs) were not identified upon review of the historical information.

Records Review

Selected federal and state environmental regulatory databases as well as responses from state and local regulatory agencies were reviewed. The site is not listed in the regulatory database report. The facilities listed in the database report do not appear to represent RECs to the site at this time based upon regulatory status, apparent topographic gradient, and/or distance from the site. Responses from the local agencies that have responded by the issuance of this report did not reveal RECs to the site.

The Missouri Department of Natural Resources (MDNR) Well Information Management System (WIMS) database was reviewed on April 11, 2023. Two wells were documented on the east side of the site as oil wells (095-21461 and 095-21488) and are listed as drilled in 2013 and the wells were plugged in 2021. Mr. Breslin, owner representative, was interviewed during the site reconnaissance. Mr. Breslin stated the wells were located on the southeast corner of the site and provided the drilling and plugging records for these wells. The records are attached in Appendix C. Based on the plugging status and the relatively short time of operation of the wells, these oil wells do not represent a REC to the site.

Site Reconnaissance

The following items were observed at the site during the site reconnaissance: petroleum pipeline markers for a pipeline which is currently inactive; natural gas pipeline markers; one pole-mounted transformer; one pad-mounted transformer; one, empty municipal waste dumpster; a dumping area on the south boundary; several drainage ditches; one intermittent stream; and two stormwater detention basins. RECs were not observed at the site during the site reconnaissance.

Adjoining Properties

The current day adjoining properties were observed to be the following:

- To the north: SIKA Corporation (NW), vacant lot (N), PODS Moving (N), commercial building under construction (NNE), residential neighborhood (NE)
- To the east: Railroad tracks followed by: Extra Space Storage (NE), Factory Outlet (NE), Cloverleaf Apartments (E), Frontier Bag (SE), Stonehenge Outdoor (SE)
- To the south: 150 Highway followed by: Honeywell (SE), Kinder Morgan pipeline station (SE), Walmart Distribution Center (S), commercial warehouse under construction (S), intersection/overpass of Botts Road and 150 Highway (SW), Centerpoint warehouse (SW)
- To the west: Botts Road followed by: National Nuclear Security Association campus (W), Kelly Construction (NW)

RECs were not observed with the current day adjoining properties.

Significant Data Gaps

No Significant Data Gaps were identified.

Conclusions

We have performed a Phase I ESA consistent with the procedures included in ASTM Practice E1527-21 at 14650 Colorado Avenue, Kansas City, Jackson County, Missouri, the site. Recognized Environmental Conditions (RECs), Controlled RECs (CRECs), and/or Significant Data Gaps (SDGs) were not identified in connection with the site.

Recommendations

Based on the scope of services, limitations, and conclusions of this assessment, Terracon did not identify RECs, CRECs, or SDGs in connection with the site. As such, no additional investigation is warranted at this time. However, Terracon recommends the following:

- During future grading of the site, if the petroleum pipeline is exposed and relocated and petroleum impacts are identified, these should be addressed according to applicable state and local regulations during construction management. Terracon and the Missouri Department of Natural Resources (MDNR) should be contacted if any associated impacts are noted.
- If apparent remnants of oil exploration equipment (such as piping, damaged plugs, etc.) or associated features (such as buried pits) or petroleum impacts are identified during future development/excavation activities at the site, such equipment, features, and/or associated impacts should be properly removed and/or addressed according to applicable state and local regulations during construction management. Terracon and the MDNR should be contacted if any equipment, features, and/or associated impacts are noted.

1.0 INTRODUCTION

1.1 Site Description

Site Name	KCNEXT - Botts Campus
Site Location/Address	14650 Colorado Avenue, Kansas City, Jackson County, Missouri (3 parcels: 67-500-03-41-00-0-00-000, 67-500-03-40-00-0-00-000, 67-500-04-35-00-0-00-000)
Land Area	Approximately 246 acres
Site Improvements	The site is comprised of multiple parcels, one parcel was developed as an asphalt batch plant (now demolished), the remainder of the site was undeveloped land in varying states of clearing and grading and contained an intermittent stream, drainage ditches, and a wetland area on the northeast corner.
Anticipated Future Site Use	Commercial development (Office buildings, parking)
Reason for the ESA	Acquisition

The location of the site is depicted on Exhibit 1 of Appendix A, which was reproduced from a portion of the USGS 7.5-minute series topographic map. The site and adjoining properties are depicted on the Site Diagram, which is included as Exhibit 2 of Appendix A. Acronyms and terms used in this report are described in Appendix F.

1.2 Scope of Services

This Phase I ESA was performed in accordance with Terracon Proposal No. P02237055 dated August 13, 2023 Revised and was conducted consistent with the procedures included in ASTM E1527-21, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. The purpose of this ESA was to assist the client in developing information to identify RECs in connection with the site as reflected by the scope of this report. Recognized environmental conditions are defined by ASTM E1527-21 as "(1) the presence of hazardous substances or petroleum products in, on, or at the subject property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the subject property due to a release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the subject property under conditions that pose a material threat of a future release to the environment." A *de minimis* condition is not a recognized environmental condition.

This purpose was undertaken through user-provided information, a regulatory database review, historical and physical records review, interviews (including local government inquiries, as applicable), and a visual noninvasive reconnaissance of the site and adjoining properties. Limitations, ASTM deviations, and significant data gaps (if identified) are noted in the applicable sections of the report.

1.3 Standard of Care

This ESA was performed in accordance with generally accepted practices of this profession, undertaken in similar studies at the same time and in the same geographical area. We have endeavored to meet this standard of care, but may be limited by conditions encountered during performance, a client-driven scope of work, or inability to review information not received by the report date. Where appropriate, these limitations are discussed in the text of the report, and an evaluation of their significance with respect to our findings has been conducted.

Phase I ESAs, such as the one performed at this site, are of limited scope, are noninvasive, and cannot eliminate the potential that hazardous, toxic, or petroleum substances are present or have been released at the site beyond what is identified by the limited scope of this ESA. In conducting the limited scope of services described herein, certain sources of information and public records were not reviewed. It should be recognized that environmental concerns may be documented in public records that were not reviewed. No ESA can wholly eliminate uncertainty regarding the potential for RECs in connection with a property. Performance of this practice 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 site or otherwise uses the report for any other purpose. These risks may be further evaluated – but not eliminated – through additional research or assessment. We will, upon request, advise you of additional research or assessment options that may be available and associated costs.

1.4 Additional Scope Limitations, ASTM Deviations, and Data Gaps

Based upon the agreed-on scope of services, this ESA did not include subsurface or other invasive assessments, vapor intrusion assessments or indoor air quality assessments (i.e., evaluation of the presence of vapors within a building structure), business environmental risk evaluations, or other services not particularly identified and discussed herein. Credentials of the company (Statement of Qualifications) have not been included in this report but are available upon request. Pertinent documents are referred to in the text of this report, and a separate reference section has not been included. Reasonable attempts were made to obtain information within the scope and time constraints set forth by the client; however, in some instances, information requested is not, or was not, received by the issuance date of the report. 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 ESA was further limited by the following:

- Due to dense vegetation and steep gradient, the far northeast corner of the site (wetland designated area) could not be accessed and the intermittent stream and stream banks could not be accessed, and surface conditions could not be observed. Additionally, other areas of the site were inaccessible due to dense vegetation and wet, muddy conditions. However, based on review of historical maps in Section 3.1 of this report, and observations of the remaining areas of the site, this limitation is not anticipated to alter the conclusions of this report, or prevent the Environmental Professional's (EP's) ability to identify RECs, and is therefore not significant.

An evaluation of the significance of 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. However, it should be recognized that an evaluation of significant data gaps is based on the information available at the time of report issuance, and an evaluation of information received after the report issuance date may result in an alteration of our conclusions, recommendations, or opinions. We have no obligation to provide information obtained or discovered by us after the issuance date of the report, or to perform any additional services, regardless of whether the information would affect any conclusions, recommendations, or opinions in the report. This disclaimer specifically applies to any information that has not been provided by the client.

This report represents our service to you as of the report date and constitutes our final document; its text may not be altered after final issuance. Findings in this report are based upon the site's current utilization, information derived from the most recent reconnaissance and from other activities described herein; such information is subject to change. Certain indicators of the presence of hazardous substances, petroleum products or PFAS compounds may have been latent, inaccessible, unobservable, or not present during the most recent reconnaissance and may subsequently become observable (such as after site renovation or development). Further, these services are not to be construed as legal interpretation or advice.

1.5 Reliance

This ESA report is prepared for the exclusive use and reliance of Tierra Right of Way Services. Use or reliance by any other party is prohibited without the written authorization of Tierra Right of Way Services and Terracon Consultants, Inc. (Terracon).

Reliance on the ESA by the client and all authorized parties will be subject to the terms, conditions and limitations stated in the proposal, ESA report, and the Land Services Subcontract between Tierra Right of Way Services and Terracon. The limitation of liability defined in the Land Services Subcontract is the aggregate limit of Terracon's liability to the client and all relying parties.

Continued viability of this report is subject to ASTM E1527-21 Section 4.6. If the ESA will be used by a different user (third party) than the user for whom the ESA was originally prepared, the third party must also satisfy the user's responsibilities in Section 6 of ASTM E1527-21.

1.6 Client Provided Information

Prior to the site visit, Ms. Monica Rodriguez, client's representative, was asked to provide the following user questionnaire information as described in ASTM E1527-21 Section 6. Ms. Stephanie Loyd with the National Nuclear Security Administration completed the user questionnaire with the information below.

Client Questionnaire Responses

Client Questionnaire Item	Client Did Not Respond	Client's Response	
		Yes	No
Specialized Knowledge or Experience that is material to a REC in connection with the site.			X
Actual Knowledge of Environmental Liens or Activity Use Limitations (AULs) that may encumber the site.		X*	
Actual Knowledge of a Lower Purchase Price because contamination is known or believed to be present at the site.			X**
Commonly Known or Reasonably Ascertainable Information that is material to a REC in connection with the site.			X
Obvious Indicators of Releases at the site.			X

*Client provided Title Search documents, discussed in Section 3.4 and attached in Appendix C.

**Ms. Loyd also stated, "NNSA will negotiate a reasonable purchase price based off FMV as determined by an appraisal."

Terracon's consideration of the client provided information did not identify RECs. A copy of the questionnaire is included in Appendix C.

2.0 PHYSICAL SETTING

Physical Setting Information		Source
Topography		
Site Elevation	Approximately 1040 - 950 feet above sea level	USGS Topographic Map, State of Missouri, Grandview Quadrangle, 1996 (Appendix A)
Topographic Gradient	Sloping to the north - northeast	
Closest Surface Water	An intermittent stream flows across the center of the site from W/SW to N/NE	
Soil Characteristics		
Soil Type	Greenton silty clay loam, 5% to 9% slopes Sampsel silty clay loam, 5% to 9% slopes Kennebec silt loam, 1% to 4% slopes, occasionally flooded	Jackson County, MO USDA-NRCS Web Soil Survey viewed April 10, 2023

Physical Setting Information		Source
Description	The Greenton silty clay loam is found on 5% to 9% slopes. In a typical profile the surface layer is very dark brown, friable silty clay loam. The subsoil is grayish-brown firm silty clay loam and firm silty clay. These soils generally have slow permeability. Surface runoff is generally medium and available water capacity is high. The shrink-swell potential is generally high in the subsoil. The Sampsel silty clay loam is found on 5% to 9% slopes. In a typical profile the surface layer is very dark gray, friable silty clay loam. The subsoil is very dark gray, firm silty clay loam to grayish-brown, firm silty clay. These soils generally have slow permeability. Surface runoff is generally medium and available water capacity is moderate. The shrink-swell potential is generally moderate in the subsoil. Kennebec silt loam is generally found on bottom lands along smaller streams on 1% to 4% slopes. Typically, the surface layer is very dark grayish-brown, friable silt loam. The subsurface layer is very dark gray and black, friable silt loam. Generally, permeability is moderate. Surface runoff is slow and available water capacity is very high. The shrink-swell potential is moderate.	

Physical Setting Information		Source
Geology/Hydrogeology		
Formation	Kansas City Group and Pleasanton Group	State of Missouri, Division of Geological Survey and Water Resources, Guidebook Field Trip Geology of the Kansas City Group at Kansas City, RI 31, November 1965 Geological Map of Missouri, Missouri Geological Survey (MGS), Missouri Department of Natural Resources (MDNR), 1979
Description	Jackson County is located near the middle of an approximate 150-mile wide, north-south trending band of Pennsylvanian Age rocks that is located in western Missouri and eastern Kansas. Generally, the rock beds exhibit a subtle prevailing dip to the west-northwest. A prominent section of Pennsylvanian rock strata is well-exposed in Kansas City, Missouri, in the bluffs along the Missouri River. According to The Stratigraphic Succession in Missouri, Missouri Department of Natural Resources (revised in 1995), the region is underlain by rock units of the Pennsylvanian System and the Missourian Series (Kansas City Group and Pleasanton Group) in the Time Stratigraphic Unit age classification. Alternating layers of shales and limestone, with an occasional sandstone layer, are common in the Kansas City Group. Alternating layers of shale and sandstone, with an occasional coal seam and limestone layer, are present in the Pleasanton Group.	
Estimated Depth to First Occurrence of Groundwater	Approximately 5 to 14 feet below ground surface.	MDNR MGS Geosciences Technical Resource Assessment Tool (GeoSTRAT) website
*Hydrogeologic Gradient	Not known - may be inferred to be parallel to topographic gradient (primarily to east - northeast).	

*The groundwater flow direction and the depth to shallow, unconfined groundwater, if present, would likely vary depending upon seasonal variations in rainfall and other hydrogeological features. Without the benefit of on-site groundwater monitoring wells surveyed to a datum, groundwater depth and flow direction beneath the site cannot be directly ascertained.

3.0 HISTORICAL USE INFORMATION

Terracon reviewed the following historical sources to develop a history of the previous uses of the site and surrounding area, in order to help identify RECs associated with past uses. Copies of selected historical documents are included in Appendix C.

3.1 Historical Topographic Maps, Aerial Photographs, and Sanborn Maps

Readily available historical USGS topographic maps and selected historical aerial photographs (at approximately 10-to-15-year intervals) were reviewed to evaluate land development and obtain information concerning the history of development on and near the site. Reviewed historical topographic maps and aerial photographs are summarized below.

Historical fire insurance maps produced by the Sanborn Map Company were requested from EDR to evaluate past uses and relevant characteristics of the site and surrounding properties. Based upon inquiries to the above-listed Sanborn provider, Sanborn maps were not available for the site. A copy of the "No Coverage" letter is attached in Appendix C.

- Topographic maps: EDR, Belton, **2017**, **2015**, **1995**, **1980**, **1975**, **1970**, **1953**, and **1934** (1:24,000); Olathe, **1893** and **1887** (1:125,000)
- Aerial photographs: EDR, USDA/NAIP, **2020**, **2016**, **2012**, **2009**, and **2006** (1"=625');USGS/DOQQ, **1997** and **1990** (1"=625'); NHAP, **1985** and **1981** (1"=625'); USGS, **1970** and **1948** (1"=625'); USDA, **1979**, **1969**, **1957**, **1952**, **1940**, and **1936** (1"=625'); Google Earth, **2010 - 2012** (variable scale, not included in Appendix C)

Historical Maps and Aerial Photographs

Direction	Description
Site	**1887 – 1893**: Vacant or cropland **1934**: Vacant or cropland with several ponds and several intermittent streams that flowed generally to the east **1936 – 1940**: Grass or cropland, several residential or farm structures were present on the west and north sides of the site, several ponds and several intermittent streams which flowed generally to the east **1948 – 1969**: Grass or cropland, residential or farm structures no longer evident, several ponds and several intermittent streams which flowed generally to the east **1970**: Appeared similar with grading/unpaved access roads on the northeast corner likely associated with the construction activities to the east **1979 – 1981**: Appeared similar with an unpaved access road on the southeast corner from 150 Hwy into the site, grading on the northeast corner was no longer evident

Direction	Description
	1985 – 2009: Grass or cropland with several ponds and several intermittent streams which flowed generally to the east, a small structure was present on the southeast corner, west of the access drive **2012**: Appeared similar with the addition of an apparent concrete batch plant on the west site boundary, likely related to the expansion of Botts Road and the intersection of Botts Road and 150 Hwy to the southwest **2016 – 2020**: Grass or cropland with several ponds and several intermittent streams that flowed generally to the east, a small structure was present on the southeast corner, west of the access drive (Colorado Avenue), an apparent asphalt plant was present on the south boundary at 150 Hwy, and several structures were present on the southeast corner of the site, northeast of Colorado Avenue
North	**1887 – 1893**: Vacant or cropland **1934 – 1936**: Vacant or cropland with several intermittent streams flowing generally to the southeast **1940 – 1997**: Vacant or cropland and several intermittent streams which flowed generally to the southeast, residential structures to the northeast and northwest, with the residential neighborhood to the northeast becoming more developed over time **2006 – 2020**: Grass and treed land north, center with the residential neighborhood to the northeast and commercial structures developed over time to the northwest and north, center
East	**1887 – 1893**: Vacant or cropland **1934 – 2020**: Railroad (RR) tracks **1934 – 1957**: RR tracks followed by grass or cropland with residential and farm structures, and an intermittent stream which flowed from NW to SE **1969 – 2020**: RR tracks followed by developed commercial/industrial properties over time
South	**1887 – 1893**: Vacant or cropland **1934 – 1980**: A road corresponding to 150 Hwy **1981 – 1997**: 150 Hwy **2006 – 2009**: 150 Hwy expanded to 4 lanes **2012 – 2020**: 150 Hwy, 4 lanes, the intersection of 150 Hwy and Botts Road expanded with cloverleafs and exit ramps **1887 – 1936**: Road followed by vacant or cropland **1940**: Road followed by grass land, an apparent concrete pad, and multiple unpaved access roads **1948 – 1952**: Road followed by grass or crop land and an airport runway to the southwest (Part of Richard's Gebaur Air Force Base) **1957 – 2006**: Road followed by Richard's Gebaur Air Force Base developed over time

Direction	Description
	2009: Road followed by grass land and access roads, the airport features and structures are no longer evident, a paved road was present from 150 Hwy to the south (Andrews Road) **2012**: Appeared similar with the expansion of the intersection of 150 Hwy and Botts Road to the NW **2016 - 2020**: Appeared similar with commercial/industrial structures present on the east and center of the property and grass covered land west of the structures
West	**1887 – 1893**: Vacant or cropland **1934 – 2009**: A 2-lane, paved road corresponding to Botts Road **2012 – 2020**: Botts Road, a 4-lane, paved road **1934 - 1936**: The road followed by vacant or cropland with several intermittent streams flowing to the east **1940 – 2009**: Appeared similar with residential / farm structures periodically present and farm access roads **2011**: The road followed by construction of several commercial/industrial warehouses, site grading, and access roads **2012 – 2020**: The road followed by commercial/industrial structures, paved parking and access roads, and a detention pond.

3.2 Historical City Directories

The EDR Digital Archive, Cole Information and Polk's city directories used in this study were made available through EDR (selected years reviewed: 1974 – 2020) and were reviewed at approximate five-year intervals, if readily available. The current street addresses for the site were identified as 14664 Colorado Avenue, 14650 Colorado Avenue, 14499 Colorado Avenue, 14690 Colorado Avenue, 14660 Colorado Avenue, 4450 E M 150 Hwy, and 14401 Botts Road.

Historical City Directories

Direction	Description
Site	**14664 Colorado Avenue:** United Mo Bk Hickman (1992); United Missouri Bank (1995); UMB Bank Banking Centers (2000) **14650 Colorado Avenue:** Ideker Inc. (2014 – 2020) **14499 Colorado Avenue, 4450 E M 150 Hwy, 14660 Colorado Avenue, 14665 Colorado Avenue, 14401 Botts Road:** No listings

Direction	Description
North	**5604 – 5612 E 143rd Street (NE):** Residential (1992 – 2017) **14101 – 14219 Denver Road:** Residential (1974 – 1976, 1992 – 2020) **14201 Botts Road:** Sika Corp (2000 – 2020) **14101 Norby Road:** Pods/River City Portable Moving-STG (2010 – 2020) **14209 Norby Road:** Commercial businesses (2010 – 2020) 14219 Norby Road and 14420 Norby Road: No Listings
East	**6011 E State Route 150:** 7-11 Food Stores (1995) **6100 E State Route 150:** Commercial businesses (2010 – 2020) **6200 E State Route 150:** Sonic Drive-In (2010 – 2020) **6250 E State Route 150:** Subway (2014 – 2020) **14214 S US Highway 71:** Residential/Commercial (1992 – 2020) **14217 S US Highway 71:** Residential (2000 – 2020) **14300 S US Highway 71:** Residential (1992) **14301 S US Highway 71:** Residential (1992 – 2020) **14815 S US Highway 71:** Kansas City Diesel Drivers Sch Inc/Real Estate/Sears termite & Pest (1976); Commercial businesses (1992 – 2000) 5620 E 147th Street, 14650 US 71 Hwy, 14500 US 71 Hwy, and 14330 US 71 Hwy: No Listings
South	**14900 Andrews Road:** Noevia Logistics (2017) **58201 E 149th Street:** Residential (1992) **14709 S US Highway 71:** Weber Flooring Joes Carpet (2017); Residential (2020) 4000 E 149th Street, 4901 Botts Road, 14901 Andrews Road, 14900 US 71 Hwy: No Listings
West	**4015 E 143rd Street (NW):** PM Contracting Inc (2020) **4019 E 143rd Street (NW):** Selective Construction SVC LLC (2020) **4021 E 143rd Street (NW):** Kelly Construction Group (2020) 14520 Botts Road: No Listings

Ideker, Inc.: The Ideker asphalt plant was located on a site parcel addressed as 14650 Colorado Avenue, on the south side of the site, east end. The Ideker facility is further discussed in Sections 3.6, 3.7, and 4.2, below.

3.3 Site Ownership

Based on a review of information obtained from the Kansas City, Missouri Parcel Viewer GIS website, the current site owner is Promontory 150 LLC c/o Platform Ventures LLC.

3.4 Title Search

At the direction of the client, a title search was not included as part of the scope of services. However, the client provided the following title search documents to Terracon for review:

- Second Deed of Trust dated December 10, 1976, from Mr. and Mrs. Extell to a second party (copy was unreadable).
- Corporation Quit Claim Deed dated April 16, 1982, releasing the lien from the Deed of Trust dated December 10, 1976.
- Warranty Deeds dated June 30, 2005 from the trust of Enow A. Axtell to the Axtell Family Limited Partnership, transferring ownership to the partnership, and from the trust of Sophronia M. Axtell to the Axtell Family Limited Partnership, transferring ownership to the partnership.
- Affidavit of Scrivener's Error dated January 6, 2011 correcting the legal descriptions from the "within the widths" format to "metes and bounds" format for a utility easement recorded in December 1999. The type of utility was not mentioned in the document, but did state the "easement or license is hereby granted to the Missouri Highways and Transportation Commission, its successors or assigns to locate, construct, and maintain, or to authorize the location, construction, and maintenance of a utility line over, under and across all that part of grantor's land…"
- Quit Claim Deed dated November 26, 2013, from the City of Kansas City, Missouri to the Missouri Highways and Transportation Commission, multiple tracts of lands for the purpose of the operation of the City of Kansas City's water main.
- Release of Deed of Trust dated March 6, 2023 from Solutions North Bank F/K/A The Stockton National Bank F/K/A First Security Bank and Trust Company releasing the Deed of Trust recorded on April 5, 2007.
- Title Insurance document dated March 7, 2023 stating Title is committed/vested in Promontory 150 LLC and proposed insured is United States of America, acting by and through the Department of Energy. The document included a link to: "Easement for Water Main and Appurtenances" dated 1971, stating a twenty foot tract of land through part of the South One-half of legally described property; a link to "Special Warranty Deed" dated March 1, 2023 from Manrick, LLC to Promontory 150 LLC c/o Platform Ventures, LLC for legally described property; a link to "Electric Line Easement Conveyance" dated July 6, 1978, from Mr. and Mrs. Axtell, for the western most 10 feet of legally described property; a Circuit Court of Jackson County,

Missouri at Kansas City document stating a Condemnation Petition was approved to expand 150 Highway and for a utility easement next to the expanded highway, per the legal description of the properties.

- Title Insurance document dated March 7, 2023 stating Title is committed/vested in Promontory 150 LLC and proposed insured is United States of America, acting by and through the Department of Energy. The document included a link to: "Special Warranty Deed" dated November 30, 2021 from Ideker, Inc. to Promontory 150 LLC, per the legal description of the properties; "Special Warranty Deed" dated March 1, 2021 from the Barbara A. Giblin Revocable Trust to Promontory 150 LLC, per the legal description of the properties; "Special Warranty Deed" dated May 13, 2021 from UMB Bank BA to Promontory 150 LLC, per the legal description of the properties; "Special Warranty Deed" dated March 31, 2021 from the Axtell Family Limited Partnership to Promontory 150 LLC, per the legal description of the properties; "Trustees Deed" dated March 3, 2020 from John W. Rollins, Jr. and Anne W. Rollins Charitable Remainder Trust and Trust for the Krupa Family to Promontory 150 LLC, per the legal description of the properties; and "Special Warranty Deed" dated March 5, 2020 from the Estate of Harold David Hedges and families to Promontory 150 LLC, per the legal description of the properties.

3.5 Environmental Liens and Activity and Use Limitations

The EDR regulatory database report included a review of both Federal and State Engineering Control (EC) and Institutional Control (IC) databases. Based on a review of the database report, the site was not listed on the EC or IC databases. Please note that in addition to these federal and state listings, AULs can be recorded at the county and municipal level that may not be listed in the regulatory database report. Environmental lien and activity and use limitation records recorded against the site were not provided by the client. At the direction of the client, performance of a review of these records was not included as part of the scope of services and unless notified otherwise, we assume that the client is evaluating this information outside the scope of this report. Environmental liens or AULs were not identified from review of the title documents provided by the client which are reviewed in Section 3.4.

3.6 Interviews Regarding Current and Historical Site Uses

The following individuals were interviewed regarding the current and historical use of the site.

Interviews

Interviewer	Name	Title	Date/Time
Melissa Dowling	Kevin Breslin	Site owner representative	4/13/23 / 10:00 am

Terracon interviewed Mr. Kevin Breslin, site owner representative, during the site reconnaissance. Mr. Breslin indicated that he has been familiar with the site and area for approximately 20 years. Mr. Breslin noted the following:

- The current owner of the site is Promontory 150 LLC;
- Promontory 150 LLC purchased the west end of the site from the Rawlins family and the east end of the site from the Giblin family. Promontory combined the parcels in 2021;
- The property was historically used as agricultural land, with a farmstead on the southeast corner of the site;
- The Giblin family installed two oil wells on the east side of the site, southeast corner in 2013 and the wells were plugged in 2021 (See Appendix C for well installation and plugging forms);
- The oil wells were connected to two aboveground storage tanks (ASTs) that were located SE of the wells, off the NE corner of the access drive which was named Colorado Avenue;
- Ideker asphalt plant was present on the south end of the site, east side. The plant was a hot mix plant with two silos, two truck scales, and a fuel AST. The Ideker plant closed this facility and demolished and removed all production equipment by December 2022;
- Promontory 150 LLC had a Phase I Environmental Site Assessment completed for the entire site and Phase II Investigation completed at the former Ideker facility. Mr. Breslin stated the Ideker silos and secondary containment were in good condition when demolished and no visual evidence of releases were evident around or beneath the secondary containment (See Section 3.7 for review of these reports);
- A petroleum pipeline is present across the site at the intermittent stream. The pipeline is an 8 inch pipe and is dry;
- The north end of the site, north of the intermittent stream has been extensively graded in preparation for sale and commercial construction. Soil and rock used for the grading was primarily from the site and a lesser amount from the undeveloped north adjacent property at the boundary between the site and vacant lot;
- Two stormwater detention basins were installed on the north end of the site during grading activities;
- The drainage ditch that flows from the SW corner of the site to the NE will be graded with installation of a concrete box culvert and covered to grade with materials excavated from the SE corner of the site;
- The NE corner of the site is a designated wetland of approximately 25-acres;
- A city sewer line is present across the center of the site from west to east;

- Mr. Breslin was not aware of septic systems; water wells; landfills; spills or releases of hazardous substances or petroleum products; 55-gallon drums; underground storage tanks; pending, threatened or past environmental litigation; proceedings or notices of possible violations of environmental laws; or potential environmental concerns in connection with the site.

Interviewer	Name	Title	Date/Time
Melissa Dowling	Scott Cargill	Representative with C&G Consulting, LLC	4/21/23 / 11:00 am

Terracon interviewed Mr. Scott Cargill, owner representative concerning the onsite petroleum pipeline, by email. Mr. Cargill indicated he has been familiar with the site and area for approximately 13 years. Mr. Cargill noted the following regarding the Magellan petroleum pipeline across the site:

- The original easement for the pipeline was to the Williams Brothers Pipeline company in 1966;
- The pipeline is currently owned by Magellan Midstream Partners, LP out of Tulsa, Oklahoma;
- The pipeline is an 8 inch line, currently inactive, but not abandoned;
- Tonya Cape of Magellan Midstream Partners, LP is his point of contact. An interview with Ms. Cape is discussed below.

Interviewer	Name / Phone #	Title	Date/Time
Melissa Dowling	Tonya Cape / (913) 310-7740	Representative with Magellan Midstream Partners, LP	4/21/23 / 11:15 am

Terracon interviewed Ms. Tonya Cape, Magellan Midstream Partners, LP representative, by telephone. Ms. Cape noted the following regarding the Magellan petroleum pipeline across the site:

- The pipeline was likely installed around the time of the original easement in the mid-1960s, but she did not have the exact date;
- The pipeline did carry refined petroleum (gasoline or diesel), but she did not know for how long or when the pipeline was last used. However, she has been with Magellan for approximately 30 years and does not believe it has been active during this time;
- The pipeline was relocated to the north, beginning on the east side of Botts Road to the west side of the NNSA Campus, during construction of the NNSA Campus and there were no reports of apparent leaks near that section of pipeline;
- She was not aware of leaks or spills from the pipeline on site.

3.7 Prior Report Review

Terracon requested the client provide any previous environmental reports they are aware of for the site. The following reports were provided and reviewed:

- Phase I Environmental Site Assessment (Botts Road Giblin Site) completed for Platform Ventures by Olsson, Inc. dated March 2020:

  The site was approximately 151 acres of agricultural land and forested areas (the east half of the current site). Two oil wells were present on site. No details were noted in the report for these wells. Four ASTs were present on the site during the site reconnaissance associated with the onsite oil wells. Visual evidence of leaks or staining on or below the ASTs were not noted and the ASTs appeared to be "newly installed." A dumping area was noted on the southeastern quadrant of the site that included a microwave, aluminum cans, empty kerosene can, and empty metal container. No odors or staining were noted near the debris. Pipeline markers were noted near the center of the property during the site reconnaissance. The Phase I concluded no RECs were found onsite or offsite at adjacent properties.

- Phase I Environmental Site Assessment (Botts Road and M-150 Hwy) completed for Platform Ventures by Olsson, Inc. dated February 2020:

  The site was approximately 77.6 acres of agricultural and undeveloped land (the west half of the current site). Natural gas pipeline makers were present on the west boundary of the site, owned by Spire. The Phase I concluded no RECs were found onsite or offsite at adjacent properties.

- Phase II Investigation, Former Ideker Site, Botts Road, completed for Richmond Breslin LLC by SS Papadopulus and Associates, Inc. (SSP&A) dated January 31, 2023:

  SSP&A completed soil sampling activities on January 18, 2023, at the former Ideker asphalt plant (14650 Colorado Avenue). A hydraulic geoprobe was used to complete seven soil borings and collected seven soil samples: three soil borings in the former diesel fueling AST area (1A, 2A, and 2B) and four borings in the former asphalt mixing area (3A, 4, 5, and 6). Field screening was completed with a photoionization detector (PID). As no indications of volatile organic compounds were detected by PID, SSP&A did not request analysis for volatile organic compounds (VOCs). The seven soil samples were analyzed for total petroleum hydrocarbons (TPH) by Pace Analytical in Lenexa, Kansas. The soil samples were analyzed for TPHs by ASTM method OA2.

  The Missouri Department of Natural Resources (MDNR) does not recommend this analytical method in the current Risk Based Corrective Action (RBCA) guidance. For comparison, OA2 analysis included diesel fuel, fuel oil, jet fuel, kerosene, mineral spirits, motor oil, and TPH (gasoline, diesel, and oil). The current method recommended by MDNR is EPA method 8270, which analyzes for diesel range organics (DRO) and oil range organics (ORO). The highest analytical result from the Phase II report was 4,330 milligrams per kilogram (mg/kg) of TPH at boring 3 (sample ID IDEK01182023-03, 5 feet below ground surface). The Phase II report stated the analytical results were compared to the MDNR Default Target Levels (DTL), which they were not; the analytical results were compared to MDNR RBCA Tier 1 Table B-7, non-residential land use for soil type 3 (clayey soil) concentrations. These concentrations are the most lenient concentrations in the MDNR RBCA Tier 1 tables used for comparison. MDNR DTL concentrations (Table B-1) are the most stringent concentrations in the MDNR RBCA risk assessment process.

  For reference in this Phase I report, Terracon compared the SSP&A analytical results to the MDNR RBCA guidance DTLs for TPH DRO and TPH ORO. The DTL for TPH DRO is 4,150 mg/kg and the DTL for TPH ORO is 124,000 mg/kg. The highest concentration reported during the Phase II was 4,330 mg/kg TPH (gasoline, diesel, oil), which is higher than the TPH DRO DTL but less than the TPH ORO DTL. The Tier 1 RBCA concentration, residential land use scenario for subsurface soil, silty soil (Table B-3), for TPH DRO is 7,190 mg/kg. There is not a Tier 1 residential land use scenario concentration for subsurface soil, silty soil for TPH ORO.

  Therefore, the reported concentration of 4,330 mg/kg of TPH was above the MDNR DTL for TPH DRO but is below the Tier 1 RBCA concentration for TPH DRO, residential land use.

  Based on this comparison, the former Ideker facility does not represent a REC to the site.

4.0 RECORDS REVIEW

Regulatory database information was provided by EDR, a contract information services company in a report dated April 10, 2023. The purpose of the records review was to identify RECs in connection with the site. Information in this section is subject to the accuracy of the data provided by the information services company and the date at which the information is updated. The scope herein did not include confirmation of facilities listed as "unmappable" by regulatory databases.

In some of the following subsections, the words up-gradient, cross-gradient, and down-gradient refer to the topographic gradient in relation to the site. As stated previously, the groundwater flow direction and the depth to shallow groundwater, if present, would likely vary depending upon seasonal variations in rainfall and the depth to the soil/bedrock interface. Without the benefit of on-site groundwater monitoring wells surveyed to a datum, groundwater depth and flow direction beneath the site cannot be directly ascertained.

4.1 Federal and State/Tribal Databases

Listed below are the facility listings identified on federal and state/tribal databases within the ASTM-required search distances from the approximate site boundaries. Database definition, descriptions, and the database search report are included in Appendix D.

Federal Databases

Database	Description	Distance (miles)	Listings
CERCLIS (SEMS)	Comprehensive Environmental Response, Compensation, & Liability Information System	0.5	1
CERCLIS / NFRAP (SEMS-ARCHIVE)	Comprehensive Environmental Response, Compensation, & Liability Information System/No Further Remedial Action Planned	0.5	0
ERNS	Emergency Response Notification System	Site	0
IC / EC	Institutional Control/Engineering Control	Site	0
NPL	National Priorities List	1	0
NPL (Delisted)	National Priorities Delisted List	0.5	0
RCRA CORRACTS/ TSD	RCRA Corrective Action Activity	1	0
RCRA Generators	Resource Conservation and Recovery Act	Site and adjoining properties	4

Database	Description	Distance (miles)	Listings
RCRA Non-CORRACTS/ TSD	RCRA Non-Corrective Action Activity	0.5	0

State/Tribal Databases

Database	Description	Distance (miles)	Listings
AUL	Activity and Use Limitations	Site	0
Brownfields	Listing of Brownfields Sites	0.5	0
LUST	Leaking Underground Storage Tanks	0.5	1
SHWS	State Hazardous Waste Site	0.5	0
SWF/LF	Solid Waste Facilities/Landfills	0.5	0
UST	Underground Storage Tanks	Site and adjoining properties	0
VCP	Voluntary Cleanup Program Sites	0.5	0

In addition to the above ASTM-required listings, Terracon reviewed other federal, state, local, and proprietary databases provided by the database firm. A list of the additional reviewed databases is included in the regulatory database report in Appendix D.

The following table summarizes the site-specific information provided by the database and/or gathered by this office for identified facilities. Facilities are listed in order of proximity to the site. Additional discussion for selected facilities follows the summary table.

Listed Facilities

Facility Name and Location	Estimated Distance / Direction/Gradient	Database Listings	Findings Summary
Frontier Bag, Inc. 5720 E. Hwy 150	SE adjacent / downgradient	RCRA-SQG, US AIRS, PFAS, ECHO	Not a REC due to gradient
Holistic Industries 14600 S Hwy 71	E adjacent / cross-gradient	RCRA-SQG	Not a REC, see discussion below
Sika Corp 14201 Botts Rd	NW adjacent / downgradient	RCRA-SQG, ECHO, FINDS	Not a REC due to gradient
Payless Cashways Inc 14330 S Hwy 71	NE adjacent / downgradient	RCRA NonGen / NLR, ECHO, FINDS	Not a REC due to gradient
USDOE Kansas City National Security Camp 14520 Botts Rd	W adjacent / cross-gradient	ECHO, FINDS, RCRA-LQG, PFAS ECHO	Not a REC, see discussion below

Facility Name and Location	Estimated Distance / Direction/Gradient	Database Listings	Findings Summary
Richards Gebaur Air Force Base Hwy 150 & Us 71 Hwy	Approximately 350 feet SW and S / upgradient	SEMS, ROD	Not a REC, see discussion below
Grandview Radio Bea Ax 2	Approximately 350 feet SW and S / upgradient	FUDS	Not a REC, see discussion below
True Value Company 14900 S Hwy 71	Approximately 650 feet SE / cross-gradient	RCRA-SQG, LIST, SPILLS, UST	Not a REC due to distance and gradient

Holistic Industries

Holistic Industries was located at 14600 S Highway 71, east adjacent to the site (east of the railroad tracks), and downgradient. The facility was listed on the Resource Conservation and Recovery Act (RCRA) Small Quantity Generator (SQG) database from 2020 – 2022 for storing ignitable waste, corrosive waste, reactive waste, and chloroform. The North American Industry Classification System (NAICS) code for the facility was 111419 – Other Food Crops Grown Under Cover. No violations were listed for the facility. Based on gradient and regulatory status as noted in the EDR database report, a regulatory file review with the MDNR was not warranted. As the facility was downgradient and no violations were listed, the Holistic Industries facility does not represent a REC to the site.

USDOE KC National Security Campus

USDOE KC National Security Campus is located at 14520 Botts Road, west adjacent to the site (west of Botts Road), and cross gradient. The facility was listed on the Facility Index System/Facility Registry System (FINDS), Facility Index System/Facility Registry System, Per- and polyfluoroalkyl substances (PFAS) ECHO, and Superfund Enterprise Management System (SEMS) databases. The FINDS listing is related to a National Pollutant Discharge Elimination System (NPDES) permit dated July 2020, for the related to expansion construction activities. The SEMS listing did not report any releases for the facility. The facility has several *North American Industry Classification System* (NAICS) codes noted as: other electronic component manufacturing; all other basic organic chemical manufacturing; all other miscellaneous manufacturing; all other miscellaneous fabricated metal product manufacturing; national security; and electroplating, plating, polishing, anodizing, and coloring. Violations were not listed for the facility. The database did not list specific chemicals used at the facility.

The facility property is west adjacent, however the actual manufacturing building is located approximately 1,400 feet west of the site. Based on the distance to the building, lack of violations, and cross-gradient location, this facility does not represent a REC to the site.

Richard's Gebaur Air Force Base (AFB)

Richard's Gebaur AFB was located at Highway 150 and US 71 Highway, south adjacent to the site (south of Highway 150), and upgradient. The facility was listed on the Safety and Environmental Management System (SEMS) database from 1981 – 2004 and the Record of Decision (ROD)

database in 2004 and 2007. The ROD listing was first issued in 2004 for two locations within the AFB with residual soil contamination and six locations within the AFB with residual groundwater contamination. The ROD included restrictive covenants in place to prohibit excavation and residential use without prior authorization from the Air Force, MDNR, and EPA. As these areas of contamination were not found to migrate offsite or downgradient, a regulatory file review was not warranted and this facility does not represent a REC to the site.

Grandview Area Bea Ax 2

The Grandview Area Bea Ax 2 facility was mapped on the subject site by EDR. However, based on a review of historic aerial photographs, the radio tower was located on the former Richard's Gebaur AFB to the south, approximately 550 feet south of the site boundary. The EDR database listed the radio tower on the Formerly Used Defense Sites (FUDS) database, FUDS #B07MO0970, stating "The Air Force constructed a navigational radio beacon antenna and support utilities. Later the antenna was removed and a ceilometer system was installed as weather aid for pilots and controllers." No dates were noted in the report, however, based on the aerial photographs reviewed, Richard's Gebaur AFB air strip was no longer present to the south by at least August 2009. Based on the distance from the site and nature of the radio tower, it does not represent a REC to the site.

The remaining facilities listed in the database report do not appear to represent RECs to the site at this time based upon regulatory status, apparent topographic gradient, and/or distance from the site.

Unmapped facilities are those that do not contain sufficient address or location information to evaluate the facility listing locations relative to the site. The report listed three facilities in the unmapped section. Determining the location of unmapped facilities is beyond the scope of this assessment. One of the listings is the west adjacent US DOE Kansas City National Security discussed above (14520 Botts Road). One of the listings is southwest adjacent US DOE Kansas City National Security discussed below. These facilities are listed in the database report in Appendix D.

The US DOE Kansas City National Security orphan listing at 14901 Andrews Road is southeast of the site, south of 150 Highway, cross gradient, and was listed on the SEMS database. The facility is related to the US DOE KC National Security Campus at 14520 Botts Road, discussed above. The SEMS listing did not report any releases for the facility. This facility does not represent a REC to the site.

4.2 Local Agency Inquiries

Agency Contacted/ Contact Method	Response
Kansas City, MO Parcel Viewer https://maps.kcmo.org/apps/parcelviewer/	The KC, MO Parcel viewer website was reviewed on April 11, 2023. The site has several addresses: **14650 Colorado Ave**. – No code cases were noted, no property holds were noted, 18 plans were submitted for

Agency Contacted/ Contact Method	Response
	construction/renovation/additions from 2012 – 2022, and 19 permits were requested for construction on site and utilities from 2012 – 2023. **14664 Colorado Ave.** - No code cases were noted, no property holds were noted, 2 plans were submitted for lot split and development plans from 2021 – 2022, and 8 permits were requested for construction/demo on site and utilities from 1981 – 2021. **14665 Colorado Ave.** - No code cases were noted, no property holds were noted, no plans were submitted, and 2 permits were requested for zoning approval from 2015 – 2023. **14661 Colorado Ave.** - No code cases were noted, no property holds were noted, 2 plans were submitted for lot split and development plans from 2021 - 2022, and no permits were requested. **14499 Colorado Ave.** - No code cases were noted, no property holds were noted, 4 plans were submitted for lot split and development plans from 2021 - 2022, and 7 permits were requested for utilities, special inspections, and construction from 2016 - 2023. **14660 Colorado Ave.** - No code cases were noted, no property holds were noted, 2 plans were submitted for lot split and development plans from 2021 - 2022, and no permits were requested. **4450 E M 150 Hwy** - No code cases were noted, no property holds were noted, 2 plans were submitted for lot split and development plans from 2021 - 2022, and no permits were requested. **14401 Botts Rd.** - No code cases were noted, no property holds were noted, 4 plans were submitted for lot split and development plans from 2021 - 2022, and 4 permits were requested for special inspections and construction in 2021. **Five of the parcels are not addressed** (67-500-03-39-02-0-

Agency Contacted/ Contact Method	Response
	00-000, 67-500-03-39-03-0-00-000, 67-500-03-39-01-2-00-000, 67-500-04-39-01-5-00-000, and 67-500-04-39-01-7-00-000). These 5 parcels did not have any listed code cases or property holds. Plans and permits were noted for these parcels related to lot split and development.
MDNR Well Installation Section Drilling Information Map Well Installation Section Drilling Information Map (WISDIM) (arcgis.com)	The MDNR WISDIM database was reviewed on April 11, 2023. Two wells were documented on the east side of the site as oil wells (095-21461 and 095-21488) and are listed as plugged. * 12 monitoring wells were documented for the Richard's Gebaur Air Force Base: 8 southwest of the site across 150 Hwy and 4 west of the site across Botts Road. The wells are listed as abandoned. Richard's Gebaur is further discussed in Section 4.1, above. These wells do not represent a REC to the site.
MDNR Environmental Site Tracking and Research Tool (ESTART): https://apps5.mo.gov/ESTARTMAP/map/init_map.action	The MDNR ESTART database was reviewed on April 11, 2023. **Payless Cashways** at 14330 S 71 Hwy, was documented as a UST facility and the tank(s) were closed prior to 2004 Tanks RBCA guidelines (the number of tanks for this site was not listed). No other information was reported. Payless Cashways was not listed in the EDR database as a UST facility (Section 4.1). This facility was northeast adjacent and downgradient and does not represent a REC to the site. **Bldg 1025 Richard's Gebaur Air Force Base**, southwest of the site, southwest adjacent, was documented as a UST facility and the tank(s) were closed prior to 2004 Tanks RBCA guidelines (the number of tanks for this site was not listed). No other information was reported. Bldg 1025 Richard's Gebaur Air Force Base was not listed

Agency Contacted/ Contact Method	Response
	in the EDR database as a UST facility (Section 4.1). This building has been demolished and a warehouse is now present on the property. Due to the redevelopment of the property, this listing does not represent a REC to the site.
Kansas City, MO Fire Dept. www.kcmo.gov/city-hall/departments/city-manager-s-office/city-communications-office/sunshine-law-request-form	Mr. Thomas Kievlan, Assistant Fire Marshal, stated the following: "no records found of any known inspections and/or known fire code violations at this time; no hazardous waste permit issued; no flammable contents permit issued; no records found regarding fire department responses for hazardous material releases; and no records found for known storage tanks." Mr. Kievlan provided records concerning an emergency response incident at the site which occurred on December 8, 2016. According to the investigation narrative, a structure fire occurred in a single-story mobile business office caused by accidental overheating of the electrical heating equipment and components. This incident is not a REC to the site.
Kansas City, MO Health Dept. www.kcmo.gov/city-hall/departments/city-manager-s-office/city-communications-office/sunshine-law-request-form	According to the Public Records Coordinator, the City of Kansas City has reviewed its files and has determined there are no responsive documents.
Kansas City, MO Office of Environmental Quality www.kcmo.gov/city-hall/departments/city-manager-s-office/city-communications-office/sunshine-law-request-form	According to the Public Records Coordinator, the City of Kansas City has reviewed its files and has determined there are no responsive documents.
National Pipeline Mapping System (NPMS)** https://pvnpms.phmsa.dot.gov/PublicViewer/	The NPMS website was reviewed on April 11, 2023 and a Hazardous Liquid Pipeline is mapped across the north end of the site. No incidents or spills on or near the site were noted on the NPMS website.
Environmental Protection Agency (EPA) EnviroFacts https://enviro.epa.gov/	The EPA EnviroFacts website was reviewed on April 11, 2023: **Ideker** was listed at two addresses on the site: 5600 E 150 Hwy due to a National Pollutant Discharge

Agency Contacted/ Contact Method	Response
	Elimination System (NPDES) permit for storm water runoff; and 14650 Colorado Avenue for an air permit, MO0002909502473 Minor Emissions, based on site activities Asphalt Paving Mixture and Block Manufacturing. No violations were listed for either address or listing. These listings do not represent a REC to the site. **Frontier Bag** was listed at 5720 E 150 Hwy, southeast adjacent of the site. Frontier Bag is further discussed in Section 4.1, above.

* Although the former gas wells appear to have been abandoned, oil and gas drilling/production operations may represent a potential source of salt water and hydrocarbon contamination to soil and groundwater. Dry holes with improperly installed or damaged plugs may represent potential pathways for salt water and hydrocarbons to migrate from deep strata into shallow soils and groundwater. Additionally, ponds and mud/evaporation pits may be a source of potential hydrocarbon contamination or possible heavy metals or other contaminants as the mud could have been mixed, pump, and recirculated in the wells, and then placed back into onsite ponds/pits for disposal.

** The Hazardous Liquid Pipeline is further discussed in Sections 3.6 and 5.4 of this report.

5.0 SITE RECONNAISSANCE

5.1 General Site Information

Information contained in this section is based on a visual reconnaissance conducted while walking through the site and the accessible interior areas of structures, if any, located on the site. The site and adjoining properties are depicted on the Site Diagram, which is included in Exhibit 2 of Appendix A. Photo documentation of the site at the time of the visual reconnaissance is provided in Appendix B. Credentials of the individuals planning and conducting the site visit are included in Appendix E.

General Site Information

Site Reconnaissance	
Field Personnel	Melissa A. Dowling
Reconnaissance Date	April 13, 2023
Weather Conditions	Sunny, mild
Site Contact/Title	Kevin Breslin / Owner's Representative

Site Reconnaissance	
Site Utilities	
Drinking Water	KC Water
Wastewater	KC Water
Electric	Evergy
Natural Gas	Spire

5.2 Overview of Current Site Occupants

The site is located at 14650 Colorado Avenue in Kansas City, Jackson County, Missouri and is approximately 246 acres. The site is comprised of multiple parcels, one parcel was developed as an apparent asphalt batch plant (now demolished), the remainder of the site was undeveloped land in varying states of clearing and grading and contained an intermittent stream, drainage ditches, and a wetland area on the northeast corner.

5.3 Overview of Current Site Operations

The site is currently vacant, with no site buildings. The former asphalt plant was demolished in late 2022. The north end of the site (north of the intermittent stream) has been graded. The south end of the site (south of the intermittent stream) is currently being cleared of trees to prepare for site grading. The northeast corner of the site is a designated wetland area of approximately 25 acres.

5.4 Site Observations

The following table summarizes site observations and interviews. Affirmative responses (designated by an "X") are discussed in more detail following the table.

Site Characteristics

Category	Item or Feature	Observed or Identified
Site Operations, Processes, and Equipment	Emergency generators	
	Elevators	
	Air compressors	
	Hydraulic lifts	
	Dry cleaning	
	Photo processing	
	Ventilation hoods and/or incinerators	
	Waste treatment systems and/or water treatment systems	

Category	Item or Feature	Observed or Identified
	Heating and/or cooling systems	
	Paint booths	
	Sub-grade mechanic pits	
	Wash-down areas or carwashes	
	Pesticide/herbicide production or storage	
	Printing operations	
	Metal finishing (electroplating, chrome plating, galvanizing, etc.)	
	Salvage operations	
	Oil, gas, or mineral production	
	Other processes or equipment	
Aboveground Chemical or Waste Storage	Aboveground storage tanks	
	Drums, barrels, and/or containers ≥ 5 gallons	
	MSDS or SDS	
Underground Chemical or Waste Storage, Drainage or Collection Systems	Underground storage tanks or ancillary UST equipment	
	Sumps, cisterns, French drains, catch basins, and/or dry wells	
	Grease traps	
	Septic tanks and/or leach fields	
	Oil/water separators, clarifiers, sand traps, triple traps, interceptors	
	Pipeline markers	X
	Interior floor drains	
Electrical Transformers/ PCBs	Transformers and/or capacitors	X
	Other equipment	
Releases or Potential Releases	Stressed vegetation	
	Stained soil	
	Stained pavement or similar surface	
	Leachate and/or waste seeps	
	Trash, debris, and/or other waste materials	X
	Dumping or disposal areas	X
	Construction/demolition debris and/or dumped fill dirt	

Category	Item or Feature	Observed or Identified
	Surface water discoloration, odor, sheen, and/or free-floating product	
	Strong, pungent, or noxious odors	
	Exterior pipe discharges and/or other effluent discharges	
Other Notable Site Features	Surface water bodies	X
	Quarries or pits	
	Wastewater lagoons	
	Wells	

Underground Chemical or Waste Storage, Drainage or Collection Systems

Pipeline markers

Petroleum pipeline markers are present across the center of the site, west to east. The pipeline is north of the intermittent stream on the west end of the site, crosses the stream near the center of the site, and is south of the stream across the east side of the site. The pipeline is owned by Magellan Midstream Partners LP. Indications of releases were not observed in the vicinity of the petroleum pipeline markers during the site visit. The National Pipeline Mapping System (NPMS) website listed this pipeline as active but "unfilled." Per the interviews, the pipeline is "dry" and has not carried petroleum product for at least 30 years (See Section 3.6 above). As there was no visual surficial evidence of a release, the pipeline has been unfilled or dry for at least 30 years, and is still under the ownership/maintenance of Magellan Midstream Partners, LP and not abandoned, it does not represent a REC to the site.

Pipeline markers were observed along the west and south site boundaries during the site visit. Associated labeling indicated the pipeline contained natural gas and was owned by Spire. The markers appeared to be associated with a typical service line serving commercial and residential properties. Indications of releases were not observed in the vicinity of the natural gas pipeline markers during the site visit. This natural gas pipeline was not identified on the NPMS online map reviewed in Section 4.2 of this report. Based on its properties as a gas (not a liquid at standard temperature and pressure), this natural gas pipeline is not a REC to the site.

Electrical Transformers/ PCBs

Transformers and/or capacitors

During Terracon's site visit, one pad-mounted transformer and one pole-mounted transformer, likely owned and serviced by Evergy, were observed on the southeast corner of the site at the former Ideker facility; however, no information with regard to PCB content of the transformer fluids was observed. Some transformers contain mineral oil which may contain PCBs.

Evergy likely maintains responsibility for the transformers, and if the transformers were "PCB contaminated," Evergy is not required to replace the transformer fluids until a release is identified. However, evidence of current or prior release was not observed in the vicinity of the electrical equipment during the site reconnaissance.

Releases or Potential Releases

Trash, debris, and/or other waste materials

One municipal waste dumpster was present at the former Ideker facility. The dumpster was labeled as a Waste Management dumpster. The dumpster was empty at the time of the site visit. There were no visual signs of spills or releases near the dumpster or noxious odors at the time of the site visit.

Dumping or disposal areas

An area of dumping (approximately 3-4 pickup truck loads), consisting of furniture, household goods, clothing, and trash was observed along the south site boundary, east of the center access drive. No signs of staining, spills, oily sheens, or noxious odors were observed at or near the dumping area during the site reconnaissance. The dumping area does not represent a REC to the site at this time.

Other Notable Site Features

Surface water bodies

A drainage ditch was observed flowing from the southwest corner of the site to the northeast and draining into an intermittent stream in the center of the site. The intermittent stream flows to the east, northeast to a wetland designated area on the northeast corner of the site. A small drainage ditch was located on the south boundary flowing to the west and into the drainage ditch in the southwest corner of the site. Two stormwater detention basins were observed north of the intermittent stream; one on the west side and one on the east side. The stormwater basins were equipped with sediment skimmers. An intermittent stream was present across the center of the site flowing to the east.

No evidence of chemical sheens was observed on the surface of the waters, and no noxious odors were noted emanating from within the drainage ditches, stormwater basins, or the intermittent stream at the time of the site reconnaissance.

6.0 ADJOINING PROPERTY RECONNAISSANCE

Visual observations of adjoining properties (from site boundaries) are summarized below.

Adjoining Properties

Direction	Description
North	SIKA Corporation (NW), vacant lot (N), PODS Moving (N), commercial building under construction (NNE), residential neighborhood (NE)
East	Railroad tracks followed by: Extra Space Storage (NE), Factory Outlet (NE), Cloverleaf Apartments (E), Frontier Bag (SE), Stonehenge Outdoor (SE)
South	150 Highway followed by: Honeywell (SE), Kinder Morgan pipeline station (SE), Walmart Distribution Center, (S), commercial warehouse under construction (S), intersection/overpass of Botts Road and 150 Highway (SW), Centerpoint warehouse (SW)
West	Botts Road followed by: National Nuclear Security Association campus (W), Kelly Construction (NW)

RECs were not observed with the current day adjoining properties.

7.0 ADDITIONAL SERVICES

Per the agreed scope of services specified in the proposal, additional services (asbestos sampling, lead-based paint sampling, wetlands evaluation, lead in drinking water testing, radon testing, vapor encroachment screening, etc.) were not conducted.

8.0 DECLARATION

I, Melissa A. Dowling, 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 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 site. I have developed and performed the All Appropriate Inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.



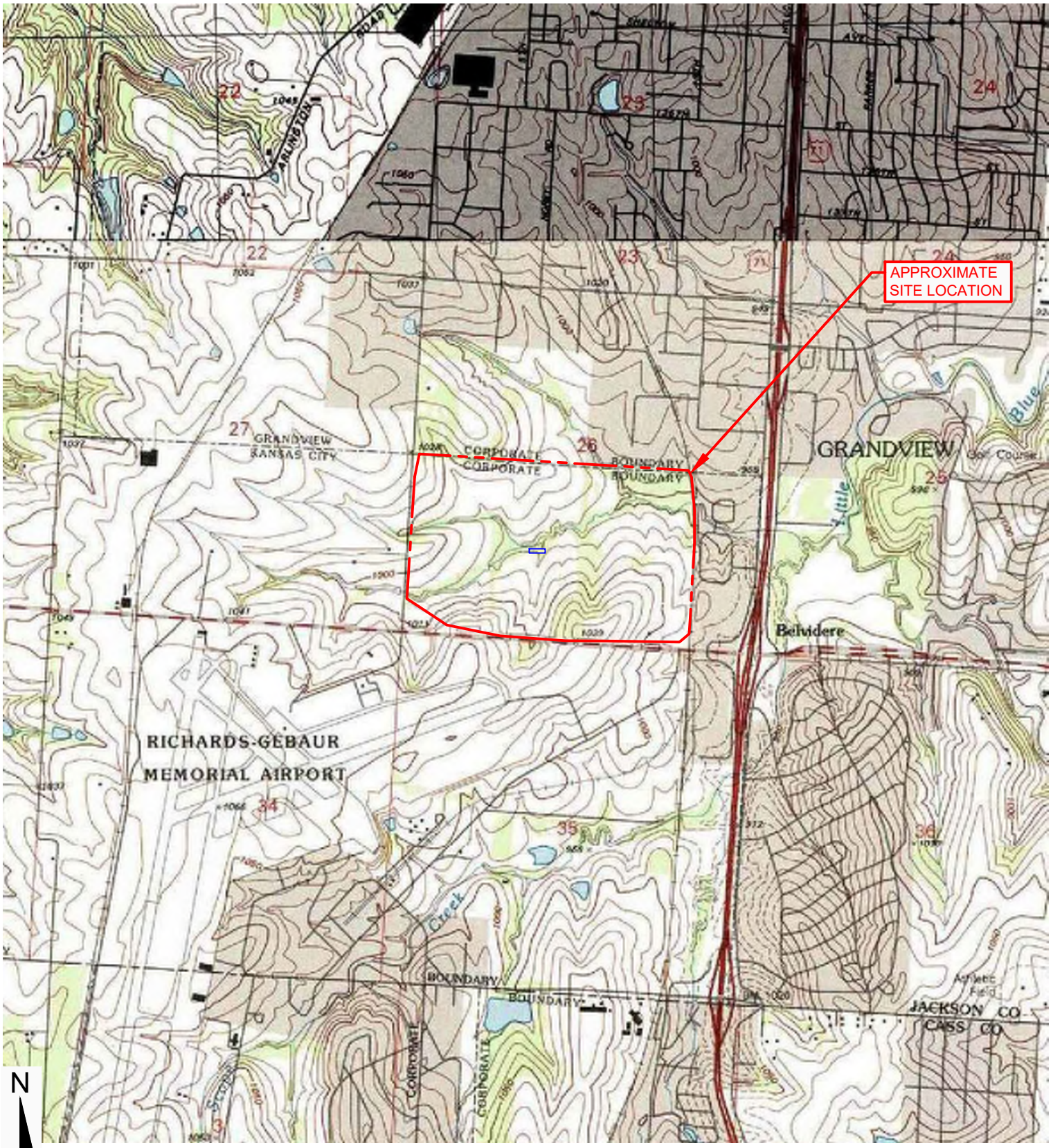
_____

Melissa A. Dowling
Site Investigation Group Manager

APPENDIX A

EXHIBIT 1: TOPOGRAPHIC MAP

EXHIBIT 2: SITE DIAGRAM



U.S.G.S. 7.5 MINUTE SERIES TOPOGRAPHIC MAP

STATE OF MISSOURI QUADRANGLES
GRANDVIEW 1996
BELTON 1991

0 1000' 2,000' 4,000'

DIAGRAM IS INTENDED FOR GENERAL USE ONLY, AND IS NOT FOR CONSTRUCTION PURPOSES. LOCATIONS ARE APPROXIMATE.

Project Mngr:	MAD
Approved By:	MAD
Checked By:	MAD
Drawn By:	DBM

Project No.	02237055
Scale:	1" = 2000'
Date:	04/18/2023
File No.	02237055EI.DWG

Terracon
Consulting Engineers and Scientists
15620 W 113TH STREET LENEXA, KS 66219
PH. (913) 492-7777 FAX. (913) 492-7443

TOPOGRAPHIC MAP

KCNEXT - BOTTS CAMPUS
14650 COLORADO AVENUE
KANSAS CITY, MISSOURI

EXHIBIT 1

N

KELLY CONSTRUCTION
(4019 E 143RD ST)

SIKA
CORPORATION
(14201 BOTTS RD)

PODS
MOVING
(14420 NORBY RD)

COMMERCIAL
(UNDER CONSTRUCTION)
14219 NORBY RD

RESIDENTIAL

DENVER AVE

NNSA CAMPUS
(14520 BOTTS RD)

GRASS
AREA

SPIRE NATURAL
GAS PIPELINE

CLEARED AND GRADED

TREES

WETLAND 25 ACRES

PETROLEUM
PIPELINE, EMPTY
(WILLIAMS PIPELINE)

GRASS
AREA

INTERMITTENT
STREAM

TREES

GRASS
AREA

TREES

POND

BOTTS RD

GRASS
AREA

TREES

GRASS
AREA

TREES

GRASS
AREA

9

10

8

7

HIGHWAY 150

8" HIGH PRESSURE GAS
PIPELINE, KNDER MORGAN

RAILROAD
TRACKS

WAREHOUSE UNDER CONSTRUCTION
(4901 BOTTS RD)

CENTERPOINT
WAREHOUSE
(4000 E 149TH ST)

WALMART
DISTRIBUTION CENTER
(14900 ANDREWS RD)

HONEYWELL
(14901 ANDREWS RD)

TRUE VALUE
HARDWARE
DISTRIBUTION
CENTER
(14900 US HWY)

HIGHWAY 71

6

5

4

4

3

2

1

LEGEND

- APPROXIMATE SITE BOUNDARY
- (P) PARKING AREA
- 1 STONEHENGE OUTDOOR (5620 E 147TH ST)
- 2 FRONTIER BAG (14650 US 71 HWY)
- 3 COMMERCIAL (14500 US 71 HWY)
- 4 CLOVERLEAF APARTMENTS (US 71 HWY)
- 5 FACTORY SURPLUS (14330 US 71 HWY)
- 6 EXTRA SPACE STORAGE (14300 US 71 HWY)
- 7 PAD MOUNTED TRANSFORMER (FORMER IDECKER)
- 8 OVERHEAD ELECTRIC & POLE-MOUNTED TRANSFORMER
- 9 FORMER OIL WELLS
- 10 FORMER OIL WELL ASTs

0 250' 500' 1,000'

DIAGRAM IS INTENDED FOR GENERAL USE ONLY, AND IS NOT FOR CONSTRUCTION PURPOSES. LOCATIONS ARE APPROXIMATE.

Project Mngr:	MAD
Approved By:	MAD
Checked By:	MAD
Drawn By:	DBM

Project No.	02237055
Scale:	NTS
Date:	04/18/2023
File No.	02237055E2.DWG

Terracon
Consulting Engineers and Scientists
15820 W 113TH STREET LENEXA, KS 66219
PH. (913) 492-7777 FAX. (913) 492-7443

SITE DIAGRAM

KCNEXT - BOTTS CAMPUS
14650 COLORADO AVENUE
KANSAS CITY, MISSOURI

EXHIBIT 2

APPENDIX B

SITE PHOTOGRAPHS



Photo #1 Facing N: View of W site boundary from SW corner, Botts Road left of photo



Photo #2 Facing SW: View of SW corner of the site, Spire natural gas pipeline markers and stubbed service line



Photo #3 Facing S: SW corner of the site and SW adjacent storm culvert under Botts Road (from W, flowing E)



Photo #4 Facing WSW: Storm water flow from culvert in Photo #3



Photo #5 Facing NW: Tree clearing of SW corner of site around drainage ditch from storm culvert



Photo #6 Facing SE: View across the S end of the site from the WSW



Photo #7 Facing ESE: View across the center of the S end from W end



Photo #8 Facing ENE: View of the center of the site, S of the intermittent stream, tree clearing S of stream



Photo #9 Facing NW: View of the center of the site, S of the intermittent stream, tree clearing S of stream



Photo #10 Facing NNE: Sewer manhole and marker, S of intermittent stream, W of center of site



Photo #11 Facing N: View of intermittent stream bank from S side



Photo #12 Facing W: View of the S side of the intermittent stream from center of site



Photo #13 Facing E: View of the S side of the intermittent stream from center of site



Photo #14 Facing E: View across the N end of the site from the W boundary at Botts Road, graded portion



Photo #15 Facing S: Petroleum pipeline markers W – E), N of intermittent stream



Photo #16 Facing S: Detention basin N of intermittent stream, W end



Photo #17 Facing ESE: View of graded N end of the site, N of intermittent stream, 2nd detention basin left of photo, E end



Photo #18 Facing W: View of N side of intermittent stream from center of N end



Photo #19 Facing ESE: View across the N end of site from center



Photo #20 Facing ESE: View toward the NE corner of the site, wetlands area, from NE end of graded area



Photo #21 Facing W: View of N site boundary (tree line) from E end of graded area



Photo #22 Facing NE: View of the SE corner of the site (undeveloped) and SE adjacent Frontier Bag facility



Photo #23 Facing NNW: View across the SE end of the site from Colorado Avenue



Photo #24 Facing SE: View of former oil well/gas well AST location (N end of Colorado Avenue)

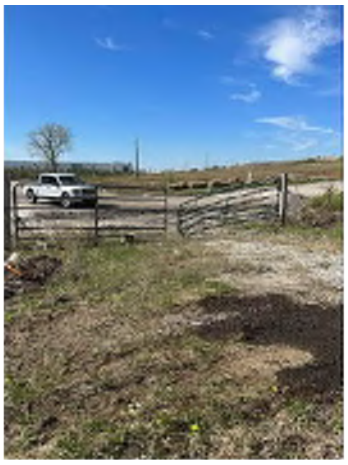


Photo #25 Facing S: N end of Colorado Avenue at gate: N of gate undeveloped site property



Photo #26 Facing W: View from Colorado Avenue toward former IDecker asphalt plant, sewer access manhole



Photo #27 Facing W: Natural gas pipeline marker SW of Colorado Avenue and IDecker drive



Photo #28 Facing E: Pole mounted electrical transformer, E end of former IDecker plant



Photo #29 Facing W: Former IDecker hot plant AST location



Photo #30 Facing E: Former plant truck scales



Photo #31 Pad mounted electrical transformer for former IDecker plant



Photo #32 Facing WNW: Former natural gas service line for IDecker plant



Photo #33 Facing SE: View across the former IDecker facility, former milling pile area



Photo #34 Former IDecker municipal waste dumpster, E end of former plant

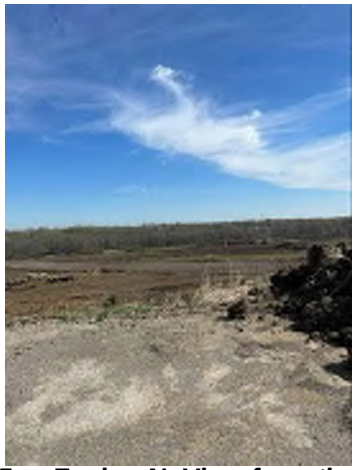


Photo #35 Facing N: View from the former IDecker plant across the E end of the site, S of the intermittent stream



Photo #36 Facing W: View from the former IDecker plant across the S end of the site, 150 Hwy S adjacent left of photo



Photo #37 Facing NE: View of E end of site, S of intermittent stream



Photo #38 Facing W: View of E end of site, S of intermittent stream



Photo #39 Facing E: View of S site boundary, center, 150 Hwy right of photo



Photo #40 Facing N: Dumping area, E of access drive, center of S site boundary



Photo #41 Facing NW: Fire hydrant E of access drive in Photo #40



Photo #42 Facing S: Drainage ditch / storm water, S boundary, center of site



Photo #43 Facing NNE: E adjacent RR track at terminus, SE of site, N of 150 Hwy, Stonehenge Outdoor



Photo #44 Facing E: Frontier Bag facility (E of RR tracks) SE of site



Photo #45 Facing N: N adjacent PODS Moving facility and commercial building under construction

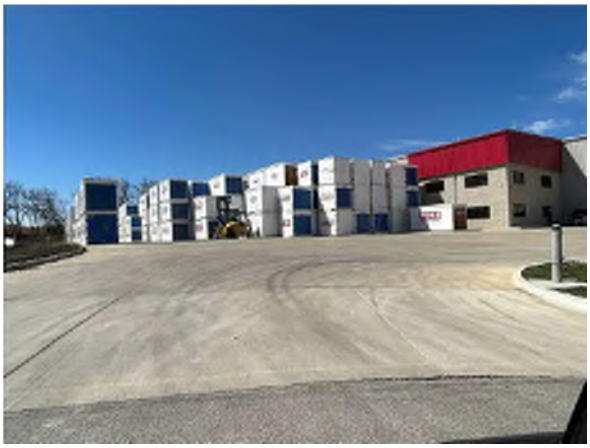


Photo #46 Facing S: N end of PODS Moving facility from Photo #45

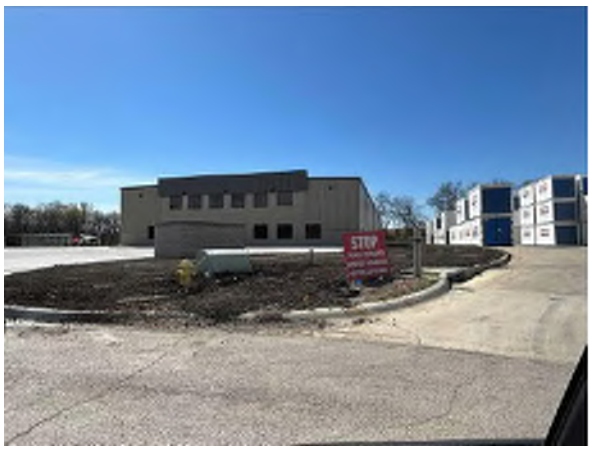


Photo #47 Facing S: N end of commercial building under construction from Photo #45



Photo #48 Facing E: NW adjacent SIKA Corporation, W end at Botts Road



Photo #49 Facing W: NW adjacent Kelly Construction, W side of Botts Road



Photo #50 Facing W: W adjacent Botts Road followed by NNSA Campus



Photo #51 Facing NW: SW adjacent intersection/overpass of Botts Road and 150 Highway



Photo #52 Facing SE: Commercial warehouse under construction S of 150 Hwy, S of site



Photo #53 Facing W: W adjacent Botts Road followed by S entrance to NNSA campus



Photo #54 Facing S: S adjacent 150 Hwy followed by natural gas pipeline station then commercial warehouse

APPENDIX C

HISTORICAL DOCUMENTATION AND USER QUESTIONNAIRE

STATE OF MISSOURI
GEOLOGICAL SURVEY PROGRAM

FORM OGC-3

APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK

■ APPLICATION TO DRILL ☐ DEEPEN ☐ PLUG BACK ■ FOR AN OIL WELL ☐ OR GAS WELL

NAME OF COMPANY OR OPERATOR: BARBARA A. GIBLIN REVOKABLE TRUST BARBARA A. GIBLIN TRUSTEE DATE 03/07/2013 — DATE: 8/20/13

ADDRESS: 14014 KENNETH ROAD — CITY: LEAWOOD — STATE: KS. — ZIP CODE: 66224

DESCRIPTION OF WELL AND LEASE

NAME OF LEASE: SAINT BARBARA — WELL NUMBER: ST. BARBARA # 1 — ELEVATION (GROUND): 985'

WELL LOCATION (GIVE FOOTAGE FROM SECTION LINES): 925 ft. from ☐ North ■ South section line 1156.25 ft. from ■ East ☐ West section line

WELL LOCATION: Sec. 26 Township 47 North Range 33 ☐ East ■ West — LATITUDE: 38°51'38.5" — LONGITUDE: 94°31'55"W — COUNTY: JACKSON 095

NEAREST DISTANCE FROM PROPOSED LOCATION TO PROPERTY OR LEASE LINE: 185' FEET

DISTANCE FROM PROPOSED LOCATION TO NEAREST DRILLING, COMPLETED OR APPLIED – FOR WELL ON THE SAME LEASE: N/A FEET

PROPOSED DEPTH	DRILLING CONTRACTOR, NAME AND ADDRESS	ROTARY OR CABLE TOOLS	APPROX. DATE WORK WILL START
600.00'	SCOTT EVANS, 11 LEWIS DRIVE PAOLA, KS 66071	ROTARY	9/15/13

NUMBER OF ACRES IN LEASE: 144.95

NUMBER OF WELLS ON LEASE INCLUDING THIS WELL, COMPLETED IN OR DRILLING TO THIS RESERVOIR: ONE

NUMBER OF ABANDONED WELLS ON LEASE: 0

IF LEASE PURCHASED WITH ONE OR MORE WELLS DRILLED, FROM WHOM PURCHASED?
NAME: N/A
ADDRESS:

NO. OF WELLS PRODUCING: INJECTION: INACTIVE: ABANDONED:

STATUS OF BOND	■ SINGLE WELL AMOUNT $ 2,000.00	☐ BLANKET BOND AMOUNT $	☐ ON FILE ■ ATTACHED

REMARKS: (IF THIS IS AN APPLICATION TO DEEPEN OR PLUG BACK, BRIEFLY DESCRIBE WORK TO BE DONE, GIVING PRESENT PRODUCING/INJECTION ZONE AND EXPECTED NEW INJECTION ZONE; USE BACK OF FORM IF NEEDED)

PROPOSED CASING PROGRAM				APPROVED CASING – TO BE FILLED IN BY STATE GEOLOGIST			
AMOUNT	SIZE	WT/FT	CEMENT	AMOUNT	SIZE	WT/FT	CEMENT
22.00"	7.0"	20 LB's	SIKAS SIX SACKS	22'	7"	20#	Full length
600.00"	2.875"	6.5 LB's	80 SACKS	600'	2.875"	6.5#	

I, the Undersigned, state that I am the ON BACK of the ON BACK (Company), and that I am authorized by said company to make this report, and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct, and complete to the best of my knowledge.

SIGNATURE: JAMES GIBLIN — DATE: 8/20/13

PERMIT NUMBER: 21461
APPROVED DATE: 9-27-13
APPROVED BY: Joseph A. Gilman

☒ DRILLER'S LOG REQUIRED ☒ E-LOGS REQUIRED IF RUN
☒ CORE ANALYSIS REQUIRED IF RUN ☒ DRILL SYSTEM TEST INFO REQUIRED IF RUN
☒ SAMPLES REQUIRED 10' intervals from surface to total depth
☐ SAMPLES NOT REQUIRED
☐ WATER SAMPLES REQUIRED AT

NOTE ▶ THIS PERMIT NOT TRANSFERABLE TO ANY OTHER PERSON OR TO ANY OTHER LOCATION.

APPROVAL OF THIS PERMIT BY THE OIL AND GAS COUNCIL DOES NOT CONSTITUTE ENDORSEMENT OF THE GEOLOGIC MERITS OF THE PROPOSED WELL NOR ENDORSEMENT OF THE QUALIFICATIONS OF THE PERMITTEE

I, _____ of the _____ (Company), confirm that an approved drilling permit has been obtained by the owner of this well. Council approval of this permit will be shown on this form by presence of a permit number and signature of authorized council representative.

DRILLER'S SIGNATURE: DATE:

I AM THE ATTORNEY IN FACT FOR THE BARBARA A. GIBLIN TRUST

STATE OF MISSOURI
MISSOURI DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY PROGRAM

FORM OGC-4

WELL LOCATION PLAT

OWNER'S NAME

BARBARA A. GIOLIN REVOKABLE TRUST BARBARA A. GIOLIN TRUSTEE 03/07/13

LEASE NAME

SAINT BARBARA

COUNTY

JACKSON

WELL LOCATION (GIVE FOOTAGE FROM SECTION LINES)

925 ft. from ☐ North ☒ South from section line // 56.25 ft. from ☒ East ☐ West from section line

WELL LOCATION

Sec. 26 Township 47 North Range 33 ☐ East ☒ West

LATITUDE

38° 51' 38.3364

LONGITUDE

94° 31' 55.0554 W

REMARKS

SEE ATTACHED PLAT

INSTRUCTIONS

On the above plat, show distance of the proposed well from the two nearest section lines, the nearest lease line, and from the nearest well on the same lease completed in or drilling to the same reservoir. Do not confuse survey lines with lease lines. See rule 10 CSR 50-2.030 for survey requirements. Lease lines must be marked.

This is to certify that I have executed a survey to accurately locate oil and gas wells in accordance with 10 CSR 50-2.030 and that the results are correctly shown on the above plat.

REMIT TWO (2) COPIES TO:
GEOLOGICAL SURVEY PROGRAM
PO BOX 250, ROLLA, MO 65402-0250 (573) 368-2143
ONE (1) COPY WILL BE RETURNED

REGISTERED LAND SURVEYOR

NUMBER

MO 780-0213 (6-06)

Missouri Department of Natural Resources
Geographic Information Systems

Check Location

Select a coordinate format, enter a pair of coordinates in the boxes below it, and then press the SUBMIT button. Please be patient while your information is retrieved. Your coordinates will be converted to the other formats, the information on the right-hand side of the page will be filled in based on your coordinates, and a map will be generated. NOTE: All coordinates must use the North American Datum of 1983 (NAD83).

Submit

Universal Transverse Mercator [Zone 15 North]

Easting: 367080.6009054787 meters
Northing: 4302426.8021022 meters

Decimal Degrees

Latitude: 38.86063888888889 °
Longitude: -94.53197222222222 °

Degrees, Minutes and Seconds

Latitude Degrees: 38 °
Latitude Minutes: 51 '
Latitude Seconds: 38.3 "
Longitude Degrees: -94 °
Longitude Minutes: 31 '
Longitude Seconds: 55.1 "

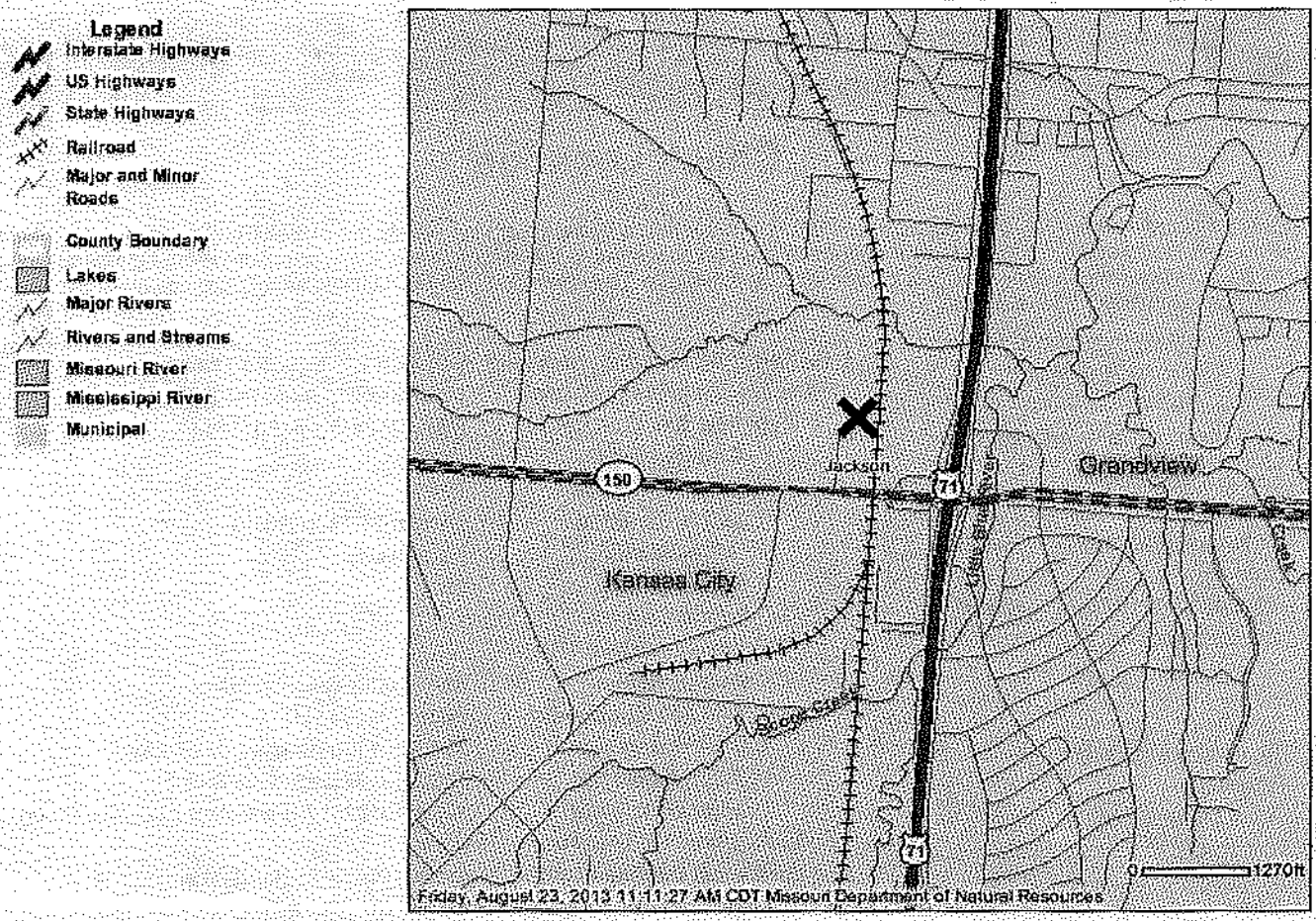
UTM Zone 15N [Easting, Northing]	[367080.6, 4302426.8] meters
Decimal Degrees [Lat, Lon]	[38.860638°, -94.531973°]
Deg, Min, Sec [Lat, Lon]	[38° 51' 38.3", -94° 31' 55.1"]
County Name	Jackson
County FIPS Code	095
Legal Description	Section 26 T47N R33W
Municipality	Kansas City
House District	56
Senate District	7
Congressional District	5
MoDNR Region	Kansas City Regional Office
USGS 1:24,000 Quadrangle	Belton [38094-G5]
8 Digit Watershed	10300101 [Lower Missouri-Crooked]
10 Digit Watershed	1030010102 [Little Blue River]
12 Digit Watershed	103001010201 [Headwaters Little Blue River]
Special Well Drilling Area	Area 2
Ecological Drainage Unit	Central Plains/Blackwater/Lamine
Level III Ecoregion	Central Irregular Plains
Query Time	5.141 s

Rows with red text indicate that the input location is too close to a boundary to produce reliable results.

NOTE: A result of 'NO VALUE' is usually an indication that no data was found for the location. For example, not every point in Missouri will lie within a municipal boundary, so some will result in a 'NO VALUE'. If 'County Name' results in 'NO VALUE', your point probably lies outside the state.

Metadata

- Interstate Highways
- US Highways
- State Highways
- Railroad
- Major and Minor Roads
- County Boundary
- Lakes
- Major Rivers
- Rivers and Streams
- Missouri River
- Mississippi River
- Municipal



View Scale 1:24,000

DISCLAIMER: Although this map has been compiled by the Missouri Department of Natural Resources, no warranty, expressed or implied, is made by the department as to the data and related materials. The act of distribution shall not constitute any such warranty, and no responsibility is assumed by the department in the use of these data or related materials.

Missouri Department of Natural Resources

P.O. Box 176, Jefferson City, MO 65102
800-361-4827 / 573-751-3443
E-mail: contact@dnr.mo.gov

RECEIVED
APR 27 2015
MO Oil & Gas Council

STATE OF MISSOURI
MISSOURI DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY PROGRAM

FORM OGC-5

WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG

■ NEW WELL ☐ WORKOVER ☐ DEEPEN ☐ PLUG BACK ☐ INJECTION ☐ SAME RESERVOIR ☐ DIFFERENT RESERVOIR ■ OIL ☐ GAS ☐ DRY

OWNER	ADDRESS
BARBARA A GIBLIN REVOCABLE TRUST	1401 N KENNETH RD LEAWOOD KS. 66224
LEASE NAME	**WELL NUMBER**
SAINT BARBARA	ONE

LOCATION OF WELL: SEC TWN RNG OR BLOCK AND SURVEY	LATITUDE	LONGITUDE
Sec 26 Twp 47 North, Rng 33 ☐ East ■ West OR ____ ft. from ☐ North ☐ South ____ ft. from ☐ East ☐ West	38° 51' 38.3	94° 31' 55

COUNTY	PERMIT NUMBER (OGC-3 OR OGC-31)
JACKSON	21461

DATE SPUDDED	DATE TOTAL DEPTH REACHED	DATE COMPLETED READY TO PRODUCE OR INJECT	ELEVATION (DF, RKR, RT, OR GR.) FEET	ELEVATION OF CASING HD FLANGE
12/2/14	12/3/14	9/28/14	985.0"	3.5"

TOTAL DEPTH	PLUG BACK TOTAL DEPTH
536.5"	506.95

PRODUCING OR INJECTION INTERVAL(S) FOR THIS COMPLETION	ROTARY TOOLS USED (INTERVAL)	CABLE TOOLS USED (INTERVAL)
462.0" TO 472.0"	0 TO TD DRILLING FLUID USED H2O	N/A

WAS THIS WELL DIRECTIONALLY DRILLED?	WAS DIRECTIONAL SURVEY MADE?	WAS COPY OF DIRECTIONAL SURVEY FILED?	DATE FILED
☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	N/A

TYPE OF ELECTRICAL OR OTHER LOGS RUN (LIST LOGS FILED WITH THE STATE GEOLOGIST) — DATE FILED

SEE ATTACHED LOGS

CASING RECORD

CASING (REPORT ALL STRINGS SET IN WELL – CONDUCTOR, SURFACE, INTERMEDIATE, PRODUCING, ETC.

PURPOSE	SIZE HOLE DRILLED	SIZE CASING SET	WEIGHT (LB. FT)	DEPTH SET	SACKS CEMENT	AMOUNT PULLED
SURFACE	9.875"	7.0"	20 LB	21.9"	6	N/A
INTERMEDIATE	5.625"	2.875"	6.5 LB	506.95	80	N/A
PRODUCTION	N/A	1.0"	1.7 LB	504.0"	N/A	N/A

TUBING RECORD

SIZE	DEPTH SET	PACKER SET AT	SIZE
1.0" INCH	504.0" FEET	N/A FEET	N/A INCH

LINER RECORD

TOP	BOTTOM	SACKS CEMENT	SCREEN
N/A FEET	FEET		FEET

PERFORATION RECORD

NUMBER PER FEET	SIZE AND TYPE	DEPTH INTERVAL
3 PER FOOT	2" DML-RTG	462.0 TO 472.0

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

AMOUNT AND KIND OF MATERIAL USED	DEPTH INTERVAL
ACID TREATMENT 1/21/14 SHUT IN FOR FRACTURE AFTER 2/3/14 TEST	462.0" TO 472.0"

INITIAL PRODUCTION

DATE OF FIRST PRODUCTION OR INJECTION	PRODUCING METHOD (INDICATE IF FLOWING, GAS LIFT, OR PUMPING – IF PUMPING, SHOW SIZE AND TYPE OF PUMP.)
2/3/14	INTERMITTANT FLOW BETWEEN PUMPING (SEE ATTACHED)

DATE OF TEST	HOURS TESTED	CHOKE SIZE	OIL PRODUCED DURING TEST	GAS PRODUCED DURING TEST	WATER PRODUCED DURING TEST	OIL GRAVITY
2/3/14	36	N/A	16 BBLS	NOT TESTED MCF	2 BBLS	26 API (CORR.)

TUBING PRESSURE	CASING PRESSURE	CALCULATED RATE OF PRODUCTION PER 24 HOURS	OIL	GAS	WATER	GAS OIL RATIO
N/A	157	TOO ERRATIC TO ESTIMATE	16 BBLS	MCF	2 BBLS	?

DISPOSITION OF GAS (STATE WHETHER VENTED, USED FOR FUEL OR SOLD)

VENTED

METHOD OF DISPOSAL OF MUD PIT CONTENTS

EVAPORATION & CUTTINGS USED FOR ACCESS ROAD

CERTIFICATE: I, the Undersigned, state that I am the _____ of the OPER (Company), and that I am authorized by said company to make this report, and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

DATE	SIGNATURE
4/17	ATTORNEY IN FACT FOR THE BARBARA A. GIBLIN REVOCABLE TRUST JAMES GIBLIN

ONE (1) COPY TO BE RETURNED

INSTRUCTIONS: Attach drillers log or other acceptable log of well.

* Show all important zones of porosity, detail of all cores, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

DETAIL OF FORMATIONS PENETRATED

FORMATION	TOP	BOTTOM	DESCRIPTION (SEE * ABOVE)
LABETTE UPPER SQUIRREL?	465.0"	472.0"	SANDSTONE GREY, FIGHT GRAINED, EXTREMELY GASEY, OIL DARK, RELATIVELY LIGHT COLORED
MULKY LOWER SQUIRREL?	516.0"	519.6"	SANDSTONE BROWN, BROKEN BY LAYERS OF LIGHT GREY SHALE, OIL DARK, HEAVY

MO 780-0215 (6-06)

CONSOLIDATED
Oil Well Services, LLC

REMIT TO
Consolidated Oil Well Services, LLC
Dept. 970
P.O. Box 4346
Houston, TX 77210-4346

MAIN OFFICE
P.O. Box 884
Chanute, KS 66720
620/431-9210 • 1-800/467-8676
Fax 620/431-0012

INVOICE Invoice # 265570

Invoice Date: 01/24/2014 Terms: 5/5/30,n/30 Page 1

MISCELLANEOUS ACCOUNTS
JIM GIBLIN
409 VINE STREET
STILLWELL KS 66085
(913)713-9861

ST. BARBARA #1
48893
26-47-33
01-21-2014
KS

Part Number	Description	Qty	Unit Price	Total
3107	15% HCL	200.00	1.7500	350.00
3166	ACID INHIBITOR	.75	50.0000	37.50
3175B	STIMOIL FBA	1.50	65.0000	97.50
3144	CLAY STAY (CS-250)(ESA-5	.50	37.0000	18.50
3129	CITY WATER	400.00	.0173	6.92
3172A	KCL SUB MB6875 CC3107 (1	1.00	38.3300	38.33
4326	7/8" RUBBER BALL SEALERS	41.00	3.0000	123.00

Sublet Performed	Description	Total
9994-110	ACID MATERIAL DISCOUNT	-6.15
9994-110	ACID MATERIAL DISCOUNT	-27.44
9993-110	ACID EQUIPMENT DISCOUNT	-73.90

	Description	Hours	Unit Price	Total
424	MINIMUM ACID SPOTTING CHARGE	1.00	400.00	400.00
424	ACID EQUIPMENT MILEAGE	1.00	200.00	200.00
521	ACID PUMP CHARGE(1500 GALLON)	1.00	677.54	677.54
521	FRAC VALVES (2" OR 3")	1.00	.00	.00
521	BALL INJECTOR	1.00	.00	.00
521	ACID EQUIPMENT MILEAGE	1.00	200.00	200.00

Amount Due 2158.57 if paid after 02/23/2014

Parts:	671.75	Freight:	.00	Tax:	8.84 AR	2050.64
Labor:	.00	Misc:	.00	Total:	2050.64	
Sublt:	-107.49	Supplies:	.00	Change:	.00	

Signed _____ Date _____

CONSOLIDATED
Oil Well Services, LLC

REMIT TO
FINV
Consolidated Oil Well Services, LLC
Dept. 970
P.O. Box 4346
Houston, TX 77210-4346

MAIN OFFICE
P.O. Box 884
Chanute, KS 66720
620/431-9210 • 1-800/467-8676
Fax 620/431-0012

INVOICE Invoice # 269982

Invoice Date: 07/31/2014 Terms: 0/0/30,n/30 Page 1

MISCELLANEOUS ACCOUNTS
JIM GIBLIN
409 VINE STREET
STILLWELL KS 66085
( ) -

SAINT BARBARA #1 & 3
49939
26-47-33
7-29-14
MO

Part Number	Description	Qty	Unit Price	Total
1275	15% HCL	75.00	1.7500	131.25
1202	ACID INHIBITOR	.25	50.0000	12.50
1219B	STIMOIL FBA (SR-445)	11.00	65.0000	715.00
1268	CITY WATER	11000.00	.0173	190.30
1215A	KCL (1/1000)	12.00	38.3300	459.96
1231	FRAC GEL	200.00	9.0000	1800.00
1208	BREAKER LEB4-ESA 14-GB10	.50	200.0000	100.00
1205A	BIOCIDE (AMA-35-D-P) (DR	6.00	30.0000	180.00
1244	CLAY STAY (CS-250)(ESA-5	6.00	37.0000	222.00
4326	7/8" RUBBER BALL SEALERS	29.00	3.0000	87.00
2104A	16/30 BROWN SAND	600.00	.2700	162.00
2102	12/20 BROWN SAND	7400.00	.2700	1998.00

Sublet Performed	Description	Total
9998-110	FRAC MATERIAL DISCOUNT	-289.41
9997-110	FRAC EQUIPMENT DISCOUNT	-352.02
9998-110	FRAC MATERIAL DISCOUNT	-13.87

	Description	Hours	Unit Price	Total
T-91	WATER TRANSPORT (FRAC)	5.00	120.00	600.00
VALVE	FRAC VALVES (2" OR 3")	2.00	100.00	200.00
458	PROPANT DELIVERY	1.00	408.20	408.20
BALLI	BALL INJECTOR	2.00	.00	.00
524	MINIMUM COMBO CHARGE 1000 HP UNIT	1.00	2300.00	2300.00
524	MINIMUM COMBO CHARGE 1000 HP UNIT	1.00	2044.93	2044.93
524	MILEAGE CHARGE (ONE WAY)	65.00	4.00	260.00
582	MINIMUM ACID SPOTTING CHARGE	1.00	375.00	375.00

CONSOLIDATED
Oil Well Services, LLC

REMIT TO
PINV
Consolidated Oil Well Services, LLC
Dept. 970
P.O. Box 4346
Houston, TX 77210-4346

MAIN OFFICE
P.O. Box 884
Chanute, KS 66720
620/431-9210 • 1-800/467-8676
Fax 620/431-0012

INVOICE Invoice # 269982

Invoice Date: 07/31/2014 Terms: 0/0/30,n/30 Page 2

MISCELLANEOUS ACCOUNTS
JIM GIBLIN
409 VINE STREET
STILLWELL KS 66085
( ) -

SAINT BARBARA #1 & 3
49939
26-47-33
7-29-14
MO

	Description	Hours	Unit Price	Total
582	MILEAGE CHARGE (ONE WAY)	65.00	4.00	260.00
T-221	WATER TRANSPORT (FRAC)	5.00	120.00	600.00

Parts:	6058.01	Freight:	.00	Tax:	18.84 AR	12469.68
Labor:	.00	Misc:	.00	Total:	12469.68	
Sublt:	-655.30	Supplies:	.00	Change:	.00	

Signed _____ Date _____

CONSOLIDATED
Oil Well Services, LLC

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

1st well

TICKET NUMBER 59280
FIELD TICKET REF # 49939
LOCATION Thayer
FOREMAN Gary Dillard

TREATMENT REPORT
FRAC & ACID

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
7-29-14	9999	Santa Barbara #1	26	47	33	Jackson (MO)

CUSTOMER: Jim Gibbon
MAILING ADDRESS:
CITY | STATE | ZIP CODE:

TRUCK #	DRIVER	TRUCK #	DRIVER
524	Thomas		
1458	Tim		
735/791	George		

WELL DATA

CASING SIZE 2 1/2	TOTAL DEPTH
CASING WEIGHT	PLUG DEPTH
TUBING SIZE	PACKER DEPTH
TUBING WEIGHT	OPEN HOLE
PERFS & FORMATION	
462.72 (31)	

40 sks
20 units

TYPE OF TREATMENT
Fracture

CHEMICALS

City Water	
KCL Sub	
20# Gel / Breaker	
Biocide	

Clay Stay Shale

STAGE	BBL'S PUMPED	INJ RATE	PROPPANT PPG	SAND / STAGE	PSI	
Pad	20	-16				BREAKDOWN —
16/30				300		START PRESSURE
12/20				1700		END PRESSURE
12/20 3+3+2+1 balls (9)				1		BALL OFF PRESS
12/20				2000		ROCK SALT PRESS
Flush-Gel	10					ISIP 400
Release						5 MIN
Overflush	5					10 MIN
						15 MIN
						MIN RATE
totals	130			4000		MAX RATE
						DISPLACEMENT 2.7

REMARKS:

AUTHORIZATION _____ TITLE _____ DATE _____

Terms and Conditions are printed on reverse side.

EVANS ENERGY DEVELOPMENT INC.
11 Lewis Drive Paola, KS 66071

Oil & Gas Well Drilling
Water Wells
Geo-Loop Installation

Phone: 913-557-9083
Fax: 913-557-9084

WELL LOG

Barbara A. Giblin Revocable Trust
Saint Barbara #1
Permit # 21461
December 31, 2013 - January 3, 2014

Thickness of Strata	Formation	Total	
6	soil & clay	6	
10	broken lime	16	
21	shale	37	
6	lime	43	
40	shale	83	
2	lime	85	
8	shale	93	
4	lime	97	
5	shale	102	
9	lime	111	
2	shale	113	
14	lime	127	
7	shale	134	
18	lime	152	
6	shale	158	
3	lime	161	
2	shale	163	
7	lime	170	base of the Kansas City
33	shale	213	
4	silty shale	217	grey
9	sand	226	green & grey, light gas odor
51	shale	277	
8	silty shale	285	
21	shale	306	
3	limey sand	309	
39	shale	348	323 red shale
5	lime	353	
7	shale	360	
3	lime	363	
5	shale	368	
5	lime	373	
1	shale	374	
2	lime	376	
5	shale	381	
2	silty shale	383	
9	shale	392	
5	lime	397	
8	shale	405	
4	sand	409	grey making water

1	lime	410	
19	shale	429	
1	lime	430	
3	shale	433	
1	lime	434	
9	shale	443	
1	lime	444	
18	shale	462	
3	broken sand	465	
7	oil sand	472	bleeding sand, 70% silty shale
23	shale	495	
1	lime & shells	496	
17	shale	513	
1	grey sand	514	
2	broken sand	516	50% brown sand, 50% grey sand ok bleeding
1	oil sand	517	brown sand good bleeding (gassy)
2.5	broken sand	519.5	75% brown sand 25% shale good bleeding
17	shale	536.5	TD

Drilled a 9 7/8" hole to 21.9'
Drilled a 5 5/8" hole to 536.5'

Set 21.9' of 7" threaded and coupled surface casing, cemented with 6 sacks cement.

Set 506.95' of 2 7/8" 8 round upset tubing including 3 centralizers, 1 float shoe, 1 clamp.

SALES DEL/RETURN FORM

No. 52692 O

OIL PATCH PUMP & SUPPLY INC.

OIL COUNTRY & INDUSTRIAL SUPPLY HOUSE
P.O. BOX 591 CHANUTE, KANSAS 66720 620-431-1890
CHANUTE: 1-800-279-0116 OSAWATOMIE: 1-800-432-0217
INDEPENDENCE: 1-620-331-4580 IOLA: 1-620-365-5265
MADISON: 1-620-437-2100 WELLSVILLE: 1-785-883-4500
www.oilpatchpump.com

SOLD TO Jim Goodwin

TYPE OF PUMP

DATE	CUSTOMER P.O.
1-22-14	
DELIVERED	PICK-UP
	/
CHARGE / CASH	RETURN / QUOTE
/	

QUANTITY	DESCRIPTION	PART #	UNIT LIST PRICE	DISC.	AGREED TERMS	AMOUNT
2	RAILROAD TIES	RT	X		16.31	32.62
1	15/16" POLISH ROD CLAMP	1000-0312-1015	X			46.23
1	#3010 JC PUMP UNIT W/LONG BASE SERIAL # 131717	1008-23-18	X			2364.32
6	70# JC WEIGHTS	JC70#10-13RW1	X		68.14	409.44
1	4' BARS DOWN HOLE PUMP	PUMP-KSPE508	X			696.00
1	10' WEIGHTED ANCHOR	WD-WA-1001	X			74.67
4	O.P MOTOR RAIL BOLTS	4DD12	X		2.75	11.00
	TOTAL OF BOTH TICKETS					
	# 4,854.50					
	4760.00					
	DRW 16.31					
					SUBTOTAL	
					SALES TAX	
					TOTAL	3616.50

RECEIVED BY:

LOCATION:

COUNTY: OUT OF STATE

QUALITY OF USED PRODUCTS ARE BASED ON GOOD FAITH OPINION ONLY WITHOUT WARRANTIES OR GUARANTIES OF ANY KIND.

FORMAL ACCOUNTING WILL BE MADE ON ALL PRICES IN EFFECT AT TIME OF MACHINE BILLING.

CUSTOMER COPY

RECEIVED
MAR 31 2014
FORM OGC-3

STATE OF MISSOURI
GEOLOGICAL SURVEY PROGRAM

APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK

Mid-Continent Oil & Gas Council

☐ APPLICATION TO DRILL ☐ DEEPEN ☐ PLUG BACK ■ FOR AN OIL WELL ☒ OR GAS WELL

NAME OF COMPANY OR OPERATOR		DATE
BARBARA A. GIBLIN REVOCABLE TRUST BARBARA A. GIBLIN TRUSTEE DATE 03/07/2013		3/25/14
ADDRESS	**CITY**	**STATE** / **ZIP CODE**
14014 KENNETH ROAD	LEAWOOD	KS. / 66224

DESCRIPTION OF WELL AND LEASE

NAME OF LEASE	WELL NUMBER	ELEVATION (GROUND)
SAINT BARBARA	ST. BARBARA #3	977.69"

WELL LOCATION (GIVE FOOTAGE FROM SECTION LINES)
1245.00" ft. from ☐ North ■ South section line 1476.25" ft. from ■ East ☐ West section line

WELL LOCATION	LATITUDE / LONGITUDE	COUNTY
Sec. 26 Township 47 North Range 33 ☐ East ■ West	38°-51'-41.7342" / 94°-35'-58.0774"	JACKSON 095

NEAREST DISTANCE FROM PROPOSED LOCATION TO PROPERTY OR LEASE LINE 480.0" FEET
DISTANCE FROM PROPOSED LOCATION TO NEAREST DRILLING, COMPLETED OR APPLIED – FOR WELL ON THE SAME LEASE 460.0" FEET

PROPOSED DEPTH	DRILLING CONTRACTOR, NAME AND ADDRESS	ROTARY OR CABLE TOOLS	APPROX. DATE WORK WILL START
600.00" 378'd ~200'd	SCOTT EVANS 11 LEWIS DRIVE PAOLA KS 66071	ROTARY	4/15/14

NUMBER OF ACRES IN LEASE	NUMBER OF WELLS ON LEASE INCLUDING THIS WELL, COMPLETED IN OR DRILLING TO THIS RESERVOIR	NUMBER OF ABANDONED WELLS ON LEASE
144.95	TWO	0

IF LEASE PURCHASED WITH ONE OR MORE WELLS DRILLED, FROM WHOM PURCHASED?
NAME N/A
ADDRESS

NO. OF WELLS PRODUCING ____ INJECTION ____ INACTIVE ONE ABANDONED ____

STATUS OF BOND	☒ SINGLE WELL AMOUNT $ 20000.00	☐ BLANKET BOND AMOUNT $	☐ ON FILE ■ ATTACHED

REMARKS: (IF THIS IS AN APPLICATION TO DEEPEN OR PLUG BACK, BRIEFLY DESCRIBE WORK TO BE DONE, GIVING PRESENT PRODUCING/INJECTION ZONE AND EXPECTED NEW INJECTION ZONE. USE BACK OF FORM IF NEEDED)

PROPOSED CASING PROGRAM				APPROVED CASING – TO BE FILLED IN BY STATE GEOLOGIST			
AMOUNT	SIZE	WT/FT	CEMENT	AMOUNT	SIZE	WT/FT	CEMENT
22'0"	7"	20 LBS.	6 SACKS NEAT	22'	7"	20#	Full Length
600'0"	2.875"	6.5 LBS	90 SACKS	600'	2.875"	6.5#	

I, the Undersigned, state that I am the ON BEHALF of the COMPANY (Company), and that I am authorized by said company to make this report, and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct, and complete to the best of my knowledge.

SIGNATURE	DATE
JAMES GIBLIN - James A Giblin	3/25/14

PERMIT NUMBER 21488
APPROVED DATE 5-9-14
APPROVED BY Joseph A. Gillman

- ☒ DRILLER'S LOG REQUIRED
- ☒ CORE ANALYSIS REQUIRED IF RUN
- ☐ SAMPLES REQUIRED
- ☒ SAMPLES NOT REQUIRED
- ☐ WATER SAMPLES REQUIRED AT
- ☐ E-LOGS REQUIRED IF RUN
- ☐ DRILL SYSTEM TEST INFO REQUIRED IF RUN

NOTE ▶ THIS PERMIT NOT TRANSFERABLE TO ANY OTHER PERSON OR TO ANY OTHER LOCATION.

APPROVAL OF THIS PERMIT BY THE OIL AND GAS COUNCIL DOES NOT CONSTITUTE ENDORSEMENT OF THE GEOLOGIC MERITS OF THE PROPOSED WELL NOR ENDORSEMENT OF THE QUALIFICATIONS OF THE PERMITTEE

I, _____ of the _____ (Company), confirm that an approved drilling permit has been obtained by the owner of this well. Council approval of this permit will be shown on this form by presence of a permit number and signature of authorized council representative.

DRILLER'S SIGNATURE	DATE

RECEIVED

MAR 31 2014

Mo Oil & Gas Council

FORM OGC-4

STATE OF MISSOURI
MISSOURI DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY PROGRAM

WELL LOCATION PLAT

OWNER'S NAME

BARBARA A GIBLIN REVOCABLE TRUST BARBARA A. GIBLIN TRUSTEE 03/07/12

LEASE NAME

SAINT BARBARA

COUNTY

JACKSON

WELL LOCATION (GIVE FOOTAGE FROM SECTION LINES)

1245.00 ft. from ☐ North ☒ South from section line 1476.16 ft. from ☒ East ☐ West from section line

WELL LOCATION

Sec 26 Township 47 North Range 33 ☐ East ☒ West

LATITUDE

38°-51'-41.7342

LONGITUDE

94°-31'-58.0974 W

REMARKS

SEE ATTACHED PLAT

INSTRUCTIONS

On the above plat, show distance of the proposed well from the two nearest section lines, the nearest lease line, and from the nearest well on the same lease completed in or drilling to the same reservoir. Do not confuse survey lines with lease lines. See rule 10 CSR 50-2.030 for survey requirements. Lease lines must be marked.

This is to certify that I have executed a survey to accurately locate oil and gas wells in accordance with 10 CSR 50-2.030 and that the results are correctly shown on the above plat.

REMIT TWO (2) COPIES TO:
GEOLOGICAL SURVEY PROGRAM
PO BOX 250, ROLLA, MO 65402-0250 (573) 368-2143
ONE (1) COPY WILL BE RETURNED

REGISTERED LAND SURVEYOR

NUMBER

MO 780-0213 (6-06)

Convert Lat and Long to DMS

Type the lat and long values to convert into **degrees minutes seconds**.

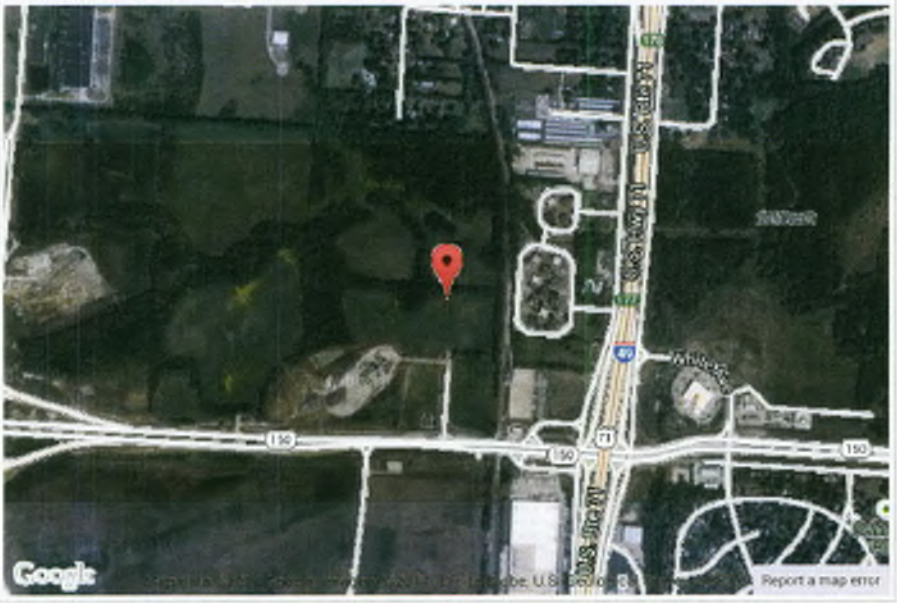
Like 14 10

Latitude	DMS value of Lat:
38.861583333333336	38° 51' 41.7000" N

Longitude	DMS value of Long:
-94.53280555555556	94° 31' 58.1000" W

Convert to DMS

Location of point on map



Lat long to DMS

On this page you can convert decimal degrees to DMS values.

The directions abbreviations ;

- S: South
- W: West
- E: East
- N: North

What is DMS?

DMS is the abbreviation of *Degrees Minutes Seconds*.

Meanings of Signs

° degrees, ' minutes, " seconds.

Tips

- You can press ENTER to calculate DMS in the lat long input box.
- If you click into the DMS lat and DMS long input box, it will auto select the value.

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RECEIVED

APR 27 2015

FORM CGC-5

STATE OF MISSOURI
MISSOURI DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY PROGRAM

WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG

Oil & Gas Council

■ NEW WELL ☐ WORKOVER ☐ DEEPEN ☐ PLUG BACK ☐ INJECTION ☐ SAME RESERVOIR ☐ DIFFERENT RESERVOIR ■ OIL ☐ GAS ☐ DRY

OWNER	ADDRESS
BARBARA A. GIBLIN REVOCABLE TRUST	19814 KENNETH RD LEAWOOD KS 66224
LEASE NAME	**WELL NUMBER**
SAINT BARBARA	THREE

LOCATION OF WELL: SEC TWN RNG OR BLOCK AND SURVEY	LATITUDE	LONGITUDE
Sec. 25 Twp 47 North, Rng 33 ☐ East ■ West OR ____ ft. from ☐ North ☐ South ____ ft. from ☐ East ☐ West	38° 51' 41.73"	94° 31' 58.09"

COUNTY	PERMIT NUMBER (OGC-3 OR CGC-31)
JACKSON	21488

DATE SPUDDED	DATE TOTAL DEPTH REACHED	DATE COMPLETED READY TO PRODUCE OR INJECT	ELEVATION (DF, RKR, RT, OR GR.) FEET	ELEVATION OF CASING HD. FLANGE
5/29/14	5/30/14	9/28/14	977.29	4.0"

TOTAL DEPTH	PLUG BACK TOTAL DEPTH
800.0"	610.3

PRODUCING OR INJECTION INTERVAL(S) FOR THIS COMPLETION	ROTARY TOOLS USED (INTERVAL)	CABLE TOOLS USED (INTERVAL)
524 TO 534	0 TO TD DRILLING FLUID USED H2O	N/A

WAS THIS WELL DIRECTIONALLY DRILLED?	WAS DIRECTIONAL SURVEY MADE?	WAS COPY OF DIRECTIONAL SURVEY FILED?	DATE FILED
☐ Yes ☒ No	☐ Yes ☒ No	☐ Yes ☒ No	N/A

TYPE OF ELECTRICAL OR OTHER LOGS RUN (LIST LOGS FILED WITH THE STATE GEOLOGIST)	DATE FILED
SEE ATTACHED LOGS	

CASING RECORD

CASING (REPORT ALL STRINGS SET IN WELL – CONDUCTOR, SURFACE, INTERMEDIATE, PRODUCING, ETC.

PURPOSE	SIZE HOLE DRILLED	SIZE CASING SET	WEIGHT (LB. FT)	DEPTH SET	SACKS CEMENT	AMOUNT PULLED
SURFACE	9.875"	7.0"	17.0	24.2"	6	N/A
INTERMEDIATE	5.625"	2.875"	6.5	614.0"	110	N/A
PRODUCTION	N/A	1.0"	1.7	607.0"	N/A	N/A

TUBING RECORD

SIZE	DEPTH SET	PACKER SET AT	SIZE
ONE INCH	607.0" FEET	N/A FEET	INCH

LINER RECORD

TOP	BOTTOM	SACKS CEMENT	SCREEN
N/A FEET	FEET		FEET

PERFORATION RECORD

NUMBER PER FEET	SIZE AND TYPE	DEPTH INTERVAL
THREE	2" CML DTG	524.0 TO 534.0

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

AMOUNT AND KIND OF MATERIAL USED	DEPTH INTERVAL
SEE ATTACHED	524.0 TO 534.0

INITIAL PRODUCTION

DATE OF FIRST PRODUCTION OR INJECTION	PRODUCING METHOD (INDICATE IF FLOWING, GAS LIFT, OR PUMPING – IF PUMPING, SHOW SIZE AND TYPE OF PUMP)
9/8/14	PUMPING (SEE ATTACHED FOR TYPE OF PUMP)

DATE OF TEST	HOURS TESTED	CHOKE SIZE	OIL PRODUCED DURING TEST	GAS PRODUCED DURING TEST	WATER PRODUCED DURING TEST	OIL GRAVITY
9/8/14	24	N/A	24 BBLS	MCF N/A	30 BBLS	19.5 API (CORR.)

TUBING PRESSURE	CASING PRESSURE	CALCULATED RATE OF PRODUCTION PER 24 HOURS	OIL	GAS	WATER – (FLAC, H_2O)	GAS OIL RATIO
N/A	51 POUNDS		24 BBLS	N/A MCF	30 BBLS	?

DISPOSITION OF GAS (STATE WHETHER VENTED, USED FOR FUEL OR SOLD)

VENTED

METHOD OF DISPOSAL OF MUD PIT CONTENTS

EVAPORATION - CUTTINGS USED FOR ACCESS ROAD

CERTIFICATE: I, the Undersigned, state that I am the _____ of the GIBLIN (Company), and that I am authorized by said company to make this report, and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

DATE	SIGNATURE
4/17	ATTORNEY IN FACT FOR THE BARBARA A. GIBLIN REVOCABLE TRUST JAMES GIBLIN

MO 780-0215 (8-06)

REMIT TWO (2) COPIES TO: GEOLOGICAL SURVEY PROGRAM, PO BOX 250, ROLLA, MO 65402 (573) 368-2143

(REV 8-06)

ONE (1) COPY TO BE RETURNED.

INSTRUCTIONS: Attach drillers log or other acceptable log of well.

* Show all important zones of porosity, detail of all cores, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

DETAIL OF FORMATIONS PENETRATED

FORMATION	TOP	BOTTOM	DESCRIPTION (SEE * ABOVE)
LABETTE UPPER SQUIRREL?	486'0	491'5"	SANDSTONE, LIMEY, BROKEN BY NUMEROUS LIGHT GREY SHALE LENSES, OIL, BLACK, THICK, TAR LIKE
MULKY LOWER SQUIRREL?	524'5"	535'0"	SANDSTONE, BROWN, NONCALCAREOUS, DISTORTED BEDDING, BROKEN AND FRACTURED AT 60° ANGLES TO THE HORIZONTAL, OIL DRIPS

MO 780-0215 (8-06)

CONSOLIDATED
Oil Well Services, LLC

REMIT TO
FINV
Consolidated Oil Well Services, LLC
Dept. 970
P.O. Box 4346
Houston, TX 77210-4346

MAIN OFFICE
P.O. Box 884
Chanute, KS 66720
620/431-9210 • 1-800/467-8676
Fax 620/431-0012

INVOICE Invoice # 269982

Invoice Date: 07/31/2014 Terms: 0/0/30,n/30 Page 1

MISCELLANEOUS ACCOUNTS
JIM GIBLIN
409 VINE STREET
STILLWELL KS 66085
( ) -

SAINT BARBARA #1 & 3
49939
26-47-33
7-29-14
MO

Part Number	Description	Qty	Unit Price	Total
1275	15% HCL	75.00	1.7500	131.25
1202	ACID INHIBITOR	.25	50.0000	12.50
1219B	STIMOIL FBA (SR-445)	11.00	65.0000	715.00
1268	CITY WATER	11000.00	.0173	190.30
1215A	KCL (1/1000)	12.00	38.3300	459.96
1231	FRAC GEL	200.00	9.0000	1800.00
1208	BREAKER LEB4-ESA 14-GB10	.50	200.0000	100.00
1205A	BIOCIDE (AMA-35-D-P) (DR	6.00	30.0000	180.00
1244	CLAY STAY (CS-250)(ESA-5	6.00	37.0000	222.00
4326	7/8" RUBBER BALL SEALERS	29.00	3.0000	87.00
2104A	16/30 BROWN SAND	600.00	.2700	162.00
2102	12/20 BROWN SAND	7400.00	.2700	1998.00

Sublet Performed	Description	Total
9998-110	FRAC MATERIAL DISCOUNT	-289.41
9997-110	FRAC EQUIPMENT DISCOUNT	-352.02
9998-110	FRAC MATERIAL DISCOUNT	-13.87

	Description	Hours	Unit Price	Total
T-91	WATER TRANSPORT (FRAC)	5.00	120.00	600.00
VALVE	FRAC VALVES (2" OR 3")	2.00	100.00	200.00
458	PROPANT DELIVERY	1.00	408.20	408.20
BALLI	BALL INJECTOR	2.00	.00	.00
524	MINIMUM COMBO CHARGE 1000 HP UNIT	1.00	2300.00	2300.00
524	MINIMUM COMBO CHARGE 1000 HP UNIT	1.00	2044.93	2044.93
524	MILEAGE CHARGE (ONE WAY)	65.00	4.00	260.00
582	MINIMUM ACID SPOTTING CHARGE	1.00	375.00	375.00

CONSOLIDATED
Oil Well Services, LLC

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FINV
Consolidated Oil Well Services, LLC
Dept. 970
P.O. Box 4346
Houston, TX 77210-4346

MAIN OFFICE
P.O. Box 884
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620/431-9210 • 1-800/467-8676
Fax 620/431-0012

INVOICE Invoice # 269982

Invoice Date: 07/31/2014 Terms: 0/0/30,n/30 Page 2

MISCELLANEOUS ACCOUNTS
JIM GIBLIN
409 VINE STREET
STILLWELL KS 66085
( ) -

SAINT BARBARA #1 & 3
49939
26-47-33
7-29-14
MO

	Description	Hours	Unit Price	Total
582	MILEAGE CHARGE (ONE WAY)	65.00	4.00	260.00
T-221	WATER TRANSPORT (FRAC)	5.00	120.00	600.00

Parts:	6058.01	Freight:	.00	Tax:	18.84 AR	12469.68
Labor:	.00	Misc:	.00	Total:	12469.68	
Sublt:	-655.30	Supplies:	.00	Change:	.00	

Signed _____ Date _____

CONSOLIDATED
Oil Well Services, LLC

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

2nd well

TICKET NUMBER 59281
FIELD TICKET REF # 49939
LOCATION Thayer
FOREMAN Gary Wilkerson

TREATMENT REPORT
FRAC & ACID

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
7-29-11	9999	Saint Barbara # 3	26	47	33	Jackson (MO)

CUSTOMER: Jim Giblin
MAILING ADDRESS:
CITY | STATE | ZIP CODE:

TRUCK #	DRIVER	TRUCK #	DRIVER
524	Trampis	1	
458	Tim		
532	Matt		
680/7221	Stan		

WELL DATA

CASING SIZE 2 1/2	TOTAL DEPTH
CASING WEIGHT	PLUG DEPTH
TUBING SIZE	PACKER DEPTH
TUBING WEIGHT	OPEN HOLE
PERFS & FORMATION	
524-34 (31)	

TYPE OF TREATMENT
Acid Spot/Fracture

CHEMICALS

City Water	75 15% Acid
KCL Sub	Inhibitor
20# Gel/Breaker	Stim. 0.1
Biocide	
Clay Stay, Stim. 1	

STAGE	BBL'S PUMPED	INJ RATE	PROPPANT PPG	SAND/ STAGE	PSI	
Pad	20	16				BREAKDOWN 2000
16/30				300		START PRESSURE
12/20				1700		END PRESSURE
12/20 5+5+5+5 balls	(20)			1		BALL OFF PRESS
12/20				2000		ROCK SALT PRESS
Flush Over	10					ISIP 4150
Kblock						5 MIN
Overflush	5					10 MIN
						15 MIN
						MIN RATE
Totals	130			4000		MAX RATE
						DISPLACEMENT

REMARKS: Spot acid to perfs - breakdown and stage

AUTHORIZATION _____ TITLE _____ DATE _____

Terms and Conditions are printed on reverse side.

CONSOLIDATED
Oil Well Services, LLC

REMIT TO
~~PINV~~
Consolidated Oil Well Services, LLC
Dept. 970
P.O. Box 4346
Houston, TX 77210-4346

MAIN OFFICE
P.O. Box 884
Chanute, KS 66720
620/431-9210 • 1-800/467-8676
Fax 620/431-0012

INVOICE Invoice # 268593

Invoice Date: 05/31/2014 Terms: 0/30/10,n/30 Page 1

MISCELLANEOUS ACCOUNTS
GIBLIN TRUST
14014 KENNETH RD
LEAWOOD KS 66224
( ) -

ST. BARBARA #3
47210
05-30-2014
MO

Part Number	Description	Qty	Unit Price	Total
1124	50/50 POZ CEMENT MIX	110.00	11.5000	1265.00
1118B	PREMIUM GEL / BENTONITE	485.00	.2200	106.70
1111	SODIUM CHLORIDE (GRANULA	231.00	.3900	90.09
1110A	KOL SEAL (50# BAG)	550.00	.4600	253.00
4402	2 1/2" RUBBER PLUG	1.00	29.5000	29.50

Sublet Performed	Description	Total
9996-120	CEMENT MATERIAL DISCOUNT	-514.44

	Description	Hours	Unit Price	Total
548	TON MILEAGE DELIVERY	306.90	1.41	432.73
666	CEMENT PUMP	1.00	1085.00	1085.00
666	EQUIPMENT MILEAGE (ONE WAY)	60.00	4.20	252.00
666	CASING FOOTAGE	614.00	.00	.00
675	80 BBL VACUUM TRUCK (CEMENT)	3.00	100.00	300.00

Amount Due 3947.45 if paid after 06/10/2014

Parts:	1744.29	Freight:	.00	Tax:	94.08	AR	3393.66
Labor:	.00	Misc:	.00	Total:	3393.66		
Sublt:	-514.44	Supplies:	.00	Change:	.00		

Signed _____ Date _____

Invoice

DATE	INVOICE #
5/30/2014	998022

EVANS ENERGY DEVELOPMENT INC.

Oil & Gas Well Drilling
Water Wells
Geo-Loop Installation
Scott A. Evans, President

11 Lewis Dr.
Paola, KS 66071
(913)557-9083

BILL TO
Barbara Giblin Revocable Trust

TERMS	Project
Due on recpt	Saint Barbara #3

QTY	DESCRIPTION	RATE	AMOUNT
800	Feet Drilling a 9 7/8" and 5 5/8" Hole	10.00	8,000.00
2	3" X 20' Core Samples	800.00	1,600.00
6	Sacks of Cement for Surface Casing	14.00	84.00
2	Hour Minimum Backhoe to Dig Drill Pits	95.00	190.00
1	Hour Waiting time	400.00	400.00
	.75 Hour Waiting on Tubing Delivery		
	.75 Hour Waiting on Consolidated and use rig to plug back to tubing depth		

1557

Finance charge on unpaid balance after 30 days
Computed at 1.5% per month 18% annual percentage.

Total $10,274.00

EVANS ENERGY DEVELOPMENT INC.
11 Lewis Drive Paola, KS 66071

Oil & Gas Well Drilling
Water Wells
Geo-Loop Installation

Phone: 913-557-9083
Fax: 913-557-9084

WELL LOG

Barbara A. Giblin Revocable Trust
Saint Barbara #3

May 29 - May 30, 2014

Thickness of Strata	Formation	Total	
18	soil & clay	18	
11	lime	29	
5	shale	34	
1	lime	35	
11	shale	46	
8	lime	54	
40	shale	94	
2	lime	96	
8	shale	104	
6	lime	110	
5	shale	115	
22	lime	137	
10	shale	147	
17	lime	164	
6	shale	170	
2	lime	172	
3	shale	175	
7	lime	182	base of the Kansas City
10	shale	192	
2	sand	194	light gas odor, green
42	shale	236	
7	silty shale	243	
41	shale	284	
4	sand	288	green, no odor, makes water
73	shale	361	
4	lime	365	
7	shale	372	
2	lime	374	
7	shale	381	
7	lime	388	oil show
4	shale	392	
1	grey sand	393	hard, light bleeding
4	silty shale	397	
10	shale	407	
5	lime	412	
4	shale	416	
9	lime	425	
20	shale	445	
1	lime	446	

29	shale	475	
2	red shale	477	
7	shale	484	
1	silty shale	485	
1	oil sand	486	dark brown & lime sand ok bleeding gassy
1	oil sand	487	dark grey light bleeding
0.5	broken sand	487.5	60% grey sand 40% shale, no show
1.5	silty shale	489	
2.5	oil sand	491.5	grey sand minimal oil show, few thin limey seams
32.5	shale	524	
0.5	sand & shale	524.5	slight bleeding
2	oil sand	526.5	good bleeding
0.5	shale	527	
2.5	oil sand	529.5	good bleeding
0.8	shale	530.3	
0.7	oil sand	531	good bleeding
0.4	shale	531.4	
3.6	oil sand	535	good bleeding
109	shale	644	
1	coal	645	
63	shale	708	
4	silty shale	712	
8	sand	720	green & white, no odor
17	shale	737	
6	sand	743	white, no odor or show
16	shale	759	
20	sand	779	white, no odor
21	broken sand	800	white & shale, no show
		800	TD

Drilled a 9 7/8" hole to 24.1'
Drilled a 5 5/8" hole to 800'

Set 24.1' of 7" surface casing, cemented with 6 sacks cement.

Set 614' of 2 7/8" 8 round upset tubing including 3 centralizers, 1 float shoe, 1 clamp.

Core Times

	Minutes	Seconds		Minutes	Seconds
524		45	484		46
525		43	485		42
526		36	486		39
527		45	487		41
528		34	488		41
529		32	489		**51**
530		33	490		55
531		36	491		33
532		33	492		35
533		37	493		35
534		34	494		37
535		34	495		42
536		34	496		43
537		35	497		46
538		34	498		34
539		36	499		36
540		37	500		41
541		36	501	1	17
542		37	502	1	0
543		31			

SALES DEL/RETURN FORM

No. 52692 O

OIL PATCH PUMP & SUPPLY INC.

OIL COUNTRY & INDUSTRIAL SUPPLY HOUSE
P.O. BOX 591 CHANUTE, KANSAS 66720 620-431-1890
CHANUTE: 1-800-279-0116 OSAWATOMIE: 1-800-432-0217
INDEPENDENCE: 1-620-331-4580 IOLA: 1-620-365-5265
MADISON: 1-620-437-2100 WELLSVILLE: 1-785-883-4500
www.oilpatchpump.com

SOLD TO Jim Goodwin

TYPE OF PUMP

DATE	CUSTOMER P.O.
1-30-14	
DELIVERED	PICK-UP
	/
CHARGE	CASH / RETURN QUOTE

QUANTITY	DESCRIPTION	PART #	UNIT LIST PRICE	X	DISC.	AGREED TERMS	AMOUNT
2	RAILROAD TIES	RT		X		11.91	32 62
1	1 5/16" POLISH ROD CLAMP	1000-0312-101		X			46 23
1	#3D10 JC PUMP UNIT W/ HINGE BASE SERIAL # 131717	10D8-23-18		X			2364 32
6	70# JC WEIGHTS	JC70#1D-13841		X		68 24	409 44
1	4' BARE DOWN HOLE PUMP	PUMP-KSBE50		X			476 00
1	10' WEIGHTED ANCHOR	WD-WA-10N		X			74 67
4	O.A MOTOR RAIL BOLTS	40012		X		2.75	11 00
	TOTAL OF BOTH TICKETS			X			
	$ 4,854.50						
	476.00						
						SUBTOTAL	
						SALES TAX	
						TOTAL	3616 32

RECEIVED BY:

LOCATION:

COUNTY: OUT OF STATE

QUALITY OF USED PRODUCTS ARE BASED ON GOOD FAITH OPINION ONLY WITHOUT WARRANTIES OR GUARANTIES OF ANY KIND.

FORMAL ACCOUNTING WILL BE MADE ON ALL PRICES IN EFFECT AT TIME OF MACHINE BILLING.

CUSTOMER COPY

MISSOURI DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY PROGRAM

OIL AND GAS WELL PLUGGING REPORT

FOR OFFICE USE ONLY	DATE RECEIVED
CHECK NUMBER 2614	CHECK AMOUNT $100.00 APR 22 2021
PROCESSED BY	

WELL OWNER INFORMATION

NAME OF COMPANY, ORGANIZATION, OR INDIVIDUAL THAT DRILLS, MAINTAINS, OPERATES, OR CONTROLS OIL AND GAS WELLS IN MISSOURI	OPERATOR LICENSE NUMBER
BARONESS GUSHER RECOVERABLE TRUST	97

MAILING ADDRESS	CITY	STATE	ZIP CODE
PO BOX 481002	KANSAS CITY	MO	64148

PRIMARY CONTACT NAME	TITLE	PRIMARY PHONE NUMBER WITH AREA CODE	EMAIL ADDRESS
JAMES GIBLIN	OPERATOR	913-940-8972	JIMGIBLIN2@SPRINT.COM

WELL INFORMATION (LATITUDE AND LONGITUDE MUST BE NAD83 AND AS DECIMAL DEGREE TO THE FIFTH DECIMAL)

COUNTY	LEGAL DESCRIPTION	LATITUDE	LONGITUDE
JACKSON	Sec. 26 Twp. 47 N Rng. 32 ☐ E ☒ W	38.86020	-94.53144

PRODUCTION UNIT (LEASE OR SURFACE UNIT NAME)	WELL NUMBER	WELL PERMIT NUMBER	API NUMBER (FOR EXISTING WELL ONLY)	GROUND ELEVATION
J.T. BARNETT	8 INJ	21461	037-21461	985 FT.

APPLICATION TO DRILL THIS WELL WAS FILED IN NAME OF	HAS THIS WELL EVER PRODUCED OIL OR GAS	DRY HOLE	TOTAL WELL DEPTH
SUNFLOWER SUPPLY CO.	☒ Yes ☐ No	☐ Yes ☒ No	1005 FT.

WELL USE (SELECT ONE)

Production Well: ☒ Oil ☐ Commercial gas ☐ Non-commercial gas ☐ Coalbed methane

Injection Well: ☐ Enhanced oil recovery ☐ Disposal of formation fluids ☐ Cyclic steam stimulation ☐ Other (explain in comments box)

Other Well Usage: ☐ Stratigraphic test ☐ Observation for _____ ☐ Other (explain in comments box)

WELL ORIENTATION (SELECT ONE)

☒ Vertical Well Well depth 1005 FT.

☐ Horizontal Well Measured vertical depth _____ FT. Horizontal borehole length _____ FT.

STATIC WELLHEAD PRESSURE: 0 PSI

WELL PLUGGING INFORMATION

PLUGGING METHOD

☐ Tremie ☒ Pressure grout ☐ Other (prior approval required) _____

DATE PLUGGED: 4/12/21

Lithologic Information

Name of each stratum/strata containing oil or gas	Stratum/strata open to well bore at time of plugging	Fluid content of each stratum/strata	Depth interval of each stratum/strata	Size, kind and depth of plugs used, stating amount of cement/gel/mud
BURGESS SAND	SQUEEZED	OIL & GAS	982-992	15 SACKS 60/40
	☐ Yes ☐ No			MIX W/6% GEL
	☐ Yes ☐ No			
	☐ Yes ☐ No			

Well Construction Information

Size Pipe	Put in Well (FT.)	Pulled Out (FT.)	Left in Well (FT.)	Give Depth and Method of Parting Casing (Shot, Ripped, etc.)	Packers and Shoes
2 3/8"	805.85		805.85	982-992 SHOT	N/A

SELECT ONE: ☒ Perforated casing ☐ Open hole

Perforated/open hole depth interval: from 982 FT. to 992 FT.

BRIDGE PLUG: ☒ No ☐ Yes, depth _____ FT.

Was all equipment associated with the well removed from the site?	☒ Yes ☐ No
Was the surface casing cut three feet beneath the land surface?	☒ Yes ☐ No
Was the well site left, as nearly as practical, in the same condition as it existed before the well was plugged?	☒ Yes ☐ No

METHOD OF DISPOSAL OF MUD PIT CONTENTS: N/A

COMMENTS:

MO 780-0217 (03-18) SEND COMPLETED FORM ALONG WITH $50 PLUGGING FEE, NO LATER THAN THIRTY (30) DAYS AFTER WELL HAS BEEN PLUGGED, TO:
MISSOURI DEPARTMENT OF NATURAL RESOURCES, MISSOURI GEOLOGICAL SURVEY, GEOLOGIC RESOURCES SECTION,
PO BOX 250, ROLLA, MO 65402 PHONE: 573-368-2100 FAX: 573-368-2111 EMAIL: oilandgas@dnr.mo.gov

APR 2 2 2021

DETAIL OF GEOLOGIC STRATUM/STRATA PENETRATED (ATTACH DRILLERS LOG OR OTHER ACCEPTABLE LOG OF WELL IF AVAILABLE)

STRATA/STRATUM	Top	Bottom	Description (See * below)
SEE FORM MO 780-0210			

*NOTE: Show all important zones of porosity, detail of all cores, and all drill-stem tests, indicating depth interval tested. Indicate zones of fresh water penetrated.

WELL PLUGGING CONTRACTOR INFORMATION

NAME OF COMPANY, ORGANIZATION OR INDIVIDUAL	EMAIL ADDRESS		
MIDWEST CASING SERVICES INC.	RANDOLPH@MIDWESTCASING.COM		
MAILING ADDRESS	CITY	STATE	ZIP CODE
104 PRAIRIE PLAZA PARKWAY	GARDNER	KS	66032
COMPANY ONSITE REPRESENTATIVE	PRIMARY PHONE NUMBER WITH AREA CODE		
RANDY MORTON	785-883-2100		

METHOD OF PAYMENT

	AMOUNT DUE
☐ Check or Money Order (Please enclose check, payable to Department of Natural Resources, with submitted form.) ☐ Credit Card (Transaction fee applies.) (Please attach contact information of person authorized to make transaction.) ☐ Automated Clearing House (Please attach contact information of person authorized to make transaction.)	$50

CERTIFICATION

I, the undersigned, certify that:
I am authorized to act as an agent for the owner of this well.
The information on this report has been reviewed by me and is true, correct and complete to the best of my knowledge.
I understand the submittal fee assessed to this well is non-refundable and non-transferable.
I understand that the submission of this report is not a guarantee of acceptance.
The plugging is in accordance with the Missouri Code of State Regulations Oil and Gas Rules 10 CSR 50.

PRINT NAME	SELECT ONE	COMPANY
JAMES GIBLIN	☒ Well owner ☐ Well plugging contractor	BARBARA GIBLIN TRUST
PRIMARY TELEPHONE WITH AREA CODE	EMAIL ADDRESS	
913-449-6979	JIMGIBLIN2 AT GMAIL.COM	
SIGNATURE	DATE	
James Giblin	4/20/21	

FOR OFFICE USE ONLY

The information submitted on this report indicates the plugging of this well.
☒ Conforms with 10 CSR 50-2.060 ☐ Does not conform with 10 CSR 50-2.060

REVIEWED BY	DATE
	4-23-21

MO 780-0217 (03-18) SEND COMPLETED FORM ALONG WITH $50 PLUGGING FEE, NO LATER THAN THIRTY (30) DAYS AFTER WELL HAS BEEN PLUGGED, TO:
MISSOURI DEPARTMENT OF NATURAL RESOURCES, MISSOURI GEOLOGICAL SURVEY, GEOLOGIC RESOURCES SECTION,
PO BOX 250, ROLLA, MO 65402 PHONE: 573-368-2100 FAX: 573-368-2111 EMAIL: oilandgas@dnr.mo.gov

KCNEXT - Botts Campus
14650 Colorado
Grandview, MO 64030

Inquiry Number: 7302615.4
April 12, 2023

EDR Historical Topo Map Report
with QuadMatch™

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

EDR Historical Topo Map Report

04/12/23

Site Name:	Client Name:
KCNEXT - Botts Campus	Terracon
14650 Colorado	15620 W. 113th Street
Grandview, MO 64030	Lenexa, KS 66219
EDR Inquiry # 7302615.4	Contact: Melissa Dowling

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Terracon 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. EDRs 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:*	
P.O.#	02237055	**Latitude:**	38.862054 38° 51' 43" North
Project:	KCNEXT - Botts Campus	**Longitude:**	-94.538364 -94° 32' 18" West
		UTM Zone:	Zone 15 North
		UTM X Meters:	366528.65
		UTM Y Meters:	4302593.17
		Elevation:	973.85' above sea level

Maps Provided:

2017	1887
2015	
1995	
1975	
1970	
1953, 1957	
1934	
1893	

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Topo Sheet Key

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

2017 Source Sheets



Belton
2017
7.5-minute, 24000



Grandview
2017
7.5-minute, 24000

2015 Source Sheets



Belton
2015
7.5-minute, 24000



Grandview
2015
7.5-minute, 24000

1995 Source Sheets



Grandview
1995
7.5-minute, 24000
Aerial Photo Revised 1991



Belton
1995
7.5-minute, 24000
Aerial Photo Revised 1991

1975 Source Sheets



Grandview
1975
7.5-minute, 24000
Aerial Photo Revised 1975



Belton
1975
7.5-minute, 24000
Aerial Photo Revised 1975

Topo Sheet Key

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

1970 Source Sheets



Grandview
1970
7.5-minute, 24000
Aerial Photo Revised 1970



Belton
1970
7.5-minute, 24000
Aerial Photo Revised 1970

1953, 1957 Source Sheets



Belton
1953
7.5-minute, 24000
Aerial Photo Revised 1948



Grandview
1957
7.5-minute, 24000
Aerial Photo Revised 1955

1934 Source Sheets



Belton
1934
7.5-minute, 24000



Grandview
1934
7.5-minute, 24000

1893 Source Sheets



Olathe
1893
30-minute, 125000

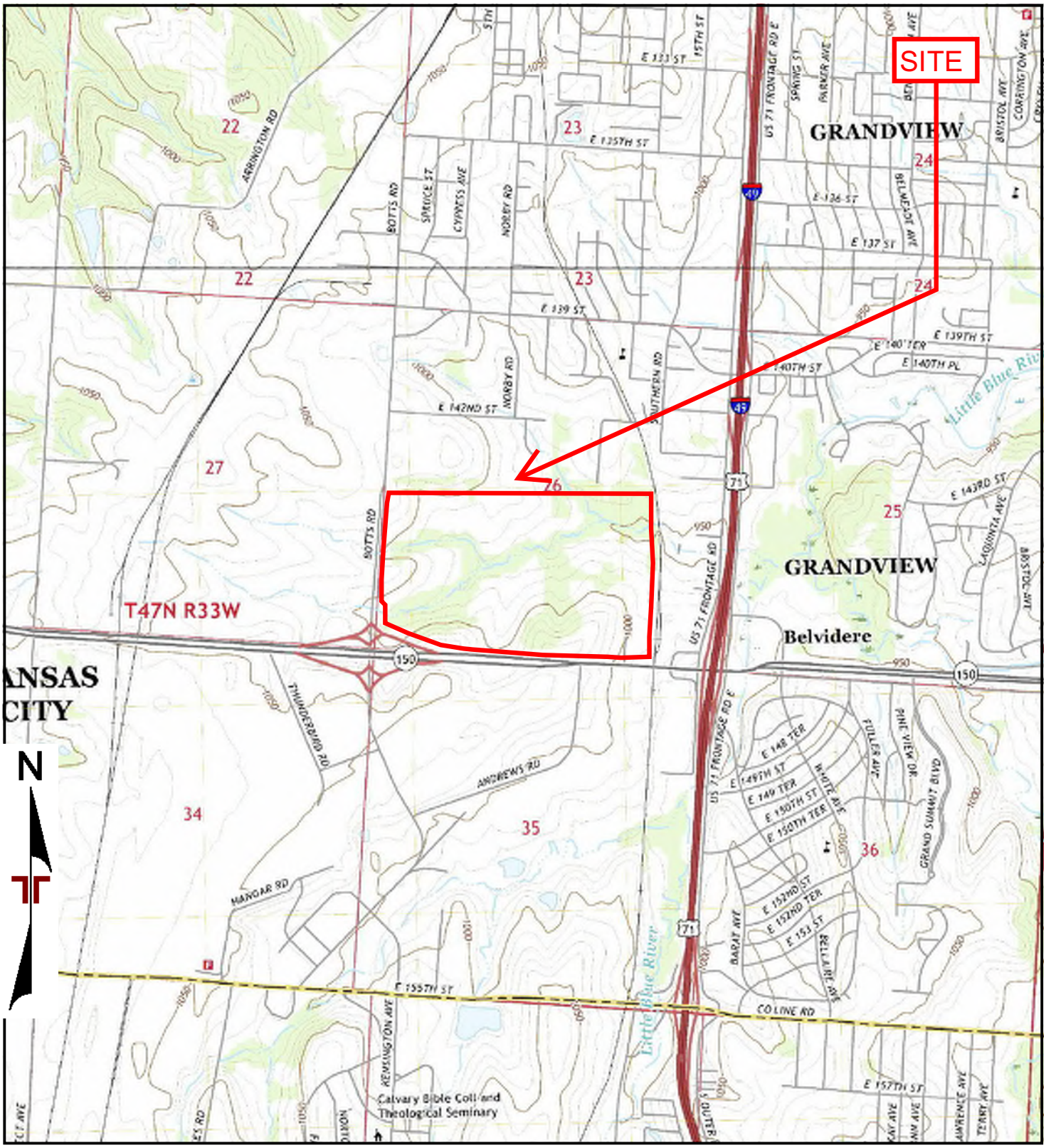
Topo Sheet Key

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

1887 Source Sheets



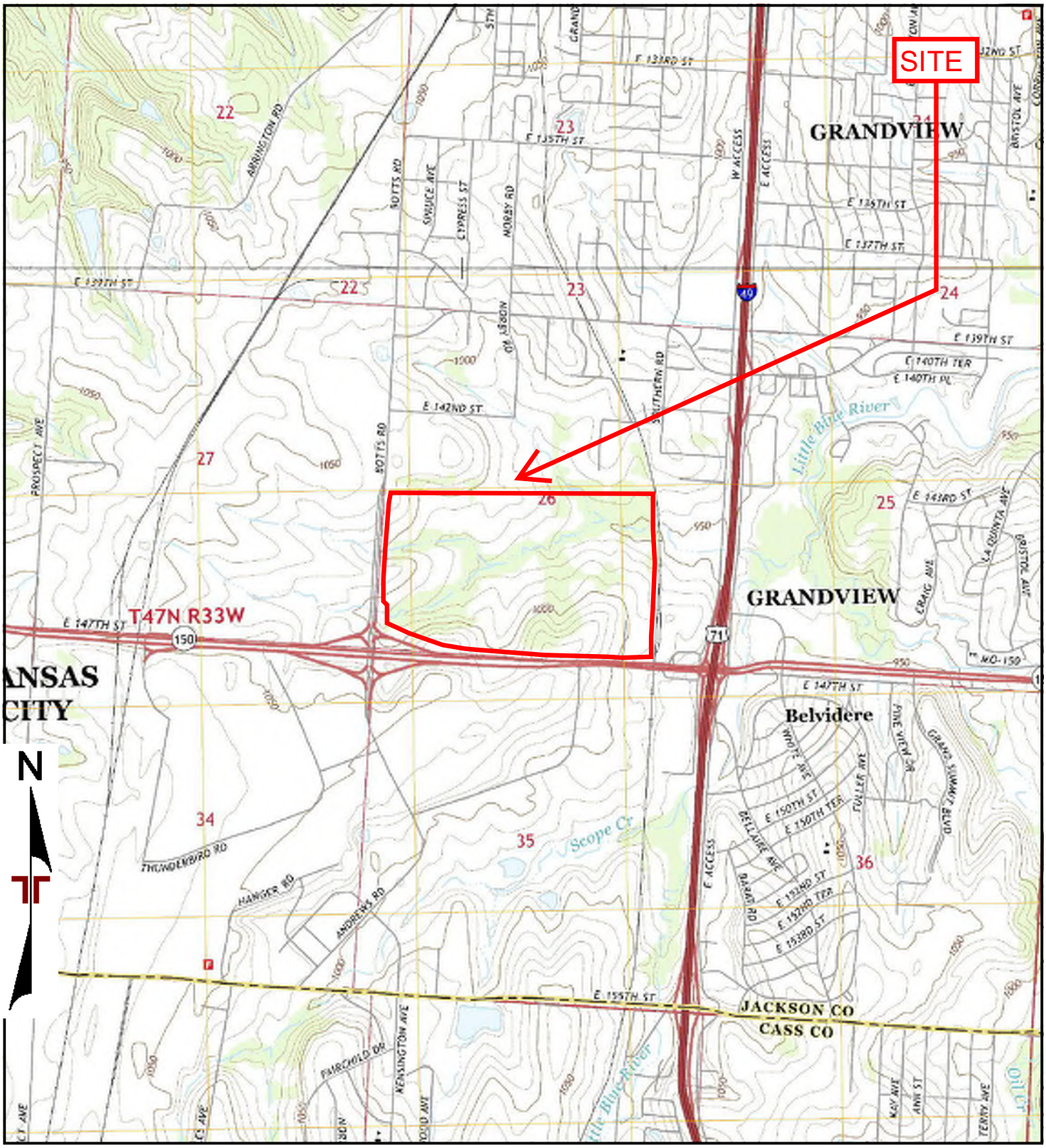
Olathe
1887
30-minute, 125000



TP, Belton, 2017, 7.5-minute
N, Grandview, 2017, 7.5-minute

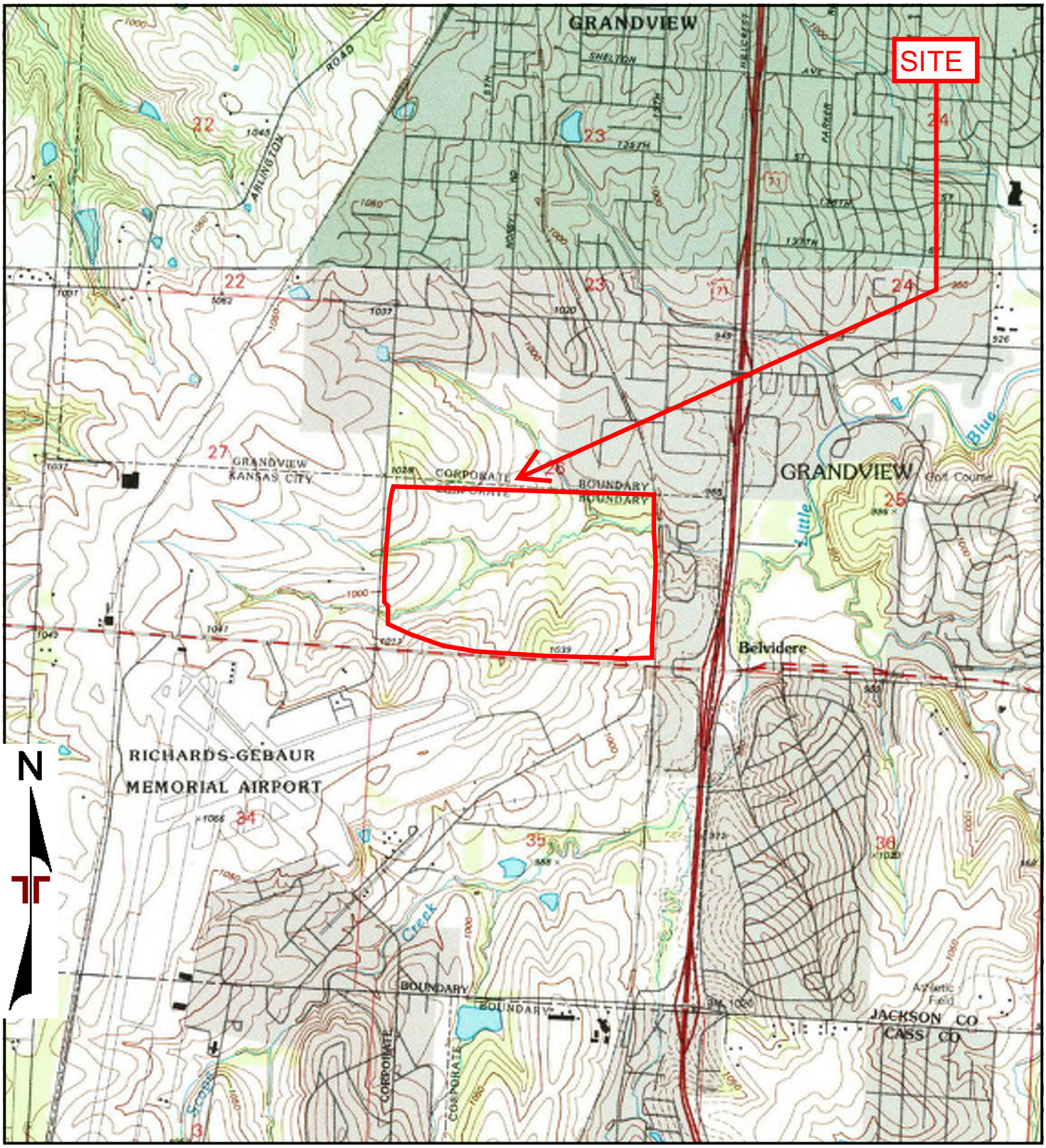
0 Miles 0.25 0.5 1 1.5

Project Manager:	Project No. KCNEXT - Botts	Terracon 15620 W. 113th Street Lenexa, KS 66219	2017 TOPOGRAPHIC MAP KCNEXT - Botts Campus 14650 Colorado Grandview, MO 64030	Appendix
Drawn by:	Scale: As Shown			C
Checked by:	File Name:			
Approved by:	Date: 2017			



TP, Belton, 2015, 7.5-minute
N, Grandview, 2015, 7.5-minute

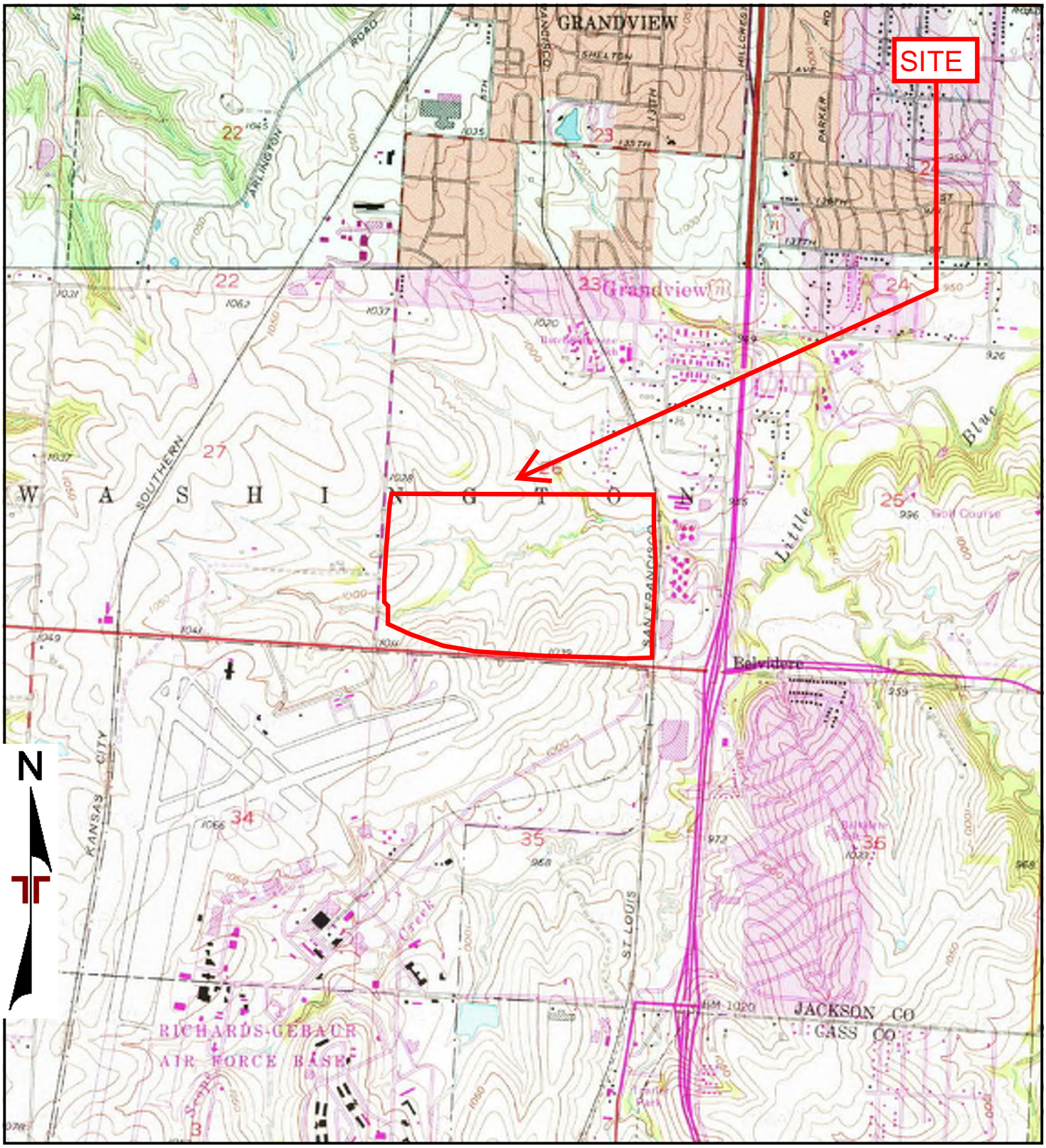
Project Manager:	Project No. KCNEXT - Botts	Terracon 15620 W. 113th Street Lenexa, KS 66219	2015 TOPOGRAPHIC MAP KCNEXT - Botts Campus 14650 Colorado Grandview, MO 64030	Appendix C
Drawn by:	Scale: As Shown			
Checked by:	File Name:			
Approved by:	Date: 2015			



TP, Belton, 1995, 7.5-minute
N, Grandview, 1995, 7.5-minute

0 Miles 0.25 0.5 1 1.5

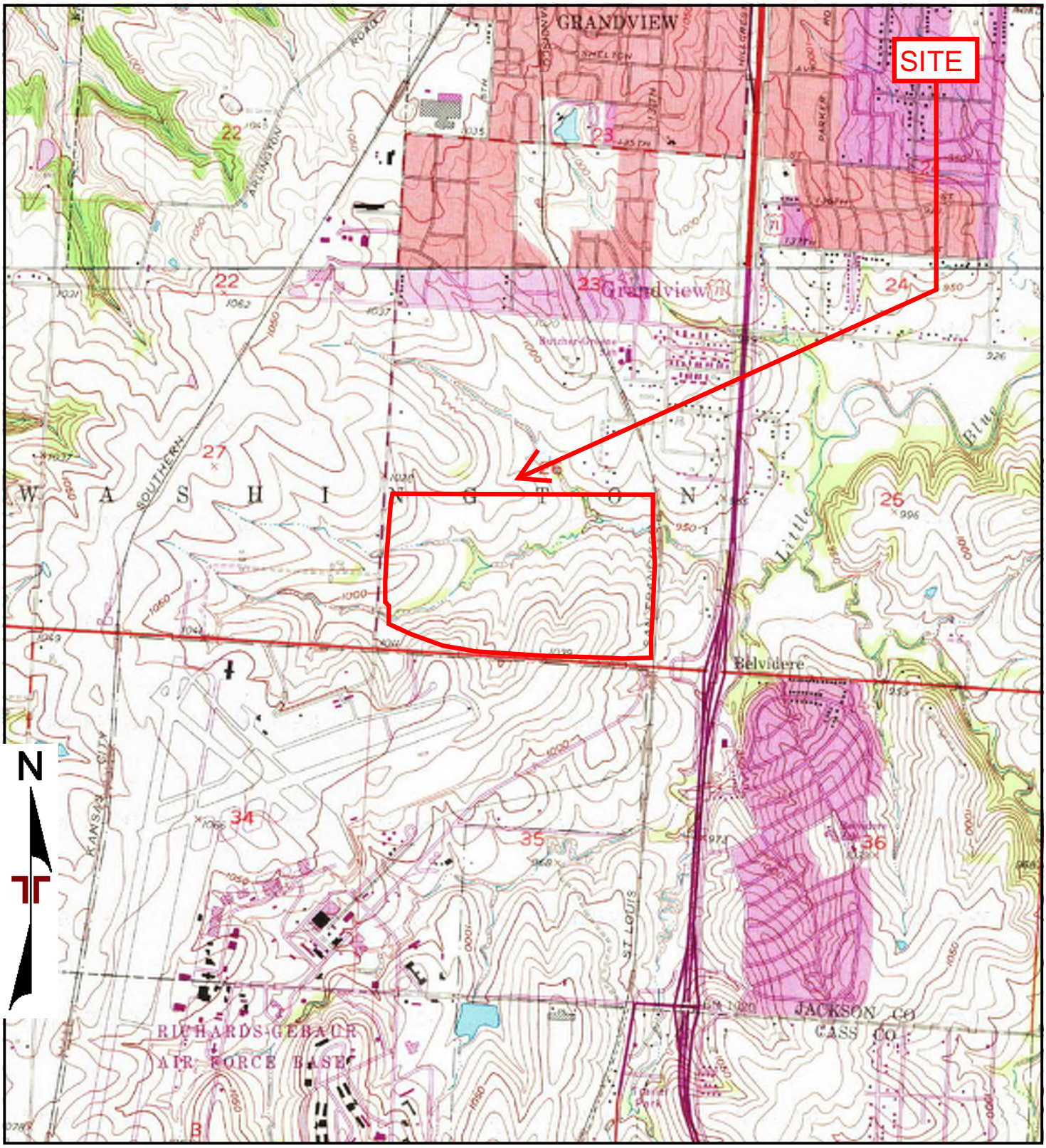
Project Manager:	Project No. KCNEXT - Botts	Terracon 15620 W. 113th Street Lenexa, KS 66219	1995 TOPOGRAPHIC MAP KCNEXT - Botts Campus 14650 Colorado Grandview, MO 64030	Appendix
Drawn by:	Scale: As Shown			C
Checked by:	File Name:			
Approved by:	Date: 1995			



TP, Belton, 1975, 7.5-minute
N, Grandview, 1975, 7.5-minute

0 Miles 0.25 0.5 1 1.5

Project Manager:	Project No. KCNEXT - Botts	Terracon 15620 W. 113th Street Lenexa, KS 66219	1975 TOPOGRAPHIC MAP KCNEXT - Botts Campus 14650 Colorado Grandview, MO 64030	Appendix
Drawn by:	Scale: As Shown			C
Checked by:	File Name:			
Approved by:	Date: 1975			

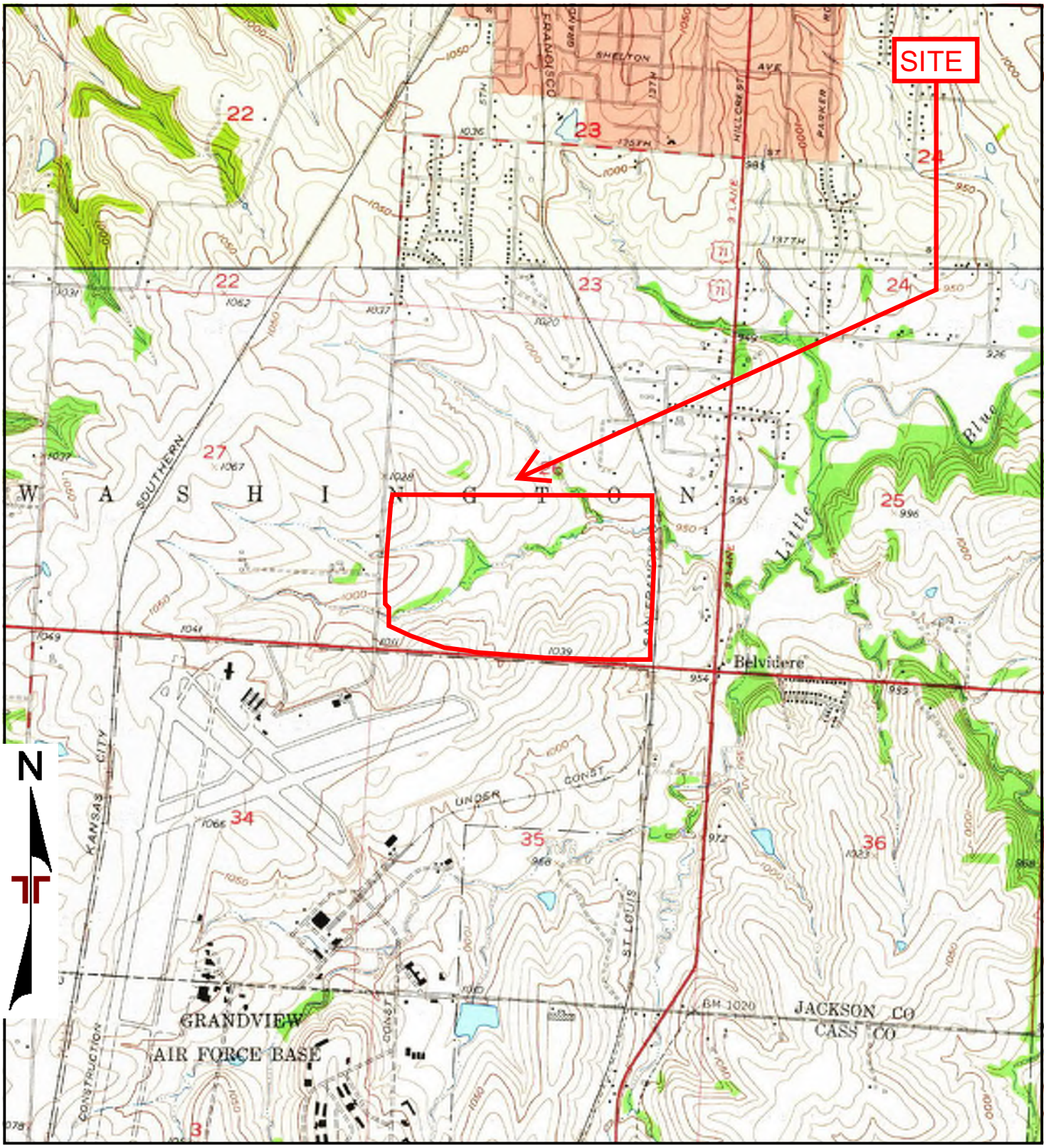


TP, Belton, 1970, 7.5-minute
N, Grandview, 1970, 7.5-minute

0 Miles 0.25 0.5 1 1.5

Project Manager:	Project No. KCNEXT - Botts	Terracon 15620 W. 113th Street Lenexa, KS 66219	1970 TOPOGRAPHIC MAP KCNEXT - Botts Campus 14650 Colorado Grandview, MO 64030
Drawn by:	Scale: As Shown		
Checked by:	File Name:		
Approved by:	Date: 1970		

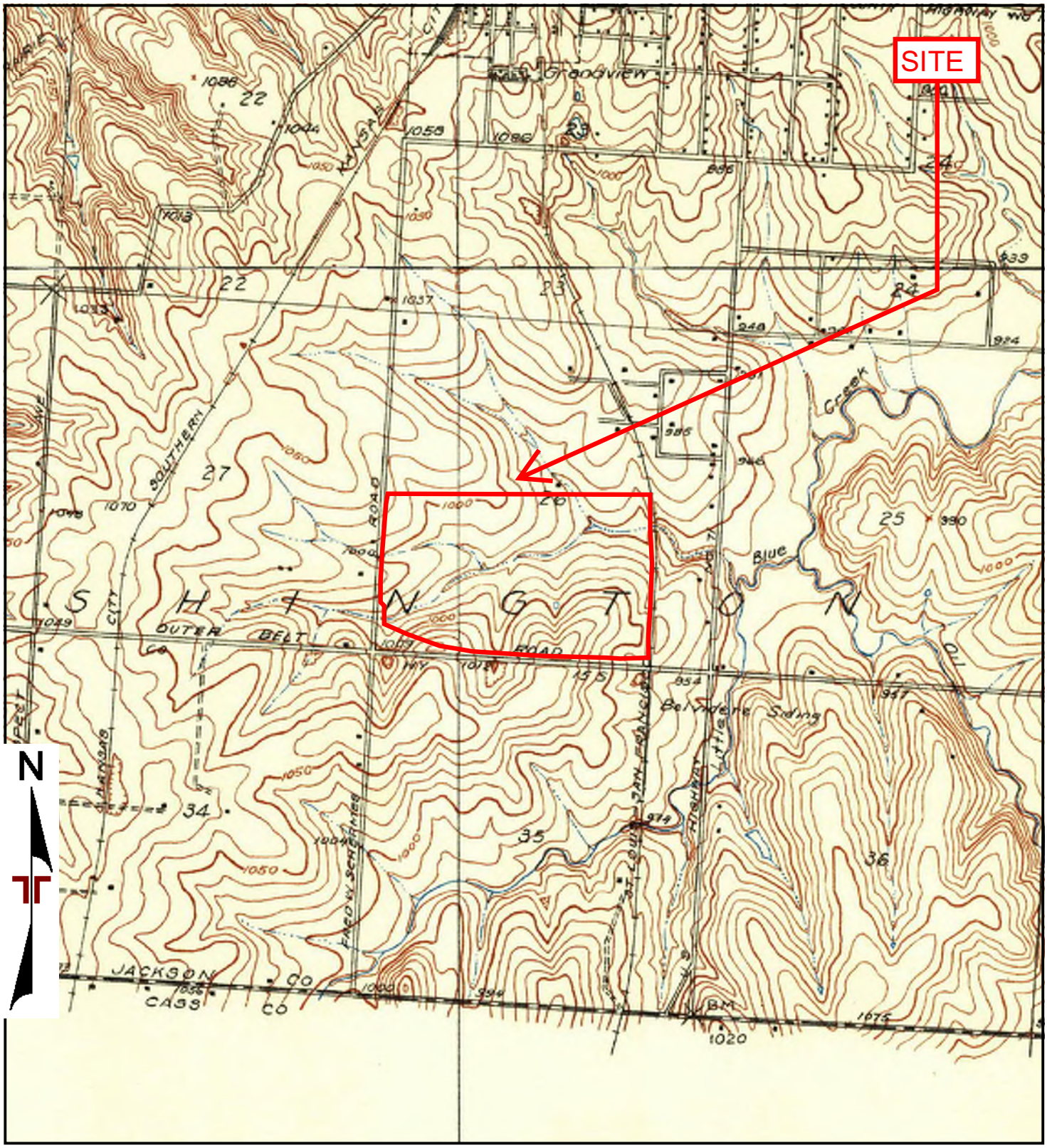
Appendix C



TP, Belton, 1953, 7.5-minute
N, Grandview, 1957, 7.5-minute

0 Miles 0.25 0.5 1 1.5

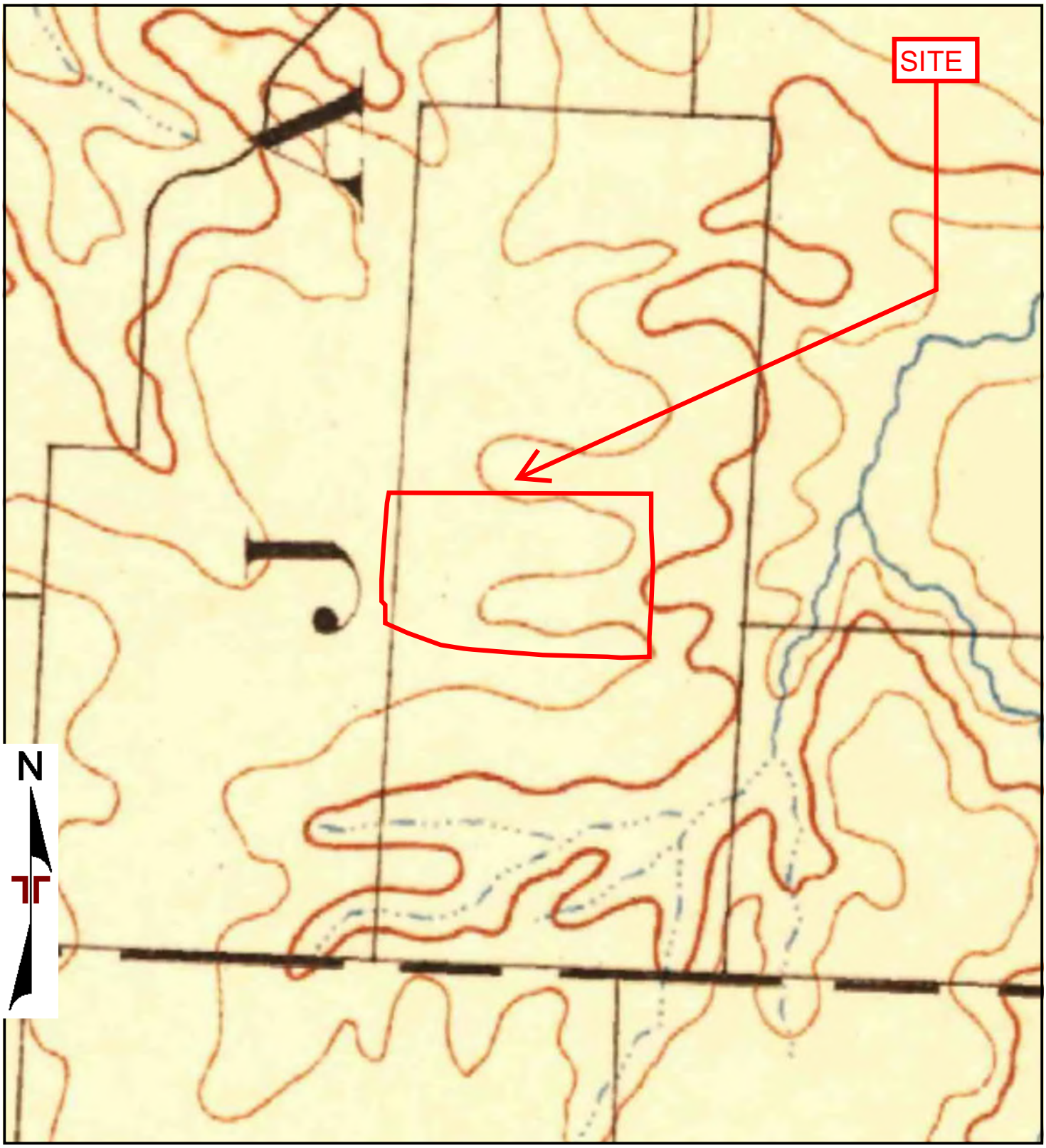
Project Manager:	Project No. KCNEXT - Botts	Terracon 15620 W. 113th Street Lenexa, KS 66219	1953, 1957 TOPOGRAPHIC MAP KCNEXT - Botts Campus 14650 Colorado Grandview, MO 64030	Appendix
Drawn by:	Scale: As Shown			C
Checked by:	File Name:			
Approved by:	Date: 1953, 1957			



TP, Belton, 1934, 7.5-minute
N, Grandview, 1934, 7.5-minute

0 Miles 0.25 0.5 1 1.5

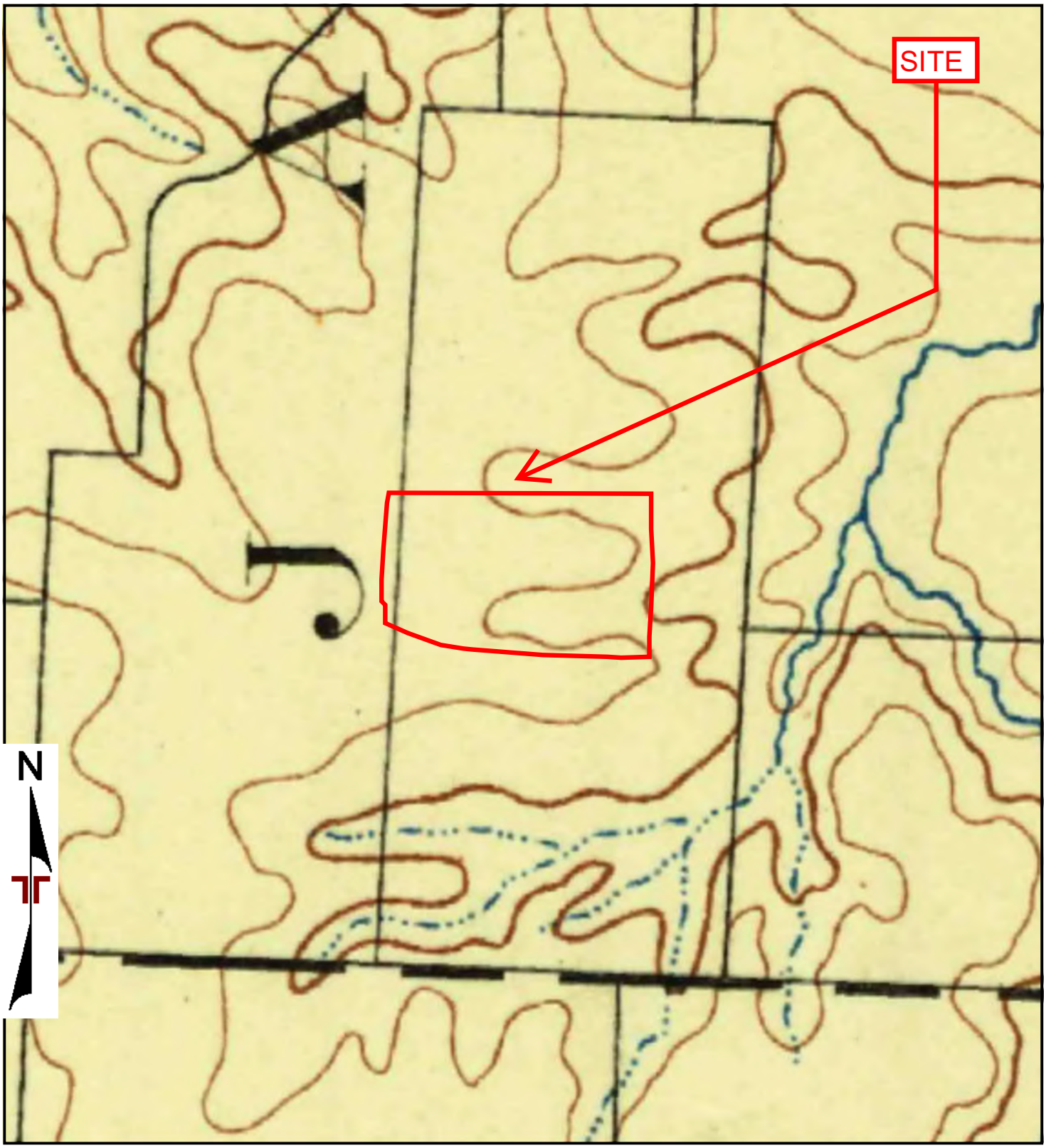
Project Manager:	Project No. KCNEXT - Botts	Terracon 15620 W. 113th Street Lenexa, KS 66219	1934 TOPOGRAPHIC MAP KCNEXT - Botts Campus 14650 Colorado Grandview, MO 64030
Drawn by:	Scale: As Shown		Appendix C
Checked by:	File Name:		
Approved by:	Date: 1934		



TP, Olathe, 1893, 30-minute

0 Miles 0.25 0.5 1 1.5

Project Manager:	Project No. KCNEXT - Botts	Terracon 15620 W. 113th Street Lenexa, KS 66219	1893 TOPOGRAPHIC MAP KCNEXT - Botts Campus 14650 Colorado Grandview, MO 64030	Appendix
Drawn by:	Scale: As Shown			C
Checked by:	File Name:			
Approved by:	Date: 1893			



TP, Olathe, 1887, 30-minute

0 Miles 0.25 0.5 1 1.5

Project Manager:	Project No. KCNEXT - Botts	Terracon 15620 W. 113th Street Lenexa, KS 66219	1887 TOPOGRAPHIC MAP KCNEXT - Botts Campus 14650 Colorado Grandview, MO 64030	Appendix
Drawn by:	Scale: As Shown			C
Checked by:	File Name:			
Approved by:	Date: 1887			

KCNEXT - Botts Campus

14650 Colorado

Grandview, MO 64030

Inquiry Number: 7302615.8

April 10, 2023

The EDR Aerial Photo Decade Package

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

EDR Aerial Photo Decade Package

04/10/23

Site Name:

KCNEXT - Botts Campus
14650 Colorado
Grandview, MO 64030
EDR Inquiry # 7302615.8

Client Name:

Terracon
15620 W. 113th Street
Lenexa, KS 66219
Contact: Melissa Dowling

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Search Results:

Year	*Scale*	*Details*	*Source*
2020	1"=625'	Flight Year: 2020	USDA/NAIP
2016	1"=625'	Flight Year: 2016	USDA/NAIP
2012	1"=625'	Flight Year: 2012	USDA/NAIP
2009	1"=625'	Flight Year: 2009	USDA/NAIP
2006	1"=625'	Flight Year: 2006	USDA/NAIP
1997	1"=625'	Acquisition Date: January 01, 1997	USGS/DOQQ
1990	1"=625'	Acquisition Date: February 07, 1990	USGS/DOQQ
1985	1"=625'	Flight Date: June 28, 1985	NHAP
1981	1"=625'	Flight Date: November 11, 1981	NHAP
1979	1"=625'	Flight Date: August 07, 1979	USDA
1970	1"=625'	Flight Date: October 02, 1970	USGS
1969	1"=625'	Flight Date: September 30, 1969	USDA
1957	1"=625'	Flight Date: June 10, 1957	USDA
1952	1"=625'	Flight Date: October 23, 1952	USDA
1948	1"=625'	Flight Date: September 11, 1948	USGS
1940	1"=625'	Flight Date: September 25, 1940	USDA
1936	1"=625'	Flight Date: August 21, 1936	USDA

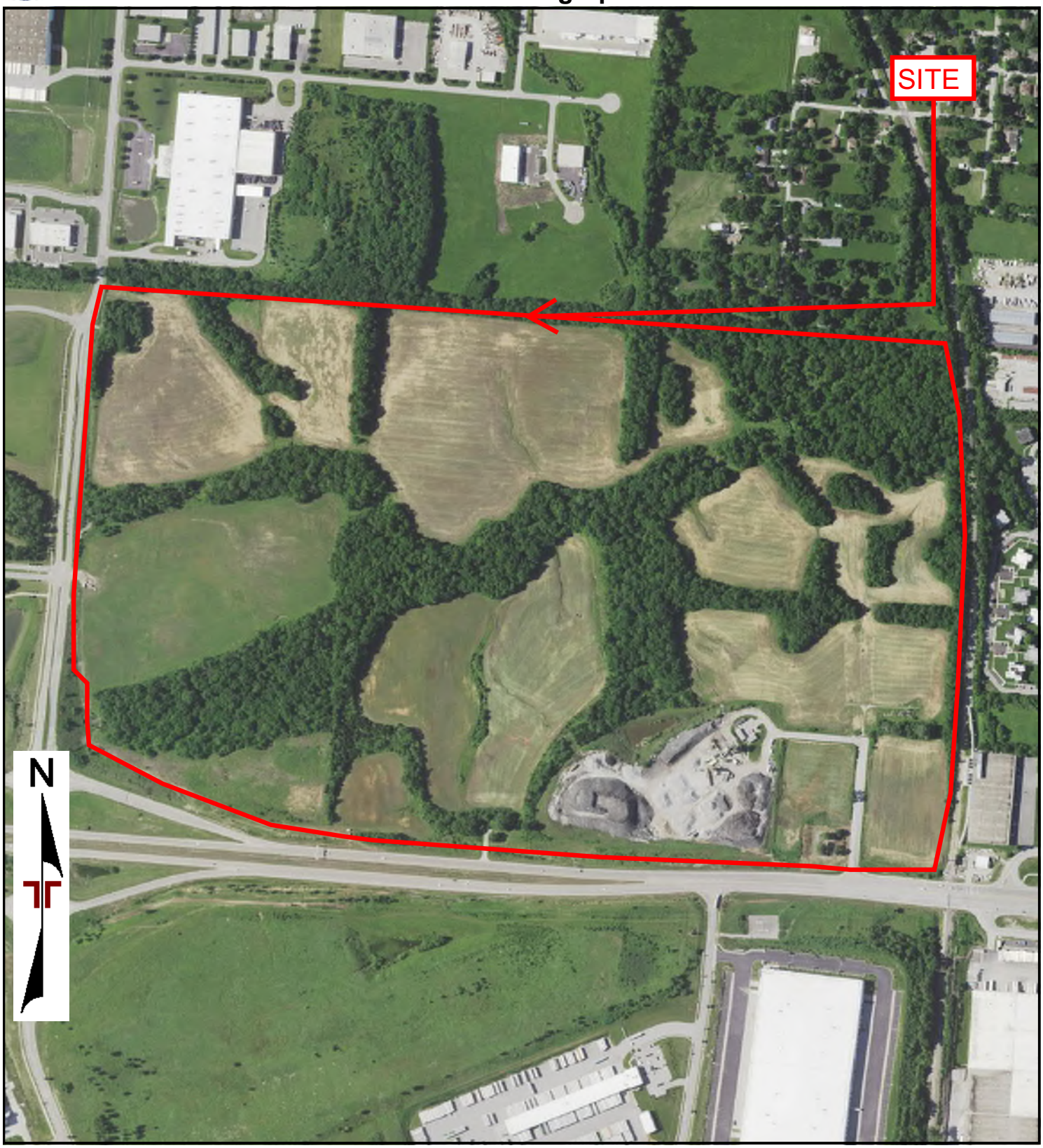
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0 Feet 625 1250 2500

Project Manager:	Project No: KCNEXT - Botts	Terracon 15620 W. 113th Street Lenexa, KS 66219	2020 AERIAL PHOTOGRAPH KCNEXT - Botts Campus 14650 Colorado Grandview, MO 64030	Appendix C
Drawn By:	Scale: As Shown			
Checked By:	File Name:			
Approved By:	Date: 2020			



0 Feet 625 1250 2500

Project Manager:	Project No: KCNEXT - Botts	Terracon 15620 W. 113th Street Lenexa, KS 66219	2016 AERIAL PHOTOGRAPH KCNEXT - Botts Campus 14650 Colorado Grandview, MO 64030	Appendix
Drawn By:	Scale: As Shown			C
Checked By:	File Name:			
Approved By:	Date: 2016			



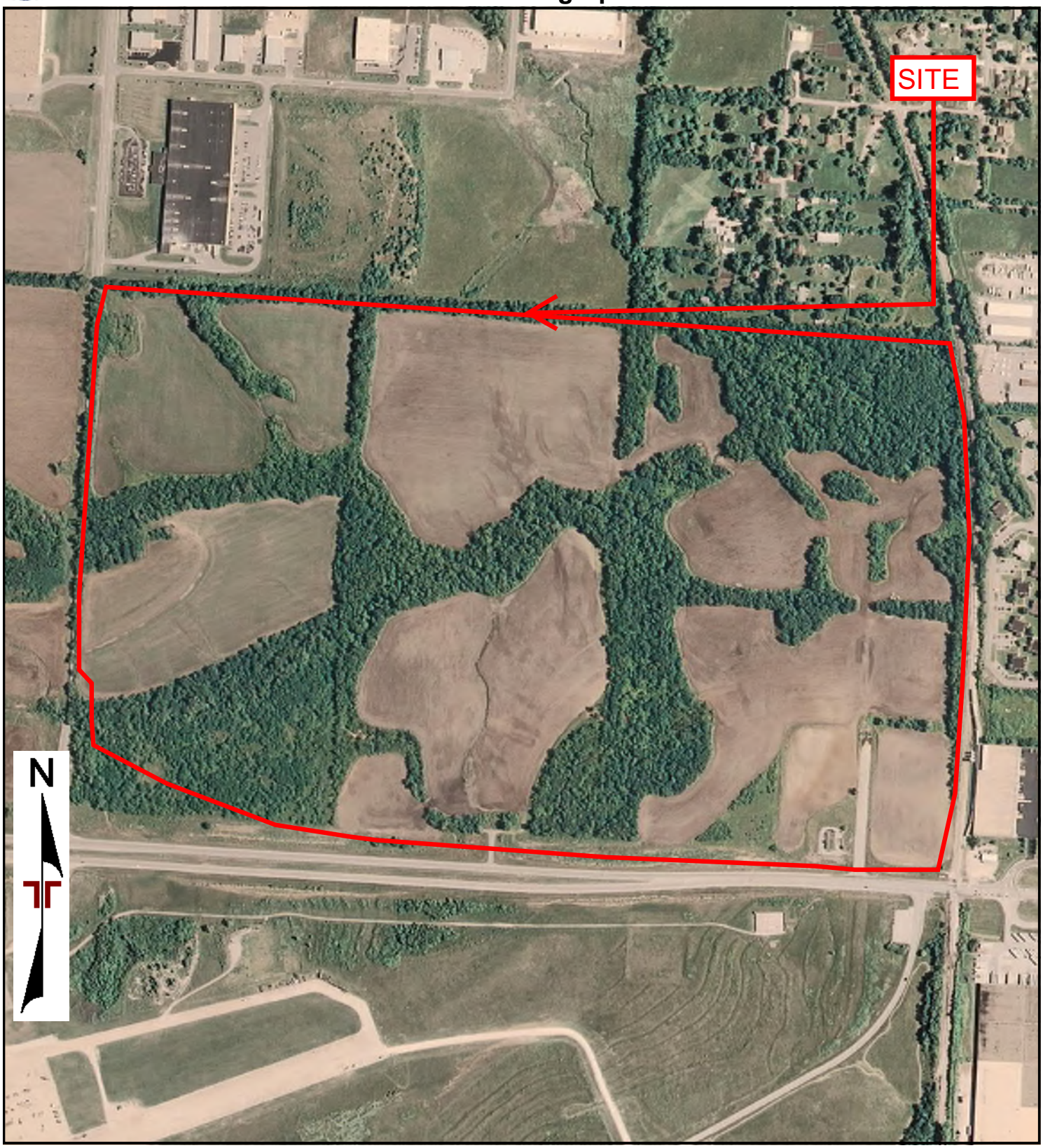
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Project Manager:	Project No: KCNEXT - Botts	Terracon 15620 W. 113th Street Lenexa, KS 66219	2012 AERIAL PHOTOGRAPH KCNEXT - Botts Campus 14650 Colorado Grandview, MO 64030	Appendix C
Drawn By:	Scale: As Shown			
Checked By:	File Name:			
Approved By:	Date: 2012			



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Project Manager:	Project No: KCNEXT - Botts	Terracon 15620 W. 113th Street Lenexa, KS 66219	2009 AERIAL PHOTOGRAPH KCNEXT - Botts Campus 14650 Colorado Grandview, MO 64030	Appendix
Drawn By:	Scale: As Shown			C
Checked By:	File Name:			
Approved By:	Date: 2009			



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Project Manager:	Project No: KCNEXT - Botts	Terracon 15620 W. 113th Street Lenexa, KS 66219	2006 AERIAL PHOTOGRAPH KCNEXT - Botts Campus 14650 Colorado Grandview, MO 64030	Appendix
Drawn By:	Scale: As Shown			C
Checked By:	File Name:			
Approved By:	Date: 2006			



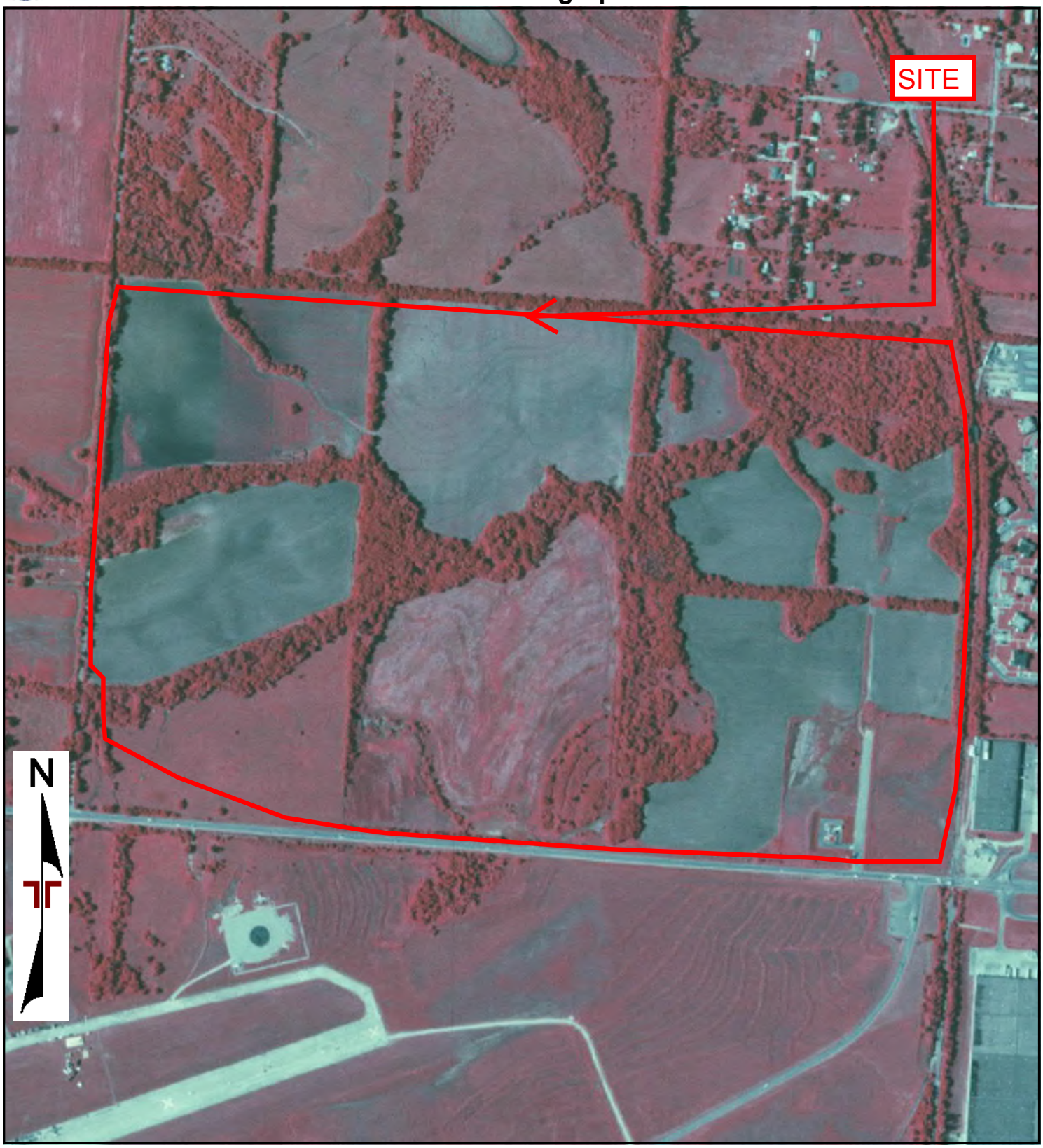
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Project Manager:	Project No: KCNEXT - Botts	terracon 15620 W. 113th Street Lenexa, KS 66219	1997 AERIAL PHOTOGRAPH KCNEXT - Botts Campus 14650 Colorado Grandview, MO 64030	Appendix C
Drawn By:	Scale: As Shown			
Checked By:	File Name:			
Approved By:	Date: 1997			



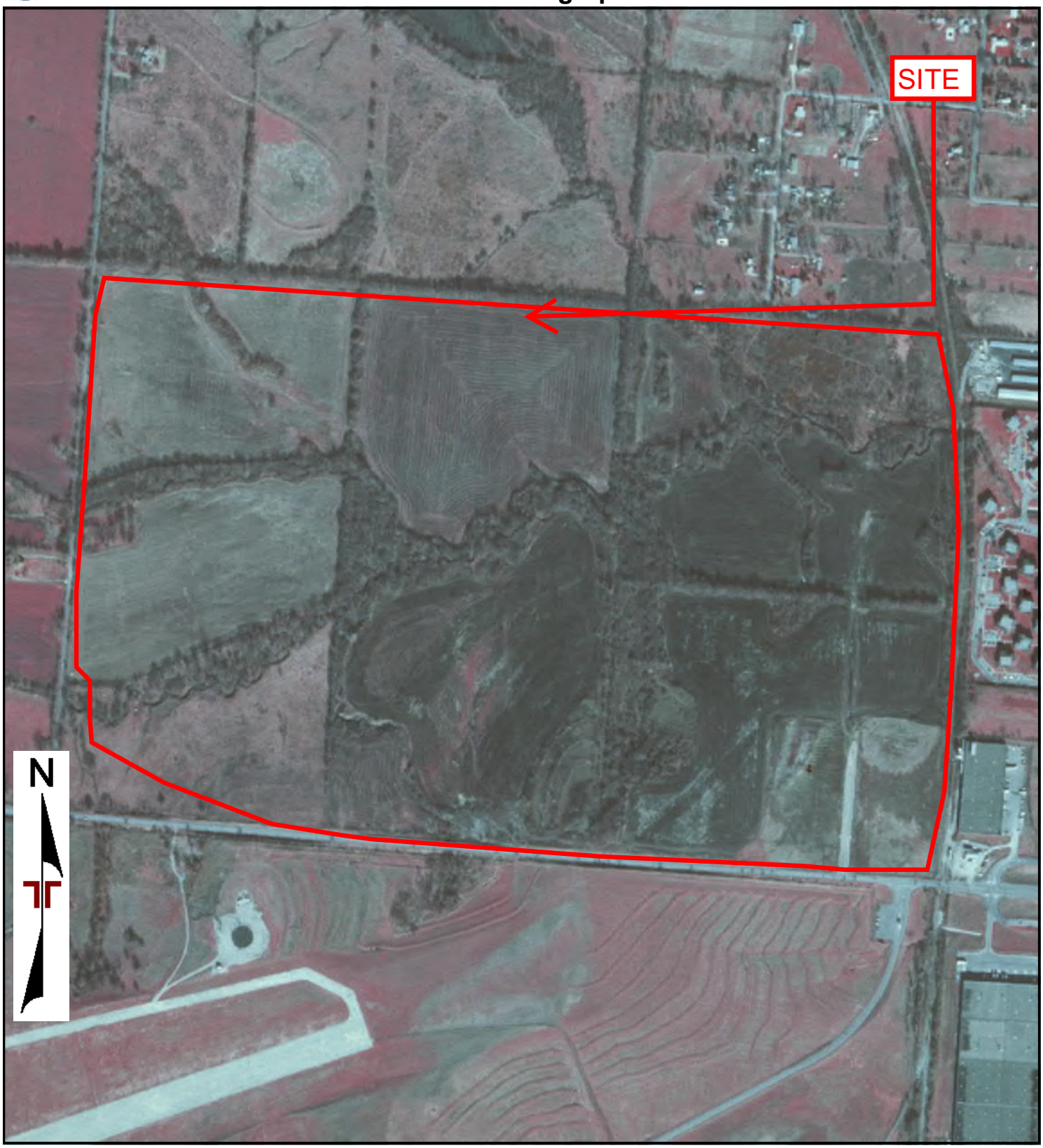
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Project Manager:	Project No: KCNEXT - Botts	Terracon 15620 W. 113th Street Lenexa, KS 66219	1990 AERIAL PHOTOGRAPH KCNEXT - Botts Campus 14650 Colorado Grandview, MO 64030	Appendix
Drawn By:	Scale: As Shown			C
Checked By:	File Name:			
Approved By:	Date: 1990			



0 Feet 625 1250 2500

Project Manager:	Project No: KCNEXT - Botts	Terracon 15620 W. 113th Street Lenexa, KS 66219	1985 AERIAL PHOTOGRAPH KCNEXT - Botts Campus 14650 Colorado Grandview, MO 64030	Appendix
Drawn By:	Scale: As Shown			C
Checked By:	File Name:			
Approved By:	Date: 1985			



0 Feet 625 1250 2500

Project Manager:	Project No: KCNEXT - Botts	Terracon 15620 W. 113th Street Lenexa, KS 66219	1981 AERIAL PHOTOGRAPH KCNEXT - Botts Campus 14650 Colorado Grandview, MO 64030	Appendix
Drawn By:	Scale: As Shown			C
Checked By:	File Name:			
Approved By:	Date: 1981			



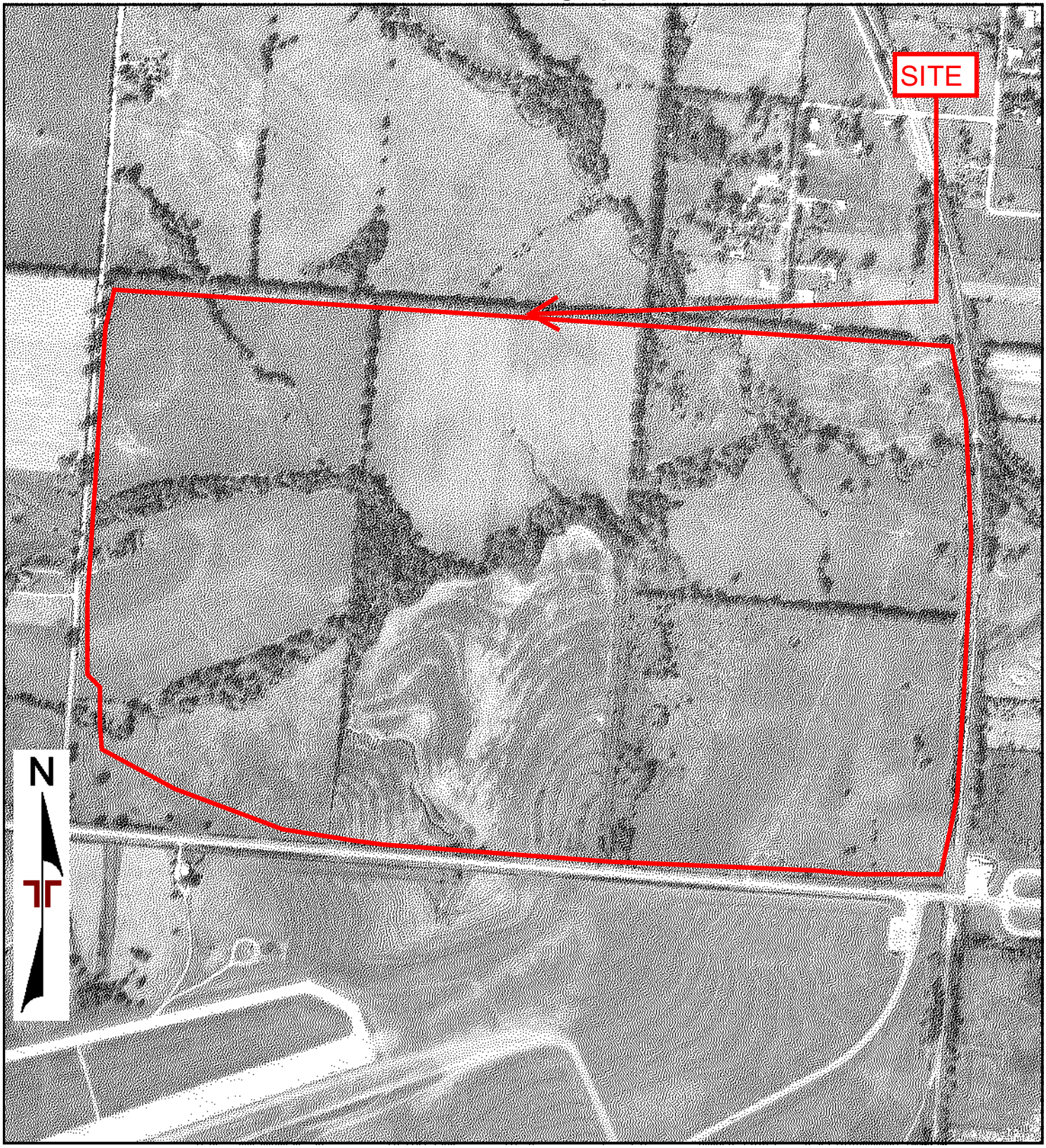
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Project Manager:	Project No: KCNEXT - Botts	Terracon 15620 W. 113th Street Lenexa, KS 66219	1979 AERIAL PHOTOGRAPH KCNEXT - Botts Campus 14650 Colorado Grandview, MO 64030	Appendix
Drawn By:	Scale: As Shown			C
Checked By:	File Name:			
Approved By:	Date: 1979			



0 Feet 625 1250 2500

Project Manager:	Project No: KCNEXT - Botts	terracon 15620 W. 113th Street Lenexa, KS 66219	1970 AERIAL PHOTOGRAPH KCNEXT - Botts Campus 14650 Colorado Grandview, MO 64030	Appendix
Drawn By:	Scale: As Shown			C
Checked By:	File Name:			
Approved By:	Date: 1970			



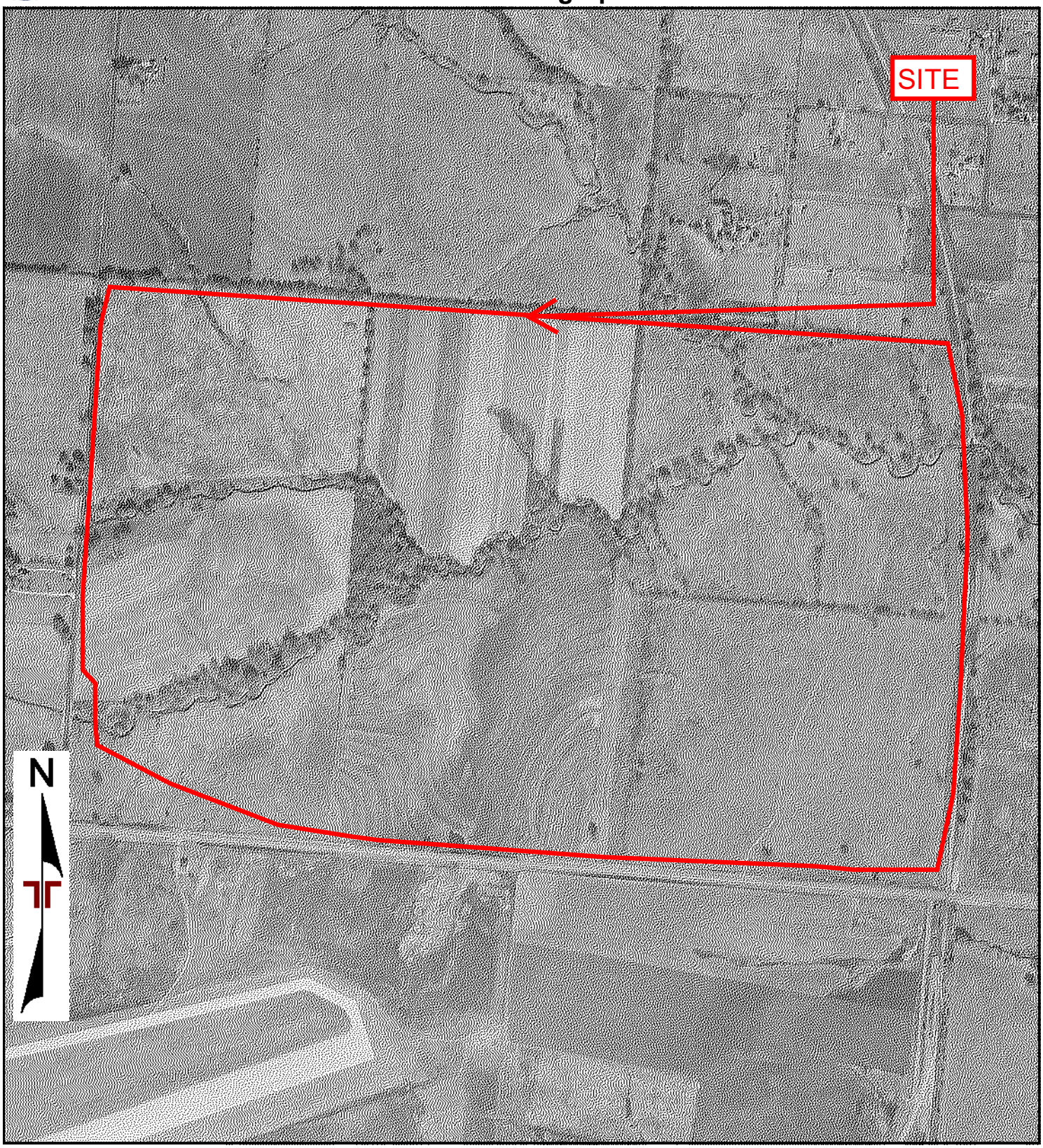
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Project Manager:	Project No: KCNEXT - Botts	terracon 15620 W. 113th Street Lenexa, KS 66219	1969 AERIAL PHOTOGRAPH KCNEXT - Botts Campus 14650 Colorado Grandview, MO 64030	Appendix
Drawn By:	Scale: As Shown			C
Checked By:	File Name:			
Approved By:	Date: 1969			



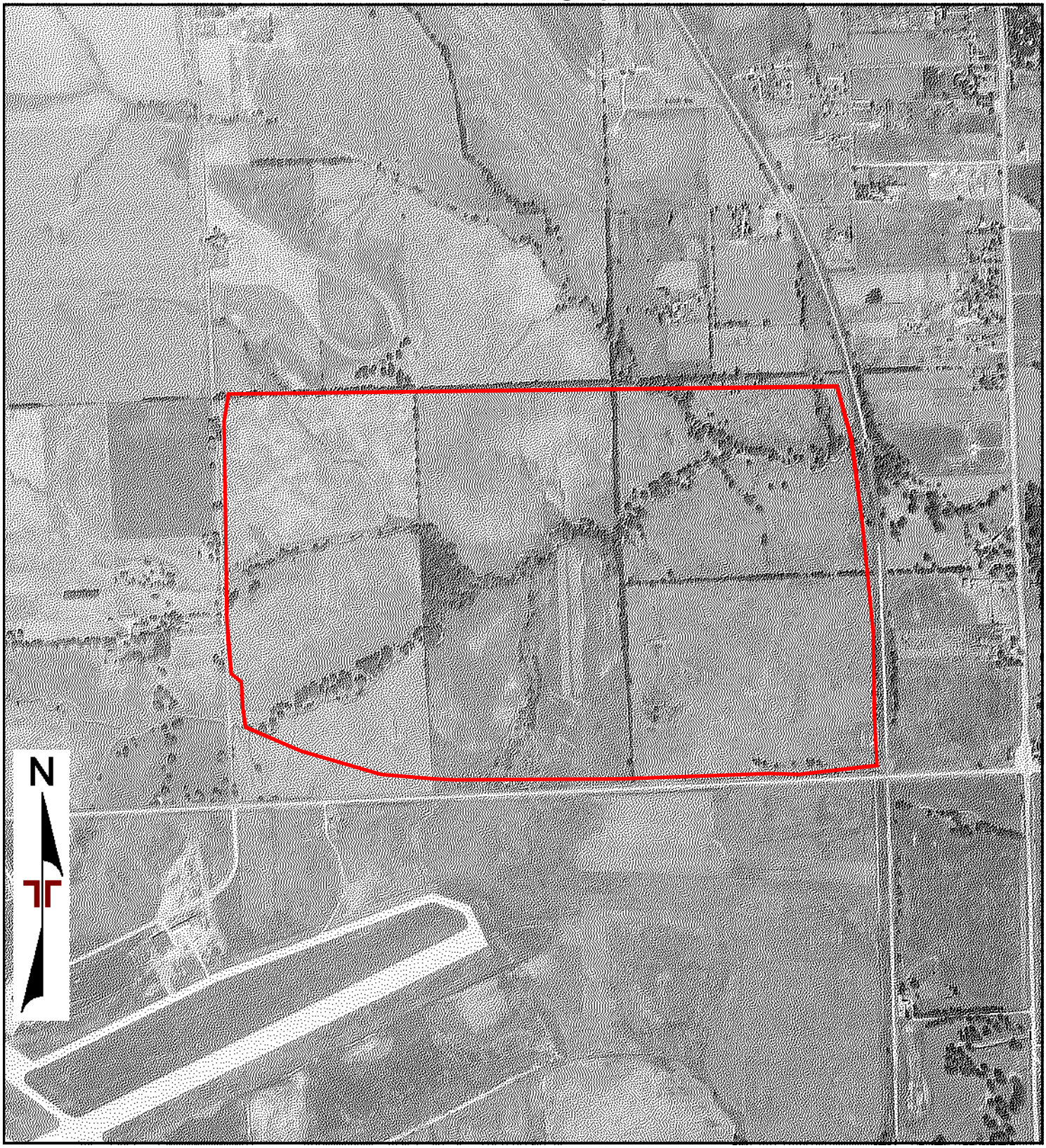
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Project Manager:	Project No: KCNEXT - Botts	Terracon 15620 W. 113th Street Lenexa, KS 66219	1957 AERIAL PHOTOGRAPH KCNEXT - Botts Campus 14650 Colorado Grandview, MO 64030	Appendix C
Drawn By:	Scale: As Shown			
Checked By:	File Name:			
Approved By:	Date: 1957			



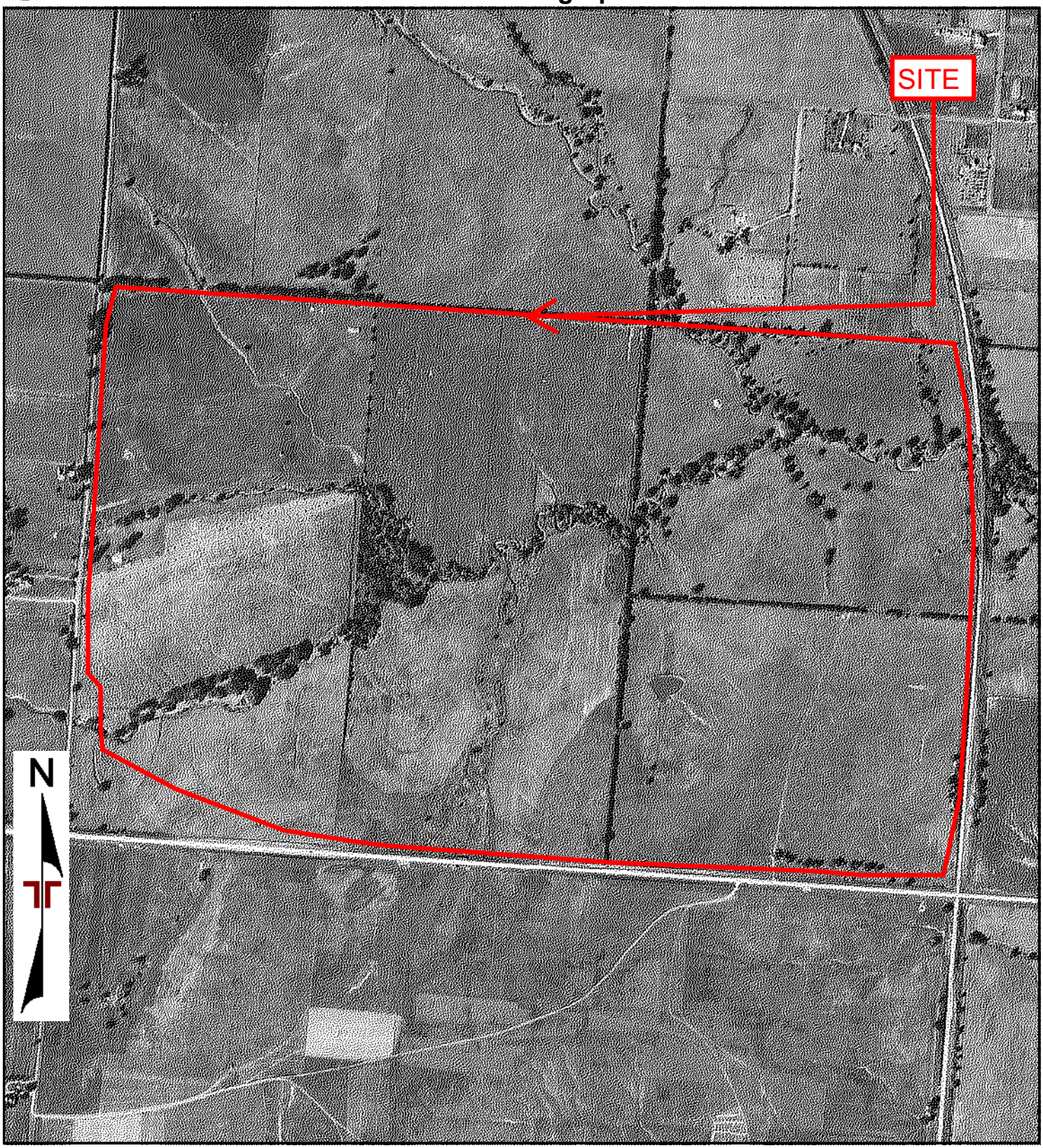
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Project Manager:	Project No: KCNEXT - Botts	Terracon 15620 W. 113th Street Lenexa, KS 66219	1952 AERIAL PHOTOGRAPH KCNEXT - Botts Campus 14650 Colorado Grandview, MO 64030	Appendix
Drawn By:	Scale: As Shown			C
Checked By:	File Name:			
Approved By:	Date: 1952			



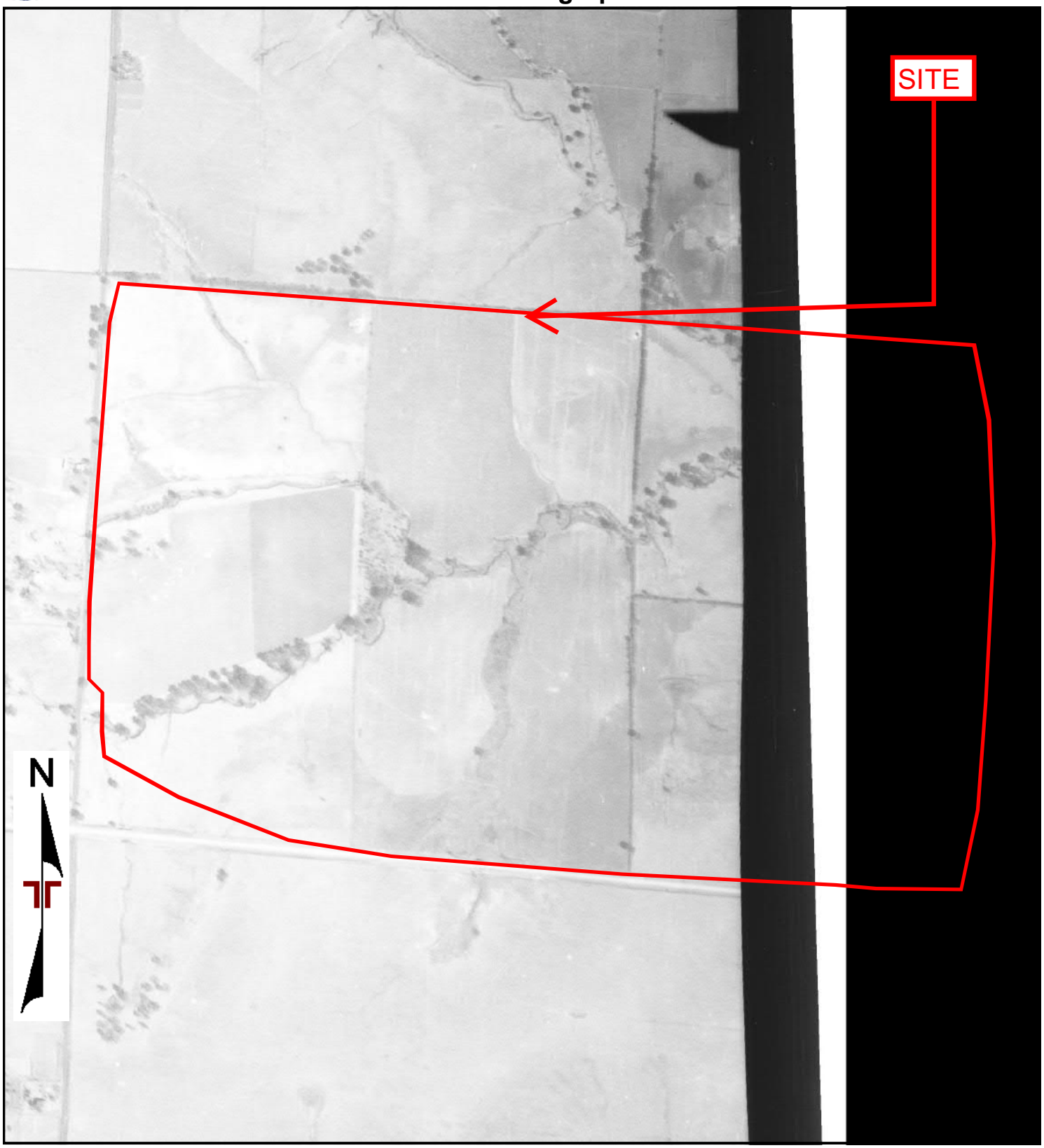
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Project Manager:	Project No: KCNEXT - Botts	Terracon 15620 W. 113th Street Lenexa, KS 66219	1948 AERIAL PHOTOGRAPH KCNEXT - Botts Campus 14650 Colorado Grandview, MO 64030	Appendix C
Drawn By:	Scale: As Shown			
Checked By:	File Name:			
Approved By:	Date: 1948			



0 Feet 625 1250 2500

Project Manager:	Project No: KCNEXT - Botts	terracon 15620 W. 113th Street Lenexa, KS 66219	1940 AERIAL PHOTOGRAPH KCNEXT - Botts Campus 14650 Colorado Grandview, MO 64030	Appendix C
Drawn By:	Scale: As Shown			
Checked By:	File Name:			
Approved By:	Date: 1940			



0 Feet 625 1250 2500

Project Manager:	Project No: KCNEXT - Botts	Terracon 15620 W. 113th Street Lenexa, KS 66219	1936 AERIAL PHOTOGRAPH KCNEXT - Botts Campus 14650 Colorado Grandview, MO 64030	Appendix
Drawn By:	Scale: As Shown			C
Checked By:	File Name:			
Approved By:	Date: 1936			

KCNEXT - Botts Campus
14650 Colorado
Grandview, MO 64030

Inquiry Number: 7302615.3
April 07, 2023

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04/07/23

Site Name:	Client Name:
KCNEXT - Botts Campus	Terracon
14650 Colorado	15620 W. 113th Street
Grandview, MO 64030	Lenexa, KS 66219
EDR Inquiry # 7302615.3	Contact: Melissa Dowling

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Certification # DD00-43A9-B34A

PO # 02237055

Project KCNEXT - Botts Campus

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APPENDIX D

ENVIRONMENTAL DATABASE INFORMATION

KCNEXT - Botts Campus
14650 Colorado
Grandview, MO 64030

Inquiry Number: 7303209.1s
April 10, 2023

The EDR Radius Map™ Report with GeoCheck®

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

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GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
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Thank you for your business.
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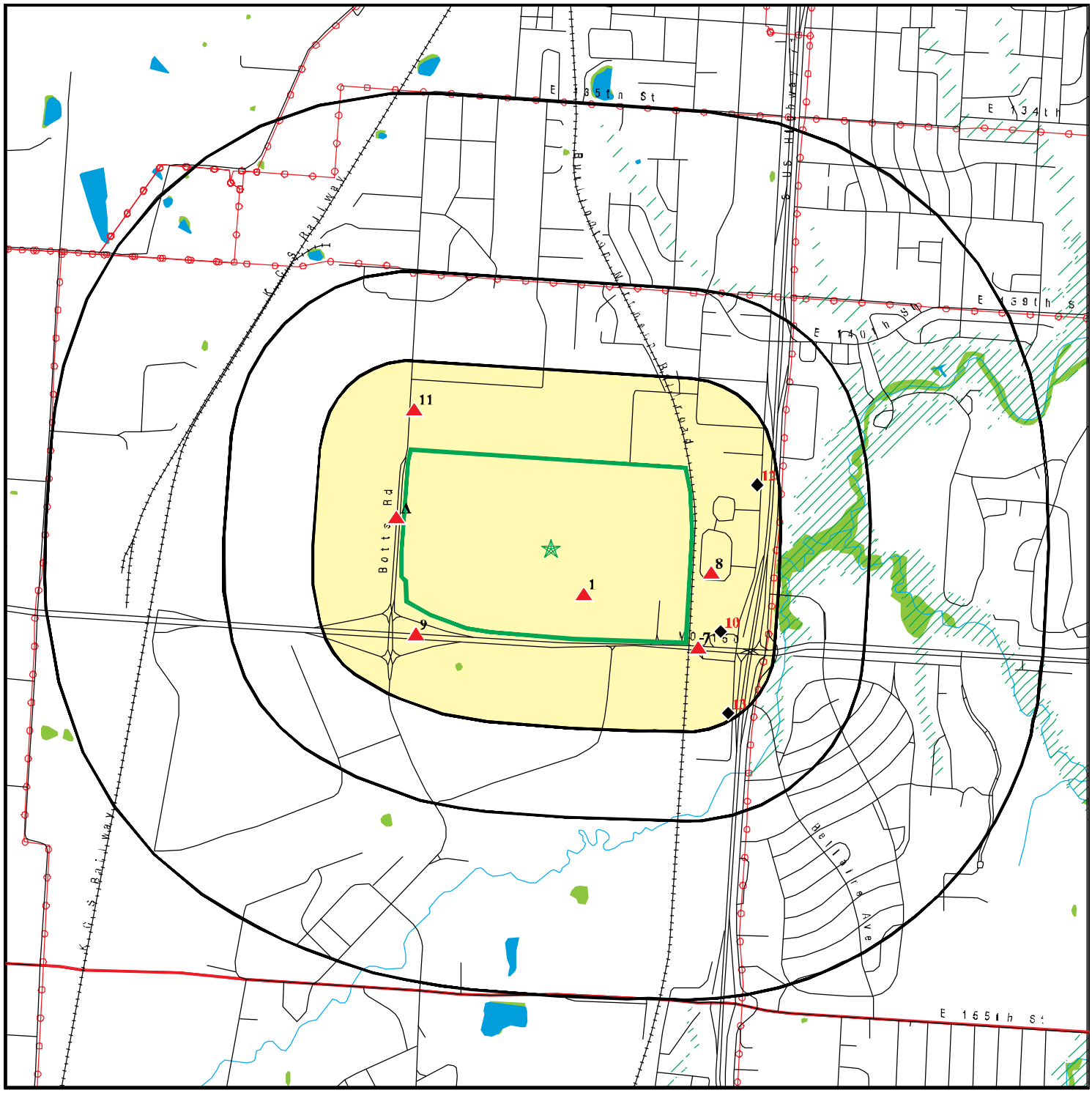
MAPPED SITES SUMMARY

Target Property Address:
14650 COLORADO
GRANDVIEW, MO 64030

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
1	GRANDVIEW RADIO BEA		FUDS	Higher	1 ft.
A2	USDOE KANSAS CITY NA	14500 BOTTS RD	RCRA-LQG, FINDS, ECHO	Higher	8, 0.002, West
A3	USDOE KANSAS CITY NA		PFAS ECHO	Higher	8, 0.002, West
A4	USDOE KC NATIONAL SE	14520 BOTTS ROAD	FINDS, ECHO, PFAS ECHO	Higher	119, 0.023, WNW
A5	US DOE NATIONAL NUCL		PFAS ECHO	Higher	119, 0.023, WNW
A6	U.S. DOE'S KANSAS CI		PFAS ECHO	Higher	119, 0.023, WNW
7	FRONTIER BAG INC	5720 E HWY 150	RCRA-SQG, US AIRS	Higher	190, 0.036, ESE
8	FRONTIER BAG INCORPO		PFAS ECHO	Higher	315, 0.060, East
9	RICHARDS GEBAUR AIR	HWY 150 & US 71 HWY	SEMS, ROD	Higher	352, 0.067, WSW
10	HOLISTIC INDUSTRIES	14600 S HWY 71	RCRA-SQG	Lower	502, 0.095, ESE
11	SIKA CORPORATION	14201 BOTTS RD	RCRA-SQG, FINDS, ECHO	Higher	601, 0.114, NW
12	PAYLESS CASHWAYS INC	14330 S 71 HWY	RCRA NonGen / NLR, FINDS, ECHO	Lower	993, 0.188, ENE
13	TRUE VALUE COMPANY	14900 S HWY 71	RCRA-SQG, LUST, UST, SPILLS	Lower	1212, 0.230, SE

OVERVIEW MAP - 7303209.1S



0 1/4 1/2 1 Miles

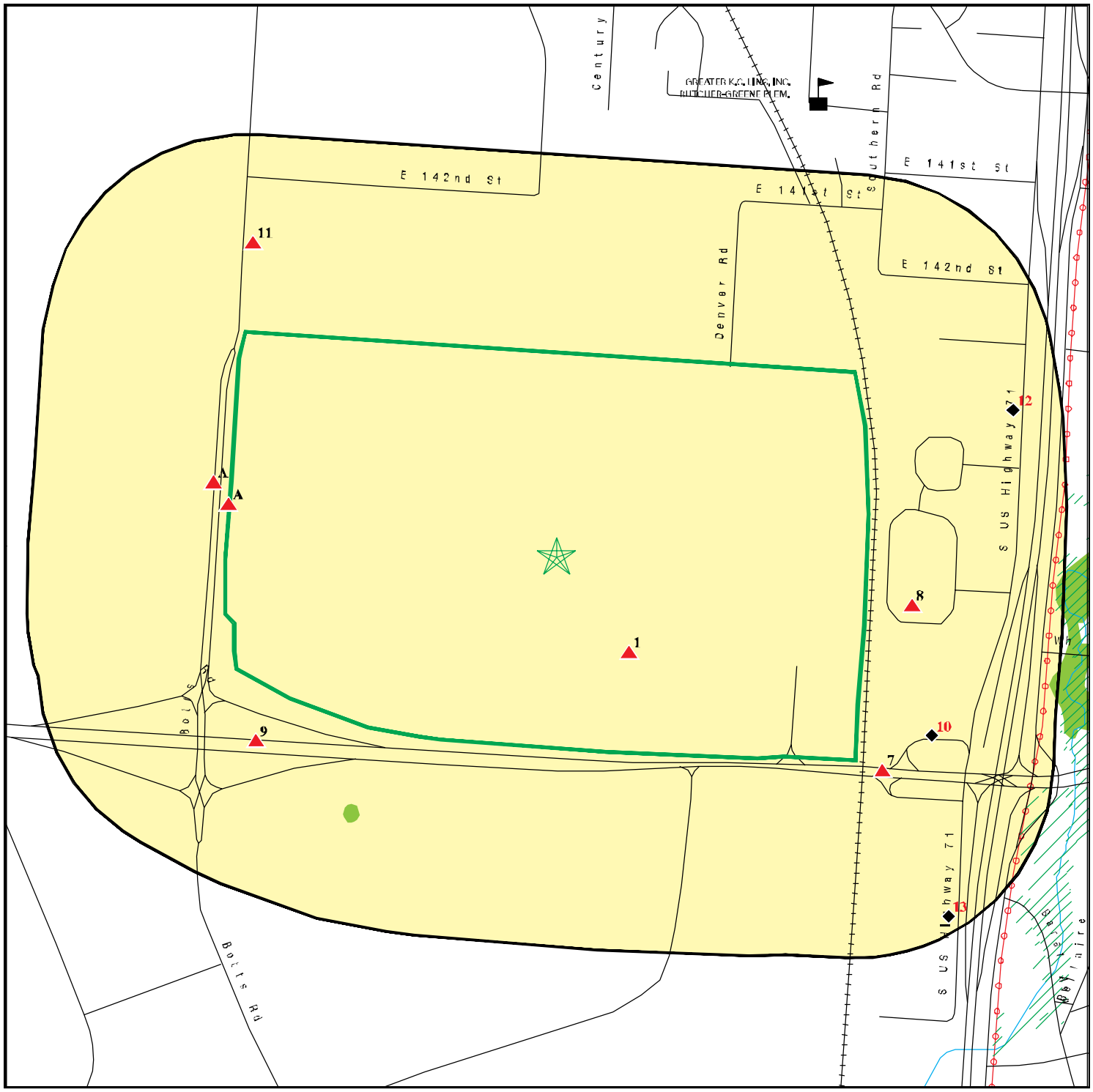
- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- County Boundary
- Power transmission lines
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- National Wetland Inventory
- State Wetlands

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: KCNEXT - Botts Campus	CLIENT: Terracon
ADDRESS: 14650 Colorado Grandview MO 64030	CONTACT: Melissa Dowling INQUIRY #: 7303209.1s
LAT/LONG: 38.862054 / 94.538364	DATE: April 10, 2023 9:17 am

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DETAIL MAP - 7303209.1S



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

0 1/8 1/4 1/2 Miles

Indian Reservations BIA

Power transmission lines

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

State Wetlands

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: KCNEXT - Botts Campus	CLIENT: Terracon
ADDRESS: 14650 Colorado Grandview MO 64030	CONTACT: Melissa Dowling INQUIRY #: 7303209.1s
LAT/LONG: 38.862054 / 94.538364	DATE: April 10, 2023 9:19 am

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Lists of Federal NPL (Superfund) sites								
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
Lists of Federal Delisted NPL sites								
Delisted NPL	1.000		0	0	0	0	NR	0
Lists of Federal sites subject to CERCLA removals and CERCLA orders								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		1	0	0	NR	NR	1
Lists of Federal CERCLA sites with NFRAP								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA facilities undergoing Corrective Action								
CORRACTS	1.000		0	0	0	0	NR	0
Lists of Federal RCRA TSD facilities								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA generators								
RCRA-LQG	0.250		1	0	NR	NR	NR	1
RCRA-SQG	0.250		3	1	NR	NR	NR	4
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
Lists of state- and tribal hazardous waste facilities								
SHWS	1.000		0	0	0	0	NR	0
Lists of state and tribal landfills and solid waste disposal facilities								
SWF/LF	0.500		0	0	0	NR	NR	0
Lists of state and tribal leaking storage tanks								
LUST	0.500		0	1	0	NR	NR	1

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LAST	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
Lists of state and tribal registered storage tanks								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	1	NR	NR	NR	1
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
TANKS	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
AUL	0.500		0	0	0	NR	NR	0
Lists of state and tribal voluntary cleanup sites								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
Lists of state and tribal brownfield sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
SWRCY	0.500		0	0	0	NR	NR	0
HIST LF	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
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
DEL SHWS	1.000		0	0	0	0	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
SPILLS	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	1	NR	NR	NR	1

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FUDS	1.000		1	0	0	0	NR	1
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		1	0	0	0	NR	1
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
PFAS NPL	0.250		0	0	NR	NR	NR	0
PFAS FEDERAL SITES	0.250		0	0	NR	NR	NR	0
PFAS TSCA	0.250		0	0	NR	NR	NR	0
PFAS RCRA MANIFEST	0.250		0	0	NR	NR	NR	0
PFAS ATSDR	0.250		0	0	NR	NR	NR	0
PFAS WQP	0.250		0	0	NR	NR	NR	0
PFAS NPDES	0.250		0	0	NR	NR	NR	0
PFAS ECHO	0.250		5	0	NR	NR	NR	5
PFAS ECHO FIRE TRAINING	0.250		0	0	NR	NR	NR	0
PFAS PART 139 AIRPORT	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM NRC	0.250		0	0	NR	NR	NR	0
PFAS	0.250		0	0	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
ASBESTOS	TP		NR	NR	NR	NR	NR	0
COAL ASH	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
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
MO RRC	TP		NR	NR	NR	NR	NR	0
SMARS	0.500		0	0	0	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
PFAS TRIS	0.250		0	0	NR	NR	NR	0
MINES MRDS	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA HWS	TP		NR	NR	NR	NR	NR	0
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		0	12	4	0	0	0	16

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

1 **GRANDVIEW RADIO BEA AX 2** **FUDS** **1024898657**
N/A

< 1/8 **GRANDVIEW, MO**
1 ft.

FUDS:

Relative: **Higher**

Actual: **1005 ft.**

EPA Region:	07
Installation ID:	MO79799F040800
Congressional District Number:	5
Name:	GRANDVIEW RADIO BEA AX 2
FUDS Number:	B07MO0970
City:	GRANDVIEW
State:	MO
County:	JACKSON
Object ID:	6422
USACE Division:	NWD
USACE District:	Kansas City District (NWK)
Status:	Properties without projects
Current Owner:	LOCAL: CITY KANSAS CITY MISSOURI
EMS Map Link:	https://fudsportal.usace.army.mil/ems/inventory/map?id=58667
Eligibility:	Eligible
Has Projects:	No
Project Required:	No
Feature Description:	The Air Force constructed a navigational radio beacon antenna and support utilities. Later, the antenna was removed and a ceilometer system was installed as weather aid for pilots and controllers.
Latitude:	38.86027778
Longitude:	-94.53666667

A2 **USDOE KANSAS CITY NATIONAL SECURITY CAMPUS** **RCRA-LQG** **1015744571**
West **14500 BOTTS RD** **FINDS** **MOR000545376**
< 1/8 **KANSAS CITY, MO 64147** **ECHO**
0.002 mi.
8 ft. **Site 1 of 5 in cluster A**

Relative: **Higher**

Actual: **991 ft.**

RCRA Listings:

Date Form Received by Agency:	20220210
Handler Name:	Usdoe Kansas City National Security Campus
Handler Address:	14520 BOTTS RD
Handler City,State,Zip:	KANSAS CITY, MO 64147-1302
EPA ID:	MOR000545376
Contact Name:	SYBIL CHANDLER
Contact Address:	14520 BOTTS RD
Contact City,State,Zip:	KANSAS CITY, MO 64147-1302
Contact Telephone:	816-488-3417
Contact Email:	SCHANDLER@KCNSC.DOE.GOV
Contact Title:	ENVIRON HEALTH & SAFETY MANAGER
EPA Region:	07
Land Type:	Federal
Federal Waste Generator Description:	Large Quantity Generator
Biennial Report Cycle:	2021
Active Site Indicator:	Handler Activities
Mailing Address:	14520 BOTTS RD
Mailing City,State,Zip:	KANSAS CITY, MO 64147-1302
Owner Name:	Usdoe National Nuclear Secuity Adm
Owner Type:	Federal
Operator Name:	Usdoe National Nuclear Secuity Adm
Operator Type:	Federal
Short-Term Generator Activity:	No
Importer Activity:	No

USDOE KANSAS CITY NATIONAL SECURITY CAMPUS (Continued) **1015744571**

Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	The land is federally-owned, The site is federally-owned, The site is federally-operated
Hazardous Secondary Material Indicator:	N
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Handler Date of Last Change:	20220218
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Biennial: List of Years
Year: 2021

Click Here for Biennial Reporting System Data:
Year: 2019

Click Here for Biennial Reporting System Data:
Year: 2017

Click Here for Biennial Reporting System Data:
Year: 2015

Click Here for Biennial Reporting System Data:
Year: 2013

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:

USDOE KANSAS CITY NATIONAL SECURITY CAMPUS (Continued) **1015744571**

Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D002
Waste Description:	CORROSIVE WASTE
Waste Code:	D003
Waste Description:	REACTIVE WASTE
Waste Code:	D004
Waste Description:	ARSENIC
Waste Code:	D005
Waste Description:	BARIUM
Waste Code:	D006
Waste Description:	CADMIUM
Waste Code:	D007
Waste Description:	CHROMIUM
Waste Code:	D008
Waste Description:	LEAD
Waste Code:	D009
Waste Description:	MERCURY
Waste Code:	D010
Waste Description:	SELENIUM
Waste Code:	D011
Waste Description:	SILVER
Waste Code:	D018
Waste Description:	BENZENE
Waste Code:	D019
Waste Description:	CARBON TETRACHLORIDE
Waste Code:	D021
Waste Description:	CHLOROBENZENE
Waste Code:	D022
Waste Description:	CHLOROFORM
Waste Code:	D023
Waste Description:	O-CRESOL
Waste Code:	D024
Waste Description:	M-CRESOL
Waste Code:	D025
Waste Description:	P-CRESOL
Waste Code:	D026
Waste Description:	CRESOL

USDOE KANSAS CITY NATIONAL SECURITY CAMPUS (Continued) **1015744571**

Waste Code: D027
Waste Description: 1,4-DICHLOROBENZENE

Waste Code: D028
Waste Description: 1,2-DICHLOROETHANE

Waste Code: D029
Waste Description: 1,1-DICHLOROETHYLENE

Waste Code: D030
Waste Description: 2,4-DINITROTOLUENE

Waste Code: D032
Waste Description: HEXACHLOROBENZENE

Waste Code: D033
Waste Description: HEXACHLOROBUTADIENE

Waste Code: D034
Waste Description: HEXACHLOROETHANE

Waste Code: D035
Waste Description: METHYL ETHYL KETONE

Waste Code: D036
Waste Description: NITROBENZENE

Waste Code: D038
Waste Description: PYRIDINE

Waste Code: D039
Waste Description: TETRACHLOROETHYLENE

Waste Code: D040
Waste Description: TRICHLORETHYLENE

Waste Code: D043
Waste Description: VINYL CHLORIDE

Waste Code: F001
Waste Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F002
Waste Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND

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F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F003
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F004
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: CRESOLS, CRESYLIC ACID, AND NITROBENZENE; AND THE STILL BOTTOMS FROM THE RECOVERY OF THESE SOLVENTS; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F005
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F006
Waste Description: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS, EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

Waste Code: F007
Waste Description: SPENT CYANIDE PLATING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS.

Waste Code: F008
Waste Description: PLATING BATH RESIDUES FROM THE BOTTOM OF PLATING BATHS FROM ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.

Waste Code: F009
Waste Description: SPENT STRIPPING AND CLEANING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.

Waste Code: F019
Waste Description: WASTEWATER TREATMENT SLUDGES FROM THE CHEMICAL CONVERSION COATING OF ALUMINUM, EXCEPT FROM ZIRCONIUM PHOSPHATING IN ALUMINUM CAN WASHING WHEN SUCH PHOSPHATING IS AN EXCLUSIVE CONVERSION COATING PROCESS.

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Waste Code:	F027
Waste Description:	DISCARDED UNUSED FORMULATIONS CONTAINING TRI-, TETRA-, OR PENTACHLOROPHENOL OR DISCARDED UNUSED FORMULATIONS CONTAINING COMPOUNDS DERIVED FROM THESE CHLOROPHENOLS. (THIS LISTING DOES NOT INCLUDE FORMULATIONS CONTAINING HEXACHLOROPHENE SYNTHESIZED FROM PREPURIFIED 2,4,5-TRICHLOROPHENOL AS THE SOLE COMPONENT.)
Waste Code:	P003
Waste Description:	2-PROPENAL (OR) ACROLEIN
Waste Code:	P009
Waste Description:	AMMONIUM PICRATE (R) (OR) PHENOL, 2,4,6-TRINITRO-, AMMONIUM SALT (R)
Waste Code:	P010
Waste Description:	ARSENIC ACID H3ASO4
Waste Code:	P012
Waste Description:	ARSENIC OXIDE AS2O3 (OR) ARSENIC TRIOXIDE
Waste Code:	P015
Waste Description:	BERYLLIUM
Waste Code:	P016
Waste Description:	DICHLOROMETHYL ETHER (OR) METHANE, OXYBIS[CHLORO-
Waste Code:	P017
Waste Description:	2-PROPANONE, 1-BROMO- (OR) BROMOACETONE
Waste Code:	P020
Waste Description:	DINOSEB (OR) PHENOL, 2-(1-METHYLPROPYL)-4,6-DINITRO-
Waste Code:	P021
Waste Description:	CALCIUM CYANIDE (OR) CALCIUM CYANIDE CA(CN)2
Waste Code:	P022
Waste Description:	CARBON DISULFIDE
Waste Code:	P023
Waste Description:	ACETALDEHYDE, CHLORO- (OR) CHLOROACETALDEHYDE
Waste Code:	P024
Waste Description:	BENZENAMINE, 4-CHLORO- (OR) P-CHLORANILINE
Waste Code:	P028
Waste Description:	BENZENE, (CHLOROMETHYL)- (OR) BENZYL CHLORIDE
Waste Code:	P029
Waste Description:	COPPER CYANIDE (OR) COPPER CYANIDE CU(CN)
Waste Code:	P030
Waste Description:	CYANIDES (SOLUBLE CYANIDE SALTS), NOT OTHERWISE SPECIFIED
Waste Code:	P034
Waste Description:	2-CYCLOHEXYL-4,6-DINITROPHENOL (OR) PHENOL, 2-CYCLOHEXYL-4,6-DINITRO-
Waste Code:	P041
Waste Description:	DIETHYL-P-NITROPHENYL PHOSPHATE (OR) PHOSPHORIC ACID, DIETHYL

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4-NITROPHENYL ESTER

Waste Code: P045
Waste Description: 2-BUTANONE, 3,3-DIMETHYL-1-(METHYLTHIO)-, O-[METHYLAMINO)CARBONYL] OXIME (OR) THIOFANOX

Waste Code: P046
Waste Description: ALPHA,ALPHA-DIMETHYLPHENETHYLAMINE (OR) BENZENEETHANAMINE, ALPHA, ALPHA-DIMETHYL-

Waste Code: P047
Waste Description: 4,6-DINITRO-O-CRESOL, & SALTS (OR) PHENOL, 2-METHYL-4,6-DINITRO-, & SALTS

Waste Code: P048
Waste Description: 2,4-DINITROPHENOL (OR) PHENOL, 2,4-DINITRO-

Waste Code: P056
Waste Description: FLUORINE

Waste Code: P058
Waste Description: ACETIC ACID, FLUORO-, SODIUM SALT (OR) FLUOROACETIC ACID, SODIUM SALT

Waste Code: P059
Waste Description: 4,7-METHANO-1H-INDENE, 1,4,5,6,7,8,8-HEPTACHLORO-3A,4,7,7A-TETRAHYDRO- (OR) HEPTACHLOR

Waste Code: P063
Waste Description: HYDROCYANIC ACID (OR) HYDROGEN CYANIDE

Waste Code: P064
Waste Description: METHANE, ISOCYANATO- (OR) METHYL ISOCYANATE

Waste Code: P065
Waste Description: FULMINIC ACID, MERCURY(2+) SALT (R,T) (OR) MERCURY FULMINATE (R,T)

Waste Code: P067
Waste Description: 1,2-PROPYLENIMINE (OR) AZIRIDINE, 2-METHYL-

Waste Code: P068
Waste Description: HYDRAZINE, METHYL- (OR) METHYL HYDRAZINE

Waste Code: P074
Waste Description: NICKEL CYANIDE (OR) NICKEL CYANIDE NI(CN)2

Waste Code: P075
Waste Description: NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS

Waste Code: P076
Waste Description: NITRIC OXIDE (OR) NITROGEN OXIDE NO

Waste Code: P078
Waste Description: NITROGEN DIOXIDE (OR) NITROGEN OXIDE NO2

Waste Code: P095
Waste Description: CARBONIC DICHLORIDE (OR) PHOSGENE

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Waste Code: P096
Waste Description: HYDROGEN PHOSPHIDE (OR) PHOSPHINE

Waste Code: P098
Waste Description: POTASSIUM CYANIDE (OR) POTASSIUM CYANIDE K(CN)

Waste Code: P099
Waste Description: ARGENTATE (1-), BIS(CYANO-C)-, POTASSIUM (OR) POTASSIUM SILVER CYANIDE

Waste Code: P102
Waste Description: 2-PROPYN-1-OL (OR) PROPARGYL ALCOHOL

Waste Code: P104
Waste Description: SILVER CYANIDE (OR) SILVER CYANIDE AG(CN)

Waste Code: P105
Waste Description: SODIUM AZIDE

Waste Code: P106
Waste Description: SODIUM CYANIDE (OR) SODIUM CYANIDE NA(CN)

Waste Code: P112
Waste Description: METHANE, TETRANITRO- (R) (OR) TETRANITROMETHANE (R)

Waste Code: P115
Waste Description: SULFURIC ACID, DITHALLIUM (1+) SALT (OR) THALLIUM(I) SULFATE

Waste Code: P119
Waste Description: AMMONIUM VANADATE (OR) VANADIC ACID, AMMONIUM SALT

Waste Code: P120
Waste Description: VANADIUM OXIDE V2O5 (OR) VANADIUM PENTOXIDE

Waste Code: P121
Waste Description: ZINC CYANIDE (OR) ZINC CYANIDE ZN(CN)2

Waste Code: P128
Waste Description: P128

Waste Code: P188
Waste Description: BENZOIC ACID, 2-HYDROXY-, COMPD. WITH (3AS-CIS)-1,2,3,3A,8,8A-HEXAHYDRO-1,3A,8-TRIMETHYLPYRROLO[2,3-B]INDOL-5-YL METHYLCARBAMATE ESTER (1:1) (OR) PHYSOSTIGMINE SALICYLATE

Waste Code: P199
Waste Description: P199

Waste Code: P201
Waste Description: PHENOL, 3-METHYL-5-(1-METHYLETHYL)-, METHYL CARBAMATE (OR) PROMECARB

Waste Code: P202
Waste Description: M-CUMENYL METHYLCARBAMATE (OR) 3-ISOPROPYLPHENYL N-METHYLCARBAMATE (OR) PHENOL, 3-(1-METHYLETHYL)-, METHYL CARBAMATE

Waste Code: U001
Waste Description: ACETALDEHYDE (I) (OR) ETHANAL (I)

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Waste Code:	U002
Waste Description:	2-PROPANONE (I) (OR) ACETONE (I)
Waste Code:	U003
Waste Description:	ACETONITRILE (I,T)
Waste Code:	U008
Waste Description:	2-PROPENOIC ACID (I) (OR) ACRYLIC ACID (I)
Waste Code:	U009
Waste Description:	2-PROPENENITRILE (OR) ACRYLONITRILE
Waste Code:	U012
Waste Description:	ANILINE (I,T) (OR) BENZENAMINE (I,T)
Waste Code:	U015
Waste Description:	AZASERINE (OR) L-SERINE, DIAZOACETATE (ESTER)
Waste Code:	U017
Waste Description:	BENZAL CHLORIDE (OR) BENZENE, (DICHLOROMETHYL)-
Waste Code:	U018
Waste Description:	BENZ[A]ANTHRACENE
Waste Code:	U019
Waste Description:	BENZENE (I,T)
Waste Code:	U021
Waste Description:	[1,1'-BIPHENYL]-4,4'-DIAMINE (OR) BENZIDINE
Waste Code:	U023
Waste Description:	BENZENE, (TRICHLOROMETHYL)- (OR) BENZOTRICHLORIDE (C,R,T)
Waste Code:	U024
Waste Description:	DICHLOROMETHOXY ETHANE (OR) ETHANE, 1,1'-[METHYLENEBIS(OXY)]BIS[2-CHLORO-
Waste Code:	U025
Waste Description:	DICHLOROETHYL ETHER (OR) ETHANE, 1,1'-OXYBIS[2-CHLORO-
Waste Code:	U027
Waste Description:	DICHLOROISOPROPYL ETHER (OR) PROPANE, 2,2'-OXYBIS[2-CHLORO-
Waste Code:	U028
Waste Description:	1,2-BENZENEDICARBOXYLIC ACID, BIS(2-ETHYLHEXYL) ESTER (OR) DIETHYLHEXYL PHTHALATE
Waste Code:	U029
Waste Description:	METHANE, BROMO- (OR) METHYL BROMIDE
Waste Code:	U030
Waste Description:	4-BROMOPHENYL PHENYL ETHER (OR) BENZENE, 1-BROMO-4-PHENOXY-
Waste Code:	U031
Waste Description:	1-BUTANOL (I) (OR) N-BUTYL ALCOHOL (I)
Waste Code:	U032

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Waste Description: CALCIUM CHROMATE (OR) CHROMIC ACID H2CRO4, CALCIUM SALT

Waste Code: U036
Waste Description: 4,7-METHANO-1H-INDENE, 1,2,4,5,6,7,8,8-OCTACHLORO-2,3,3A,4,7,7A-HEXAHYDRO- (OR) CHLORDANE, ALPHA & GAMMA ISOMERS

Waste Code: U037
Waste Description: BENZENE, CHLORO- (OR) CHLOROBENZENE

Waste Code: U039
Waste Description: P-CHLORO-M-CRESOL (OR) PHENOL, 4-CHLORO-3-METHYL-

Waste Code: U042
Waste Description: 2-CHLOROETHYL VINYL ETHER (OR) ETHENE, (2-CHLOROETHOXY)-

Waste Code: U043
Waste Description: ETHENE, CHLORO- (OR) VINYL CHLORIDE

Waste Code: U044
Waste Description: CHLOROFORM (OR) METHANE, TRICHLORO-

Waste Code: U045
Waste Description: METHANE, CHLORO- (I,T) (OR) METHYL CHLORIDE (I,T)

Waste Code: U046
Waste Description: CHLOROMETHYL METHYL ETHER (OR) METHANE, CHLOROMETHOXY-

Waste Code: U048
Waste Description: O-CHLOROPHENOL (OR) PHENOL, 2-CHLORO-

Waste Code: U050
Waste Description: CHRYSENE

Waste Code: U052
Waste Description: CRESOL (CRESYLIC ACID) (OR) PHENOL, METHYL-

Waste Code: U053
Waste Description: 2-BUTENAL (OR) CROTONALDEHYDE

Waste Code: U055
Waste Description: BENZENE, (1-METHYLETHYL)- (I) (OR) CUMENE (I)

Waste Code: U056
Waste Description: BENZENE, HEXAHYDRO- (I) (OR) CYCLOHEXANE (I)

Waste Code: U057
Waste Description: CYCLOHEXANONE (I)

Waste Code: U060
Waste Description: BENZENE, 1,1'-(2,2-DICHLOROETHYLIDENE)BIS[4-CHLORO- (OR) DDD

Waste Code: U061
Waste Description: BENZENE, 1,1'-(2,2,2-TRICHLOROETHYLIDENE)BIS[4-CHLORO- (OR) DDT

Waste Code: U063
Waste Description: DIBENZ[A,H]ANTHRACENE

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Waste Code: U064
Waste Description: BENZO[RST]PENTAPHENE (OR) DIBENZO[A,I]PYRENE

Waste Code: U066
Waste Description: 1,2-DIBROMO-3-CHLOROPROPANE (OR) PROPANE, 1,2-DIBROMO-3-CHLORO-

Waste Code: U067
Waste Description: ETHANE, 1,2-DIBROMO- (OR) ETHYLENE DIBROMIDE

Waste Code: U068
Waste Description: METHANE, DIBROMO- (OR) METHYLENE BROMIDE

Waste Code: U069
Waste Description: 1,2-BENZENEDICARBOXYLIC ACID, DIBUTYL ESTER (OR) DIBUTYL PHTHALATE

Waste Code: U070
Waste Description: BENZENE, 1,2-DICHLORO- (OR) O-DICHLOROBENZENE

Waste Code: U071
Waste Description: BENZENE, 1,3-DICHLORO- (OR) M-DICHLOROBENZENE

Waste Code: U072
Waste Description: BENZENE, 1,4-DICHLORO- (OR) P-DICHLOROBENZENE

Waste Code: U073
Waste Description: [1,1'-BIPHENYL]-4,4'-DIAMINE, 3,3'-DICHLORO- (OR) 3,3'-DICHLOROBENZIDINE

Waste Code: U075
Waste Description: DICHLORODIFLUOROMETHANE (OR) METHANE, DICHLORODIFLUORO-

Waste Code: U076
Waste Description: ETHANE, 1,1-DICHLORO- (OR) ETHYLIDENE DICHLORIDE

Waste Code: U077
Waste Description: ETHANE, 1,2-DICHLORO- (OR) ETHYLENE DICHLORIDE

Waste Code: U078
Waste Description: 1,1-DICHLOROETHYLENE (OR) ETHENE, 1,1-DICHLORO-

Waste Code: U079
Waste Description: 1,2-DICHLOROETHYLENE (OR) ETHENE, 1,2-DICHLORO-,(E)-

Waste Code: U080
Waste Description: METHANE, DICHLORO- (OR) METHYLENE CHLORIDE

Waste Code: U081
Waste Description: 2,4-DICHLOROPHENOL (OR) PHENOL, 2,4-DICHLORO-

Waste Code: U082
Waste Description: 2,6-DICHLOROPHENOL (OR) PHENOL, 2,6-DICHLORO-

Waste Code: U083
Waste Description: PROPANE, 1,2-DICHLORO- (OR) PROPYLENE DICHLORIDE

Waste Code: U084
Waste Description: 1,3-DICHLOROPROPENE (OR) 1-PROPENE, 1,3-DICHLORO-

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Waste Code: U085
Waste Description: 1,2:3,4-DIEPOXYBUTANE (I,T) (OR) 2,2'-BIOXIRANE

Waste Code: U088
Waste Description: 1,2-BENZENEDICARBOXYLIC ACID, DIETHYL ESTER (OR) DIETHYL PHTHALATE

Waste Code: U089
Waste Description: DIETHYLSTILBESTEROL (OR) PHENOL, 4,4'-(1,2-DIETHYL-1,2-ETHENEDIYL)BIS, (E)-

Waste Code: U092
Waste Description: DIMETHYLAMINE (I) (OR) METHANAMINE, N-METHYL- (I)

Waste Code: U093
Waste Description: BENZENAMINE, N,N-DIMETHYL-4-(PHENYLAZO)- (OR) P-DIMETHYLAMINOAZOBENZENE

Waste Code: U094
Waste Description: 7,12-DIMETHYLBENZ[A]ANTHRACENE (OR) BENZ[A]ANTHRACENE, 7,12-DIMETHYL-

Waste Code: U096
Waste Description: ALPHA,ALPHA-DIMETHYLBENZYLHYDROPEROXIDE (R) (OR) HYDROPEROXIDE, 1-METHYL-1-PHENYLETHYL- (R)

Waste Code: U098
Waste Description: 1,1-DIMETHYLHYDRAZINE (OR) HYDRAZINE, 1,1-DIMETHYL-

Waste Code: U099
Waste Description: 1,2-DIMETHYLHYDRAZINE (OR) HYDRAZINE, 1,2-DIPHENYL-

Waste Code: U101
Waste Description: 2,4-DIMETHYLPHENOL (OR) PHENOL, 2,4-DIMETHYL-

Waste Code: U102
Waste Description: 1,2-BENZENEDICARBOXYLIC ACID, DIMETHYL ESTER (OR) DIMETHYL PHTHALATE

Waste Code: U103
Waste Description: DIMETHYL SULFATE (OR) SULFURIC ACID, DIMETHYL ESTER

Waste Code: U105
Waste Description: 2,4-DINITROTOLUENE (OR) BENZENE, 1-METHYL-2,4-DINITRO-

Waste Code: U106
Waste Description: 2,6-DINITROTOLUENE (OR) BENZENE, 2-METHYL-1,3-DINITRO-

Waste Code: U107
Waste Description: 1,2-BENZENEDICARBOXYLIC ACID, DIOCTYL ESTER (OR) DI-N-OCTYL PHTHALATE

Waste Code: U108
Waste Description: 1,4-DIETHYLENEOXIDE (OR) 1,4-DIOXANE

Waste Code: U112
Waste Description: ACETIC ACID, ETHYL ESTER (I) (OR) ETHYL ACETATE (I)

Waste Code: U113
Waste Description: 2-PROPENOIC ACID, ETHYL ESTER (I) (OR) ETHYL ACRYLATE (I)

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Waste Code: U117
Waste Description: ETHANE, 1,1'-OXYBIS-(I) (OR) ETHYL ETHER (I)

Waste Code: U121
Waste Description: METHANE, TRICHLOROFLUORO- (OR) TRICHLOROMONOFLUOROMETHANE

Waste Code: U122
Waste Description: FORMALDEHYDE

Waste Code: U123
Waste Description: FORMIC ACID (C,T)

Waste Code: U124
Waste Description: FURAN (I) (OR) FURFURAN (I)

Waste Code: U127
Waste Description: BENZENE, HEXACHLORO- (OR) HEXACHLOROBENZENE

Waste Code: U128
Waste Description: 1,3-BUTADIENE, 1,1,2,3,4,4-HEXACHLORO- (OR) HEXACHLOROBUTADIENE

Waste Code: U129
Waste Description: CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, (1ALPHA, 2ALPHA, 3BETA, 4ALPHA, 5ALPHA, 6BETA)- (OR) LINDANE

Waste Code: U130
Waste Description: 1,3-CYCLOPENTADIENE, 1,2,3,4,5,5-HEXACHLORO- (OR) HEXACHLOROCYCLOPENTADIENE

Waste Code: U131
Waste Description: ETHANE, HEXACHLORO- (OR) HEXACHLOROETHANE

Waste Code: U132
Waste Description: HEXACHLOROPHENE (OR) PHENOL, 2,2'-METHYLENEBIS[3,4,6-TRICHLORO-

Waste Code: U133
Waste Description: HYDRAZINE (R,T)

Waste Code: U134
Waste Description: HYDROFLUORIC ACID (C,T) (OR) HYDROGEN FLUORIDE (C,T)

Waste Code: U135
Waste Description: HYDROGEN SULFIDE (OR) HYDROGEN SULFIDE H2S

Waste Code: U136
Waste Description: ARSINIC ACID, DIMETHYL- (OR) CACODYLIC ACID

Waste Code: U137
Waste Description: INDENO[1,2,3-CD]PYRENE

Waste Code: U138
Waste Description: METHANE, IODO- (OR) METHYL IODIDE

Waste Code: U140
Waste Description: 1-PROPANOL, 2-METHYL- (I,T) (OR) ISOBUTYL ALCOHOL (I,T)

Waste Code: U144

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Waste Description: ACETIC ACID, LEAD(2+) SALT (OR) LEAD ACETATE

Waste Code: U145
Waste Description: LEAD PHOSPHATE (OR) PHOSPHORIC ACID, LEAD(2+) SALT (2:3)

Waste Code: U146
Waste Description: LEAD SUBACETATE (OR) LEAD, BIS(ACETATO-O)TETRAHYDROXYTRI-

Waste Code: U147
Waste Description: 2,5-FURANDIONE (OR) MALEIC ANHYDRIDE

Waste Code: U150
Waste Description: L-PHENYLALANINE, 4-[BIS(2-CHLOROETHYL)AMINO]- (OR) MELPHALAN

Waste Code: U151
Waste Description: MERCURY

Waste Code: U152
Waste Description: 2-PROPENENITRILE, 2-METHYL- (I,T) (OR) METHACRYLONITRILE (I,T)

Waste Code: U154
Waste Description: METHANOL (I) (OR) METHYL ALCOHOL (I)

Waste Code: U158
Waste Description: 4,4'-METHYLENEBIS(2-CHLOROANILINE) (OR) BENZENAMINE, 4,4'-METHYLENEBIS[2-CHLORO-

Waste Code: U159
Waste Description: 2-BUTANONE (I,T) (OR) METHYL ETHYL KETONE (MEK) (I,T)

Waste Code: U160
Waste Description: 2-BUTANONE, PEROXIDE (R,T) (OR) METHYL ETHYL KETONE PEROXIDE (R,T)

Waste Code: U161
Waste Description: 4-METHYL-2-PENTANONE (I) (OR) METHYL ISOBUTYL KETONE (I) (OR) PENTANOL, 4-METHYL-

Waste Code: U162
Waste Description: 2-PROPENOIC ACID, 2-METHYL-, METHYL ESTER (I,T) (OR) METHYL METHACRYLATE (I,T)

Waste Code: U165
Waste Description: NAPHTHALENE

Waste Code: U169
Waste Description: BENZENE, NITRO- (OR) NITROBENZENE (I,T)

Waste Code: U170
Waste Description: P-NITROPHENOL (I,T) (OR) PHENOL, 4-NITRO-

Waste Code: U171
Waste Description: 2-NITROPROPANE (I,T) (OR) PROPANE, 2-NITRO- (I,T)

Waste Code: U172
Waste Description: 1-BUTANAMINE, N-BUTYL-N-NITROSO- (OR) N-NITROSODI-N-BUTYLAMINE

Waste Code: U173

USDOE KANSAS CITY NATIONAL SECURITY CAMPUS (Continued) **1015744571**

Waste Description: ETHANOL, 2,2'-(NITROSOIMINO)BIS- (OR) N-NITROSODIETHANOLAMINE

Waste Code: U183
Waste Description: BENZENE, PENTACHLORO- (OR) PENTACHLOROBENZENE

Waste Code: U188
Waste Description: PHENOL

Waste Code: U190
Waste Description: 1,3-ISOBENZOFURANDIONE (OR) PHTHALIC ANHYDRIDE

Waste Code: U191
Waste Description: 2-PICOLINE (OR) PYRIDINE, 2-METHYL-

Waste Code: U196
Waste Description: PYRIDINE

Waste Code: U201
Waste Description: 1,3-BENZENEDIOL (OR) RESORCINOL

Waste Code: U204
Waste Description: SELENIOUS ACID (OR) SELENIUM DIOXIDE

Waste Code: U205
Waste Description: SELENIUM SULFIDE (OR) SELENIUM SULFIDE SES2 (R,T)

Waste Code: U207
Waste Description: 1,2,4,5-TETRACHLOROBENZENE (OR) BENZENE, 1,2,4,5-TETRACHLORO-

Waste Code: U208
Waste Description: 1,1,1,2-TETRACHLOROETHANE (OR) ETHANE, 1,1,1,2-TETRACHLORO-

Waste Code: U209
Waste Description: 1,1,2,2-TETRACHLOROETHANE (OR) ETHANE, 1,1,2,2-TETRACHLORO-

Waste Code: U210
Waste Description: ETHENE, TETRACHLORO- (OR) TETRACHLOROETHYLENE

Waste Code: U211
Waste Description: CARBON TETRACHLORIDE (OR) METHANE, TETRACHLORO-

Waste Code: U213
Waste Description: FURAN, TETRAHYDRO-(I) (OR) TETRAHYDROFURAN (I)

Waste Code: U215
Waste Description: CARBONIC ACID, DITHALLIUM(1+) SALT (OR) THALLIUM(I) CARBONATE

Waste Code: U217
Waste Description: NITRIC ACID, THALLIUM(1+) SALT (OR) THALLIUM(I) NITRATE

Waste Code: U219
Waste Description: THIOUREA

Waste Code: U220
Waste Description: BENZENE, METHYL- (OR) TOLUENE

Waste Code: U221

USDOE KANSAS CITY NATIONAL SECURITY CAMPUS (Continued) **1015744571**

Waste Description: BENZENEDIAMINE, AR-METHYL- (OR) TOLUENEDIAMINE

Waste Code: U223
Waste Description: BENZENE, 1,3-DIISOCYANATOMETHYL- (R,T) (OR) TOLUENE DIISOCYANATE (R,T)

Waste Code: U225
Waste Description: BROMOFORM (OR) METHANE, TRIBROMO-

Waste Code: U226
Waste Description: ETHANE, 1,1,1-TRICHLORO- (OR) METHYL CHLOROFORM

Waste Code: U227
Waste Description: 1,1,2-TRICHLOROETHANE (OR) ETHANE, 1,1,2-TRICHLORO-

Waste Code: U228
Waste Description: ETHENE, TRICHLORO- (OR) TRICHLOROETHYLENE

Waste Code: U234
Waste Description: 1,3,5-TRINITROBENZENE (R,T) (OR) BENZENE, 1,3,5-TRINITRO-

Waste Code: U239
Waste Description: BENZENE, DIMETHYL- (I,T) (OR) XYLENE (I)

Waste Code: U243
Waste Description: 1-PROPENE, 1,1,2,3,3,3-HEXACHLORO- (OR) HEXACHLOROPROPENE

Waste Code: U244
Waste Description: THIOPEROXYDICARBONIC DIAMIDE [(H2N)C(S)]2S2, TETRAMETHYL- (OR) THIRAM

Waste Code: U328
Waste Description: BENZENAMINE, 2-METHYL- (OR) O-TOLUIDINE

Waste Code: U353
Waste Description: BENZENAMINE, 4-METHYL- (OR) P-TOLUIDINE

Waste Code: U359
Waste Description: ETHANOL, 2-ETHOXY- (OR) ETHYLENE GLYCOL MONOETHYL ETHER

Waste Code: U396
Waste Description: FERBAM (OR) IRON, TRIS(DIMETHYLCARBAMODITHIOATO-S,S')-,

Waste Code: U404
Waste Description: U404

Waste Code: U411
Waste Description: U411

Handler - Owner Operator:
Owner/Operator Indicator: Operator
Owner/Operator Name: HONEYWELL FM&T LLC
Legal Status: Private
Date Became Current: 20130123

Owner/Operator Indicator: Owner
Owner/Operator Name: USDOE NATIONAL NUCLEAR SECUITY ADM
Legal Status: Federal
Date Became Current: 20121005

USDOE KANSAS CITY NATIONAL SECURITY CAMPUS (Continued) **1015744571**

Owner/Operator Address: 14520 BOTTS RD
Owner/Operator City,State,Zip: KANSAS CITY, MO 64147-1302
Owner/Operator Telephone: 816-488-3417

Owner/Operator Indicator: Operator
Owner/Operator Name: USDOE NATIONAL NUCLEAR SECUITY ADM
Legal Status: Federal
Date Became Current: 20121005
Owner/Operator Address: 14520 BOTTS RD
Owner/Operator City,State,Zip: KANSAS CITY, MO 64147-1302
Owner/Operator Telephone: 816-488-3417

Owner/Operator Indicator: Operator
Owner/Operator Name: USDOE NATIONAL NUCLEAR SECUITY ADM
Legal Status: Federal
Date Became Current: 20121005
Owner/Operator Address: 14520 BOTTS RD
Owner/Operator City,State,Zip: KANSAS CITY, MO 64147-1302
Owner/Operator Telephone: 816-488-3417

Owner/Operator Indicator: Owner
Owner/Operator Name: U S DEPARTMENT OF ENERGY
Legal Status: Federal
Date Became Current: 20121015
Owner/Operator Address: 2000 E 95TH ST
Owner/Operator City,State,Zip: KANSAS CITY, MO 64131-3030
Owner/Operator Telephone: 816-997-3449

Owner/Operator Indicator: Operator
Owner/Operator Name: HONEYWELL FM&T LLC
Legal Status: Private
Date Became Current: 20130123
Owner/Operator Address: 14520 BOTTS RD
Owner/Operator City,State,Zip: KANSAS CITY, MO 64147-1302
Owner/Operator Telephone: 816-488-3417

Owner/Operator Indicator: Owner
Owner/Operator Name: U S DEPARTMENT OF ENERGY
Legal Status: Federal
Date Became Current: 20121015
Owner/Operator Address: 14520 BOTTS RD
Owner/Operator City,State,Zip: KANSAS CITY, MO 64147-1302
Owner/Operator Telephone: 816-488-3417

Owner/Operator Indicator: Operator
Owner/Operator Name: HONEYWELL FM&T LLC
Legal Status: Private
Date Became Current: 20130123

Owner/Operator Indicator: Owner
Owner/Operator Name: PLANNED INDUSTRIAL EXPANSION AUTHORITY
Legal Status: Other
Date Became Current: 20100712
Owner/Operator Address: 20 E 5TH STREET SUITE 200
Owner/Operator City,State,Zip: KANSAS CITY, MO 64106
Owner/Operator Telephone: 816-474-2227

USDOE KANSAS CITY NATIONAL SECURITY CAMPUS (Continued) **1015744571**

Owner/Operator Indicator: Owner
Owner/Operator Name: PLANNED INDUSTRIAL EXPANSION AUTHORITY
Legal Status: Other
Date Became Current: 20100712
Owner/Operator Address: 20 E 5TH ST SUITE 200
Owner/Operator City,State,Zip: KANSAS CITY, MO 64106
Owner/Operator Telephone: 816-474-2227

Owner/Operator Indicator: Operator
Owner/Operator Name: HONEYWELL FM&T LLC
Legal Status: Private
Date Became Current: 20130123
Owner/Operator Address: 14520 BOTTS RD
Owner/Operator City,State,Zip: KANSAS CITY, MO 64147-1302
Owner/Operator Telephone: 816-488-3417

Owner/Operator Indicator: Owner
Owner/Operator Name: PLANNED INDUSTRIAL EXPANSION AUTHORITY
Legal Status: Other
Date Became Current: 20100712
Owner/Operator Address: 20 E 5TH ST SUITE 200
Owner/Operator City,State,Zip: KANSAS CITY, MO 64106
Owner/Operator Telephone: 816-474-2227

Owner/Operator Indicator: Operator
Owner/Operator Name: USDOE NATIONAL NUCLEAR SECUITY ADM
Legal Status: Federal
Date Became Current: 20121005
Owner/Operator Address: 14520 BOTTS RD
Owner/Operator City,State,Zip: KANSAS CITY, MO 64147-1302
Owner/Operator Telephone: 816-488-3417

Owner/Operator Indicator: Owner
Owner/Operator Name: USDOE NATIONAL NUCLEAR SECUITY ADM
Legal Status: Federal
Date Became Current: 20121005
Owner/Operator Address: 14520 BOTTS RD
Owner/Operator City,State,Zip: KANSAS CITY, MO 64147-1302
Owner/Operator Telephone: 816-488-3417

Owner/Operator Indicator: Owner
Owner/Operator Name: U S DEPARTMENT OF ENERGY
Legal Status: Federal
Date Became Current: 20121015
Owner/Operator Address: 2000 E 95TH ST
Owner/Operator City,State,Zip: KANSAS CITY, MO 64131-3030
Owner/Operator Telephone: 816-997-3449

Owner/Operator Indicator: Operator
Owner/Operator Name: U S DEPARTMENT OF ENERGY
Legal Status: Federal
Date Became Current: 20121015
Owner/Operator Address: 2000 E 95TH ST
Owner/Operator City,State,Zip: KANSAS CITY, MO 64131-3030
Owner/Operator Telephone: 816-997-3449

Owner/Operator Indicator: Owner

USDOE KANSAS CITY NATIONAL SECURITY CAMPUS (Continued) **1015744571**

Owner/Operator Name: U S DEPARTMENT OF ENERGY
Legal Status: Federal
Date Became Current: 20121015
Owner/Operator Address: 14520 BOTTS RD
Owner/Operator City,State,Zip: KANSAS CITY, MO 64147
Owner/Operator Telephone: 816-488-3417

Owner/Operator Indicator: Operator
Owner/Operator Name: U S DEPARTMENT OF ENERGY
Legal Status: Federal
Date Became Current: 20121015
Owner/Operator Address: 14520 BOTTS RD
Owner/Operator City,State,Zip: KANSAS CITY, MO 64147
Owner/Operator Telephone: 816-488-3417

Owner/Operator Indicator: Owner
Owner/Operator Name: USDOE NATIONAL NUCLEAR SECUITY ADM
Legal Status: Federal
Date Became Current: 20121005
Owner/Operator Address: 14520 BOTTS RD
Owner/Operator City,State,Zip: KANSAS CITY, MO 64147-1302
Owner/Operator Telephone: 816-488-3417

Owner/Operator Indicator: Operator
Owner/Operator Name: U S DEPARTMENT OF ENERGY
Legal Status: Federal
Date Became Current: 20121015
Owner/Operator Address: 14520 BOTTS RD
Owner/Operator City,State,Zip: KANSAS CITY, MO 64147-1302
Owner/Operator Telephone: 816-488-3417

Owner/Operator Indicator: Owner
Owner/Operator Name: PLANNED INDUSTRIAL EXPANSION AUTHORITY
Legal Status: Other
Date Became Current: 20100712
Owner/Operator Address: 20 E 5TH STREET SUITE 200
Owner/Operator City,State,Zip: KANSAS CITY, MO 64106
Owner/Operator Telephone: 816-474-2227

Owner/Operator Indicator: Operator
Owner/Operator Name: USDOE NATIONAL NUCLEAR SECUITY ADM
Legal Status: Federal
Date Became Current: 20121005
Owner/Operator Address: 14520 BOTTS RD
Owner/Operator City,State,Zip: KANSAS CITY, MO 64147-1302
Owner/Operator Telephone: 816-488-3417

Owner/Operator Indicator: Operator
Owner/Operator Name: U S DEPARTMENT OF ENERGY
Legal Status: Federal
Date Became Current: 20121015
Owner/Operator Address: 2000 E 95TH ST
Owner/Operator City,State,Zip: KANSAS CITY, MO 64131-3030
Owner/Operator Telephone: 816-997-3449

Owner/Operator Indicator: Owner
Owner/Operator Name: USDOE NATIONAL NUCLEAR SECUITY ADM

USDOE KANSAS CITY NATIONAL SECURITY CAMPUS (Continued) **1015744571**

Legal Status: Federal
Date Became Current: 20121005
Owner/Operator Address: 14520 BOTTS RD
Owner/Operator City,State,Zip: KANSAS CITY, MO 64147-1302
Owner/Operator Telephone: 816-488-3417

Historic Generators:

Receive Date: 20140227
Handler Name: NNSA NATIONAL SECURITY CAMPUS
Federal Waste Generator Description: Large Quantity Generator
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No

Receive Date: 20160229
Handler Name: NNSA NATIONAL SECURITY CAMPUS
Federal Waste Generator Description: Large Quantity Generator
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No

Receive Date: 20180227
Handler Name: NNSA NATIONAL SECURITY CAMPUS KANSAS CITY PLANT
Federal Waste Generator Description: Large Quantity Generator
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 20200221
Handler Name: NNSA NATIONAL SECURITY CAMPUS KANSAS CITY PLANT
Federal Waste Generator Description: Large Quantity Generator
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 20220210
Handler Name: USDOE KANSAS CITY NATIONAL SECURITY CAMPUS
Federal Waste Generator Description: Large Quantity Generator
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No

USDOE KANSAS CITY NATIONAL SECURITY CAMPUS (Continued) **1015744571**

Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 20171212
Handler Name: NNSA NATIONAL SECURITY CAMPUS KANSAS CITY PLANT
Federal Waste Generator Description: Large Quantity Generator
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No

Receive Date: 20200928
Handler Name: USDOE KANSAS CITY NATIONAL SECURITY CAMPUS
Federal Waste Generator Description: Large Quantity Generator
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No

Receive Date: 20201030
Handler Name: USDOE KANSAS CITY NATIONAL SECURITY CAMPUS
Federal Waste Generator Description: Large Quantity Generator
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No

Receive Date: 20121015
Handler Name: NNSA NATIONAL SECURITY CAMPUS KANSAS CITY PLANT
Federal Waste Generator Description: Not a generator, verified
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No

Receive Date: 20121017
Handler Name: NNSA NATIONAL SECURITY CAMPUS KANSAS CITY PLANT
Federal Waste Generator Description: Large Quantity Generator
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No

Receive Date: 20151228

USDOE KANSAS CITY NATIONAL SECURITY CAMPUS (Continued) **1015744571**

Handler Name: NNSA NATIONAL SECURITY CAMPUS KANSAS CITY PLANT
Federal Waste Generator Description: Large Quantity Generator
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No

Receive Date: 20200821
Handler Name: USDOE KANSAS CITY NATIONAL SECURITY CAMPUS
Federal Waste Generator Description: Large Quantity Generator
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No

List of NAICS Codes and Descriptions:
NAICS Code: 332721
NAICS Description: PRECISION TURNED PRODUCT MANUFACTURING

NAICS Code: 332813
NAICS Description: ELECTROPLATING, PLATING, POLISHING, ANODIZING, AND COLORING

NAICS Code: 334412
NAICS Description: BARE PRINTED CIRCUIT BOARD MANUFACTURING

NAICS Code: 92811
NAICS Description: NATIONAL SECURITY

NAICS Code: 928110
NAICS Description: NATIONAL SECURITY

Has the Facility Received Notices of Violations:
Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: Generators - General
Date Violation was Determined: 20150220
Actual Return to Compliance Date: 20150220
Return to Compliance Qualifier: Documented
Violation Responsible Agency: EPA
Enforcement Identifier: 001
Date of Enforcement Action: 20150220
Enforcement Responsible Agency: EPA
Corrective Action Component: No
Disposition Status Date: 20171024
Disposition Status: AS
Disposition Status Description: ACTION SATISFIED (CASE CLOSED)
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R7TLU
Enforcement Responsible Sub-Organization: ENST

Found Violation: Yes
Agency Which Determined Violation: EPA

USDOE KANSAS CITY NATIONAL SECURITY CAMPUS (Continued) **1015744571**

Violation Short Description: TSD IS-General Facility Standards
Date Violation was Determined: 20150220
Actual Return to Compliance Date: 20150306
Return to Compliance Qualifier: Documented
Violation Responsible Agency: EPA
Enforcement Identifier: 001
Date of Enforcement Action: 20150220
Enforcement Responsible Agency: EPA
Corrective Action Component: No
Disposition Status Date: 20171024
Disposition Status: AS
Disposition Status Description: ACTION SATISFIED (CASE CLOSED)
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R7TLU
Enforcement Responsible Sub-Organization: ENST

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: Universal Waste - Small Quantity Handlers
Date Violation was Determined: 20150220
Actual Return to Compliance Date: 20150305
Return to Compliance Qualifier: Documented
Violation Responsible Agency: EPA
Enforcement Identifier: 001
Date of Enforcement Action: 20150220
Enforcement Responsible Agency: EPA
Corrective Action Component: No
Disposition Status Date: 20171024
Disposition Status: AS
Disposition Status Description: ACTION SATISFIED (CASE CLOSED)
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R7TLU
Enforcement Responsible Sub-Organization: ENST

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: Universal Waste - Small Quantity Handlers
Date Violation was Determined: 20150220
Actual Return to Compliance Date: 20150220
Return to Compliance Qualifier: Observed
Violation Responsible Agency: EPA
Enforcement Identifier: 001
Date of Enforcement Action: 20150220
Enforcement Responsible Agency: EPA
Corrective Action Component: No
Disposition Status Date: 20171024
Disposition Status: AS
Disposition Status Description: ACTION SATISFIED (CASE CLOSED)
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R7TLU
Enforcement Responsible Sub-Organization: ENST

Found Violation: No

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: Used Oil - Generators

USDOE KANSAS CITY NATIONAL SECURITY CAMPUS (Continued) **1015744571**

Date Violation was Determined:	20150220
Actual Return to Compliance Date:	20150220
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	EPA
Enforcement Identifier:	001
Date of Enforcement Action:	20150220
Enforcement Responsible Agency:	EPA
Corrective Action Component:	No
Disposition Status Date:	20171024
Disposition Status:	AS
Disposition Status Description:	ACTION SATISFIED (CASE CLOSED)
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R7TLU
Enforcement Responsible Sub-Organization:	ENST

Evaluation Action Summary:

Evaluation Date:	20150217
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R7TLU
Evaluation Responsible Sub-Organization:	ENST
Actual Return to Compliance Date:	20150220

Evaluation Date:	20150217
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R7TLU
Evaluation Responsible Sub-Organization:	ENST
Actual Return to Compliance Date:	20150306

Evaluation Date:	20150217
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R7TLU
Evaluation Responsible Sub-Organization:	ENST
Actual Return to Compliance Date:	20150305

Evaluation Date:	20150217
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R7TLU
Evaluation Responsible Sub-Organization:	ENST
Actual Return to Compliance Date:	20150220

Evaluation Date:	20220817
Evaluation Responsible Agency:	EPA
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R7TLU
Evaluation Responsible Sub-Organization:	ECAD-RCRA

Evaluation Date:	20150217
Evaluation Responsible Agency:	EPA

USDOE KANSAS CITY NATIONAL SECURITY CAMPUS (Continued) **1015744571**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R7TLU
Evaluation Responsible Sub-Organization:	ENST
Actual Return to Compliance Date:	20150220

FINDS:
Registry ID: 110042713089

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
TSCA SUBMITTER
The MO-DNR (Missouri Department of Natural Resources) program involves a Resource Assessment and Monitoring Program, biological criteria development, monitoring of targeted sites to determine compliance with the designated use of aquatic life protection in the standards, monitoring for 303(3) purposes, and the development of a stream classification framework.
US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
HAZARDOUS WASTE BIENNIAL REPORTER

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

ECHO:

Envid:	1015744571
Registry ID:	110042713089
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110042713089
Name:	USDOE KANSAS CITY NATIONAL SECURITY CAMPUS
Address:	14500 BOTTS RD
City,State,Zip:	KANSAS CITY, MO 64147

A3 **USDOE KANSAS CITY NATIONAL SECURITY CAMPUS** **PFAS ECHO** **1027435083**
West **N/A**
< 1/8 **KANSAS CITY, MO**
0.002 mi.
8 ft. **Site 2 of 5 in cluster A**

Relative: Higher
Actual: 991 ft.

PFAS ECHO:

Name:	USDOE KANSAS CITY NATIONAL SECURITY CAMPUS
City,State,Zip:	KANSAS CITY, MO
Latitude:	38.862995
Longitude:	-94.546055

USDOE KANSAS CITY NATIONAL SECURITY CAMPUS (Continued) **1027435083**

Count:	1
County:	JACKSON
Status:	Active
Region:	07
Industry:	Electronics Industry
ECHO Facility Report:	https://echo.epa.gov/detailed-facility-report?fid=110042713089
Facility Percent Minority:	44.815
Facility Derived Tribes:	-
Facility Population:	1043.72
EPA Programs:	CWA; RCRA
Federal Facility:	Yes
Federal Agency:	-
Facility FIPS Code:	29095
Facility Indian Country Flag:	N
Facility Collection Method:	INTERPOLATION-MAP
Facility Derived HUC:	10300101
Facility Derived WBD:	103001010201
Facility Derived CD113:	05
Facility Derived CB2010:	290950134053005
Facility Major Flag:	-
Facility Active Flag:	Y
Facility Inspection Count:	1
Facility Date Last Inspection:	8/17/2022
Facility Days Last Inspection:	220
Facility Informal Count:	0
Facility Date Last Informal Action:	2/20/2015
Facility Formal Action Count:	0
Facility Date Last Formal Action:	-
Facility Total Penalties:	0
Facility Penalty Count:	-
Facility Date Last Penalty:	-
Facility Last Penalty AMT:	-
Facility QTRS With NC:	0
Facility Programs With SNC:	0
Facility Compliance Status:	No Violation Identified
Facility SNC Flag:	N
AIR Flag:	N
NPDES Flag:	Y
SDWIS Flag:	N
RCRA Flag:	Y
TRI Flag:	N
GHG Flag:	N
AIR IDS:	-
CAA Permit Types:	-
CAA NAICS:	-
CAA SICS:	-
NPDES IDS:	MORA00803 MORA00885 MORA08708
CWA Permit Types:	Minor
CWA NAICS:	-
CWA SICS:	1629
RCRA IDS:	MOR000545376
RCRA Permit Types:	LQG
RCRA NAICS:	332721 92811 334412
SDWA IDS:	-
SDWA System Types:	-
SDWA Compliance Status:	-
SDWA SNC Flag:	N

USDOE KANSAS CITY NATIONAL SECURITY CAMPUS (Continued) **1027435083**

TRI IDS: -
TRI Releases Transfers: -
TRI On Site Releases: -
TRI Off Site Transfers: -
TRI Reporter: -
Facility IMP Water Flag: -
EJSCREEN Flag US: Y
EJSCREEN Report: https://ejscreen.epa.gov/mapper/mobile/EJSCREEN_mobile.aspx?geometry=%7B%22x%22:-94.546055,%22y%22:38.862995,%22spatialReference%22:%7B%22wkid%22:4326%7D%7D&unit=9035&areatype=&areaid=&basemap=streets&distance=1

A4 WNW < 1/8 0.023 mi. 119 ft. **USDOE KC NATIONAL SECURITY CAMPUS** **FINDS 1018351643**
14520 BOTTS ROAD **ECHO N/A**
KANSAS CITY, MO 64147 **PFAS ECHO**

Site 3 of 5 in cluster A

Relative: Higher

Actual: 1005 ft.

FINDS:
Registry ID: 110070824958

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.
Registry ID: 110060259269

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
TSCA SUBMITTER
US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

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

ECHO:
Envid: 1018351643
Registry ID: 110070824958
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110070824958
Name: USDOE KC NATIONAL SECURITY CAMPUS
Address: 14520 BOTTS ROAD
City,State,Zip: KANSAS CITY, MO 64147

Envid: 1018351643
Registry ID: 110060259269
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110060259269
Name: U.S. DOE'S KANSAS CITY NATIONAL SECURITY CAMPUS (KCNSC)
Address: 14520 BOTTS ROAD

USDOE KC NATIONAL SECURITY CAMPUS (Continued) **1018351643**

City,State,Zip: KANSAS CITY, MO 64147

PFAS ECHO:

Name:	USDOE KC NATIONAL SECURITY CAMPUS
City,State,Zip:	KANSAS CITY, MO
Latitude:	38.863392
Longitude:	-94.546406
Count:	1
County:	JACKSON
Status:	Active
Region:	07
Industry:	National Defense
ECHO Facility Report:	https://echo.epa.gov/detailed-facility-report?fid=110070824958
Facility Percent Minority:	45.042
Facility Derived Tribes:	-
Facility Population:	1042.52
EPA Programs:	CWA
Federal Facility:	No
Federal Agency:	-
Facility FIPS Code:	29095
Facility Indian Country Flag:	N
Facility Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Facility Derived HUC:	10300101
Facility Derived WBD:	103001010201
Facility Derived CD113:	05
Facility Derived CB2010:	290950134053006
Facility Major Flag:	-
Facility Active Flag:	Y
Facility Inspection Count:	0
Facility Date Last Inspection:	-
Facility Days Last Inspection:	-
Facility Informal Count:	0
Facility Date Last Informal Action:	-
Facility Formal Action Count:	0
Facility Date Last Formal Action:	-
Facility Total Penalties:	0
Facility Penalty Count:	-
Facility Date Last Penalty:	-
Facility Last Penalty AMT:	-
Facility QTRS With NC:	0
Facility Programs With SNC:	0
Facility Compliance Status:	No Violation Identified
Facility SNC Flag:	N
AIR Flag:	N
NPDES Flag:	Y
SDWIS Flag:	N
RCRA Flag:	N
TRI Flag:	N
GHG Flag:	N
AIR IDS:	-
CAA Permit Types:	-
CAA NAICS:	-
CAA SICS:	-
NPDES IDS:	MONX00441
CWA Permit Types:	Minor
CWA NAICS:	-
CWA SICS:	9711 3672

USDOE KC NATIONAL SECURITY CAMPUS (Continued) **1018351643**

RCRA IDS:	-
RCRA Permit Types:	-
RCRA NAICS:	-
SDWA IDS:	-
SDWA System Types:	-
SDWA Compliance Status:	-
SDWA SNC Flag:	N
TRI IDS:	-
TRI Releases Transfers:	-
TRI On Site Releases:	-
TRI Off Site Transfers:	-
TRI Reporter:	-
Facility IMP Water Flag:	-
EJSCREEN Flag US:	Y
EJSCREEN Report:	https://ejscreen.epa.gov/mapper/mobile/EJSCREEN_mobile.aspx?geometry=%7B%22x%22:-94.546406,%22y%22:38.863392,%22spatialReference%22:%7B%22wkid%22:4326%7D%7D&unit=9035&areatype=&areaid=&basemap=streets&distance=1
Name:	USDOE KC NATIONAL SECURITY CAMPUS
City,State,Zip:	KANSAS CITY, MO
Latitude:	38.863392
Longitude:	-94.546406
Count:	1
County:	JACKSON
Status:	Active
Region:	07
Industry:	Electronics Industry
ECHO Facility Report:	https://echo.epa.gov/detailed-facility-report?fid=110070824958
Facility Percent Minority:	45.042
Facility Derived Tribes:	-
Facility Population:	1042.52
EPA Programs:	CWA
Federal Facility:	No
Federal Agency:	-
Facility FIPS Code:	29095
Facility Indian Country Flag:	N
Facility Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Facility Derived HUC:	10300101
Facility Derived WBD:	103001010201
Facility Derived CD113:	05
Facility Derived CB2010:	290950134053006
Facility Major Flag:	-
Facility Active Flag:	Y
Facility Inspection Count:	0
Facility Date Last Inspection:	-
Facility Days Last Inspection:	-
Facility Informal Count:	0
Facility Date Last Informal Action:	-
Facility Formal Action Count:	0
Facility Date Last Formal Action:	-
Facility Total Penalties:	0
Facility Penalty Count:	-
Facility Date Last Penalty:	-
Facility Last Penalty AMT:	-
Facility QTRS With NC:	0
Facility Programs With SNC:	0

USDOE KC NATIONAL SECURITY CAMPUS (Continued) **1018351643**

Facility Compliance Status:	No Violation Identified
Facility SNC Flag:	N
AIR Flag:	N
NPDES Flag:	Y
SDWIS Flag:	N
RCRA Flag:	N
TRI Flag:	N
GHG Flag:	N
AIR IDS:	-
CAA Permit Types:	-
CAA NAICS:	-
CAA SICS:	-
NPDES IDS:	MONX00441
CWA Permit Types:	Minor
CWA NAICS:	-
CWA SICS:	9711 3672
RCRA IDS:	-
RCRA Permit Types:	-
RCRA NAICS:	-
SDWA IDS:	-
SDWA System Types:	-
SDWA Compliance Status:	-
SDWA SNC Flag:	N
TRI IDS:	-
TRI Releases Transfers:	-
TRI On Site Releases:	-
TRI Off Site Transfers:	-
TRI Reporter:	-
Facility IMP Water Flag:	-
EJSCREEN Flag US:	Y
EJSCREEN Report:	https://ejscreen.epa.gov/mapper/mobile/EJSCREEN_mobile.aspx?geometry=%7B%22x%22:-94.546406,%22y%22:38.863392,%22spatialReference%22:%7B%22wkid%22:4326%7D%7D&unit=9035&areatype=&areaid=&basemap=streets&distance=1

A5 **US DOE NATIONAL NUCLEAR SECURITY ADMINISTRATION** **PFAS ECHO** **1027434664**
WNW **N/A**
< 1/8 **CITY OF KANSAS CITY, MO**
0.023 mi.
119 ft. **Site 4 of 5 in cluster A**

Relative: PFAS ECHO:
Higher

Name:	US DOE NATIONAL NUCLEAR SECURITY ADMINISTRATION
City,State,Zip:	CITY OF KANSAS CITY, MO
Latitude:	38.863392
Longitude:	-94.546406
Count:	1
County:	JACKSON
Status:	Active
Region:	07
Industry:	National Defense
ECHO Facility Report:	https://echo.epa.gov/detailed-facility-report?fid=110064733695
Facility Percent Minority:	45.028
Facility Derived Tribes:	-
Facility Population:	1042.95
EPA Programs:	CAA
Federal Facility:	No
Federal Agency:	-

Actual:
1005 ft.

US DOE NATIONAL NUCLEAR SECURITY ADMINISTRATION (Continued) **1027434664**

Facility FIPS Code:	29095
Facility Indian Country Flag:	N
Facility Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Facility Derived HUC:	10300101
Facility Derived WBD:	103001010201
Facility Derived CD113:	05
Facility Derived CB2010:	290950134053006
Facility Major Flag:	-
Facility Active Flag:	Y
Facility Inspection Count:	0
Facility Date Last Inspection:	5/28/2015
Facility Days Last Inspection:	2,858
Facility Informal Count:	0
Facility Date Last Informal Action:	-
Facility Formal Action Count:	0
Facility Date Last Formal Action:	-
Facility Total Penalties:	0
Facility Penalty Count:	-
Facility Date Last Penalty:	-
Facility Last Penalty AMT:	-
Facility QTRS With NC:	0
Facility Programs With SNC:	0
Facility Compliance Status:	No Violation Identified
Facility SNC Flag:	N
AIR Flag:	Y
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	N
TRI Flag:	N
GHG Flag:	N
AIR IDS:	MO0002909502442
CAA Permit Types:	Minor Emissions
CAA NAICS:	928110
CAA SICS:	9711
NPDES IDS:	-
CWA Permit Types:	-
CWA NAICS:	-
CWA SICS:	-
RCRA IDS:	-
RCRA Permit Types:	-
RCRA NAICS:	-
SDWA IDS:	-
SDWA System Types:	-
SDWA Compliance Status:	-
SDWA SNC Flag:	N
TRI IDS:	-
TRI Releases Transfers:	-
TRI On Site Releases:	-
TRI Off Site Transfers:	-
TRI Reporter:	-
Facility IMP Water Flag:	-
EJSCREEN Flag US:	Y
EJSCREEN Report:	https://ejscreen.epa.gov/mapper/mobile/EJSCREEN_mobile.aspx?geometry=%7B%22x%22:-94.546406,%22y%22:38.863392,%22spatialReference%22:%7B%22wkid%22:4326%7D%7D&unit=9035&areatype=&areaid=&basemap=streets&distance=1

A6
WNW
< 1/8
0.023 mi.
119 ft.

U.S. DOE'S KANSAS CITY NATIONAL SECURITY CAMPUS (K — **PFAS ECHO** — **1027432220** — **N/A**

KANSAS CITY, MO

Site 5 of 5 in cluster A

Relative: Higher

Actual: 1005 ft.

PFAS ECHO:

Name:	U.S. DOE'S KANSAS CITY NATIONAL SECURITY CAMPUS (KCNSC)
City,State,Zip:	KANSAS CITY, MO
Latitude:	38.863392
Longitude:	-94.546406
Count:	1
County:	JACKSON COUNTY
Status:	Unknown
Region:	07
Industry:	National Defense
ECHO Facility Report:	https://echo.epa.gov/detailed-facility-report?fid=110060259269
Facility Percent Minority:	45.028
Facility Derived Tribes:	-
Facility Population:	1042.95
EPA Programs:	-
Federal Facility:	Yes
Federal Agency:	-
Facility FIPS Code:	29095
Facility Indian Country Flag:	N
Facility Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Facility Derived HUC:	10300101
Facility Derived WBD:	103001010201
Facility Derived CD113:	05
Facility Derived CB2010:	290950134053006
Facility Major Flag:	-
Facility Active Flag:	Y
Facility Inspection Count:	0
Facility Date Last Inspection:	-
Facility Days Last Inspection:	-
Facility Informal Count:	0
Facility Date Last Informal Action:	-
Facility Formal Action Count:	0
Facility Date Last Formal Action:	-
Facility Total Penalties:	0
Facility Penalty Count:	-
Facility Date Last Penalty:	-
Facility Last Penalty AMT:	-
Facility QTRS With NC:	-
Facility Programs With SNC:	0
Facility Compliance Status:	-
Facility SNC Flag:	N
AIR Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	N
TRI Flag:	Y
GHG Flag:	N
AIR IDS:	-
CAA Permit Types:	-
CAA NAICS:	-
CAA SICS:	-
NPDES IDS:	-
CWA Permit Types:	-

U.S. DOE'S KANSAS CITY NATIONAL SECURITY CAMPUS (KCNSC) (Continued) **1027432220**

CWA NAICS:	-
CWA SICS:	-
RCRA IDS:	-
RCRA Permit Types:	-
RCRA NAICS:	-
SDWA IDS:	-
SDWA System Types:	-
SDWA Compliance Status:	-
SDWA SNC Flag:	N
TRI IDS:	6414WNTNLS1452B
TRI Releases Transfers:	4439
TRI On Site Releases:	15
TRI Off Site Transfers:	4,424
TRI Reporter:	Y
Facility IMP Water Flag:	-
EJSCREEN Flag US:	Y
EJSCREEN Report:	https://ejscreen.epa.gov/mapper/mobile/EJSCREEN_mobile.aspx?geometry=%7B%22x%22:-94.546406,%22y%22:38.863392,%22spatialReference%22:%7B%22wkid%22:4326%7D%7D&unit=9035&areatype=&areaid=&basemap=streets&distance=1
Name:	U.S. DOE'S KANSAS CITY NATIONAL SECURITY CAMPUS (KCNSC)
City,State,Zip:	KANSAS CITY, MO
Latitude:	38.863392
Longitude:	-94.546406
Count:	1
County:	JACKSON COUNTY
Status:	Unknown
Region:	07
Industry:	Chemical Mfg
ECHO Facility Report:	https://echo.epa.gov/detailed-facility-report?fid=110060259269
Facility Percent Minority:	45.028
Facility Derived Tribes:	-
Facility Population:	1042.95
EPA Programs:	-
Federal Facility:	Yes
Federal Agency:	-
Facility FIPS Code:	29095
Facility Indian Country Flag:	N
Facility Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Facility Derived HUC:	10300101
Facility Derived WBD:	103001010201
Facility Derived CD113:	05
Facility Derived CB2010:	290950134053006
Facility Major Flag:	-
Facility Active Flag:	Y
Facility Inspection Count:	0
Facility Date Last Inspection:	-
Facility Days Last Inspection:	-
Facility Informal Count:	0
Facility Date Last Informal Action:	-
Facility Formal Action Count:	0
Facility Date Last Formal Action:	-
Facility Total Penalties:	0
Facility Penalty Count:	-
Facility Date Last Penalty:	-
Facility Last Penalty AMT:	-

U.S. DOE'S KANSAS CITY NATIONAL SECURITY CAMPUS (KCNSC) (Continued) **1027432220**

Facility QTRS With NC:	-
Facility Programs With SNC:	0
Facility Compliance Status:	-
Facility SNC Flag:	N
AIR Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	N
TRI Flag:	Y
GHG Flag:	N
AIR IDS:	-
CAA Permit Types:	-
CAA NAICS:	-
CAA SICS:	-
NPDES IDS:	-
CWA Permit Types:	-
CWA NAICS:	-
CWA SICS:	-
RCRA IDS:	-
RCRA Permit Types:	-
RCRA NAICS:	-
SDWA IDS:	-
SDWA System Types:	-
SDWA Compliance Status:	-
SDWA SNC Flag:	N
TRI IDS:	6414WNTNLS1452B
TRI Releases Transfers:	4439
TRI On Site Releases:	15
TRI Off Site Transfers:	4,424
TRI Reporter:	Y
Facility IMP Water Flag:	-
EJSCREEN Flag US:	Y
EJSCREEN Report:	https://ejscreen.epa.gov/mapper/mobile/EJSCREEN_mobile.aspx?geometry=%7B%22x%22:-94.546406,%22y%22:38.863392,%22spatialReference%22:%7B%22wkid%22:4326%7D%7D&unit=9035&areatype=&areaid=&basemap=streets&distance=1
Name:	U.S. DOE'S KANSAS CITY NATIONAL SECURITY CAMPUS (KCNSC)
City,State,Zip:	KANSAS CITY, MO
Latitude:	38.863392
Longitude:	-94.546406
Count:	1
County:	JACKSON COUNTY
Status:	Unknown
Region:	07
Industry:	Electronics Industry
ECHO Facility Report:	https://echo.epa.gov/detailed-facility-report?fid=110060259269
Facility Percent Minority:	45.028
Facility Derived Tribes:	-
Facility Population:	1042.95
EPA Programs:	-
Federal Facility:	Yes
Federal Agency:	-
Facility FIPS Code:	29095
Facility Indian Country Flag:	N
Facility Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Facility Derived HUC:	10300101

U.S. DOE'S KANSAS CITY NATIONAL SECURITY CAMPUS (KCNSC) (Continued) **1027432220**

Facility Derived WBD:	103001010201
Facility Derived CD113:	05
Facility Derived CB2010:	290950134053006
Facility Major Flag:	-
Facility Active Flag:	Y
Facility Inspection Count:	0
Facility Date Last Inspection:	-
Facility Days Last Inspection:	-
Facility Informal Count:	0
Facility Date Last Informal Action:	-
Facility Formal Action Count:	0
Facility Date Last Formal Action:	-
Facility Total Penalties:	0
Facility Penalty Count:	-
Facility Date Last Penalty:	-
Facility Last Penalty AMT:	-
Facility QTRS With NC:	-
Facility Programs With SNC:	0
Facility Compliance Status:	-
Facility SNC Flag:	N
AIR Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	N
TRI Flag:	Y
GHG Flag:	N
AIR IDS:	-
CAA Permit Types:	-
CAA NAICS:	-
CAA SICS:	-
NPDES IDS:	-
CWA Permit Types:	-
CWA NAICS:	-
CWA SICS:	-
RCRA IDS:	-
RCRA Permit Types:	-
RCRA NAICS:	-
SDWA IDS:	-
SDWA System Types:	-
SDWA Compliance Status:	-
SDWA SNC Flag:	N
TRI IDS:	6414WNTNLS1452B
TRI Releases Transfers:	4439
TRI On Site Releases:	15
TRI Off Site Transfers:	4,424
TRI Reporter:	Y
Facility IMP Water Flag:	-
EJSCREEN Flag US:	Y
EJSCREEN Report:	https://ejscreen.epa.gov/mapper/mobile/EJSCREEN_mobile.aspx?geometry=%7B%22x%22:-94.546406,%22y%22:38.863392,%22spatialReference%22:%7B%22wkid%22:4326%7D%7D&unit=9035&areatype=&areaid=&basemap=streets&distance=1
Name:	U.S. DOE'S KANSAS CITY NATIONAL SECURITY CAMPUS (KCNSC)
City,State,Zip:	KANSAS CITY, MO
Latitude:	38.863392
Longitude:	-94.546406

U.S. DOE'S KANSAS CITY NATIONAL SECURITY CAMPUS (KCNSC) (Continued) **1027432220**

Count:	1
County:	JACKSON COUNTY
Status:	Unknown
Region:	07
Industry:	Metal Machinery Mfg
ECHO Facility Report:	https://echo.epa.gov/detailed-facility-report?fid=110060259269
Facility Percent Minority:	45.028
Facility Derived Tribes:	-
Facility Population:	1042.95
EPA Programs:	-
Federal Facility:	Yes
Federal Agency:	-
Facility FIPS Code:	29095
Facility Indian Country Flag:	N
Facility Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Facility Derived HUC:	10300101
Facility Derived WBD:	103001010201
Facility Derived CD113:	05
Facility Derived CB2010:	290950134053006
Facility Major Flag:	-
Facility Active Flag:	Y
Facility Inspection Count:	0
Facility Date Last Inspection:	-
Facility Days Last Inspection:	-
Facility Informal Count:	0
Facility Date Last Informal Action:	-
Facility Formal Action Count:	0
Facility Date Last Formal Action:	-
Facility Total Penalties:	0
Facility Penalty Count:	-
Facility Date Last Penalty:	-
Facility Last Penalty AMT:	-
Facility QTRS With NC:	-
Facility Programs With SNC:	0
Facility Compliance Status:	-
Facility SNC Flag:	N
AIR Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	N
TRI Flag:	Y
GHG Flag:	N
AIR IDS:	-
CAA Permit Types:	-
CAA NAICS:	-
CAA SICS:	-
NPDES IDS:	-
CWA Permit Types:	-
CWA NAICS:	-
CWA SICS:	-
RCRA IDS:	-
RCRA Permit Types:	-
RCRA NAICS:	-
SDWA IDS:	-
SDWA System Types:	-
SDWA Compliance Status:	-
SDWA SNC Flag:	N

U.S. DOE'S KANSAS CITY NATIONAL SECURITY CAMPUS (KCNSC) (Continued) **1027432220**

TRI IDS:	6414WNTNLS1452B
TRI Releases Transfers:	4439
TRI On Site Releases:	15
TRI Off Site Transfers:	4,424
TRI Reporter:	Y
Facility IMP Water Flag:	-
EJSCREEN Flag US:	Y
EJSCREEN Report:	https://ejscreen.epa.gov/mapper/mobile/EJSCREEN_mobile.aspx?geometry=%7B%22x%22:-94.546406,%22y%22:38.863392,%22spatialReference%22:%7B%22wkid%22:4326%7D%7D&unit=9035&areatype=&areaid=&basemap=streets&distance=1
Name:	U.S. DOE'S KANSAS CITY NATIONAL SECURITY CAMPUS (KCNSC)
City,State,Zip:	KANSAS CITY, MO
Latitude:	38.863392
Longitude:	-94.546406
Count:	1
County:	JACKSON COUNTY
Status:	Unknown
Region:	07
Industry:	Metal Coating
ECHO Facility Report:	https://echo.epa.gov/detailed-facility-report?fid=110060259269
Facility Percent Minority:	45.028
Facility Derived Tribes:	-
Facility Population:	1042.95
EPA Programs:	-
Federal Facility:	Yes
Federal Agency:	-
Facility FIPS Code:	29095
Facility Indian Country Flag:	N
Facility Collection Method:	ADDRESS MATCHING-HOUSE NUMBER
Facility Derived HUC:	10300101
Facility Derived WBD:	103001010201
Facility Derived CD113:	05
Facility Derived CB2010:	290950134053006
Facility Major Flag:	-
Facility Active Flag:	Y
Facility Inspection Count:	0
Facility Date Last Inspection:	-
Facility Days Last Inspection:	-
Facility Informal Count:	0
Facility Date Last Informal Action:	-
Facility Formal Action Count:	0
Facility Date Last Formal Action:	-
Facility Total Penalties:	0
Facility Penalty Count:	-
Facility Date Last Penalty:	-
Facility Last Penalty AMT:	-
Facility QTRS With NC:	-
Facility Programs With SNC:	0
Facility Compliance Status:	-
Facility SNC Flag:	N
AIR Flag:	N
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	N
TRI Flag:	Y

U.S. DOE'S KANSAS CITY NATIONAL SECURITY CAMPUS (KCNSC) (Continued) **1027432220**

GHG Flag:	N
AIR IDS:	-
CAA Permit Types:	-
CAA NAICS:	-
CAA SICS:	-
NPDES IDS:	-
CWA Permit Types:	-
CWA NAICS:	-
CWA SICS:	-
RCRA IDS:	-
RCRA Permit Types:	-
RCRA NAICS:	-
SDWA IDS:	-
SDWA System Types:	-
SDWA Compliance Status:	-
SDWA SNC Flag:	N
TRI IDS:	6414WNTNLS1452B
TRI Releases Transfers:	4439
TRI On Site Releases:	15
TRI Off Site Transfers:	4,424
TRI Reporter:	Y
Facility IMP Water Flag:	-
EJSCREEN Flag US:	Y
EJSCREEN Report:	https://ejscreen.epa.gov/mapper/mobile/EJSCREEN_mobile.aspx?geometry=%7B%22x%22:-94.546406,%22y%22:38.863392,%22spatialReference%22:%7B%22wkid%22:4326%7D%7D&unit=9035&areatype=&areaid=&basemap=streets&distance=1

---

7 **FRONTIER BAG INC** **RCRA-SQG 1000322304**
ESE **5720 E HWY 150** **US AIRS MOD067928986**
< 1/8 **KANSAS CITY, MO 64147**
0.036 mi.
190 ft.

Relative: **Higher**

Actual: **979 ft.**

RCRA Listings:

Date Form Received by Agency:	20220526
Handler Name:	Frontier Bag Inc
Handler Address:	5720 E HWY 150
Handler City,State,Zip:	KANSAS CITY, MO 64147-1003
EPA ID:	MOD067928986
Contact Name:	JASON GOOLSBY
Contact Address:	PO BOX 200
Contact City,State,Zip:	GRANDVIEW, MO 64030-0200
Contact Telephone:	816-765-4811
Contact Email:	JGOOLSBY@FRONTIERBAG.COM
Contact Title:	MANAGER
EPA Region:	07
Land Type:	Private
Federal Waste Generator Description:	Small Quantity Generator
Active Site Indicator:	Handler Activities
Mailing Address:	PO BOX 200
Mailing City,State,Zip:	GRANDVIEW, MO 64030-0200
Owner Name:	Frontier Bag Inc
Owner Type:	Private
Operator Name:	Frontier Bag Inc
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No

FRONTIER BAG INC (Continued) **1000322304**

Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Hazardous Secondary Material Indicator:	N
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Handler Date of Last Change:	20230302
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D002
Waste Description:	CORROSIVE WASTE
Waste Code:	D005
Waste Description:	BARIUM
Waste Code:	D007
Waste Description:	CHROMIUM
Waste Code:	D008
Waste Description:	LEAD
Waste Code:	D009
Waste Description:	MERCURY
Waste Code:	F003

FRONTIER BAG INC (Continued) **1000322304**

Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F005
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Handler - Owner Operator:
Owner/Operator Indicator: Operator
Owner/Operator Name: RON GURLEY
Legal Status: Private
Date Became Current: 20040823
Owner/Operator Address: BOX 200
Owner/Operator City,State,Zip: GRANDVIEW, MO 64030
Owner/Operator Telephone: 816-765-4811

Owner/Operator Indicator: Operator
Owner/Operator Name: FRONTIER BAG INC
Legal Status: Private
Date Became Current: 20071019
Owner/Operator Address: 5720 E HWY 150
Owner/Operator City,State,Zip: KANSAS CITY, MO 64116
Owner/Operator Telephone: 816-765-4811

Owner/Operator Indicator: Operator
Owner/Operator Name: FRONTIER BAG INC
Legal Status: Private
Date Became Current: 20071019
Owner/Operator Address: BOX 200
Owner/Operator City,State,Zip: GRANDVIEW, MO 64030-0200
Owner/Operator Telephone: 816-765-4811

Owner/Operator Indicator: Operator
Owner/Operator Name: FRONTIER BAG INC
Legal Status: Private
Date Became Current: 20071019
Owner/Operator Address: BOX 200
Owner/Operator City,State,Zip: GRANDVIEW, MO 64030-0200
Owner/Operator Telephone: 816-765-4811

Owner/Operator Indicator: Operator
Owner/Operator Name: RON GURLEY
Legal Status: Private
Date Became Current: 20040823

FRONTIER BAG INC (Continued) **1000322304**

Owner/Operator Address:	BOX 200
Owner/Operator City,State,Zip:	GRANDVIEW, MO 64030
Owner/Operator Telephone:	816-765-4811
Owner/Operator Indicator:	Owner
Owner/Operator Name: GURLEY, RONALD	
Legal Status:	Private
Owner/Operator Address:	BOX 200
Owner/Operator City,State,Zip:	GRANDVIEW, MO 64030
Owner/Operator Telephone:	816-765-4811
Owner/Operator Indicator:	Operator
Owner/Operator Name: FRONTIER BAG INC	
Legal Status:	Private
Date Became Current:	20071019
Owner/Operator Address:	BOX 200
Owner/Operator City,State,Zip:	GRANDVIEW, MO 64030
Owner/Operator Telephone:	816-765-4811
Owner/Operator Indicator:	Owner
Owner/Operator Name: FRONTIER BAG INC	
Legal Status:	Private
Date Became Current:	20071019
Owner/Operator Address:	BOX 200
Owner/Operator City,State,Zip:	GRANDVIEW, MO 64030-0200
Owner/Operator Telephone:	816-765-4811
Owner/Operator Indicator:	Owner
Owner/Operator Name: FRONTIER BAG INC	
Legal Status:	Private
Date Became Current:	20071019
Owner/Operator Address:	BOX 200
Owner/Operator City,State,Zip:	GRANDVIEW, MO 64030-0200
Owner/Operator Telephone:	816-765-4811
Owner/Operator Indicator:	Owner
Owner/Operator Name: FRONTIER BAG INC	
Legal Status:	Private
Date Became Current:	20071019
Owner/Operator Address:	PO BOX 200
Owner/Operator City,State,Zip:	GRANDVIEW, MO 64030-0200
Owner/Operator Telephone:	816-765-4811
Owner/Operator Indicator:	Owner
Owner/Operator Name: RON GURLEY	
Legal Status:	Private
Owner/Operator Address:	BOX 200
Owner/Operator City,State,Zip:	GRANDVIEW, MO 64030
Owner/Operator Telephone:	816-765-4811
Owner/Operator Indicator:	Owner
Owner/Operator Name: RON GURLEY	
Legal Status:	Private
Owner/Operator Address:	BOX 200
Owner/Operator City,State,Zip:	GRANDVIEW, MO 64030
Owner/Operator Telephone:	816-765-4811

FRONTIER BAG INC (Continued) **1000322304**

Owner/Operator Indicator: Owner
Owner/Operator Name: FRONTIER BAG INC
Legal Status: Private
Date Became Current: 20071019
Owner/Operator Address: BOX 200
Owner/Operator City,State,Zip: GRANDVIEW, MO 64030
Owner/Operator Telephone: 816-765-4811

Owner/Operator Indicator: Operator
Owner/Operator Name: FRONTIER BAG INC
Legal Status: Private
Date Became Current: 20071019
Owner/Operator Address: PO BOX 200
Owner/Operator City,State,Zip: GRANDVIEW, MO 64030-0200
Owner/Operator Telephone: 816-765-4811

Owner/Operator Indicator: Owner
Owner/Operator Name: FRONTIER BAG INC
Legal Status: Private
Date Became Current: 20071019
Owner/Operator Address: 5720 E HWY 150
Owner/Operator City,State,Zip: KANSAS CITY, MO 64116
Owner/Operator Telephone: 816-765-4811

Historic Generators:
Receive Date: 20110609
Handler Name: FRONTIER BAG INC
Federal Waste Generator Description: Small Quantity Generator
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No

Receive Date: 20170622
Handler Name: FRONTIER BAG INC
Federal Waste Generator Description: Small Quantity Generator
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No

Receive Date: 20220526
Handler Name: FRONTIER BAG INC
Federal Waste Generator Description: Small Quantity Generator
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

FRONTIER BAG INC (Continued) **1000322304**

Receive Date:	19970818
Handler Name: FRONTIER BAG INC	
Federal Waste Generator Description:	Small Quantity Generator
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No

Receive Date:	20020125
Handler Name: FRONTIER BAG INC	
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No

Receive Date:	20040823
Handler Name: FRONTIER BAG INC	
Federal Waste Generator Description:	Small Quantity Generator
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No

Receive Date:	20070727
Handler Name: FRONTIER BAG INC	
Federal Waste Generator Description:	Small Quantity Generator
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No

Receive Date:	20071019
Handler Name: FRONTIER BAG INC	
Federal Waste Generator Description:	Small Quantity Generator
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No

Receive Date:	20220517
Handler Name: FRONTIER BAG INC	
Federal Waste Generator Description:	Small Quantity Generator
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No

FRONTIER BAG INC (Continued) **1000322304**

Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 323111
NAICS Description: COMMERCIAL GRAVURE PRINTING

NAICS Code: 326111
NAICS Description: PLASTICS BAG AND POUCH MANUFACTURING

Has the Facility Received Notices of Violations:
Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Universal Waste - Small Quantity Handlers
Date Violation was Determined: 20220325
Actual Return to Compliance Date: 20220513
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Enforcement Identifier: 3
Date of Enforcement Action: 20220411
Enforcement Responsible Agency: State
Corrective Action Component: No
Enforcement Responsible Person: MO-UM

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 20170718
Actual Return to Compliance Date: 20170728
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Enforcement Identifier: 2
Date of Enforcement Action: 20170801
Enforcement Responsible Agency: State
Corrective Action Component: No
Enforcement Responsible Person: MO-SA

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 20220325
Actual Return to Compliance Date: 20220513
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Enforcement Identifier: 3
Date of Enforcement Action: 20220411
Enforcement Responsible Agency: State
Corrective Action Component: No
Enforcement Responsible Person: MO-UM

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD IS-Preparedness and Prevention
Date Violation was Determined: 20220325

FRONTIER BAG INC (Continued) **1000322304**

Actual Return to Compliance Date:	20220513
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Enforcement Identifier:	3
Date of Enforcement Action:	20220411
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Responsible Person:	MO-UM
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Manifest
Date Violation was Determined:	20070516
Actual Return to Compliance Date:	20070731
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20070516
Actual Return to Compliance Date:	20070731
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20011009
Actual Return to Compliance Date:	20011009
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20011009
Actual Return to Compliance Date:	20011009
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Listing - General
Date Violation was Determined:	20170718
Actual Return to Compliance Date:	20170718
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Enforcement Identifier:	2
Date of Enforcement Action:	20170801
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Responsible Person:	MO-SA
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Universal Waste - Small Quantity Handlers

FRONTIER BAG INC (Continued) **1000322304**

Date Violation was Determined:	20220325
Actual Return to Compliance Date:	20220513
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Enforcement Identifier:	3
Date of Enforcement Action:	20220411
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Responsible Person:	MO-UM
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20070516
Actual Return to Compliance Date:	20070731
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20220325
Actual Return to Compliance Date:	20220513
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Enforcement Identifier:	3
Date of Enforcement Action:	20220411
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Responsible Person:	MO-UM
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20170718
Actual Return to Compliance Date:	20170718
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Enforcement Identifier:	2
Date of Enforcement Action:	20170801
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Responsible Person:	MO-SA
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD IS-Preparedness and Prevention
Date Violation was Determined:	20220325
Actual Return to Compliance Date:	20220513
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Enforcement Identifier:	3
Date of Enforcement Action:	20220411
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Responsible Person:	MO-UM

FRONTIER BAG INC (Continued) **1000322304**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Universal Waste - Small Quantity Handlers
Date Violation was Determined:	20220325
Actual Return to Compliance Date:	20220513
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Enforcement Identifier:	3
Date of Enforcement Action:	20220411
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Responsible Person:	MO-UM

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20070516
Actual Return to Compliance Date:	20070731
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20220325
Actual Return to Compliance Date:	20220513
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Enforcement Identifier:	3
Date of Enforcement Action:	20220411
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Responsible Person:	MO-UM

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Listing - General
Date Violation was Determined:	20220325
Actual Return to Compliance Date:	20220513
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Enforcement Identifier:	3
Date of Enforcement Action:	20220411
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Responsible Person:	MO-UM

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20070516
Actual Return to Compliance Date:	20070731
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State

Found Violation:	Yes
Agency Which Determined Violation:	State

FRONTIER BAG INC (Continued) **1000322304**

Violation Short Description:	Generators - General
Date Violation was Determined:	19890609
Actual Return to Compliance Date:	19890623
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19890626
Enforcement Identifier:	001
Date of Enforcement Action:	19890609
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Type:	WRITTEN INFORMAL

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20220325
Actual Return to Compliance Date:	20220513
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Enforcement Identifier:	3
Date of Enforcement Action:	20220411
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Responsible Person:	MO-UM

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20070516
Actual Return to Compliance Date:	20070731
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20170718
Actual Return to Compliance Date:	20170718
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Enforcement Identifier:	2
Date of Enforcement Action:	20170801
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Responsible Person:	MO-SA

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19890609
Actual Return to Compliance Date:	19890623
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19890626
Enforcement Identifier:	001
Date of Enforcement Action:	19890609
Enforcement Responsible Agency:	State

FRONTIER BAG INC (Continued) **1000322304**

Corrective Action Component: No
Enforcement Type: WRITTEN INFORMAL

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 20170718
Actual Return to Compliance Date: 20170718
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Enforcement Identifier: 2
Date of Enforcement Action: 20170801
Enforcement Responsible Agency: State
Corrective Action Component: No
Enforcement Responsible Person: MO-SA

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: TSD IS-Preparedness and Prevention
Date Violation was Determined: 20220325
Actual Return to Compliance Date: 20220513
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Enforcement Identifier: 3
Date of Enforcement Action: 20220411
Enforcement Responsible Agency: State
Corrective Action Component: No
Enforcement Responsible Person: MO-UM

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Listing - General
Date Violation was Determined: 20070516
Actual Return to Compliance Date: 20070731
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19890609
Actual Return to Compliance Date: 19890623
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19890626
Enforcement Identifier: 001
Date of Enforcement Action: 19890609
Enforcement Responsible Agency: State
Corrective Action Component: No
Enforcement Type: WRITTEN INFORMAL

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 20070516
Actual Return to Compliance Date: 20070731
Return to Compliance Qualifier: Documented

FRONTIER BAG INC (Continued) **1000322304**

Violation Responsible Agency:	State
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20070516
Actual Return to Compliance Date:	20070731
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20220325
Actual Return to Compliance Date:	20220513
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Enforcement Identifier:	3
Date of Enforcement Action:	20220411
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Responsible Person:	MO-UM
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20170718
Actual Return to Compliance Date:	20170724
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Enforcement Identifier:	2
Date of Enforcement Action:	20170801
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Responsible Person:	MO-SA
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20220325
Actual Return to Compliance Date:	20220513
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Enforcement Identifier:	3
Date of Enforcement Action:	20220411
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Responsible Person:	MO-UM
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20170718
Actual Return to Compliance Date:	20170718
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Enforcement Identifier:	2

FRONTIER BAG INC (Continued) **1000322304**

Date of Enforcement Action:	20170801
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Responsible Person:	MO-SA
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20070516
Actual Return to Compliance Date:	20070731
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20220325
Actual Return to Compliance Date:	20220513
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Enforcement Identifier:	3
Date of Enforcement Action:	20220411
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Responsible Person:	MO-UM
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Universal Waste - Small Quantity Handlers
Date Violation was Determined:	20220325
Actual Return to Compliance Date:	20220513
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Enforcement Identifier:	3
Date of Enforcement Action:	20220411
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Responsible Person:	MO-UM
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20011009
Actual Return to Compliance Date:	20011009
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20070516
Actual Return to Compliance Date:	20070731
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Found Violation:	Yes
Agency Which Determined Violation:	State

FRONTIER BAG INC (Continued) **1000322304**

Violation Short Description:	Universal Waste - Small Quantity Handlers
Date Violation was Determined:	20170718
Actual Return to Compliance Date:	20170725
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Enforcement Identifier:	2
Date of Enforcement Action:	20170801
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Responsible Person:	MO-SA
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD IS-Preparedness and Prevention
Date Violation was Determined:	20220325
Actual Return to Compliance Date:	20220513
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Enforcement Identifier:	3
Date of Enforcement Action:	20220411
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Responsible Person:	MO-UM
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20011009
Actual Return to Compliance Date:	20011009
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20070516
Actual Return to Compliance Date:	20070731
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Used Oil - Generators
Date Violation was Determined:	20070516
Actual Return to Compliance Date:	20070731
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20170718
Actual Return to Compliance Date:	20170725
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Enforcement Identifier:	2
Date of Enforcement Action:	20170801

FRONTIER BAG INC (Continued) **1000322304**

Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Responsible Person:	MO-SA
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD IS-Container Use and Management
Date Violation was Determined:	20220325
Actual Return to Compliance Date:	20220513
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Enforcement Identifier:	3
Date of Enforcement Action:	20220411
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Responsible Person:	MO-UM
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20011009
Actual Return to Compliance Date:	20011009
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State

Evaluation Action Summary:

Evaluation Date:	20220325
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-UM
Actual Return to Compliance Date:	20220513
Evaluation Date:	20170718
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-SA
Actual Return to Compliance Date:	20170728
Evaluation Date:	20220325
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-UM
Actual Return to Compliance Date:	20220513
Evaluation Date:	20220325
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-UM
Actual Return to Compliance Date:	20220513
Evaluation Date:	20070516
Evaluation Responsible Agency:	State
Found Violation:	Yes

FRONTIER BAG INC (Continued) **1000322304**

Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20070731
Evaluation Date:	20070516
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20070731
Evaluation Date:	20011009
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MOJMK
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20011009
Evaluation Date:	20011009
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MOJMK
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20011009
Evaluation Date:	20170718
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-SA
Actual Return to Compliance Date:	20170718
Evaluation Date:	20220325
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-UM
Actual Return to Compliance Date:	20220513
Evaluation Date:	20070516
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20070731
Evaluation Date:	20220325
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-UM
Actual Return to Compliance Date:	20220513
Evaluation Date:	20170718
Evaluation Responsible Agency:	State

FRONTIER BAG INC (Continued) **1000322304**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-SA
Actual Return to Compliance Date:	20170718
Evaluation Date:	20220325
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-UM
Actual Return to Compliance Date:	20220513
Evaluation Date:	20220325
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-UM
Actual Return to Compliance Date:	20220513
Evaluation Date:	20070516
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20070731
Evaluation Date:	20220325
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-UM
Actual Return to Compliance Date:	20220513
Evaluation Date:	20220325
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-UM
Actual Return to Compliance Date:	20220513
Evaluation Date:	20070516
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20070731
Evaluation Date:	19890609
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MOKG
Actual Return to Compliance Date:	19890623
Scheduled Compliance Date:	19890626
Evaluation Date:	20220325
Evaluation Responsible Agency:	State

FRONTIER BAG INC (Continued) **1000322304**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-UM
Actual Return to Compliance Date:	20220513
Evaluation Date:	20070516
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20070731
Evaluation Date:	20170718
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-SA
Actual Return to Compliance Date:	20170718
Evaluation Date:	19890609
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MOKG
Actual Return to Compliance Date:	19890623
Scheduled Compliance Date:	19890626
Evaluation Date:	20170718
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-SA
Actual Return to Compliance Date:	20170718
Evaluation Date:	20220325
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-UM
Actual Return to Compliance Date:	20220513
Evaluation Date:	20070516
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20070731
Evaluation Date:	19890609
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MOKG
Actual Return to Compliance Date:	19890623
Scheduled Compliance Date:	19890626
Evaluation Date:	20070516

FRONTIER BAG INC (Continued) **1000322304**

Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20070731
Evaluation Date:	20070516
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20070731
Evaluation Date:	20220325
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-UM
Actual Return to Compliance Date:	20220513
Evaluation Date:	20170718
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-SA
Actual Return to Compliance Date:	20170724
Evaluation Date:	20220325
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-UM
Actual Return to Compliance Date:	20220513
Evaluation Date:	20170718
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-SA
Actual Return to Compliance Date:	20170718
Evaluation Date:	20070516
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20070731
Evaluation Date:	20220325
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-UM
Actual Return to Compliance Date:	20220513
Evaluation Date:	20220325
Evaluation Responsible Agency:	State

FRONTIER BAG INC (Continued) **1000322304**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-UM
Actual Return to Compliance Date:	20220513
Evaluation Date:	20011009
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MOJMK
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20011009
Evaluation Date:	20070516
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20070731
Evaluation Date:	20170718
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-SA
Actual Return to Compliance Date:	20170725
Evaluation Date:	20220325
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-UM
Actual Return to Compliance Date:	20220513
Evaluation Date:	20011009
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MOJMK
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20011009
Evaluation Date:	20070516
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20070731
Evaluation Date:	20070516
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20070731
Evaluation Date:	20170718

FRONTIER BAG INC (Continued) **1000322304**

Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: MO-SA
Actual Return to Compliance Date: 20170725

Evaluation Date: 20220325
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: MO-UM
Actual Return to Compliance Date: 20220513

Evaluation Date: 20011009
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: MOJMK
Evaluation Responsible Sub-Organization: ENF
Actual Return to Compliance Date: 20011009

US AIRS MINOR:
Envid: 1000322304
Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Primary SIC Code: 2759
NAICS Code: 323112
Default Air Classification Code: MIN
Facility Type of Ownership Code: POF

US AIRS MINOR:
Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1993-10-27 00:00:00
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1995-02-27 00:00:00
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR

FRONTIER BAG INC (Continued) **1000322304**

Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1995-11-21 00:00:00
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1996-12-11 00:00:00
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1997-11-19 00:00:00
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1998-09-08 00:00:00
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1999-11-08 00:00:00
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2000-08-01 00:00:00
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Region Code: 07

FRONTIER BAG INC (Continued) **1000322304**

Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2001-09-04 00:00:00
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2003-01-03 00:00:00
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2004-03-10 00:00:00
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2004-11-17 00:00:00
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-11-21 00:00:00
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2006-01-03 00:00:00
Activity Group: Compliance Monitoring

FRONTIER BAG INC (Continued) **1000322304**

Activity Type: Inspection/Evaluation

Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2007-01-11 00:00:00
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-02-04 00:00:00
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-02-17 00:00:00
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-11-10 00:00:00
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-10-24 00:00:00
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR
Default Air Classification Code: MIN

FRONTIER BAG INC (Continued) **1000322304**

Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2014-08-25 00:00:00
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation

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8 **FRONTIER BAG INCORPORATED** **PFAS ECHO** **1027361963**
East **N/A**
< 1/8 **KANSAS CITY, MO**
0.060 mi.
315 ft.

Relative: **Higher**

Actual: **976 ft.**

PFAS ECHO:

Name:	FRONTIER BAG INCORPORATED
City,State,Zip:	KANSAS CITY, MO
Latitude:	38.86114
Longitude:	-94.53003
Count:	1
County:	JACKSON
Status:	Active
Region:	07
Industry:	Printing
ECHO Facility Report:	https://echo.epa.gov/detailed-facility-report?fid=110018002212
Facility Percent Minority:	43.905
Facility Derived Tribes:	-
Facility Population:	1176.39
EPA Programs:	CAA; RCRA
Federal Facility:	No
Federal Agency:	-
Facility FIPS Code:	29095
Facility Indian Country Flag:	N
Facility Collection Method:	GPS CARRIER PHASE STATIC RELATIVE POSITION
Facility Derived HUC:	10300101
Facility Derived WBD:	103001010201
Facility Derived CD113:	05
Facility Derived CB2010:	290950134053003
Facility Major Flag:	-
Facility Active Flag:	Y
Facility Inspection Count:	1
Facility Date Last Inspection:	3/25/2022
Facility Days Last Inspection:	365
Facility Informal Count:	1
Facility Date Last Informal Action:	4/11/2022
Facility Formal Action Count:	0
Facility Date Last Formal Action:	-
Facility Total Penalties:	0
Facility Penalty Count:	-
Facility Date Last Penalty:	-
Facility Last Penalty AMT:	-
Facility QTRS With NC:	2
Facility Programs With SNC:	0
Facility Compliance Status:	No Violation Identified
Facility SNC Flag:	N
AIR Flag:	Y
NPDES Flag:	N
SDWIS Flag:	N
RCRA Flag:	Y
TRI Flag:	N

FRONTIER BAG INCORPORATED (Continued) **1027361963**

GHG Flag:	N
AIR IDS:	MO0000002909502063
CAA Permit Types:	Minor Emissions
CAA NAICS:	323112
CAA SICS:	2759
NPDES IDS:	-
CWA Permit Types:	-
CWA NAICS:	-
CWA SICS:	-
RCRA IDS:	MOD067928986
RCRA Permit Types:	SQG
RCRA NAICS:	323111
SDWA IDS:	-
SDWA System Types:	-
SDWA Compliance Status:	-
SDWA SNC Flag:	N
TRI IDS:	-
TRI Releases Transfers:	-
TRI On Site Releases:	-
TRI Off Site Transfers:	-
TRI Reporter:	-
Facility IMP Water Flag:	-
EJSCREEN Flag US:	Y
EJSCREEN Report:	https://ejscreen.epa.gov/mapper/mobile/EJSCREEN_mobile.aspx?geometry=%7B%22x%22:-94.53003,%22y%22:38.86114,%22spatialReference%22:%7B%22wkid%22:4326%7D%7D&unit=9035&areatype=&areaid=&basemap=streets&distance=1

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9 **RICHARDS GEBAUR AIR FORCE BASE** **SEMS 1000481425**
WSW **HWY 150 & US 71 HWY** **ROD MO9571824292**
< 1/8 **BELTON, MO 64012**
0.067 mi.
352 ft.

Relative:
Higher

Actual:
1005 ft.

SEMS:

Site ID:	0701793
EPA ID:	MO9571824292
Name:	RICHARDS GEBAUR AIR FORCE BASE
Address:	HWY 150 & US 71 HWY
City,State,Zip:	BELTON, MO 64012
Cong District:	04
FIPS Code:	29037
Latitude:	38.858658
Longitude:	-94.545406
FF:	Y
NPL:	Not on the NPL
Non NPL Status:	Referred to Removal - NFRAP

SEMS Detail:

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	00
Action Code:	TY
Action Name:	FF SI REV
SEQ:	1

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

Start Date:	1996-11-01 05:00:00
Finish Date:	1996-11-01 05:00:00
Qual:	N
Current Action Lead:	EPA Perf In-Hse
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	00
Action Code:	MA
Action Name:	ST COOP
SEQ:	1
Start Date:	1997-10-01 04:00:00
Finish Date:	2001-09-30 04:00:00
Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	00
Action Code:	DS
Action Name:	DISCVRY
SEQ:	1
Start Date:	1981-07-22 04:00:00
Finish Date:	1981-07-22 04:00:00
Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	00
Action Code:	SI
Action Name:	SI
SEQ:	2
Start Date:	1998-01-23 05:00:00
Finish Date:	1998-01-23 05:00:00
Qual:	W
Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	03
Action Code:	RS
Action Name:	RV ASSESS

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

SEQ: 1
Start Date: 1998-01-13 05:00:00
Finish Date: 1998-01-13 05:00:00
Current Action Lead: EPA Perf

Region: 07
Site ID: 0701793
EPA ID: MO9571824292
Site Name: RICHARDS GEBAUR AIR FORCE BASE
NPL: N
FF: Y
OU: 03
Action Code: LV
Action Name: FF RV
SEQ: 2
Start Date: 2001-12-21 05:00:00
Finish Date: 2003-02-04 05:00:00
Qual: C
Current Action Lead: Fed Fac

Region: 07
Site ID: 0701793
EPA ID: MO9571824292
Site Name: RICHARDS GEBAUR AIR FORCE BASE
NPL: N
FF: Y
OU: 02
Action Code: LY
Action Name: FF RA
SEQ: 2
Start Date: 2002-08-01 04:00:00
Current Action Lead: Fed Fac

Region: 07
Site ID: 0701793
EPA ID: MO9571824292
Site Name: RICHARDS GEBAUR AIR FORCE BASE
NPL: N
FF: Y
OU: 02
Action Code: NI
Action Name: FF FS
SEQ: 1
Start Date: 2002-08-30 04:00:00
Finish Date: 2004-09-23 04:00:00
Current Action Lead: Fed Fac

Region: 07
Site ID: 0701793
EPA ID: MO9571824292
Site Name: RICHARDS GEBAUR AIR FORCE BASE
NPL: N
FF: Y
OU: 01
Action Code: LW
Action Name: FF RI/FS
SEQ: 1

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

Start Date:	2002-08-30 04:00:00
Finish Date:	2004-09-23 04:00:00
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	1
Start Date:	2001-09-10 04:00:00
Finish Date:	2002-08-30 04:00:00
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	03
Action Code:	NH
Action Name:	FF RI
SEQ:	2
Start Date:	1997-07-01 04:00:00
Finish Date:	1998-11-01 05:00:00
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	00
Action Code:	LZ
Action Name:	FF CR
SEQ:	1
Start Date:	1994-03-01 05:00:00
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	00
Action Code:	SI
Action Name:	SI
SEQ:	1
Start Date:	1988-03-01 05:00:00

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

Finish Date:	1989-12-19 05:00:00
Qual:	W
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	1984-09-01 05:00:00
Finish Date:	1984-09-30 05:00:00
Qual:	L
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	30
Start Date:	2002-04-02 05:00:00
Finish Date:	2002-08-22 04:00:00
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	3
Start Date:	1996-01-01 05:00:00
Finish Date:	1999-12-30 05:00:00
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	NH

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

Action Name:	FF RI
SEQ:	5
Start Date:	1990-07-01 04:00:00
Finish Date:	1990-07-01 04:00:00
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	14
Start Date:	2000-07-25 04:00:00
Finish Date:	2000-10-02 04:00:00
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	25
Start Date:	2000-03-09 05:00:00
Finish Date:	2000-05-19 04:00:00
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	26
Start Date:	2000-02-15 05:00:00
Finish Date:	2001-03-24 05:00:00
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

OU:	02
Action Code:	LV
Action Name:	FF RV
SEQ:	27
Start Date:	2000-02-07 05:00:00
Finish Date:	2000-04-06 04:00:00
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	28
Start Date:	1999-12-16 05:00:00
Finish Date:	2000-03-01 05:00:00
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	4
Start Date:	1999-12-28 05:00:00
Finish Date:	1999-12-28 05:00:00
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	02
Action Code:	LV
Action Name:	FF RV
SEQ:	5
Start Date:	1991-11-08 05:00:00
Finish Date:	1992-02-01 05:00:00
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	00
Action Code:	EE
Action Name:	EE/CA
SEQ:	1
Start Date:	2001-06-01 04:00:00
Finish Date:	2001-06-01 04:00:00
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	17
Start Date:	2002-02-11 05:00:00
Finish Date:	2002-06-27 04:00:00
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	39
Start Date:	1995-06-14 04:00:00
Finish Date:	1995-07-05 04:00:00
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	03
Action Code:	EE
Action Name:	EE/CA
SEQ:	2
Start Date:	2002-08-01 04:00:00
Finish Date:	2002-09-20 04:00:00
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	18
Start Date:	2002-02-12 05:00:00
Finish Date:	2002-05-29 04:00:00
Qual:	C
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	15
Start Date:	2000-02-24 05:00:00
Finish Date:	2000-05-23 04:00:00
Qual:	C
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	16
Start Date:	2002-02-01 05:00:00
Finish Date:	2002-03-15 05:00:00
Qual:	C
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	RO
Action Name:	ROD
SEQ:	1
Start Date:	2004-09-23 04:00:00
Finish Date:	2004-09-23 04:00:00
Current Action Lead:	Fed Fac

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	03
Action Code:	LV
Action Name:	FF RV
SEQ:	40
Start Date:	2002-09-01 04:00:00
Finish Date:	2003-12-10 05:00:00
Qual:	C
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	EE
Action Name:	EE/CA
SEQ:	3
Start Date:	2001-07-19 04:00:00
Finish Date:	2001-07-19 04:00:00
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	23
Start Date:	2002-02-12 05:00:00
Finish Date:	2002-05-29 04:00:00
Qual:	C
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	24
Start Date:	2001-11-27 05:00:00
Finish Date:	2002-08-22 04:00:00
Qual:	C

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	02
Action Code:	LV
Action Name:	FF RV
SEQ:	31
Start Date:	2001-11-06 05:00:00
Finish Date:	2002-05-29 04:00:00
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	36
Start Date:	2000-02-07 05:00:00
Finish Date:	2000-04-05 04:00:00
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	03
Action Code:	LV
Action Name:	FF RV
SEQ:	37
Start Date:	1997-09-15 04:00:00
Finish Date:	1997-09-17 04:00:00
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	6

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

Start Date:	2001-07-17 04:00:00
Finish Date:	2001-12-19 05:00:00
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	7
Start Date:	2001-11-09 05:00:00
Finish Date:	2002-06-21 04:00:00
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	02
Action Code:	LV
Action Name:	FF RV
SEQ:	8
Start Date:	2002-02-28 05:00:00
Finish Date:	2002-03-16 05:00:00
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	02
Action Code:	LV
Action Name:	FF RV
SEQ:	9
Start Date:	1993-06-17 04:00:00
Finish Date:	1993-10-04 04:00:00
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	02

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

Action Code:	LV
Action Name:	FF RV
SEQ:	10
Start Date:	1993-01-02 05:00:00
Finish Date:	1993-12-31 05:00:00
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	02
Action Code:	LV
Action Name:	FF RV
SEQ:	11
Start Date:	1988-01-02 05:00:00
Finish Date:	1995-12-31 05:00:00
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	12
Start Date:	2002-02-08 05:00:00
Finish Date:	2002-02-26 05:00:00
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	13
Start Date:	2000-01-17 05:00:00
Finish Date:	2000-09-19 04:00:00
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

NPL:	N
FF:	Y
OU:	03
Action Code:	LV
Action Name:	FF RV
SEQ:	38
Start Date:	2001-01-12 05:00:00
Finish Date:	2003-12-10 05:00:00
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	00
Action Code:	AE
Action Name:	RE-USE P
SEQ:	1
Start Date:	1994-09-23 04:00:00
Finish Date:	1994-09-23 04:00:00
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	41
Start Date:	1995-09-21 04:00:00
Finish Date:	1995-09-29 04:00:00
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	33
Start Date:	1993-10-29 04:00:00
Finish Date:	1993-10-29 04:00:00
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	34
Start Date:	1991-01-02 05:00:00
Finish Date:	1991-12-31 05:00:00
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	35
Start Date:	1995-07-05 04:00:00
Finish Date:	1995-07-28 04:00:00
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	00
Action Code:	LZ
Action Name:	FF CR
SEQ:	3
Start Date:	1983-03-31 05:00:00
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	19
Start Date:	2002-02-15 05:00:00
Finish Date:	2002-03-21 05:00:00
Qual:	C
Current Action Lead:	Fed Fac
Region:	07

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	20
Start Date:	2002-08-16 04:00:00
Finish Date:	2002-09-16 04:00:00
Qual:	C
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	32
Start Date:	2003-01-27 05:00:00
Finish Date:	2003-01-31 05:00:00
Qual:	C
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	NH
Action Name:	FF RI
SEQ:	3
Start Date:	2003-11-03 05:00:00
Finish Date:	2003-11-03 05:00:00
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	NH
Action Name:	FF RI
SEQ:	1
Start Date:	1991-10-01 04:00:00
Finish Date:	1991-10-01 04:00:00
Current Action Lead:	Fed Fac

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LY
Action Name:	FF RA
SEQ:	1
Start Date:	2002-08-01 04:00:00
Finish Date:	2007-09-19 04:00:00
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	42
Start Date:	2004-08-10 04:00:00
Finish Date:	2004-09-28 04:00:00
Qual:	C
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	21
Start Date:	2002-02-26 05:00:00
Finish Date:	2003-02-26 05:00:00
Qual:	C
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	22
Start Date:	1999-12-03 05:00:00
Finish Date:	2000-08-15 04:00:00
Qual:	C

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

Current Action Lead: Fed Fac

Region: 07
Site ID: 0701793
EPA ID: MO9571824292
Site Name: RICHARDS GEBAUR AIR FORCE BASE
NPL: N
FF: Y
OU: 02
Action Code: GM
Action Name: GWTRMON
SEQ: 1
Start Date: 2004-09-23 04:00:00
Current Action Lead: Fed Fac

Region: 07
Site ID: 0701793
EPA ID: MO9571824292
Site Name: RICHARDS GEBAUR AIR FORCE BASE
NPL: N
FF: Y
OU: 00
Action Code: PA
Action Name: PA
SEQ: 2
Start Date: 1984-07-19 05:00:00
Finish Date: 1984-07-19 05:00:00
Qual: L
Current Action Lead: St Perf

ROD:
Name: RICHARDS GEBAUR AIR FORCE BASE
Address: HWY 150 & US 71 HWY
City,State,Zip: BELTON, MO 64012
EPA ID: MO9571824292
RG: 7
Site ID: 701793
Action: FF ESD
Operable Unit Number: SOIL REMEDIATION
SEQ ID: 1
Action Completion: 2007-09-19 00:00:00
NPL Status: Not on the NPL
Non NPL Status: Referred to Removal - NFRAP

Name: RICHARDS GEBAUR AIR FORCE BASE
Address: HWY 150 & US 71 HWY
City,State,Zip: BELTON, MO 64012
EPA ID: MO9571824292
RG: 7
Site ID: 701793
Action: FF ROD (RCRA Statement of Basis/RTC)
Operable Unit Number: SOIL REMEDIATION
SEQ ID: 1
Action Completion: 2004-09-23 00:00:00
NPL Status: Not on the NPL
Non NPL Status: Referred to Removal - NFRAP

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

Name:	RICHARDS GEBAUR AIR FORCE BASE
Address:	HWY 150 & US 71 HWY
City,State,Zip:	BELTON, MO 64012
EPA ID:	MO9571824292
RG:	7
Site ID:	701793
Action:	FF ROD (RCRA Statement of Basis/RTC)
Operable Unit Number:	GROUNDWATER SITE SPECIFIC
SEQ ID:	3
Action Completion:	2004-09-23 00:00:00
NPL Status:	Not on the NPL
Non NPL Status:	Referred to Removal - NFRAP

10
ESE
< 1/8
0.095 mi.
502 ft.

HOLISTIC INDUSTRIES **RCRA-SQG** **1026833068**
14600 S HWY 71 **MOR000566208**
KANSAS CITY, MO 64147

Relative:
Lower

Actual:
971 ft.

RCRA Listings:

Date Form Received by Agency:	20221101
Handler Name:	Holistic Industries
Handler Address:	14600 S HWY 71
Handler City,State,Zip:	KANSAS CITY, MO 64147-1006
EPA ID:	MOR000566208
Contact Name:	KEVIN KOWITZ
Contact Address:	14600 S HWY 71
Contact City,State,Zip:	KANSAS CITY, MO 64147-1006
Contact Telephone:	410-340-5448
Contact Email:	KEVIN.KOWITZ@HOLISTICINDUSTRIES.COM
Contact Title:	FACILITY DIRECTOR
EPA Region:	07
Land Type:	Private
Federal Waste Generator Description:	Small Quantity Generator
Active Site Indicator:	Handler Activities
Mailing Address:	14600 S HWY 71
Mailing City,State,Zip:	KANSAS CITY, MO 64147-1006
Owner Name:	Josh Genderson
Owner Type:	Private
Operator Name:	Josh Genderson
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Hazardous Secondary Material Indicator:	N
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline

HOLISTIC INDUSTRIES (Continued) **1026833068**

202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Handler Date of Last Change:	20230302
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D002
Waste Description:	CORROSIVE WASTE
Waste Code:	D003
Waste Description:	REACTIVE WASTE
Waste Code:	D022
Waste Description:	CHLOROFORM

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: JOSH GENDERSON	
Legal Status:	Private
Date Became Current:	20200801
Owner/Operator Address:	1900 W PARK DR SUITE 280
Owner/Operator City,State,Zip:	WESTBORO, MA 01581-3919
Owner/Operator Telephone:	336-324-4316
Owner/Operator Indicator:	Operator
Owner/Operator Name: JOSH GENDERSON	
Legal Status:	Private
Date Became Current:	20200801
Owner/Operator Address:	1900 W PARK DR SUITE 280
Owner/Operator City,State,Zip:	WESTBORO, MA 01581-3919
Owner/Operator Telephone:	336-324-4316
Owner/Operator Indicator:	Owner
Owner/Operator Name: JOSH GENDERSON	
Legal Status:	Private
Date Became Current:	20200801

HOLISTIC INDUSTRIES (Continued) **1026833068**

Owner/Operator Address: 1900 W PARK DR SUITE 280
Owner/Operator City,State,Zip: WESTBORO, MA 01581-3919
Owner/Operator Telephone: 336-324-4316

Owner/Operator Indicator: Operator
Owner/Operator Name: JOSH GENDERSON
Legal Status: Private
Date Became Current: 20200801
Owner/Operator Address: 1900 W PARK DR SUITE 280
Owner/Operator City,State,Zip: WESTBORO, MA 01581-3919
Owner/Operator Telephone: 336-324-4316

Owner/Operator Indicator: Owner
Owner/Operator Name: JOSH GENDERSON
Legal Status: Private
Date Became Current: 20200801
Owner/Operator Address: 1900 W PARK DR SUITE 280
Owner/Operator City,State,Zip: WESTBORO, MA 01581-3919
Owner/Operator Telephone: 336-324-4316

Owner/Operator Indicator: Operator
Owner/Operator Name: JOSH GENDERSON
Legal Status: Private
Date Became Current: 20200801
Owner/Operator Address: 1900 W PARK DR SUITE 280
Owner/Operator City,State,Zip: WESTBORO, MA 01581-3919
Owner/Operator Telephone: 336-324-4316

Historic Generators:
Receive Date: 20210816
Handler Name: HOLISTIC INDUSTRIES
Federal Waste Generator Description: Small Quantity Generator
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 20210826
Handler Name: HOLISTIC INDUSTRIES
Federal Waste Generator Description: Small Quantity Generator
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 20221101
Handler Name: HOLISTIC INDUSTRIES
Federal Waste Generator Description: Small Quantity Generator
Large Quantity Handler of Universal Waste: No

HOLISTIC INDUSTRIES (Continued) **1026833068**

Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

List of NAICS Codes and Descriptions:

NAICS Code:	111419
NAICS Description:	OTHER FOOD CROPS GROWN UNDER COVER

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

11
NW
< 1/8
0.114 mi.
601 ft.

SIKA CORPORATION **RCRA-SQG 1004742121**
14201 BOTTS RD **FINDS MOR000038315**
GRANDVIEW, MO 64030 **ECHO**

Relative:
Higher

Actual:
1023 ft.

RCRA Listings:

Date Form Received by Agency:	20171006
Handler Name:	Sika Corp
Handler Address:	14201 BOTTS RD
Handler City,State,Zip:	GRANDVIEW, MO 64030-2863
EPA ID:	MOR000038315
Contact Name:	LAURALEE WELLS
Contact Address:	14201 BOTTS RD
Contact City,State,Zip:	GRANDVIEW, MO 64030-2863
Contact Telephone:	816-316-4316
Contact Email:	WELLS.LAURALEE@US.SIKA.COM
Contact Title:	MANAGER
EPA Region:	07
Land Type:	Private
Federal Waste Generator Description:	Small Quantity Generator
Active Site Indicator:	Handler Activities
Mailing Address:	14201 BOTTS RD
Mailing City,State,Zip:	GRANDVIEW, MO 64030-2863
Owner Name:	Sika Corp
Owner Type:	Private
Operator Name:	Sika Corp
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No

SIKA CORPORATION (Continued) **1004742121**

Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Hazardous Secondary Material Indicator:	NN
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Handler Date of Last Change:	20171013
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	F003
Waste Description:	THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Waste Code:	NONE
Waste Description:	Not Defined

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: SIKA CORP	
Legal Status:	Private
Owner/Operator Address:	201 POLITO AVE
Owner/Operator City,State,Zip:	LYNDHURST, NJ 07071
Owner/Operator Telephone:	201-933-8800

SIKA CORPORATION (Continued) **1004742121**

Owner/Operator Indicator:	Owner
Owner/Operator Name: SIKA CORP	
Legal Status:	Private
Owner/Operator Address:	14200 BOTTS RD
Owner/Operator City,State,Zip:	GRANDVIEW, MO 64030
Owner/Operator Indicator:	Owner
Owner/Operator Name: SIKA CORP	
Legal Status:	Private
Date Became Current:	20000313
Owner/Operator Address:	201 POLITO AVE
Owner/Operator City,State,Zip:	LYNDHURST, NJ 07071-3601
Owner/Operator Telephone:	201-933-8800
Owner/Operator Indicator:	Operator
Owner/Operator Name: SIKA CORP	
Legal Status:	Private
Date Became Current:	20000315
Owner/Operator Address:	201 POLITO AVE
Owner/Operator City,State,Zip:	LYNDHURST, NJ 07071
Owner/Operator Telephone:	201-933-8800
Owner/Operator Indicator:	Operator
Owner/Operator Name: SIKA CORPORATION	
Legal Status:	Private
Date Became Current:	20000313
Owner/Operator Address:	201 POLITO AVE
Owner/Operator City,State,Zip:	LYNDHURST, NJ 07071
Owner/Operator Telephone:	201-933-8800
Owner/Operator Indicator:	Operator
Owner/Operator Name: SIKA CORPORATION	
Legal Status:	Private
Date Became Current:	20000313
Owner/Operator Address:	201 POLITO AVE
Owner/Operator City,State,Zip:	LYNDHURST, NJ 07071
Owner/Operator Telephone:	201-933-8800
Owner/Operator Indicator:	Operator
Owner/Operator Name: SIKA CORP	
Legal Status:	Private
Date Became Current:	20000313
Owner/Operator Address:	201 POLITO AVE
Owner/Operator City,State,Zip:	LYNDHURST, NJ 07071-3601
Owner/Operator Telephone:	201-933-8800
Owner/Operator Indicator:	Owner
Owner/Operator Name: SIKA CORP	
Legal Status:	Private
Date Became Current:	20110411
Owner/Operator Address:	201 POLITO AVE
Owner/Operator City,State,Zip:	LYNDHURST, NJ 07071
Owner/Operator Telephone:	201-933-8800
Owner/Operator Indicator:	Owner
Owner/Operator Name: SIKA CORPORATION	

SIKA CORPORATION (Continued) **1004742121**

Legal Status: Private
Date Became Current: 20000313
Owner/Operator Address: 201 POLITO AVE
Owner/Operator City,State,Zip: LYNDHURST, NJ 07071
Owner/Operator Telephone: 201-933-8800

Owner/Operator Indicator: Owner
Owner/Operator Name: SIKA CORPORATION
Legal Status: Private
Date Became Current: 20000313
Owner/Operator Address: 201 POLITO AVE
Owner/Operator City,State,Zip: LYNDHURST, NJ 07071
Owner/Operator Telephone: 201-933-8800

Owner/Operator Indicator: Operator
Owner/Operator Name: SIKA CORP
Legal Status: Private
Date Became Current: 20110411
Owner/Operator Address: 201 POLITO AVE
Owner/Operator City,State,Zip: LYNDHURST, NJ 07071
Owner/Operator Telephone: 201-933-8800

Owner/Operator Indicator: Owner
Owner/Operator Name: NA
Legal Status: Private
Owner/Operator Address: NA
Owner/Operator City,State,Zip: NA

Historic Generators:
Receive Date: 20000621
Handler Name: SIKA CORP
Federal Waste Generator Description: Large Quantity Generator
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No

Receive Date: 19990923
Handler Name: SIKA CORP
Federal Waste Generator Description: Not a generator, verified
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No

Receive Date: 20000315
Handler Name: SIKA CORP
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No

SIKA CORPORATION (Continued) **1004742121**

Current Record:	No
Receive Date:	20110411
Handler Name: SIKA CORPORATION GRANDVIEW PLANT	
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Receive Date:	20150518
Handler Name: SIKA CORPORATION	
Federal Waste Generator Description:	Small Quantity Generator
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Receive Date:	20161003
Handler Name: SIKA CORP	
Federal Waste Generator Description:	Small Quantity Generator
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Receive Date:	20171006
Handler Name: SIKA CORP	
Federal Waste Generator Description:	Small Quantity Generator
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes

List of NAICS Codes and Descriptions:

NAICS Code:	32552
NAICS Description:	ADHESIVE MANUFACTURING
NAICS Code:	326291
NAICS Description:	RUBBER PRODUCT MANUFACTURING FOR MECHANICAL USE

Has the Facility Received Notices of Violations:

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20211202
Violation Responsible Agency:	State
Enforcement Identifier:	2

SIKA CORPORATION (Continued) **1004742121**

Date of Enforcement Action:	20211223
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Responsible Person:	MO-UM
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD IS-Preparedness and Prevention
Date Violation was Determined:	20211202
Violation Responsible Agency:	State
Enforcement Identifier:	2
Date of Enforcement Action:	20211223
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Responsible Person:	MO-UM
Found Violation:	No
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Used Oil - Generators
Date Violation was Determined:	20211202
Violation Responsible Agency:	State
Enforcement Identifier:	2
Date of Enforcement Action:	20211223
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Responsible Person:	MO-UM
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20000307
Actual Return to Compliance Date:	20000413
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Enforcement Identifier:	001
Date of Enforcement Action:	20000322
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	MODMB
Found Violation:	No
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20211202
Violation Responsible Agency:	State
Enforcement Identifier:	2
Date of Enforcement Action:	20211223
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Responsible Person:	MO-UM
Found Violation:	Yes

SIKA CORPORATION (Continued) **1004742121**

Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20211202
Violation Responsible Agency:	State
Enforcement Identifier:	2
Date of Enforcement Action:	20211223
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Responsible Person:	MO-UM

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD IS-Container Use and Management
Date Violation was Determined:	20211202
Violation Responsible Agency:	State
Enforcement Identifier:	2
Date of Enforcement Action:	20211223
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Responsible Person:	MO-UM

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20000307
Actual Return to Compliance Date:	20000413
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Enforcement Identifier:	001
Date of Enforcement Action:	20000322
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	MODMB

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20211202
Violation Responsible Agency:	State
Enforcement Identifier:	2
Date of Enforcement Action:	20211223
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Responsible Person:	MO-UM

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD IS-Preparedness and Prevention
Date Violation was Determined:	20211202
Violation Responsible Agency:	State
Enforcement Identifier:	2
Date of Enforcement Action:	20211223
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Responsible Person:	MO-UM

SIKA CORPORATION (Continued) **1004742121**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD IS-Preparedness and Prevention
Date Violation was Determined:	20211202
Violation Responsible Agency:	State
Enforcement Identifier:	2
Date of Enforcement Action:	20211223
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Responsible Person:	MO-UM

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20000307
Actual Return to Compliance Date:	20000413
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Enforcement Identifier:	001
Date of Enforcement Action:	20000322
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	MODMB

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20211202
Violation Responsible Agency:	State
Enforcement Identifier:	2
Date of Enforcement Action:	20211223
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Responsible Person:	MO-UM

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20211202
Violation Responsible Agency:	State
Enforcement Identifier:	2
Date of Enforcement Action:	20211223
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Responsible Person:	MO-UM

Found Violation:	No

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	TSD IS-Preparedness and Prevention
Date Violation was Determined:	20211202
Violation Responsible Agency:	State
Enforcement Identifier:	2
Date of Enforcement Action:	20211223
Enforcement Responsible Agency:	State

SIKA CORPORATION (Continued) **1004742121**

Corrective Action Component:	No
Enforcement Responsible Person:	MO-UM
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20211202
Violation Responsible Agency:	State
Enforcement Identifier:	2
Date of Enforcement Action:	20211223
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Responsible Person:	MO-UM

Evaluation Action Summary:

Evaluation Date:	20211202
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-UM
Evaluation Date:	20211202
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-UM
Evaluation Date:	20070727
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE ASSISTANCE VISIT
Evaluation Responsible Person Identifier:	MOCT
Evaluation Responsible Sub-Organization:	ENF
Evaluation Date:	20211202
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-UM
Evaluation Date:	20000307
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MODMB
Actual Return to Compliance Date:	20000413
Evaluation Date:	19990923
Evaluation Responsible Agency:	EPA
Found Violation:	No
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	R7RMV
Evaluation Date:	20211202
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE

SIKA CORPORATION (Continued) **1004742121**

Evaluation Responsible Person Identifier:	MO-UM
Evaluation Date:	20211202
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-UM
Evaluation Date:	20211202
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-UM
Evaluation Date:	20000307
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MODMB
Actual Return to Compliance Date:	20000413
Evaluation Date:	20211202
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-UM
Evaluation Date:	20211202
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-UM
Evaluation Date:	20211202
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-UM
Evaluation Date:	20000307
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MODMB
Actual Return to Compliance Date:	20000413
Evaluation Date:	20211202
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-UM
Evaluation Date:	20211202
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-UM

SIKA CORPORATION (Continued) **1004742121**

Evaluation Date:	20110411
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MOWRD
Evaluation Date:	20211202
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-UM
Evaluation Date:	20211202
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-UM

FINDS:
Registry ID: 110011092227

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
The MO-DNR (Missouri Department of Natural Resources) program involves a Resource Assessment and Monitoring Program, biological criteria development, monitoring of targeted sites to determine compliance with the designated use of aquatic life protection in the standards, monitoring for 303(3) purposes, and the development of a stream classification framework.
US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.
US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.
OSHA ESTABLISHMENT
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

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

ECHO:
Envid: 1004742121
Registry ID: 110011092227

SIKA CORPORATION (Continued) **1004742121**

DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110011092227
Name:	SIKA CORPORATION
Address:	14201 BOTTS RD
City,State,Zip:	GRANDVIEW, MO 64030

12
ENE
1/8-1/4
0.188 mi.
993 ft.

PAYLESS CASHWAYS INC
14330 S 71 HWY
KANSAS, MO 64147

RCRA NonGen / NLR **1004740816**
FINDS **MOD985817089**
ECHO

Relative:
Lower

Actual:
953 ft.

RCRA Listings:

Date Form Received by Agency:	20201218
Handler Name:	Payless Cashways Inc
Handler Address:	14330 S HWY 71
Handler City,State,Zip:	KANSAS CITY, MO 64147-1002
EPA ID:	MOD985817089
Contact Name:	WILLIAM CAUVEREN JR
Contact Address:	PO BOX 648001
Contact City,State,Zip:	LEES SUMMIT, MO 64064-8001
Contact Telephone:	816-234-6000
Contact Title:	MANAGER
EPA Region:	07
Land Type:	Private
Federal Waste Generator Description:	Not a generator, verified
Mailing Address:	PO BOX 648001
Mailing City,State,Zip:	LEES SUMMIT, MO 64064-8001
Owner Name:	Payless Cashways
Owner Type:	Private
Operator Name:	Payless Cashways
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Hazardous Secondary Material Indicator:	N
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No

PAYLESS CASHWAYS INC (Continued) **1004740816**

Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Handler Date of Last Change:	20210107
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D002
Waste Description:	CORROSIVE WASTE
Waste Code:	D003
Waste Description:	REACTIVE WASTE

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: PAYLESS CASHWAYS	
Legal Status:	Private
Date Became Current:	19920909
Owner/Operator Indicator:	Operator
Owner/Operator Name: PAYLESS CASHWAYS	
Legal Status:	Private
Date Became Current:	19920909
Owner/Operator Indicator:	Operator
Owner/Operator Name: PAYLESS CASHWAYS	
Legal Status:	Private
Date Became Current:	19920909
Owner/Operator Indicator:	Owner
Owner/Operator Name: PAYLESS CASHWAYS INC	
Legal Status:	Private
Owner/Operator Address:	NA
Owner/Operator City,State,Zip:	NA, MO
Owner/Operator Indicator:	Owner
Owner/Operator Name: PAYLESS CASHWAYS INC	
Legal Status:	Private
Owner/Operator Address:	NA
Owner/Operator City,State,Zip:	NA, MO
Owner/Operator Indicator:	Owner
Owner/Operator Name: PAYLESS CASHWAYS	
Legal Status:	Private
Date Became Current:	19920909

PAYLESS CASHWAYS INC (Continued) **1004740816**

Historic Generators:

Receive Date:		20021202
Handler Name:	PAYLESS CASHWAYS INC	
Federal Waste Generator Description:		Not a generator, verified
Large Quantity Handler of Universal Waste:		No
Recognized Trader Importer:		No
Recognized Trader Exporter:		No
Spent Lead Acid Battery Importer:		No
Spent Lead Acid Battery Exporter:		No
Current Record:		No

Receive Date:		20201208
Handler Name:	PAYLESS CASHWAYS INC	
Federal Waste Generator Description:		Not a generator, verified
Large Quantity Handler of Universal Waste:		No
Recognized Trader Importer:		No
Recognized Trader Exporter:		No
Spent Lead Acid Battery Importer:		No
Spent Lead Acid Battery Exporter:		No
Current Record:		No

Receive Date:		20201218
Handler Name:	PAYLESS CASHWAYS INC	
Federal Waste Generator Description:		Not a generator, verified
Large Quantity Handler of Universal Waste:		No
Recognized Trader Importer:		No
Recognized Trader Exporter:		No
Spent Lead Acid Battery Importer:		No
Spent Lead Acid Battery Exporter:		No
Current Record:		Yes

Receive Date:		19950901
Handler Name:	PAYLESS CASHWAYS INC	
Federal Waste Generator Description:		Conditionally Exempt Small Quantity Generator
Large Quantity Handler of Universal Waste:		No
Recognized Trader Importer:		No
Recognized Trader Exporter:		No
Spent Lead Acid Battery Importer:		No
Spent Lead Acid Battery Exporter:		No
Current Record:		No

Receive Date:		20000317
Handler Name:	PAYLESS CASHWAYS INC	
Federal Waste Generator Description:		Conditionally Exempt Small Quantity Generator
Large Quantity Handler of Universal Waste:		No
Recognized Trader Importer:		No
Recognized Trader Exporter:		No
Spent Lead Acid Battery Importer:		No
Spent Lead Acid Battery Exporter:		No
Current Record:		No

List of NAICS Codes and Descriptions:

NAICS Code:	44419
NAICS Description:	OTHER BUILDING MATERIAL DEALERS

NAICS Code:	52111

PAYLESS CASHWAYS INC (Continued) **1004740816**

NAICS Description: MONETARY AUTHORITIES-CENTRAL BANK

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110003972238

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
The MO-DNR (Missouri Department of Natural Resources) program involves a Resource Assessment and Monitoring Program, biological criteria development, monitoring of targeted sites to determine compliance with the designated use of aquatic life protection in the standards, monitoring for 303(3) purposes, and the development of a stream classification framework.
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

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

ECHO:

Envid:	1004740816
Registry ID:	110003972238
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110003972238
Name:	PAYLESS CASHWAYS INC
Address:	14330 S 71 HWY
City,State,Zip:	KANSAS, MO 64147

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13 **TRUE VALUE COMPANY** **RCRA-SQG** **1000631621**
SE **14900 S HWY 71** **LUST** **MOD985808427**
1/8-1/4 **KANSAS CITY, MO 64147** **UST**
0.230 mi. **SPILLS**
1212 ft.

Relative: **Lower**
Actual: **964 ft.**

RCRA Listings:

Date Form Received by Agency:	20191213
Handler Name:	True Value Company
Handler Address:	14900 S HWY 71
Handler City,State,Zip:	KANSAS CITY, MO 64147-1014
EPA ID:	MOD985808427
Contact Name:	RICHARD PREWITT
Contact Address:	14900 S 71 HWY
Contact City,State,Zip:	KANSAS CITY, MO 64147-1014
Contact Telephone:	816-348-6304
Contact Title:	OFFICE MANAGER
EPA Region:	07

TRUE VALUE COMPANY (Continued) **1000631621**

Land Type:	Private
Federal Waste Generator Description:	Small Quantity Generator
Active Site Indicator:	Handler Activities
Mailing Address:	14900 S 71 HWY
Mailing City,State,Zip:	KANSAS CITY, MO 64147-1014
Owner Name:	True Value Company
Owner Type:	Private
Operator Name:	True Value Company
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Hazardous Secondary Material Indicator:	N
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Handler Date of Last Change:	20200101
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D002
Waste Description:	CORROSIVE WASTE
Waste Code:	D005
Waste Description:	BARIUM

TRUE VALUE COMPANY (Continued) **1000631621**

Waste Code: D007
Waste Description: CHROMIUM

Waste Code: D008
Waste Description: LEAD

Waste Code: D009
Waste Description: MERCURY

Waste Code: D016
Waste Description: 2,4-D (2,4-DICHLOROPHENOXYACETIC ACID)

Waste Code: D018
Waste Description: BENZENE

Waste Code: D035
Waste Description: METHYL ETHYL KETONE

Waste Code: D039
Waste Description: TETRACHLOROETHYLENE

Waste Code: D040
Waste Description: TRICHLORETHYLENE

Waste Code: F001
Waste Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F002
Waste Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F003
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

TRUE VALUE COMPANY (Continued) **1000631621**

Waste Code: F005
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Handler - Owner Operator:

Owner/Operator Indicator: Owner
Owner/Operator Name: TRUE VALUE COMPANY
Legal Status: Private
Date Became Current: 20021226
Owner/Operator Address: 8600 W BRYN MAWR AVE
Owner/Operator City,State,Zip: CHICAGO, IL 60631-3505
Owner/Operator Telephone: 773-695-5000

Owner/Operator Indicator: Owner
Owner/Operator Name: TRUSERV
Legal Status: Private
Owner/Operator Address: 14900 S HWY 71
Owner/Operator City,State,Zip: KANSAS CITY, MO 64147
Owner/Operator Telephone: 816-331-7000

Owner/Operator Indicator: Operator
Owner/Operator Name: TRUE VALUE COMPANY
Legal Status: Private
Date Became Current: 20021226
Owner/Operator Address: 8600 W BRYN MAWR AVE
Owner/Operator City,State,Zip: CHICAGO, IL 60631-3505
Owner/Operator Telephone: 773-695-5000

Owner/Operator Indicator: Owner
Owner/Operator Name: TRUE VALUE CO
Legal Status: Private
Date Became Current: 20090706
Owner/Operator Address: 8600 W BRYN MAWR AVE
Owner/Operator City,State,Zip: CHICAGO, IL 60631-3505
Owner/Operator Telephone: 773-695-5000

Owner/Operator Indicator: Operator
Owner/Operator Name: TRUE VALUE COMPANY
Legal Status: Private
Date Became Current: 20021226
Owner/Operator Address: 8600 W BRYN MAWR AVE
Owner/Operator City,State,Zip: CHICAGO, IL 60631-3505
Owner/Operator Telephone: 773-695-5000

Owner/Operator Indicator: Operator
Owner/Operator Name: TRUE VALUE
Legal Status: Private
Date Became Current: 20050101
Owner/Operator Address: 14900 S HWY 71
Owner/Operator City,State,Zip: KANSAS CITY, MO 64147
Owner/Operator Telephone: 816-331-7000

TRUE VALUE COMPANY (Continued) **1000631621**

Owner/Operator Indicator: Operator
Owner/Operator Name: TRUE VALUE CO
Legal Status: Private
Date Became Current: 20090706
Owner/Operator Address: 8600 W BRYN MAWR AVE
Owner/Operator City,State,Zip: CHICAGO, IL 60631-3505
Owner/Operator Telephone: 773-695-5000

Owner/Operator Indicator: Owner
Owner/Operator Name: TRUE VALUE COMPANY
Legal Status: Private
Date Became Current: 20021226
Owner/Operator Address: 8600 W BRYN MAWR AVE
Owner/Operator City,State,Zip: CHICAGO, IL 60631-3505
Owner/Operator Telephone: 773-695-5000

Owner/Operator Indicator: Owner
Owner/Operator Name: TRUSERV
Legal Status: Private
Owner/Operator Address: 14900 S HWY 71
Owner/Operator City,State,Zip: KANSAS CITY, MO 64147
Owner/Operator Telephone: 816-331-7000

Owner/Operator Indicator: Owner
Owner/Operator Name: TRUE VALUE
Legal Status: Private
Date Became Current: 20050101
Owner/Operator Address: 14900 S HWY 71
Owner/Operator City,State,Zip: KANSAS CITY, MO 64147
Owner/Operator Telephone: 816-331-7000

Historic Generators:
Receive Date: 20090706
Handler Name: TRUE VALUE CO
Federal Waste Generator Description: Small Quantity Generator
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No

Receive Date: 20191125
Handler Name: TRUE VALUE COMPANY
Federal Waste Generator Description: Small Quantity Generator
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No

Receive Date: 20191213
Handler Name: TRUE VALUE COMPANY
Federal Waste Generator Description: Small Quantity Generator
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No

TRUE VALUE COMPANY (Continued) **1000631621**

Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes

Receive Date: 19990317
Handler Name: TRUSERV
Federal Waste Generator Description: Small Quantity Generator
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No

Receive Date: 20060828
Handler Name: TRUE VALUE
Federal Waste Generator Description: Small Quantity Generator
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No

List of NAICS Codes and Descriptions:
NAICS Code: 44413
NAICS Description: HARDWARE STORES

NAICS Code: 49311
NAICS Description: GENERAL WAREHOUSING AND STORAGE

Has the Facility Received Notices of Violations:
Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 20191114
Actual Return to Compliance Date: 20191126
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Enforcement Identifier: 1
Date of Enforcement Action: 20191125
Enforcement Responsible Agency: State
Corrective Action Component: No
Enforcement Responsible Person: MO-UM

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: LDR - General
Date Violation was Determined: 20090521
Actual Return to Compliance Date: 20090720
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Enforcement Identifier: 001
Date of Enforcement Action: 20090609
Enforcement Responsible Agency: State

TRUE VALUE COMPANY (Continued) **1000631621**

Corrective Action Component:	No
Enforcement Responsible Person:	MOCS
Enforcement Responsible Sub-Organization:	ENF
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20090521
Actual Return to Compliance Date:	20090720
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Enforcement Identifier:	001
Date of Enforcement Action:	20090609
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Responsible Person:	MOCS
Enforcement Responsible Sub-Organization:	ENF
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20090521
Actual Return to Compliance Date:	20090720
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Enforcement Identifier:	001
Date of Enforcement Action:	20090609
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Responsible Person:	MOCS
Enforcement Responsible Sub-Organization:	ENF
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20191114
Actual Return to Compliance Date:	20191115
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Enforcement Identifier:	1
Date of Enforcement Action:	20191125
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Responsible Person:	MO-UM
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Used Oil - Generators
Date Violation was Determined:	20191114
Actual Return to Compliance Date:	20191115
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Enforcement Identifier:	1
Date of Enforcement Action:	20191125
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Responsible Person:	MO-UM

TRUE VALUE COMPANY (Continued) **1000631621**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20090521
Actual Return to Compliance Date:	20090720
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Enforcement Identifier:	001
Date of Enforcement Action:	20090609
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Responsible Person:	MOCS
Enforcement Responsible Sub-Organization:	ENF

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20090521
Actual Return to Compliance Date:	20090720
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Enforcement Identifier:	001
Date of Enforcement Action:	20090609
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Responsible Person:	MOCS
Enforcement Responsible Sub-Organization:	ENF

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20090521
Actual Return to Compliance Date:	20090720
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Enforcement Identifier:	001
Date of Enforcement Action:	20090609
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Responsible Person:	MOCS
Enforcement Responsible Sub-Organization:	ENF

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20090521
Actual Return to Compliance Date:	20090720
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Enforcement Identifier:	001
Date of Enforcement Action:	20090609
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Responsible Person:	MOCS
Enforcement Responsible Sub-Organization:	ENF

TRUE VALUE COMPANY (Continued) **1000631621**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20191114
Actual Return to Compliance Date:	20191126
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Enforcement Identifier:	1
Date of Enforcement Action:	20191125
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Responsible Person:	MO-UM
Found Violation:	No
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20191114
Actual Return to Compliance Date:	20191126
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Enforcement Identifier:	1
Date of Enforcement Action:	20191125
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Responsible Person:	MO-UM
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20090521
Actual Return to Compliance Date:	20090720
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Enforcement Identifier:	001
Date of Enforcement Action:	20090609
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Responsible Person:	MOCS
Enforcement Responsible Sub-Organization:	ENF
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20090521
Actual Return to Compliance Date:	20090720
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Enforcement Identifier:	001
Date of Enforcement Action:	20090609
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Responsible Person:	MOCS
Enforcement Responsible Sub-Organization:	ENF
Found Violation:	Yes

TRUE VALUE COMPANY (Continued) **1000631621**

Agency Which Determined Violation:	State
Violation Short Description:	Generators - Manifest
Date Violation was Determined:	20090521
Actual Return to Compliance Date:	20090720
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Enforcement Identifier:	001
Date of Enforcement Action:	20090609
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Responsible Person:	MOCS
Enforcement Responsible Sub-Organization:	ENF

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20090521
Actual Return to Compliance Date:	20090720
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Enforcement Identifier:	001
Date of Enforcement Action:	20090609
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Responsible Person:	MOCS
Enforcement Responsible Sub-Organization:	ENF

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20090521
Actual Return to Compliance Date:	20090720
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Enforcement Identifier:	001
Date of Enforcement Action:	20090609
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Responsible Person:	MOCS
Enforcement Responsible Sub-Organization:	ENF

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20090521
Actual Return to Compliance Date:	20090720
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Enforcement Identifier:	001
Date of Enforcement Action:	20090609
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Responsible Person:	MOCS
Enforcement Responsible Sub-Organization:	ENF

Found Violation:	Yes
Agency Which Determined Violation:	State

TRUE VALUE COMPANY (Continued) **1000631621**

Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20090521
Actual Return to Compliance Date:	20090720
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Enforcement Identifier:	001
Date of Enforcement Action:	20090609
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Responsible Person:	MOCS
Enforcement Responsible Sub-Organization:	ENF
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20191114
Actual Return to Compliance Date:	20191126
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Enforcement Identifier:	1
Date of Enforcement Action:	20191125
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Responsible Person:	MO-UM
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Universal Waste - Small Quantity Handlers
Date Violation was Determined:	20191114
Actual Return to Compliance Date:	20191114
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Enforcement Identifier:	1
Date of Enforcement Action:	20191125
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Responsible Person:	MO-UM
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20090521
Actual Return to Compliance Date:	20090720
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Enforcement Identifier:	001
Date of Enforcement Action:	20090609
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Responsible Person:	MOCS
Enforcement Responsible Sub-Organization:	ENF
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20191114
Actual Return to Compliance Date:	20191126

TRUE VALUE COMPANY (Continued) **1000631621**

Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Enforcement Identifier:	1
Date of Enforcement Action:	20191125
Enforcement Responsible Agency:	State
Corrective Action Component:	No
Enforcement Responsible Person:	MO-UM
Found Violation:	No

Evaluation Action Summary:

Evaluation Date:	20191114
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-UM
Actual Return to Compliance Date:	20191126
Evaluation Date:	20090521
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MOCS
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20090720
Evaluation Date:	20090521
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MOCS
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20090720
Evaluation Date:	20090521
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MOCS
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20090720
Evaluation Date:	20191114
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-UM
Actual Return to Compliance Date:	20191115
Evaluation Date:	20191114
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-UM
Actual Return to Compliance Date:	20191115
Evaluation Date:	20090521

TRUE VALUE COMPANY (Continued) **1000631621**

Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MOCS
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20090720
Evaluation Date:	20090521
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MOCS
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20090720
Evaluation Date:	20090521
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MOCS
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20090720
Evaluation Date:	20090521
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MOCS
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20090720
Evaluation Date:	20191114
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-UM
Actual Return to Compliance Date:	20191126
Evaluation Date:	20061128
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE ASSISTANCE VISIT
Evaluation Responsible Person Identifier:	MO AS
Evaluation Responsible Sub-Organization:	ENF
Evaluation Date:	20191114
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-UM
Actual Return to Compliance Date:	20191126
Evaluation Date:	20090521
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MOCS

TRUE VALUE COMPANY (Continued) **1000631621**

Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20090720
Evaluation Date:	20090521
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MOCS
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20090720
Evaluation Date:	20090521
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MOCS
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20090720
Evaluation Date:	20090521
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MOCS
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20090720
Evaluation Date:	20090521
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MOCS
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20090720
Evaluation Date:	20090521
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MOCS
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20090720
Evaluation Date:	20090521
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MOCS
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20090720
Evaluation Date:	20191114
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-UM
Actual Return to Compliance Date:	20191126

TRUE VALUE COMPANY (Continued) **1000631621**

Evaluation Date:	20191114
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-UM
Actual Return to Compliance Date:	20191114

Evaluation Date:	20090521
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MOCS
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20090720

Evaluation Date:	20191114
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-UM
Actual Return to Compliance Date:	20191126

Evaluation Date:	20081023
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MOJC
Evaluation Responsible Sub-Organization:	ENF

LUST:

Name:	TRU SERV KANSAS CITY FACILITY
Address:	14900 US HWY 71
City,State,Zip:	KANSAS CITY, MO 64147
Facility ID:	ST0001980
Region:	KC - Kansas City Regional Office
Spill Number:	980603-1330-EEG
Release Date:	06/03/1998
Release Type:	UNDERGROUND STORAGE TANK
Date Cleanup Started:	06/01/1998
Date Cleanup Finished:	09/11/2000
Expedited:	No
Expenditures From The American Recovery and Reinvestment Act of 2009	No
Number Of Remediation Monitoring Wells:	0
Active:	No
Date Of NFA Letter From DNR:	**2000-09-11 00:00:00**
Remediation ID:	R006086
Emergeny Response Date:	06/03/1998
Emergency Cleanup Start:	06/03/1998
Contractor Performing Clean Up:	270
RBCA NFA:	No
Project Manager:	L
Date Added:	06/09/1998
Date Record Edited:	09/11/2000
Person Adding Or Editing Record:	KOON, K
Facility Sent To State Archive:	Yes

TRUE VALUE COMPANY (Continued) **1000631621**

Site Affectd By Funding Level From PSTIF: No
General Comments: 2/8/2000 JP approved work plan to gwm and further characterize extent of contamination. 9/11/2000 rev site characterization report and gw monitoring report (6/2/00). Analytical results indicate that contamination is not migrating and cannot be excavated due to buildings. Issued NoFA with stipulation that contamination should be cleaned up during any future development.

UST:
Facility ID: ST0001980
Region: KC
Easting: 367227.44
Northing: 4301860.54
Owner Of Geospatial Data: Hazardous Waste Program
Geospatial Data Collected By: VANCE, S
Date GIS Data Collected: 08/27/2013
Lat/Long: 38.84827 / -94.54586

Tanks:

Owner:
Owner ID: OW01724
Owner Name: COTTER & COMPANY
Owner Address: 2740 N CLYBOURN AVE
Owner City,St,Zip: CHICAGO, IL 60614
Owner Phone: 9752700
Mail Was Not Deliverable: No
Is Owner Active?: No
Date Record Added: 1995-06-30 00:00:00

Tank ID: 1
Tank Double Wall: 0
Tank Type: Below Ground
Tank Status: Removed
Tank Material: Fiberglass
Other Tank Internal Protection: I Lining SW1856
Date Tank Last Used: 05/02/1998
Date Tank Permanently Closed/ Removed: 06/04/1998
Tank Fees Waived: No
Expedite Closure On Tank?: No
Date Record Added: 06/30/1995
Date Of NFA Letter: 09/14/2000
Is Tank Used For Emergency Generator: No
Date Closure Notice Received: 04/27/1998
Date Of Aprroval Letter: 04/29/1998
Firm Closing Tank: MH ENVIRONMENTAL INC
Date Closure Report Received: 08/17/1998
LockOut Flag: No
Comments: Removed 2-10,000, 750, 300. NFA letter issued 9/14/2000 by K. Koon. JS

Tank Compartment:
Tanks Use: False
Compartment No: 1
Tank Compartment PK: 4937
Tank PK: 4937
Compartment Status: Removed

TRUE VALUE COMPANY (Continued) **1000631621**

Capacity:	10000
Substance:	Diesel
Mixture:	False
Date of Last Use:	1998-05-02 00:00:00
Pipe Material:	1
Pipe Double Wall:	0
Spill Protection:	False

Owner:

Owner ID:	OW01724
Owner Name:	COTTER & COMPANY
Owner Address:	2740 N CLYBOURN AVE
Owner City,St,Zip:	CHICAGO, IL 60614
Owner Phone:	9752700
Mail Was Not Deliverable:	No
Is Owner Active?:	No
Date Record Added:	1995-06-30 00:00:00

Tank ID:	2
Tank Double Wall:	0
Tank Type:	Below Ground
Tank Status:	**Removed**
Tank Material:	Fiberglass
Date Tank Last Used:	05/02/1998
Date Tank Permanently Closed/ Removed:	06/04/1998
Tank Fees Waived:	No
Expedite Closure On Tank?:	No
Date Record Added:	06/30/1995
Date Of NFA Letter:	09/14/2000
Is Tank Used For Emergency Generator:	No
Date Closure Notice Received:	04/27/1998
Date Of Aprroval Letter:	04/29/1998
Firm Closing Tank:	MH ENVIRONMENTAL INC
Date Closure Report Received:	08/17/1998
LockOut Flag:	No
Comments:	Removed 2-10,000, 750, 300. NFA letter issued 9/14/2000 by K. Koon. JS

Tank Compartment:

Tanks Use:	False
Compartment No:	1
Tank Compartment PK:	4938
Tank PK:	4938
Compartment Status:	Removed
Capacity:	10000
Substance:	Diesel
Mixture:	False
Date of Last Use:	1998-05-02 00:00:00
Pipe Material:	2
Pipe Double Wall:	0
Spill Protection:	False

Owner:

Owner ID:	OW01724
Owner Name:	COTTER & COMPANY

TRUE VALUE COMPANY (Continued) **1000631621**

Owner Address: 2740 N CLYBOURN AVE
Owner City,St,Zip: CHICAGO, IL 60614
Owner Phone: 9752700
Mail Was Not Deliverable: No
Is Owner Active?: No
Date Record Added: 1995-06-30 00:00:00

Tank ID: 3
Tank Double Wall: 0
Tank Type: Below Ground
Tank Status: Removed
Tank Material: Steel
Date Tank Last Used: 01/01/1991
Date Tank Permanently Closed/ Removed: 06/04/1998
Tank Fees Waived: No
Expedite Closure On Tank?: No
Date Record Added: 06/30/1995
Date Record Edited: 04/28/1998
Person Adding/Editing Record: N$PERRT
Date Of NFA Letter: 09/14/2000
Is Tank Used For Emergency Generator: No
Date Closure Notice Received: 04/27/1998
Date Of Aprroval Letter: 04/29/1998
Firm Closing Tank: MH ENVIRONMENTAL INC
Date Closure Report Received: 08/17/1998
LockOut Flag: No
Comments: Removed 2-10,000, 750, 300. NFA letter issued 9/14/2000 by K. Koon. JS

Tank Compartment:
Tanks Use: False
Compartment No: 1
Tank Compartment PK: 4939
Tank PK: 4939
Compartment Status: Removed
Capacity: 750
Substance: Other
Substance Other: P.NEW OIL
Mixture: False
Date of Last Use: 1991-01-01 00:00:00
Pipe Material: 1
Pipe Double Wall: 0
Spill Protection: False

Owner:
Owner ID: OW01724
Owner Name: COTTER & COMPANY
Owner Address: 2740 N CLYBOURN AVE
Owner City,St,Zip: CHICAGO, IL 60614
Owner Phone: 9752700
Mail Was Not Deliverable: No
Is Owner Active?: No
Date Record Added: 1995-06-30 00:00:00

Tank ID: 4

TRUE VALUE COMPANY (Continued) **1000631621**

Tank Double Wall:	0
Tank Type:	Below Ground
Tank Status:	**Removed**
Tank Material:	Steel
Date Tank Last Used:	01/01/1991
Date Tank Permanently Closed/ Removed:	06/04/1998
Tank Fees Waived:	No
Expedite Closure On Tank?:	No
Date Record Added:	06/30/1995
Date Record Edited:	04/28/1998
Person Adding/Editing Record:	N$PERRT
Date Of NFA Letter:	09/14/2000
Is Tank Used For Emergency Generator:	No
Date Closure Notice Received:	04/27/1998
Date Of Aprroval Letter:	04/29/1998
Firm Closing Tank:	MH ENVIRONMENTAL INC
Date Closure Report Received:	08/17/1998
LockOut Flag:	No
Comments:	Removed 2-10,000, 750, 300. NFA letter issued 9/14/2000 by K. Koon. JS

Tank Compartment:

Tanks Use:	False
Compartment No:	1
Tank Compartment PK:	4940
Tank PK:	4940
Compartment Status:	Removed
Capacity:	300
Substance:	Used Oil
Mixture:	False
Date of Last Use:	1991-01-01 00:00:00
Pipe System:	4
Pipe Material:	1
Pipe Double Wall:	0
Spill Protection:	False

Tank Aug 2011:

Facility Id:	ST0001980
Tank Id:	2
No Drinking Wells:	No
No Buildings:	No
Vapor Barrier:	0
St Louis Mo:	No
Special Well Area:	No
Surface Cap:	No
No Excavation:	No

Facility Id:	ST0001980
Tank Id:	3
No Drinking Wells:	No
No Buildings:	No
Vapor Barrier:	0
St Louis Mo:	No
Special Well Area:	No
Surface Cap:	No
No Excavation:	No

TRUE VALUE COMPANY (Continued) **1000631621**

Facility Id:	ST0001980
Tank Id:	4
No Drinking Wells:	No
No Buildings:	No
Vapor Barrier:	0
St Louis Mo:	No
Special Well Area:	No
Surface Cap:	No
No Excavation:	No

Facility Id:	ST0001980
Tank Id:	1
No Drinking Wells:	No
No Buildings:	No
Vapor Barrier:	0
St Louis Mo:	No
Special Well Area:	No
Surface Cap:	No
No Excavation:	No

SPILLS:

Address:	14900 HIGHWAY 71
City,State,Zip:	KANSAS CITY, MO
Facility ID:	9806031330EEG
Spill Number:	9806031330EEG
Reported Date:	06/03/1998
Reported Time:	13:30:00
Regional Office:	KCRO
Property Code:	8
Cause Sub Category:	4
Email:	False
Ongoing:	False
Is A Chemical Pickup Needed?:	False
Cause:	10
Contact Name:	Doug Goodman
Contact Phone #:	8163317000
Contact Id:	7820
Organization Name:	Tru Server KC Facility
Discovery Date:	06/02/1998
Incident Date:	06/02/1998
Date Of Incident Search:	06/02/1998
Cause Description:	Leaking Tank System
Report Origin:	69
Lead Agency:	Private - Responsible Party Contractor
Additional Information:	Spill Summary: CALLER REPORTS FINDING CONTAMINATION DURING THE REMOVAL OF UNDERGROUND STORAGE TANK'S. Response Summary: CALLER WILL COORDINATE A CLEAN UP WITH HWP/TANKS SECTION. Additional Information: UT - 0001980 NEW OIL - 1000 GALLON WASTE OIL - 500 GALLON
Entity Telephone:	8163317000
Property Code Description:	Distribution Facility

Cleanup Actions:

Spill Number:	9806031330EEG
Incident ID:	7820
Cleanup Action Code:	14
Cleanup Action Description:	Pending

TRUE VALUE COMPANY (Continued) **1000631621**

Report Distribution:
Spill Number: 9806031330EEG
Incident ID: 7820
Agent Code: 13
Agency: DNR - ERP - Leaking Underground ST Section

Count: 3 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
GRANDVIEW	U004248771	ROSE AUTO REPAIR	12630 US-71 FRONTAGE	64030	LUST, UST
KANSAS CITY	1027443454	US DOE KANSAS CITY NATIONAL SECURI	14901 ANDREWS ROAD	64147	SEMS
KANSAS CITY	1027443455	US DOE KANSAS CITY NATIONAL SECURI	14520 BOTTS ROAD	64147	SEMS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
MO	AIRS	Permit Facility Listing	Department of Natural Resources	11/01/2021	11/29/2021	02/24/2022
MO	ASBESTOS	Asbestos Notification Listing	Department of Natural Resources	01/03/2023	01/04/2023	03/21/2023
MO	AST	Aboveground Petroleum Storage Tanks	Department of Agriculture	05/26/2022	05/27/2022	08/11/2022
MO	AUL	Sites with Controls	Department of Natural Resources	10/10/2022	11/03/2022	01/24/2023
MO	BROWNFIELDS	Brownfields Site List	Department of Natural Resources	10/10/2022	11/03/2022	01/24/2023
MO	CDL	Environmental Emergency Response System	Department of Natural Resources	12/05/2022	12/05/2022	02/24/2023
MO	COAL ASH	Coal Ash Disposal Sites	Department of Natural Resources	01/03/2018	02/01/2018	03/22/2018
MO	DEL SHWS	Registry Sites Withdrawn or Deleted	Department of Natural Resources	09/12/2022	09/21/2022	12/08/2022
MO	DRYCLEANERS	Drycleaners in Missouri Listing	Department of Natural Resources	11/30/2017	12/13/2017	01/18/2018
MO	Financial Assurance 1	Financial Assurance Information Listing	Department of Natural Resources	11/27/2022	12/20/2022	03/15/2023
MO	Financial Assurance 2	Financial Assurance Information Listing	Department of Natural Resources	06/30/2021	09/01/2021	11/22/2021
MO	HIST LF	Solid Waste Facility Database List	Department of Natural Resources	04/12/2005	07/19/2006	08/18/2006
MO	HWS DETAIL	Registry Annual Report	Department of Natural Resources	06/30/2021	02/25/2022	05/20/2022
MO	LAST	Leaking Aboveground Storage Tanks	Department of Natural Resources	11/28/2022	12/05/2022	02/24/2023
MO	LUST	Leaking Underground Storage Tanks	Department of Natural Resources	11/28/2022	12/05/2022	02/24/2023
MO	MINES	Industrial Mineral Mines Database	Department of Natural Resources	04/30/2021	07/14/2021	10/07/2021
MO	NPDES	Permitted Facility Listing	Department of Natural Resources	12/28/2022	01/11/2023	03/30/2023
MO	PFAS	PFAS Detections	Department of Natural Resources	03/22/2022	03/22/2022	06/16/2022
MO	RGA HWS	Recovered Government Archive State Hazardous Waste Facilitie	Department of Natural Resources		07/01/2013	01/03/2014
MO	RGA LF	Recovered Government Archive Solid Waste Facilities List	Department of Natural Resources		07/01/2013	01/15/2014
MO	RGA LUST	Recovered Government Archive Leaking Underground Storage Tan	Department of Natural Resources		07/01/2013	01/03/2014
MO	RRC	Certified Hazardous Waste Resource Recovery Facilities	Department of Natural Resources	09/30/2020	10/06/2020	12/28/2020
MO	SHWS	Registry of Confirmed Abandoned or Uncontrolled Hazardous Wa	Department of Natural Resources	09/12/2022	09/21/2022	12/08/2022
MO	SMARS	Site Management and Reporting System	Department of Natural Resources	10/10/2022	10/24/2022	01/11/2023
MO	SPILLS	Environmental Response Tracking Database	Department of Natural Resources	12/05/2022	12/05/2022	02/24/2023
MO	SPILLS 90	SPILLS90 data from FirstSearch	FirstSearch	06/27/2012	01/03/2013	02/22/2013
MO	SWF/LF	Solid Waste Facility List	Department of Natural Resources	08/22/2022	08/22/2022	11/11/2022
MO	SWRCY	Solid Waste Recycling Facilities	Department of Natural Resources	03/16/2022	03/17/2022	06/10/2022
MO	TANKS	Underground Storage Tank Database	Department of Natural Resources	11/28/2022	12/05/2022	02/24/2023
MO	UIC	Underground Injection Wells Database	Department of Natural Resources	07/28/2022	08/15/2022	11/03/2022
MO	UST	Petroleum Storage Tanks	Department of Natural Resources	11/28/2022	12/05/2022	02/24/2023
MO	VCP	Sites Participating in the Voluntary Cleanup Program	Department of Natural Resources	10/10/2022	11/03/2022	01/24/2023
US	2020 COR ACTION	2020 Corrective Action Program List	Environmental Protection Agency	09/30/2017	05/08/2018	07/20/2018
US	ABANDONED MINES	Abandoned Mines	Department of Interior	12/20/2022	12/20/2022	03/10/2023
US	AQUEOUS FOAM NRC	Aqueous Foam Related Incidents Listing	Environmental Protection Agency	01/02/2023	01/05/2023	04/03/2023
US	BRS	Biennial Reporting System	EPA/NTIS	12/31/2021	03/09/2023	03/20/2023
US	COAL ASH DOE	Steam-Electric Plant Operation Data	Department of Energy	12/31/2020	11/30/2021	02/22/2022
US	COAL ASH EPA	Coal Combustion Residues Surface Impoundments List	Environmental Protection Agency	01/12/2017	03/05/2019	11/11/2019
US	CONSENT	Superfund (CERCLA) Consent Decrees	Department of Justice, Consent Decree Library	12/31/2022	01/12/2023	04/07/2023
US	CORRACTS	Corrective Action Report	EPA	03/06/2023	03/09/2023	03/20/2023
US	DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations	EPA, Region 9	01/12/2009	05/07/2009	09/21/2009
US	DOCKET HWC	Hazardous Waste Compliance Docket Listing	Environmental Protection Agency	05/06/2021	05/21/2021	08/11/2021
US	DOD	Department of Defense Sites	USGS	06/07/2021	07/13/2021	03/09/2022
US	DOT OPS	Incident and Accident Data	Department of Transporation, Office of Pipeli	01/02/2020	01/28/2020	04/17/2020
US	Delisted NPL	National Priority List Deletions	EPA	01/25/2023	02/02/2023	02/28/2023
US	ECHO	Enforcement & Compliance History Information	Environmental Protection Agency	01/01/2023	01/04/2023	04/03/2023
US	EDR Hist Auto	EDR Exclusive Historical Auto Stations	EDR, Inc.			

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	EDR Hist Cleaner	EDR Exclusive Historical Cleaners	EDR, Inc.			
US	EDR MGP	EDR Proprietary Manufactured Gas Plants	EDR, Inc.			
US	EPA WATCH LIST	EPA WATCH LIST	Environmental Protection Agency	08/30/2013	03/21/2014	06/17/2014
US	ERNS	Emergency Response Notification System	National Response Center, United States Coast	12/12/2022	12/14/2022	12/19/2022
US	FEDERAL FACILITY	Federal Facility Site Information listing	Environmental Protection Agency	12/20/2022	12/21/2022	03/10/2023
US	FEDLAND	Federal and Indian Lands	U.S. Geological Survey	04/02/2018	04/11/2018	11/06/2019
US	FEMA UST	Underground Storage Tank Listing	FEMA	10/14/2021	11/05/2021	02/01/2022
US	FINDS	Facility Index System/Facility Registry System	EPA	02/02/2023	02/28/2023	03/24/2023
US	FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu	EPA/Office of Prevention, Pesticides and Toxi	04/09/2009	04/16/2009	05/11/2009
US	FTTS INSP	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu	EPA	04/09/2009	04/16/2009	05/11/2009
US	FUDS	Formerly Used Defense Sites	U.S. Army Corps of Engineers	11/01/2022	11/10/2022	02/09/2023
US	FUELS PROGRAM	EPA Fuels Program Registered Listing	EPA	11/10/2022	11/10/2022	02/09/2023
US	FUSRAP	Formerly Utilized Sites Remedial Action Program	Department of Energy	07/26/2021	07/27/2021	10/22/2021
US	HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing	Environmental Protection Agency	10/19/2006	03/01/2007	04/10/2007
US	HIST FTTS INSP	FIFRA/TSCA Tracking System Inspection & Enforcement Case Lis	Environmental Protection Agency	10/19/2006	03/01/2007	04/10/2007
US	HMIRS	Hazardous Materials Information Reporting System	U.S. Department of Transportation	12/13/2022	12/14/2022	03/10/2023
US	ICIS	Integrated Compliance Information System	Environmental Protection Agency	11/18/2016	11/23/2016	02/10/2017
US	IHS OPEN DUMPS	Open Dumps on Indian Land	Department of Health & Human Serivces, Indian	04/01/2014	08/06/2014	01/29/2015
US	INDIAN LUST R1	Leaking Underground Storage Tanks on Indian Land	EPA Region 1	10/19/2022	12/06/2022	03/03/2023
US	INDIAN LUST R10	Leaking Underground Storage Tanks on Indian Land	EPA Region 10	04/20/2022	06/13/2022	08/16/2022
US	INDIAN LUST R4	Leaking Underground Storage Tanks on Indian Land	EPA Region 4	11/26/2022	12/06/2022	03/03/2023
US	INDIAN LUST R5	Leaking Underground Storage Tanks on Indian Land	EPA, Region 5	10/14/2022	12/06/2022	03/03/2023
US	INDIAN LUST R6	Leaking Underground Storage Tanks on Indian Land	EPA Region 6	11/23/2022	12/06/2022	03/03/2023
US	INDIAN LUST R7	Leaking Underground Storage Tanks on Indian Land	EPA Region 7	10/14/2022	12/06/2022	03/03/2023
US	INDIAN LUST R8	Leaking Underground Storage Tanks on Indian Land	EPA Region 8	11/23/2022	12/06/2022	03/03/2023
US	INDIAN LUST R9	Leaking Underground Storage Tanks on Indian Land	Environmental Protection Agency	11/23/2022	12/06/2022	03/03/2023
US	INDIAN ODI	Report on the Status of Open Dumps on Indian Lands	Environmental Protection Agency	12/31/1998	12/03/2007	01/24/2008
US	INDIAN RESERV	Indian Reservations	USGS	12/31/2014	07/14/2015	01/10/2017
US	INDIAN UST R1	Underground Storage Tanks on Indian Land	EPA, Region 1	10/19/2022	12/06/2022	03/03/2023
US	INDIAN UST R10	Underground Storage Tanks on Indian Land	EPA Region 10	04/20/2022	06/13/2022	08/16/2022
US	INDIAN UST R4	Underground Storage Tanks on Indian Land	EPA Region 4	11/23/2022	12/06/2022	03/03/2023
US	INDIAN UST R5	Underground Storage Tanks on Indian Land	EPA Region 5	10/14/2022	12/06/2022	03/03/2023
US	INDIAN UST R6	Underground Storage Tanks on Indian Land	EPA Region 6	11/23/2022	12/06/2022	03/03/2023
US	INDIAN UST R7	Underground Storage Tanks on Indian Land	EPA Region 7	10/14/2022	12/06/2022	03/03/2023
US	INDIAN UST R8	Underground Storage Tanks on Indian Land	EPA Region 8	11/23/2022	12/06/2022	03/03/2023
US	INDIAN UST R9	Underground Storage Tanks on Indian Land	EPA Region 9	11/23/2022	12/06/2022	03/03/2023
US	INDIAN VCP R1	Voluntary Cleanup Priority Listing	EPA, Region 1	07/27/2015	09/29/2015	02/18/2016
US	INDIAN VCP R7	Voluntary Cleanup Priority Lisitng	EPA, Region 7	03/20/2008	04/22/2008	05/19/2008
US	LEAD SMELTER 1	Lead Smelter Sites	Environmental Protection Agency	01/25/2023	02/02/2023	02/28/2023
US	LEAD SMELTER 2	Lead Smelter Sites	American Journal of Public Health	04/05/2001	10/27/2010	12/02/2010
US	LIENS 2	CERCLA Lien Information	Environmental Protection Agency	01/25/2023	02/02/2023	02/28/2023
US	LUCIS	Land Use Control Information System	Department of the Navy	11/02/2022	11/08/2022	01/10/2023
US	MINES MRDS	Mineral Resources Data System	USGS	08/23/2022	11/22/2022	02/28/2023
US	MINES VIOLATIONS	MSHA Violation Assessment Data	DOL, Mine Safety & Health Admi	02/27/2023	03/01/2023	03/24/2023
US	MLTS	Material Licensing Tracking System	Nuclear Regulatory Commission	10/26/2022	11/22/2022	12/05/2022
US	NPL	National Priority List	EPA	01/25/2023	02/03/2023	02/28/2023
US	NPL LIENS	Federal Superfund Liens	EPA	10/15/1991	02/02/1994	03/30/1994

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	ODI	Open Dump Inventory	Environmental Protection Agency	06/30/1985	08/09/2004	09/17/2004
US	PADS	PCB Activity Database System	EPA	11/03/2022	01/04/2023	04/03/2023
US	PCB TRANSFORMER	PCB Transformer Registration Database	Environmental Protection Agency	09/13/2019	11/06/2019	02/10/2020
US	PCS	Permit Compliance System	EPA, Office of Water	07/14/2011	08/05/2011	09/29/2011
US	PCS ENF	Enforcement data	EPA	12/31/2014	02/05/2015	03/06/2015
US	PCS INACTIVE	Listing of Inactive PCS Permits	EPA	11/05/2014	01/06/2015	05/06/2015
US	PFAS ATSDR	PFAS Contamination Site Location Listing	Department of Health & Human Services	06/24/2020	03/17/2021	11/08/2022
US	PFAS ECHO	Facilities in Industries that May Be Handling PFAS Listing	Environmental Protection Agency	03/30/2023	03/30/2023	04/03/2023
US	PFAS ECHO FIRE TRAINING	Facilities in Industries that May Be Handling PFAS Listing	Environmental Protection Agency	03/30/2023	03/30/2023	04/03/2023
US	PFAS FEDERAL SITES	Federal Sites PFAS Information	Environmental Protection Agency	03/30/2023	03/30/2023	04/07/2023
US	PFAS NPDES	Clean Water Act Discharge Monitoring Information	Environmental Protection Agency	03/30/2023	03/30/2023	04/07/2023
US	PFAS NPL	Superfund Sites with PFAS Detections Information	Environmental Protection Agency	02/23/2022	07/08/2022	11/08/2022
US	PFAS PART 139 AIRPORT	All Certified Part 139 Airports PFAS Information Listing	Environmental Protection Agency	03/30/2023	03/30/2023	04/03/2023
US	PFAS RCRA MANIFEST	PFAS Transfers Identified In the RCRA Database Listing	Environmental Protection Agency	01/03/2022	03/31/2022	11/08/2022
US	PFAS TRIS	List of PFAS Added to the TRI	Environmental Protection Agency	03/07/2023	03/07/2023	03/24/2023
US	PFAS TSCA	PFAS Manufacture and Imports Information	Environmental Protection Agency	01/03/2022	03/31/2022	11/08/2022
US	PFAS WQP	Ambient Environmental Sampling for PFAS	Environmental Protection Agency	01/03/2022	03/31/2022	11/08/2022
US	PRP	Potentially Responsible Parties	EPA	10/27/2022	11/01/2022	11/15/2022
US	Proposed NPL	Proposed National Priority List Sites	EPA	01/25/2023	02/02/2023	02/28/2023
US	RAATS	RCRA Administrative Action Tracking System	EPA	04/17/1995	07/03/1995	08/07/1995
US	RADINFO	Radiation Information Database	Environmental Protection Agency	07/01/2019	07/01/2019	09/23/2019
US	RCRA NonGen / NLR	RCRA - Non Generators / No Longer Regulated	Environmental Protection Agency	03/06/2023	03/09/2023	03/20/2023
US	RCRA-LQG	RCRA - Large Quantity Generators	Environmental Protection Agency	03/06/2023	03/09/2023	03/20/2023
US	RCRA-SQG	RCRA - Small Quantity Generators	Environmental Protection Agency	03/06/2023	03/09/2023	03/20/2023
US	RCRA-TSDF	RCRA - Treatment, Storage and Disposal	Environmental Protection Agency	03/06/2023	03/09/2023	03/20/2023
US	RCRA-VSQG	RCRA - Very Small Quantity Generators (Formerly Conditionall	Environmental Protection Agency	03/06/2023	03/09/2023	03/20/2023
US	RMP	Risk Management Plans	Environmental Protection Agency	04/27/2022	05/04/2022	05/10/2022
US	ROD	Records Of Decision	EPA	01/25/2023	02/02/2023	02/28/2023
US	SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing	Environmental Protection Agency	07/30/2021	02/03/2023	02/10/2023
US	SEMS	Superfund Enterprise Management System	EPA	01/25/2023	02/02/2023	02/28/2023
US	SEMS-ARCHIVE	Superfund Enterprise Management System Archive	EPA	01/25/2023	02/02/2023	02/28/2023
US	SSTS	Section 7 Tracking Systems	EPA	10/17/2022	10/18/2022	01/10/2023
US	TRIS	Toxic Chemical Release Inventory System	EPA	12/31/2021	11/01/2022	02/09/2023
US	TSCA	Toxic Substances Control Act	EPA	12/31/2020	06/14/2022	03/24/2023
US	UMTRA	Uranium Mill Tailings Sites	Department of Energy	08/30/2019	11/15/2019	01/28/2020
US	US AIRS (AFS)	Aerometric Information Retrieval System Facility Subsystem (	EPA	10/12/2016	10/26/2016	02/03/2017
US	US AIRS MINOR	Air Facility System Data	EPA	10/12/2016	10/26/2016	02/03/2017
US	US BROWNFIELDS	A Listing of Brownfields Sites	Environmental Protection Agency	02/23/2022	03/10/2022	03/10/2022
US	US CDL	Clandestine Drug Labs	Drug Enforcement Administration	01/06/2023	02/02/2023	02/10/2023
US	US ENG CONTROLS	Engineering Controls Sites List	Environmental Protection Agency	10/27/2022	11/16/2022	02/09/2023
US	US FIN ASSUR	Financial Assurance Information	Environmental Protection Agency	12/13/2022	12/14/2022	03/10/2023
US	US HIST CDL	National Clandestine Laboratory Register	Drug Enforcement Administration	01/06/2023	02/02/2023	02/10/2023
US	US INST CONTROLS	Institutional Controls Sites List	Environmental Protection Agency	10/27/2022	11/16/2022	02/09/2023
US	US MINES	Mines Master Index File	Department of Labor, Mine Safety and Health A	11/07/2022	11/17/2022	02/10/2023
US	US MINES 2	Ferrous and Nonferrous Metal Mines Database Listing	USGS	05/06/2020	05/27/2020	08/13/2020
US	US MINES 3	Active Mines & Mineral Plants Database Listing	USGS	04/14/2011	06/08/2011	09/13/2011
US	UXO	Unexploded Ordnance Sites	Department of Defense	11/09/2021	10/20/2022	01/10/2023

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
CT	CT MANIFEST	Hazardous Waste Manifest Data	Department of Energy & Environmental Protecti	11/16/2022	11/16/2022	02/06/2023
NY	NY MANIFEST	Facility and Manifest Data	Department of Environmental Conservation	01/01/2019	10/29/2021	01/19/2022
PA	PA MANIFEST	Manifest Information	Department of Environmental Protection	06/30/2018	07/19/2019	09/10/2019
RI	RI MANIFEST	Manifest information	Department of Environmental Management	12/31/2020	11/30/2021	02/18/2022
WI	WI MANIFEST	Manifest Information	Department of Natural Resources	05/31/2018	06/19/2019	09/03/2019
US	AHA Hospitals	Sensitive Receptor: AHA Hospitals	American Hospital Association, Inc.			
US	Medical Centers	Sensitive Receptor: Medical Centers	Centers for Medicare & Medicaid Services			
US	Nursing Homes	Sensitive Receptor: Nursing Homes	National Institutes of Health			
US	Public Schools	Sensitive Receptor: Public Schools	National Center for Education Statistics			
US	Private Schools	Sensitive Receptor: Private Schools	National Center for Education Statistics			
MO	Daycare Centers	Sensitive Receptor: Licensed Child Care Facilities	Department of Health & Senior Services			
US	Flood Zones	100-year and 500-year flood zones	Emergency Management Agency (FEMA)			
US	NWI	National Wetlands Inventory	U.S. Fish and Wildlife Service			
MO	State Wetlands	National Wetland Inventory of Missouri	Department of Natural Resources			
US	Topographic Map	Current USGS 7.5 Minute Topographic Map	U.S. Geological Survey			
US	Oil/Gas Pipelines		Endeavor Business Media			
US	Electric Power Transmission Line Data		Endeavor Business Media			

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

KCNEXT - BOTTS CAMPUS
14650 COLORADO
GRANDVIEW, MO 64030

TARGET PROPERTY COORDINATES

Latitude (North):	38.862054 - 38˚ 51' 43.39''
Longitude (West):	94.538364 - 94˚ 32' 18.11''
Universal Tranverse Mercator:	Zone 15
UTM X (Meters):	366525.2
UTM Y (Meters):	4302385.5
Elevation:	973 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	10295987 BELTON, MO
Version Date:	2017
North Map:	10296011 GRANDVIEW, MO
Version Date:	2017

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).

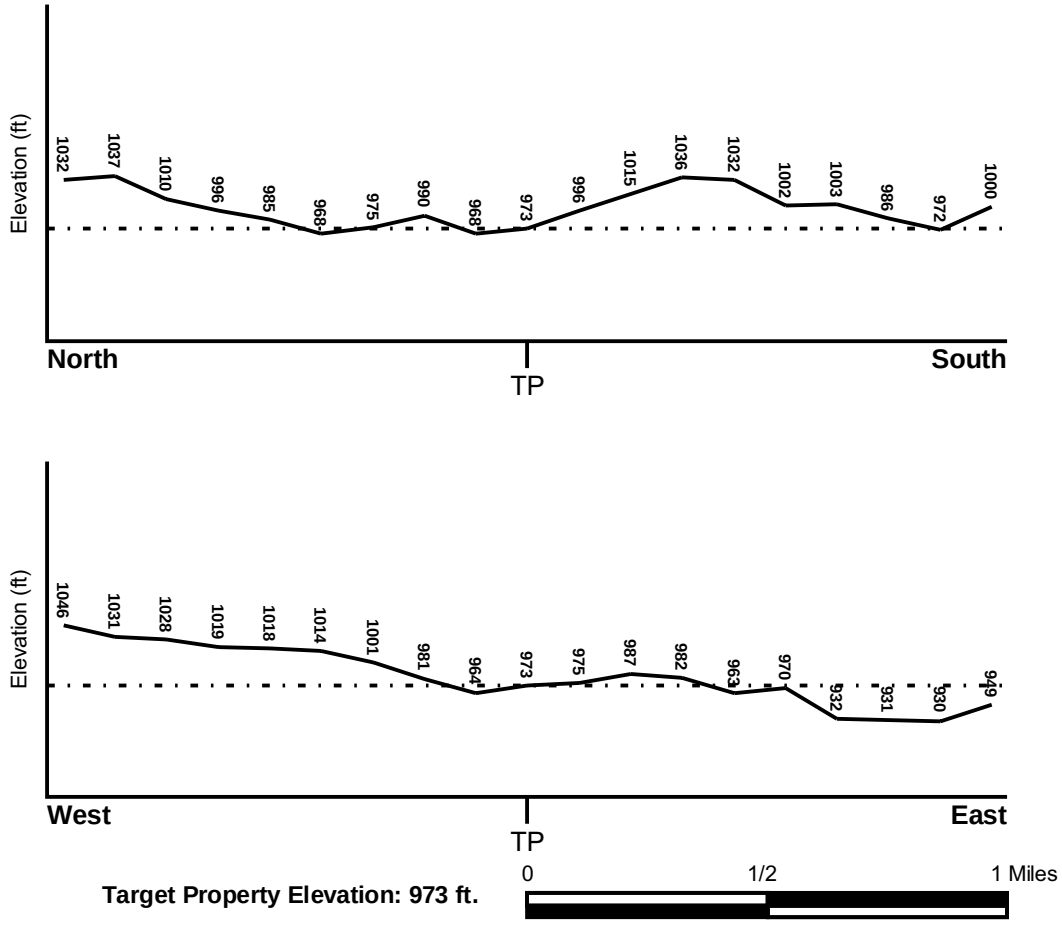
TOPOGRAPHIC INFORMATION

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 North

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

Flood Plain Panel at Target Property	FEMA Source Type
29095C0385F	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
29095C0270F	FEMA FIRM Flood data
29095C0382F	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
BELTON	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.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
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

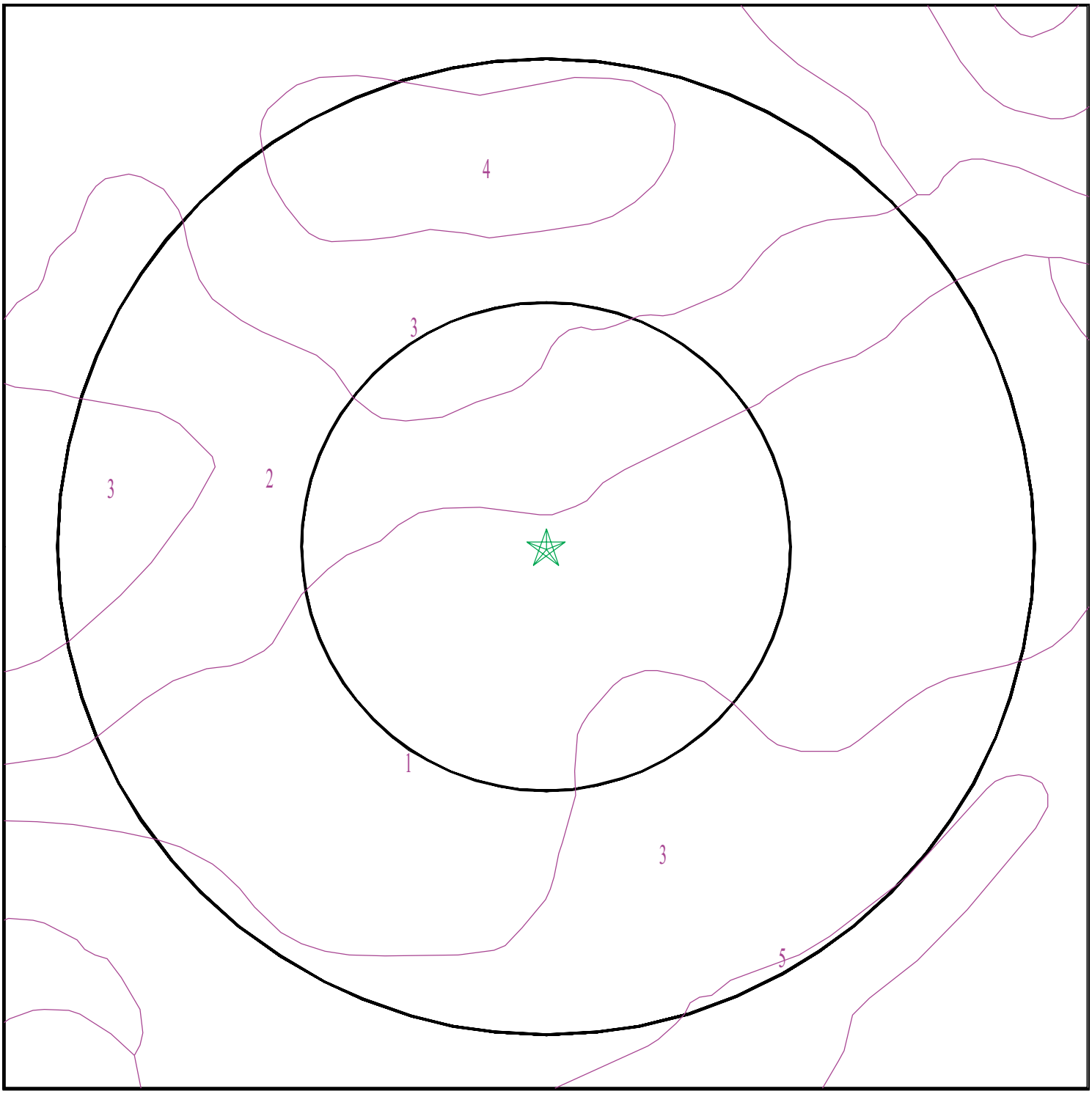
Era:	Paleozoic
System:	Pennsylvanian
Series:	Missourian Series
Code:	PP3 *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed 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 - 7303209.1s



SITE NAME:	KCNEXT - Botts Campus	CLIENT:	Terracon
ADDRESS:	14650 Colorado Grandview MO 64030	CONTACT:	Melissa Dowling
LAT/LONG:	38.862054 / 94.538364	INQUIRY #:	7303209.1s
		DATE:	April 10, 2023 9:20 am

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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: Sampsel

Soil Surface Texture: silty clay 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: Poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 23 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 7.8 Min: 5.6
2	5 inches	59 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 7.8 Min: 5.6

Soil Map ID: 2

Soil Component Name: Kennebec

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 122 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	18 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 7.3 Min: 6.1
2	18 inches	59 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 7.3 Min: 6.1

Soil Map ID: 3

Soil Component Name: Greenton

Soil Surface Texture: silty clay 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: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	16 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 7.8 Min: 6.6
2	16 inches	25 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 7.8 Min: 6.6
3	25 inches	59 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 7.8 Min: 6.6

Soil Map ID: 4

Soil Component Name: Sharpsburg

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	12 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 6.5 Min: 6.1
2	12 inches	20 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 6.5 Min: 6.1
3	20 inches	35 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 6.5 Min: 6.1
4	35 inches	46 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 6.5 Min: 6.1
5	46 inches	59 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 6.5 Min: 6.1

Soil Map ID: 5

Soil Component Name: Macksburg

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse 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: > 92 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	16 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 6.5 Min: 5.6
2	16 inches	42 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 6.5 Min: 5.6
3	42 inches	53 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 6.5 Min: 5.6
4	53 inches	59 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 6.5 Min: 5.6

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

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	USGS40000696617	1/2 - 1 Mile SSE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

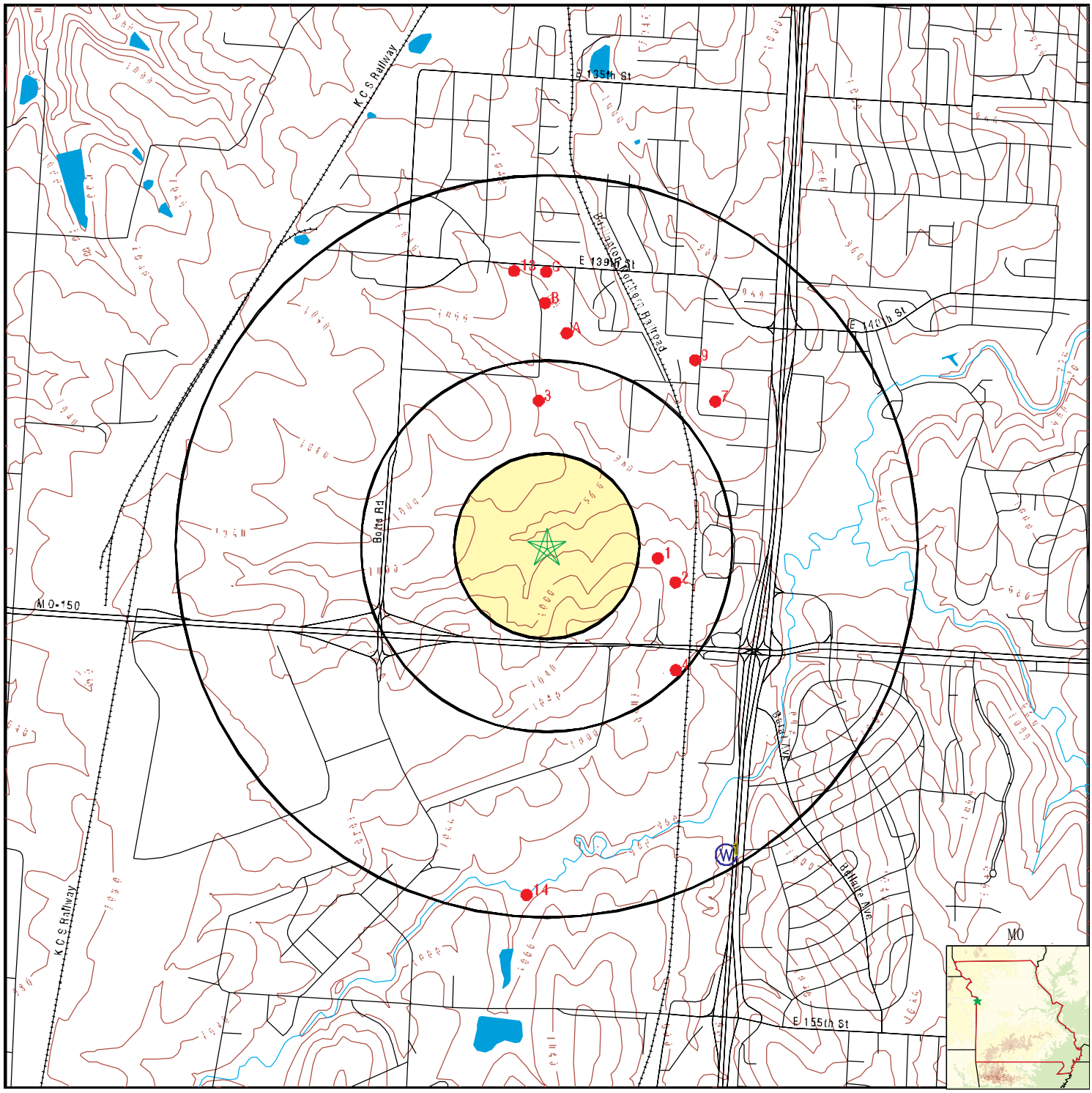
MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	MOOG60000006311	1/4 - 1/2 Mile East
2	MOOG60000006309	1/4 - 1/2 Mile ESE
3	MOOG60000004468	1/4 - 1/2 Mile North
4	MOOG60000004484	1/4 - 1/2 Mile SE
A5	MOOG60000005958	1/2 - 1 Mile North
A6	MOOG60000005957	1/2 - 1 Mile North
7	MOOG60000006295	1/2 - 1 Mile NE
B8	MOOG60000005956	1/2 - 1 Mile North
9	MOOG60000005775	1/2 - 1 Mile NE
B10	MOOG60000005744	1/2 - 1 Mile North
C11	MOOG60000005760	1/2 - 1 Mile North
C12	MOOG60000005762	1/2 - 1 Mile North
13	MOOG60000005761	1/2 - 1 Mile North
14	MOOG60000004485	1/2 - 1 Mile South

PHYSICAL SETTING SOURCE MAP - 7303209.1s



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

0 1/4 1/2 1 Miles

N

SITE NAME:	KCNEXT - Botts Campus	CLIENT:	Terracon
ADDRESS:	14650 Colorado Grandview MO 64030	CONTACT:	Melissa Dowling
		INQUIRY #:	7303209.1s
LAT/LONG:	38.862054 / 94.538364	DATE:	April 10, 2023 9:20 am

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
1 **SSE** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000696617**

Organization ID:	USGS-MO	Organization Name:	USGS Missouri Water Science Center
Monitor Location:	T47N R33W 35	Type:	Well
Description:	Not Reported	HUC:	10300101
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Other aquifers	Formation Type:	Labette Shale
Aquifer Type:	Confined multiple aquifer	Construction Date:	Not Reported
Well Depth:	433	Well Depth Units:	ft
Well Hole Depth:	433	Well Hole Depth Units:	ft

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance — Database — EDR ID Number

1
East — **OIL_GAS** — **MOOG60000006311**
1/4 - 1/2 Mile

API:	095-21488	Operator:	BARBARA A GIBLIN REVOKABLE TRUST
Lease:	SAINT BARBARA	Well Name:	3
Well Type:	Oil	Well Status:	Active Well
Current Permit Date:	09-MAY-14	Spud Date:	29-MAY-14
Elevation:	978	Total Depth:	800
Plug Back Depth:	Not Reported	Directionally Drilled:	Not Reported
Measured Vertical Depth:	Not Reported	Top Perf Depth:	Not Reported
Bottom Perf Depth:	Not Reported	Max Approved PSI:	Not Reported
SPL Log:	0	1st Production Date:	Not Reported
Hours Tested:	Not Reported	Test-Oil Produced:	Not Reported
Oil Gravity:	Not Reported	Test-Gas Produced:	Not Reported
Test-Water Produced:	Not Reported		
Well Status Comments:	Not Reported		
Comments:	Plugged Back To 506.95 Feet.		

2
ESE — **OIL_GAS** — **MOOG60000006309**
1/4 - 1/2 Mile

API:	095-21461	Operator:	BARBARA A GIBLIN REVOKABLE TRUST
Lease:	SAINT BARBARA	Well Name:	1
Well Type:	Oil	Well Status:	Active Well
Current Permit Date:	30-SEP-13	Spud Date:	02-DEC-13
Elevation:	985	Total Depth:	0
Plug Back Depth:	Not Reported	Directionally Drilled:	Not Reported
Measured Vertical Depth:	Not Reported	Top Perf Depth:	Not Reported
Bottom Perf Depth:	Not Reported	Max Approved PSI:	Not Reported
SPL Log:	0	1st Production Date:	Not Reported
Hours Tested:	Not Reported	Test-Oil Produced:	Not Reported
Oil Gravity:	Not Reported	Test-Gas Produced:	Not Reported
Test-Water Produced:	Not Reported		
Well Status Comments:	Not Reported		
Comments:	Not Reported		

3
North — **OIL_GAS** — **MOOG60000004468**
1/4 - 1/2 Mile

API:	095-00816	Operator:	KNOCHE
Lease:	CRUTCHER, E. W.	Well Name:	Not Reported
Well Type:	Dry Hole	Well Status:	Abandoned
Current Permit Date:	30-DEC-99	Spud Date:	30-DEC-99
Elevation:	988	Total Depth:	475
Plug Back Depth:	Not Reported	Directionally Drilled:	Not Reported
Measured Vertical Depth:	Not Reported	Top Perf Depth:	Not Reported
Bottom Perf Depth:	Not Reported	Max Approved PSI:	Not Reported
SPL Log:	0	1st Production Date:	Not Reported
Hours Tested:	Not Reported	Test-Oil Produced:	Not Reported
Oil Gravity:	Not Reported	Test-Gas Produced:	Not Reported
Test-Water Produced:	Not Reported		

Well Status Comments:	Not Reported
Comments:	Dry

4
SE
1/4 - 1/2 Mile

OIL_GAS **MOOG60000004484**

API:	095-00832	Operator:	BROWNING
Lease:	FEE	Well Name:	Not Reported
Well Type:	Dry Hole	Well Status:	Abandoned
Current Permit Date:	30-DEC-99	Spud Date:	30-DEC-99
Elevation:	989	Total Depth:	370
Plug Back Depth:	Not Reported	Directionally Drilled:	Not Reported
Measured Vertical Depth:	Not Reported	Top Perf Depth:	Not Reported
Bottom Perf Depth:	Not Reported	Max Approved PSI:	Not Reported
SPL Log:	0	1st Production Date:	Not Reported
Hours Tested:	Not Reported	Test-Oil Produced:	Not Reported
Oil Gravity:	Not Reported	Test-Gas Produced:	500
Test-Water Produced:	Not Reported		
Well Status Comments:	Not Reported		
Comments:	Dry		

A5
North
1/2 - 1 Mile

OIL_GAS **MOOG60000005958**

API:	095-20721	Operator:	REYNOLDS EXPLORATION CO.
Lease:	CENTURY ENT., INC.	Well Name:	11
Well Type:	Dry Hole	Well Status:	Plugged - Approved
Current Permit Date:	14-SEP-83	Spud Date:	30-DEC-99
Elevation:	995	Total Depth:	568
Plug Back Depth:	Not Reported	Directionally Drilled:	Not Reported
Measured Vertical Depth:	Not Reported	Top Perf Depth:	Not Reported
Bottom Perf Depth:	Not Reported	Max Approved PSI:	Not Reported
SPL Log:	0	1st Production Date:	Not Reported
Hours Tested:	Not Reported	Test-Oil Produced:	Not Reported
Oil Gravity:	Not Reported	Test-Gas Produced:	Not Reported
Test-Water Produced:	Not Reported		
Well Status Comments:	Not Reported		
Comments:	Not Reported		

A6
North
1/2 - 1 Mile

OIL_GAS **MOOG60000005957**

API:	095-20720	Operator:	REYNOLDS EXPLORATION CO.
Lease:	CENTURY ENT., INC.	Well Name:	10
Well Type:	Dry Hole	Well Status:	Plugged - Approved
Current Permit Date:	14-SEP-83	Spud Date:	30-DEC-99
Elevation:	995	Total Depth:	569
Plug Back Depth:	Not Reported	Directionally Drilled:	Not Reported
Measured Vertical Depth:	Not Reported	Top Perf Depth:	Not Reported
Bottom Perf Depth:	Not Reported	Max Approved PSI:	Not Reported

SPL Log:	0	1st Production Date:	Not Reported
Hours Tested:	Not Reported	Test-Oil Produced:	Not Reported
Oil Gravity:	Not Reported	Test-Gas Produced:	Not Reported
Test-Water Produced:	Not Reported		
Well Status Comments:	Not Reported		
Comments:	Not Reported		

7
NE **OIL_GAS** **MOOG60000006295**
1/2 - 1 Mile

API:	095-21425	Operator:	MCCLUNG, PETER
Lease:	MCCLUNG, PETER	Well Name:	1
Well Type:	Gas(Private Use)	Well Status:	Under Construction
Current Permit Date:	06-OCT-11	Spud Date:	30-DEC-99
Elevation:	990	Total Depth:	0
Plug Back Depth:	Not Reported	Directionally Drilled:	Not Reported
Measured Vertical Depth:	Not Reported	Top Perf Depth:	Not Reported
Bottom Perf Depth:	Not Reported	Max Approved PSI:	Not Reported
SPL Log:	0	1st Production Date:	Not Reported
Hours Tested:	Not Reported	Test-Oil Produced:	Not Reported
Oil Gravity:	Not Reported	Test-Gas Produced:	Not Reported
Test-Water Produced:	Not Reported		
Well Status Comments:	Not Reported		
Comments:	Not Reported		

B8
North **OIL_GAS** **MOOG60000005956**
1/2 - 1 Mile

API:	095-20719	Operator:	CENTURY ENTERPRISES, INC.
Lease:	CENTURY	Well Name:	7
Well Type:	Oil	Well Status:	Plugged - Approved
Current Permit Date:	14-SEP-83	Spud Date:	13-OCT-83
Elevation:	995	Total Depth:	580
Plug Back Depth:	Not Reported	Directionally Drilled:	Not Reported
Measured Vertical Depth:	Not Reported	Top Perf Depth:	460
Bottom Perf Depth:	524	Max Approved PSI:	Not Reported
SPL Log:	0	1st Production Date:	Not Reported
Hours Tested:	24	Test-Oil Produced:	9
Oil Gravity:	23	Test-Gas Produced:	Not Reported
Test-Water Produced:	Not Reported		
Well Status Comments:	Not Reported		
Comments:	Not Reported		

9
NE **OIL_GAS** **MOOG60000005775**
1/2 - 1 Mile

API:	095-20429	Operator:	BYOUS OIL CO.
Lease:	BYOUS OIL CO.	Well Name:	1
Well Type:	Oil	Well Status:	Plugged - Approved
Current Permit Date:	09-DEC-81	Spud Date:	30-DEC-99

Elevation:	995	Total Depth:	534
Plug Back Depth:	Not Reported	Directionally Drilled:	Not Reported
Measured Vertical Depth:	Not Reported	Top Perf Depth:	Not Reported
Bottom Perf Depth:	Not Reported	Max Approved PSI:	Not Reported
SPL Log:	0	1st Production Date:	Not Reported
Hours Tested:	Not Reported	Test-Oil Produced:	Not Reported
Oil Gravity:	Not Reported	Test-Gas Produced:	Not Reported
Test-Water Produced:	Not Reported		
Well Status Comments:	Not Reported		
Comments:	Not Reported		

B10
North
1/2 - 1 Mile

OIL_GAS **MOOG60000005744**

API:	095-20390	Operator:	CENTURY ENTERPRISES, INC.
Lease:	CENTURY	Well Name:	1
Well Type:	Oil	Well Status:	Plugged - Approved
Current Permit Date:	28-SEP-81	Spud Date:	28-SEP-81
Elevation:	1000	Total Depth:	635
Plug Back Depth:	635	Directionally Drilled:	Not Reported
Measured Vertical Depth:	Not Reported	Top Perf Depth:	464
Bottom Perf Depth:	470	Max Approved PSI:	Not Reported
SPL Log:	0	1st Production Date:	Not Reported
Hours Tested:	24	Test-Oil Produced:	2.5
Oil Gravity:	19.55	Test-Gas Produced:	Not Reported
Test-Water Produced:	Not Reported		
Well Status Comments:	Not Reported		
Comments:	Not Reported		

C11
North
1/2 - 1 Mile

OIL_GAS **MOOG60000005760**

API:	095-20409	Operator:	CENTURY ENTERPRISES, INC.
Lease:	CENTURY	Well Name:	2
Well Type:	Oil	Well Status:	Plugged - Approved
Current Permit Date:	20-NOV-81	Spud Date:	25-NOV-81
Elevation:	1010	Total Depth:	620
Plug Back Depth:	620	Directionally Drilled:	Not Reported
Measured Vertical Depth:	Not Reported	Top Perf Depth:	537
Bottom Perf Depth:	544	Max Approved PSI:	Not Reported
SPL Log:	0	1st Production Date:	Not Reported
Hours Tested:	24	Test-Oil Produced:	1.5
Oil Gravity:	19.55	Test-Gas Produced:	Not Reported
Test-Water Produced:	Not Reported		
Well Status Comments:	Not Reported		
Comments:	Not Reported		

Map ID
Direction
Distance

Database EDR ID Number

C12
North
1/2 - 1 Mile

OIL_GAS **MOOG60000005762**

API:	095-20411	Operator:	CENTURY ENTERPRISES, INC.
Lease:	CENTURY	Well Name:	4
Well Type:	Oil	Well Status:	Plugged - Approved
Current Permit Date:	20-NOV-81	Spud Date:	30-NOV-81
Elevation:	1000	Total Depth:	600
Plug Back Depth:	578	Directionally Drilled:	Not Reported
Measured Vertical Depth:	Not Reported	Top Perf Depth:	524
Bottom Perf Depth:	533	Max Approved PSI:	Not Reported
SPL Log:	0	1st Production Date:	Not Reported
Hours Tested:	24	Test-Oil Produced:	1
Oil Gravity:	Not Reported	Test-Gas Produced:	Not Reported
Test-Water Produced:	Not Reported		
Well Status Comments:	Not Reported		
Comments:	Not Reported		

13
North
1/2 - 1 Mile

OIL_GAS **MOOG60000005761**

API:	095-20410	Operator:	CENTURY ENTERPRISES, INC.
Lease:	CENTURY	Well Name:	5
Well Type:	Oil	Well Status:	Plugged - Approved
Current Permit Date:	20-NOV-81	Spud Date:	01-DEC-82
Elevation:	996	Total Depth:	590
Plug Back Depth:	590	Directionally Drilled:	Not Reported
Measured Vertical Depth:	Not Reported	Top Perf Depth:	520
Bottom Perf Depth:	530	Max Approved PSI:	Not Reported
SPL Log:	0	1st Production Date:	Not Reported
Hours Tested:	24	Test-Oil Produced:	0.5
Oil Gravity:	19.55	Test-Gas Produced:	Not Reported
Test-Water Produced:	Not Reported		
Well Status Comments:	Not Reported		
Comments:	Not Reported		

14
South
1/2 - 1 Mile

OIL_GAS **MOOG60000004485**

API:	095-00833	Operator:	BROWNING
Lease:	FEE	Well Name:	1
Well Type:	Dry Hole	Well Status:	Abandoned
Current Permit Date:	30-DEC-99	Spud Date:	30-DEC-99
Elevation:	1008	Total Depth:	516
Plug Back Depth:	Not Reported	Directionally Drilled:	Not Reported
Measured Vertical Depth:	Not Reported	Top Perf Depth:	Not Reported
Bottom Perf Depth:	Not Reported	Max Approved PSI:	Not Reported
SPL Log:	0	1st Production Date:	Not Reported
Hours Tested:	Not Reported	Test-Oil Produced:	Not Reported
Oil Gravity:	Not Reported	Test-Gas Produced:	Not Reported
Test-Water Produced:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well Status Comments:	Not Reported
Comments:	Dry, Shows Oil

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: MO Radon

Radon Test Results

Zipcode	Test Date	Result
64030	02/20/09	4.3
64030	02/01/08	7.7
64030	02/08/08	0.6
64030	02/09/09	1.1
64030	03/23/09	2.2
64030	02/25/08	0.6
64030	03/06/08	1.9
64030	05/29/08	????
64030	06/07/08	1.3
64030	06/07/08	2.4
64030	06/13/08	0.6
64030	08/29/08	????
64030	06/16/08	3.9
64030	06/20/08	1.2
64030	06/21/08	0.7
64030	11/04/08	1.4

Federal EPA Radon Zone for JACKSON County: 1

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 64030

Number of sites tested: 11

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.550 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	2.045 pCi/L	91%	9%	0%

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, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: National Wetland Inventory of Missouri
Source: Department of Natural Resources
Telephone: 573-751-5110

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} 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

Missouri Public Drinking Water Wells
Source: Department of Natural Resources
Telephone: 573-526-5448

Missouri Geologic Well Log Database
Source: Department of Natural Resources
Telephone: 573-526-5448

OTHER STATE DATABASE INFORMATION

Oil and Gas Well Database
Source: Department of Natural Resources
Telephone: 573-368-2143

RADON

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.

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

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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APPENDIX E

CREDENTIALS

Melissa Dowling

SITE INVESTIGATION GROUP MANAGER

PROFESSIONAL EXPERIENCE

Manages site redevelopment services by assisting clients in achieving regulatory compliance for commercial and industrial properties with documented environmental impacts. Performs subsurface site investigations for underground storage tank (UST) closures and Brownfields Voluntary Cleanup Programs (BVCP). Supervises all aspects of Phase II, site characterization and tiered risk assessments in order to acquire No-Further-Action (NFA) status. Missouri Closed/Inactive landfill assessments and surveys.

PROJECT MANAGEMENT EXPERIENCE

- Assessment and surveys of 14 closed/inactive landfills in Missouri for MDNR (Group 3)
- UST Closures and Reporting in Kansas, Missouri, Arizona.
- Work within the state tank fund for project reimbursements in Missouri, Kansas, and Arizona.
- Emergency Response activities for Leaking UST sites.
- Preparing bids for State project in Missouri and Kansas.
- Site Characterization reporting.
- Tier 1 and Tier 2 Risk Assessment reporting in Missouri and Arizona.
- Phase I ESA.
- Metals characterization and remediation in soil.
- Laser Induced Fluorescence (LIF) characterization of soil plume.
- Surfactant injection for groundwater plume remediation.
- Scheduling, preparing work plans, cost estimates, managing budgets, invoicing, and provide client recommendations.
- Perform data evaluation and prepare technical reports in accordance with tiered risk-based corrective action guidance.
- Soil vapor and sub-slab vapor assessments.
- Characterize contaminant plumes in soil and groundwater.
- Assess groundwater plume stability utilizing Ricker statistical method.
- Assist clients to achieve regulatory compliance through the Missouri BVCP and Missouri's Hazardous Waste Program/Tanks Section (UST Closures).
- Design sampling schemes to properly delineate subsurface impacts.
- Special waste disposal permitting.

FIELD EXPERIENCE

- Soil logging and groundwater collection
- Soil and sub-slab vapor sampling
- Oversee installation of vapor mitigation systems
- XRF for metals in soil
- Remediation excavations and confirmation sampling
- Tank Removals
- Sub-contractor oversight for direct-push and conventional drill crews
- Monitoring well installation, development and sampling
- Low-flow groundwater sampling
- Slug test to assess aquifer properties
- Wastewater sampling for city permitting requirements

EDUCATION

Bachelor of Science,
Geology, University of Missouri,
Kansas City, 2002

WORK HISTORY

Terracon Consultants, Inc. Project Geologist
February 2018 - Present

Apex Envirotech, Inc.
Senior Project Geologist
August 2005 – January 2018

Midwest Remediation, Inc.
February 2003 – August 2005

Stevens & Associates (PSTIF subcontractor)
August 2002 – February 2003

CERTIFICATIONS

40-Hour HAZWOPER

Restricted Monitoring Well Installers Permit, Missouri

Kansas Department of Health and Environment Tank Removal license

EPA and Missouri Certified Asbestos Inspector

Terracon

Melissa Dowling (Resume Cont.)

PROJECT EXPERIENCE

Underground Storage Tank Removals
Apple Trail Truck Stop – Oak Grove, Missouri
The former truck stop operated with 12 USTs, 19 fuel dispensers, and over 300 feet of product lines. All USTs were removed, cleaned, documented and hauled offsite for disposal. Groundwater was present in the pit necessitating the sampling and disposal of over 100,000 gallons of water to the City system under permit during closure activities. The project was completed in 3 weeks and received a No Further Action status from Missouri DNR.

Completion of 40+ UST site closures in Missouri, Kansas, and Arizona.

Petroleum Storage Tank Insurance adjuster
As a subcontractor to Williams & Company through a minority subcontracted company, oversaw Missouri tank project sites at all stages. Determine eligibility of the site for fund reimbursement, review work plans and cost estimates from contractors to determine if the work is necessary and reasonable, oversee field activities to document the work is done per the work plan and per state guidance, report of observations, review of contractor reports and invoices, and recommendations for payment.

Metals Sites
Removal of lead contaminated soil and slag at an industrial property in Kansas City, Kansas. Years of sandblasting molded metal pump parts in open air created a 6-8-inch thick lead slag beneath the surface. Excavation of the overburden and slag was completed, and the material was hauled as hazardous waste. Precautions were taken to eliminate lead dust during excavation, loading, and hauling.

Removal of metals contaminated soil due to electronic reclamation activities at a residential property. Characterization of the soil was followed by excavation and offsite disposal as special waste. An XRF devise was used in the field to assist in depth of excavation. This was a KDHE Brownfield VCP project and received closure after two mobilizations for excavation.

LUST Emergency Response
Emergency response activities for several Leaking Underground Storage Tank sites in Missouri under the guidance of MDNR ER and EPA Region 7. Petroleum leaking from USTs to storm sewers and nearby residential structures. Activities included immediate removal of product from USTs, tank and product line inspections, vacuum truck removal of product from nearby storm drains, flushing of the storm sewers by high-pressure jet truck, constant monitoring of the storm sewer in a 3-block area for VOCs. Respond to residence reports of indoor vapors, vapor monitoring. Relocation of several residents until internal plumbing could be repaired or replaced to eliminate the indoor VOC vapors. Site characterization and tank removal followed emergency response activities.

Low-flow Groundwater Sampling – Missouri and Arizona
Sampling events include pump operation, flow control, monitoring parameters, i.e., pH, Spc. Conductants, Temp. and D.O., and turbidity. Groundwater sampling events are pursuant to State and Federal guidelines. Further services include evaluation of analytical results through statistical plume stability to determine site characterization and remedial options.

Limited Site Investigations - Kansas and Missouri
Conduct subsurface investigations on a variety of commercial and industrial properties to evaluate potential environmental impacts to the site. Limited site investigations include supervision of direct-push Geoprobe® drill crews; logging, screening and sampling of soil and groundwater. Determine sample submission for laboratory analysis; data review and preparation of technical reports. Prepare recommendations to determine if future characterization is necessary in order to achieve regulatory compliance.

Soil Excavation - Kansas
Provide soil excavation oversight and conducted gridded soil and sediment sampling for remediation of commercial properties. Completed data evaluation and reporting in order to assist client with environmental compliance and property transaction.

Phase I Environmental Site Assessments
Completion of 100+ Phase I ESA reports for Missouri, Kansas, New Mexico, Arizona, and California sites.

Tracie A. Ragland

SENIOR SCIENTIST

PROFESSIONAL EXPERIENCE

Ms. Ragland is a Senior Scientist and Authorized Project Reviewer in Terracon's Lenexa, KS office. Ms. Ragland has over 20 years of environmental due diligence experience and performs various duties including Phase I Environmental Site Assessments (Phase I ESAs) and limited asbestos inspections. Ms. Ragland has management responsibility of Phase I ESAs within the Environmental Due Diligence Group (DDG) at Terracon. Duties include oversight of projects, technical review of client deliverables, and mentoring of Phase I ESA personnel. Ms. Ragland is an Environmental Professional (as defined in 40 CFR 312) for Phase I ESAs, and has also served as Acting Group Manager of the DDG on several occasions. Ms. Ragland's primary responsibilities include conducting all aspects of Phase I ESAs including proposal/scope preparation, field work, interpretation of Phase I ESA research, and production of client deliverables. Ms. Ragland has also conducted wetland delineations and has assisted in National Environmental Policy Act (NEPA) Reviews/Environmental Assessments (EAs) and Limited Site Investigations (LSIs).

Phase I ESAs: Ms. Ragland has conducted and managed numerous Phase I ESAs for over 20 years throughout the continental US on properties ranging from less than 1 acre to 8,000 acres in size, including undeveloped land, farmland, communications towers, multi-family residential structures, medical facilities, large-scale commercial developments, gasoline stations, vehicle maintenance facilities, industrial/manufacturing sites, printing facilities, dry cleaners, agricultural cooperatives, offices/warehouses, and Brownfields Assessment sites.

Asbestos Inspections and Sampling: In conjunction with Phase I ESAs, Ms. Ragland has conducted limited asbestos inspections and sampling of properties including multi-family residential structures, office buildings, retail malls, commercial developments, and heavy industrial sites in KS and MO. Ms. Ragland has also served as site monitor on asbestos school abatement projects in KS performing air monitoring sampling and observation services during asbestos removal activities, including non-friable visual clearance inspections.

Wetland Delineations: Ms. Ragland has conducted and managed wetland delineation and assisted in permitting projects in KS and MO, including: coordination with the US Army Corps of Engineers (USACE), report preparation for Section 404 Clean Water Act (CWA) regulatory permitting, wetland mitigation site construction observation, and wetland mitigation monitoring. Ms. Ragland has delineated sites from 1 to 8,000 acres utilizing mandatory technical criteria and field indicators established by regional supplements to the USACE delineation manual.

NEPA Reviews/EAs: Ms. Ragland has conducted NEPA Reviews for existing and proposed communications towers and a fiber optic cable corridor. Ms. Ragland has assisted with preparation of EAs for a proposed marina at a USACE lake, two USDA Natural Resources Conservation Service (NRCS) dam reconstruction sites, a Dept. of Energy (DOE)-sponsored proposed battery/energy storage facility, and a Dept. of Veterans Affairs (VA) cemetery expansion. Ms. Ragland was responsible for field work, contact with federal, state, and local government agencies, coordination of Cultural Resource Investigations, and production of client deliverables. Ms. Ragland has also completed HUD Form 4128 "Environmental Assessment and Compliance Finding for Related Laws" documenting compliance with NEPA for residential properties during preparation of Phase I ESAs.

LSIs/Preliminary Assessment (PA)/Site Inspection (SI): Ms. Ragland has conducted and managed LSIs including a PA/SI on a former government WWII facility. Responsibilities included preparation of work scopes, collection of soil and groundwater samples, interpretation of analytical results, and preparation of client deliverables.

EDUCATION

Bachelor of Arts, Honors in Environmental Studies, University of Kansas, 1997

Bachelor of Science in Biology, Cellular Biology, University of Kansas, 1992

CERTIFICATIONS

40-Hour Hazardous Waste Site Operations Training

AHERA, Asbestos Inspector: KS

Certified Asbestos Inspector: MO

AFFILIATIONS

Society of Wetland Scientists (SWS), 1999-2016

University of Kansas (Edwards Campus) Professional Science Masters – Environmental Assessment External Advisory Board Member, 2012-2018

University of Kansas (Edwards Campus) Environmental Industry Board Member, 2019-2022

WORK HISTORY

Terracon Consultants, Inc.,
Senior Scientist: 2019-present
Project Scientist: 2016-2019
Project Manager: 2008-2016
Environmental Scientist: 1998-2008

University of Kansas, Research Assistant, 1994-98

University of Minnesota, Graduate Research Assistant, 1993-94

Oklahoma State University, Laboratory Technician, 1992-93

ADDITIONAL COURSES

ASTM Training on Phase I & II ESAs for Commercial Real Estate 2017, ASTM
Regional Supplement Seminar, Wetland Training Institute (WTI), 2008
Nationwide Permits, WTI, 2008; SWS, 2000
Dormant Season Wetland Plant Identification, Institute of Botanical Training, LLC, 2007
Wetland Construction and Restoration, WTI, 2001
Wetland Plant Identification, Biotic Consultants, Inc., 2000
Basic Processes in Hydric Soils, North Carolina State University, 2000
38-Hour Army Corps of Engineers Wetland Delineation & Management Training Program, Richard Chinn Environmental Training, Inc., 1998

APPENDIX F

DESCRIPTION OF TERMS AND ACRONYMS

Description of Selected General Terms and Acronyms

Term / Acronym	Description
ACM	Asbestos Containing Material. Asbestos is a naturally occurring mineral, three varieties of which (chrysotile, amosite, crocidolite) have been commonly used as fireproofing or binding agents in construction materials. Exposure to asbestos, as well as ACM, has been documented to cause lung diseases including asbestosis (scarring of the lung), lung cancer and mesothelioma (a cancer of the lung lining). Regulatory agencies have generally defined ACM as a material containing greater that one (1) percent asbestos, however some states (e.g., California) define ACM as materials having 0.1% asbestos. In order to define a homogenous material as non-ACM, a minimum number of samples must be collected from the material dependent upon its type and quantity. Homogenous materials defined as non-ACM must either have 1) no asbestos identified in all of its samples or 2) an identified asbestos concentration below the appropriate regulatory threshold. Asbestos concentrations are generally determined using polarized light microscopy or transmission electron microscopy. Point counting is an analytical method to statistically quantify the percentage of asbestos in a sample. The asbestos component of ACM may either be friable or non-friable. Friable materials, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure and have a higher potential for a fiber release than non-friable ACM. Non-friable ACM are materials that are firmly bound in a matrix by plastic, cement, etc. and, if handled carefully, will not become friable. Federal and state regulations require that either all suspect building materials be presumed ACM or that an asbestos survey be performed prior to renovation, dismantling, demolition, or other activities that may disturb potential ACM. Notifications are required prior to demolition and/or renovation activities that may impact the condition of ACM in a building. ACM removal may be required if the ACM is likely to be disturbed or damaged during the demolition or renovation. Abatement of friable or potentially friable ACM must be performed by a licensed abatement contractor in accordance with state rules and NESHAP. Additionally, OSHA regulations for work classification, worker training and worker protection will apply.
AHERA	Asbestos Hazard Emergency Response Act
AST	Aboveground Storage Tanks. ASTs are generally described as storage tanks less than 10% of which are below ground (i.e., buried). Tanks located in a basement, but not buried, are also considered ASTs. Whether, and the extent to which, an AST is regulated, is determined on a case-by-case basis and depends upon tank size, its contents and the jurisdiction of its location.
BGS	Below Ground Surface

Description of Selected General Terms and Acronyms

Term / Acronym	Description
Brownfields	State and/or tribal listing of Brownfield properties addressed by Cooperative Agreement Recipients or Targeted Brownfields Assessments.
BTEX	Benzene, Toluene, Ethylbenzene, and Xylenes. BTEX are VOC components found in gasoline and commonly used as analytical indicators of a petroleum hydrocarbon release.
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act (a.k.a. Superfund). CERCLA is the federal act that regulates abandoned or uncontrolled hazardous waste sites. Under this Act, joint and several liability may be imposed on potentially responsible parties for cleanup-related costs.
CERCLIS	Comprehensive Environmental Response, Compensation and Liability Information System. An EPA compilation of sites having suspected or actual releases of hazardous substances to the environment. CERCLIS also contains information on site inspections, preliminary assessments and remediation of hazardous waste sites. These sites are typically reported to EPA by states and municipalities or by third parties pursuant to CERCLA Section 103.
CESQG	Conditionally Exempt Small Quantity Generators
CFR	Code of Federal Regulations
CREC	Controlled Recognized Environmental Condition is defined in ASTM E1527-21 as “a recognized environmental condition 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, institutional controls, or engineering controls). A condition considered by the environmental professional to be a controlled recognized environmental condition shall be listed in the findings section of the Phase I Environmental Site Assessment report, and as a recognized environmental condition in the conclusions section of the Phase I Environmental Site Assessment report.”
DOT	U.S. Department of Transportation
EPA	U.S. Environmental Protection Agency
ERNS	Emergency Response Notification System. An EPA-maintained federal database which stores information on notifications of oil discharges and hazardous substance releases in quantities greater than the applicable reportable quantity under CERCLA. ERNS is a cooperative data-sharing effort between EPA, DOT, and the National Response Center.
ESA	Environmental Site Assessment

Description of Selected General Terms and Acronyms

Term / Acronym	Description
FRP	Fiberglass Reinforced Plastic
Hazardous Substance	As defined under CERCLA, this is (A) any substance designated pursuant to section 1321(b)(2)(A) of Title 33, (B) any element, compound, mixture, solution, or substance designated pursuant to section 9602 of this title; (C) any hazardous waste having characteristics identified under or listed pursuant to section 3001 of the Solid Waste Disposal Act (with some exclusions); (D) any toxic pollutant listed under section 1317(a) of Title 33; (E) any hazardous air pollutant listed under section 112 of the Clean Air Act; and (F) any imminently hazardous chemical substance or mixture with respect to which the EPA Administrator has taken action under section 2606 of Title 15. This term does not include petroleum, including crude oil or any fraction thereof which is not otherwise listed as a hazardous substance under subparagraphs (A) through (F) above, and the term include natural gas, or synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas).
Hazardous Waste	This is defined as having characteristics identified or listed under section 3001 of the Solid Waste Disposal Act (with some exceptions). RCRA, as amended by the Solid Waste Disposal Act of 1980, defines this term as a "solid waste, or combination of solid wastes, which because of its quantity, concentration, or physical, chemical, or infectious characteristics may (A) cause, or significantly contribute to an increase in mortality or an increase in serious irreversible, or incapacitating reversible illness; or (B) pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, or disposed of, or otherwise managed."
HREC	Historical Recognized Environmental Condition is defined in ASTM E1527-21 as "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 residential 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). Before calling the past release a historical recognized environmental condition, the environmental professional must determine whether the past release is a recognized environmental condition at the time of the Phase I Environmental Site Assessment is conducted (for example, if there has been a change in the regulatory criteria). If the EP considers the past release to be a recognized environmental condition at the time the Phase I ESA is conducted, the condition shall be included in the conclusions section of the report as a recognized environmental condition."

Description of Selected General Terms and Acronyms

Term / Acronym	Description
IC/EC	A listing of sites with institutional and/or engineering controls in place. IC 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. EC 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.
ILP	Innocent Landowner/Operator Program
LQG	Large Quantity Generators
LUST	Leaking Underground Storage Tank. This is a federal term set forth under RCRA for leaking USTs. Some states also utilize this term.
MCL	Maximum Contaminant Level. This Safe Drinking Water concept (and also used by many states as a ground water cleanup criteria) refers to the limit on drinking water contamination that determines whether a supplier can deliver water from a specific source without treatment.
MSDS	Material Safety Data Sheets. Written/printed forms prepared by chemical manufacturers, importers and employers which identify the physical and chemical traits of hazardous chemicals under OSHA's Hazard Communication Standard.
NESHAP	National Emissions Standard for Hazardous Air Pollutants (Federal Clean Air Act). This part of the Clean Air Act regulates emissions of hazardous air pollutants.
NFRAP	Facilities where there is "No Further Remedial Action Planned," as more particularly described under the Records Review section of this report.
NOV	Notice of Violation. A notice of violation or similar citation issued to an entity, company or individual by a state or federal regulatory body indicating a violation of applicable rule or regulations has been identified.
NPDES	National Pollutant Discharge Elimination System (Clean Water Act). The federal permit system for discharges of polluted water.
NPL	The NPL is the EPA's database of uncontrolled or abandoned hazardous waste facilities that have been listed for priority remedial actions under the Superfund Program.
OSHA	Occupational Safety and Health Administration or Occupational Safety and Health Act

Description of Selected General Terms and Acronyms

Term / Acronym	Description
PACM	Presumed Asbestos-Containing Material. A material that is suspected of containing or presumed to contain asbestos but which has not been analyzed to confirm the presence or absence of asbestos.
PCB	Polychlorinated Biphenyl. A halogenated organic compound commonly in the form of a viscous liquid or resin, a flowing yellow oil, or a waxy solid. This compound was historically used as dielectric fluid in electrical equipment (such as electrical transformers and capacitors, electrical ballasts, hydraulic and heat transfer fluids), and for numerous heat and fire sensitive applications. PCB was preferred due to its durability, stability (even at high temperatures), good chemical resistance, low volatility, flammability, and conductivity. PCBs, however, do not break down in the environment and are classified by the EPA as a suspected carcinogen. 1978 regulations, under the Toxic Substances Control Act, prohibit manufacturing of PCB-containing equipment; however, some of this equipment may still be in use today.
pCi/L	picoCuries per Liter of Air. Unit of measurement for Radon and similar radioactive materials.
PLM	Polarized Light Microscopy (see ACM section of the report, if included in the scope of services)
PST	Petroleum Storage Tank. An AST or UST that contains a petroleum product.
Radon	A radioactive gas resulting from radioactive decay of naturally-occurring radioactive materials in rocks and soils containing uranium, granite, shale, phosphate, and pitchblende. Radon concentrations are measured in picoCuries per Liter of Air. Exposure to elevated levels of radon creates a risk of lung cancer; this risk generally increases as the level of radon and the duration of exposure increases. Outdoors, radon is diluted to such low concentrations that it usually does not present a health concern. However, radon can accumulate in building basements or similar enclosed spaces to levels that can pose a risk to human health. Indoor radon concentrations depend primarily upon the building's construction, design and the concentration of radon in the underlying soil and ground water. The EPA recommended annual average indoor “action level” concentration for residential structures is 4.0 pCi/l.
RCRA	Resource Conservation and Recovery Act. Federal act regulating solid and hazardous wastes from point of generation to time of disposal (‘cradle to grave”). 42 U.S.C. 6901 et seq.
RCRA Generators	The RCRA Generators database, maintained by the EPA, lists facilities that generate hazardous waste as part of their normal business practices. Generators are listed as either large (LQG), small (SQG), or conditionally exempt (CESQG). LQG produce at least 1000 kg/month of non-acutely hazardous waste or 1 kg/month of acutely hazardous waste. SQG produce 100-1000 kg/month of non-acutely hazardous waste. CESQG are those that generate less than 100 kg/month of non-acutely hazardous waste.

Description of Selected General Terms and Acronyms

Term / Acronym	Description
RCRA CORRACTS/ TSDs	The USEPA maintains a database of RCRA facilities associated with treatment, storage, and disposal (TSD) of hazardous materials which are undergoing “corrective action”. A “corrective action” order is issued when there is a release of hazardous waste or constituents into the environment from a RCRA facility.
RCRA Non-CORRACTS/ TSDs	The RCRA Non-CORRACTS/TSD Database is a compilation by the USEPA of facilities which report storage, transportation, treatment, or disposal of hazardous waste. Unlike the RCRA CORRACTS/TSD database, the RCRA Non-CORRACTS/TSD database does not include RCRA facilities where corrective action is required.
RCRA Violators List	RAATS. RCRA Administrative Actions Taken. RAATS information is now contained in the RCRIS database and includes records of administrative enforcement actions against facilities for noncompliance.
RCRIS	Resource Conservation and Recovery Information System, as defined in the Records Review section of this report.
REC	Recognized Environmental Conditions are defined by ASTM E1527-21 as 1) the presence of hazardous substances or petroleum products in, on, or at the subject property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the subject property due to a release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the subject property under conditions that pose a material threat of a future release to the environment. A de minimis condition is not a recognized environmental condition.
SCL	State “CERCLIS” List (see SPL /State Priority List, below).
SPCC	Spill Prevention, Control and Countermeasures. SPCC plans are required under federal law (Clean Water Act and Oil Pollution Act) for any facility storing petroleum in tanks and/or containers of 55-gallons or more that when taken in aggregate exceed 1,320 gallons. SPCC plans are also required for facilities with underground petroleum storage tanks with capacities of over 42,000 gallons. Many states have similar spill prevention programs, which may have additional requirements.
SPL	State Priority List. State list of confirmed sites having contamination in which the state is actively involved in clean up activities or is actively pursuing potentially responsible parties for clean up. Sometimes referred to as a State “CERCLIS” List.
SQG	Small Quantity Generator
SWF/LF	State and/or Tribal database of Solid Waste/Landfill facilities. The database information may include the facility name, class, operation type, area, estimated operational life, and owner.
TPH	Total Petroleum Hydrocarbons

Description of Selected General Terms and Acronyms

Term / Acronym	Description
TRI	Toxic Release Inventory. Routine EPA report on releases of toxic chemicals to the environment based upon information submitted by entities subject to reporting under the Emergency Planning and Community Right to Know Act.
TSCA	Toxic Substances Control Act. A federal law regulating manufacture, import, processing and distribution of chemical substances not specifically regulated by other federal laws (such as asbestos, PCBs, lead-based paint and radon). 15 U.S.C 2601 et seq.
USACE	United States Army Corps of Engineers
USC	United States Code
USGS	United States Geological Survey
USNRCS	United States Department of Agriculture-Natural Resource Conservation Service
UST	Underground Storage Tank. Most federal and state regulations, as well as ASTM E1527-21, define this as any tank, incl., underground piping connected to the tank, that is or has been used to contain hazardous substances or petroleum products and the volume of which is 10% or more beneath the surface of the ground (i.e., buried).
VCP	State and/or Tribal facilities included as Voluntary Cleanup Program sites.
VOC	Volatile Organic Compound

Description of Selected General Terms and Acronyms

Term / Acronym	Description
Wetlands	Areas that are typically saturated with surface or ground water that creates an environment supportive of wetland vegetation (i.e., swamps, marshes, bogs). The Corps of Engineers Wetlands Delineation Manual (Technical Report Y-87-1) defines wetlands as areas inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. For an area to be considered a jurisdictional wetland, it must meet the following criteria: more than 50 percent of the dominant plant species must be categorized as Obligate, Facultative Wetland, or Facultative on lists of plant species that occur in wetlands; the soil must be hydric; and, wetland hydrology must be present. The federal Clean Water Act which regulates "waters of the US," also regulates wetlands, a program jointly administered by the USACE and the EPA. Waters of the U.S. are defined as: (1) waters used in interstate or foreign commerce, including all waters subject to the ebb and flow of tides; (2) all interstate waters including interstate wetlands; (3) all other waters such as intrastate lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds, etc., which the use, degradation, or destruction could affect interstate/ foreign commerce; (4) all impoundments of waters otherwise defined as waters of the U. S., (5) tributaries of waters identified in 1 through 4 above; (6) the territorial seas; and (7) wetlands adjacent to waters identified in 1 through 6 above. Only the USACE has the authority to make a final wetlands jurisdictional determination.

PHASE I ENVIRONMENTAL SITE ASSESSMENT

Prepared for:

Promontory 150 LLC

5215 Old Orchard Road, Suite 420

Skokie, Illinois 60077

February 2020

Olsson Project No. 019-1871

olsson

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
NGVD..... National Geodetic Vertical Datum
NonGens..... No longer generates hazardous waste
NOV ..... Notice of violation
NPL..... National priorities list
NRCS..... U.S. Natural Resource Conservation Service
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
TSCA ..... Toxic Substances Control Act
USGS..... U.S. Geological Survey
UST..... Underground storage tank
VCP..... Voluntary cleanup program

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SUMMARY

Olsson, Inc. (Olsson) was retained by Botts 150 LLC to perform a Phase I Environmental Site Assessment (ESA) for the Botts Road and M-150 Hwy Site located at Botts Road and Missouri State Highway 150 in Kansas City, Jackson County, Missouri (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). A summary of the ESA findings based on a review of historical records, regulatory databases, site reconnaissance, and interviews is as follows:

- There were no significant findings 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 is characterized as agriculture and undeveloped land and the vicinity is mostly light industrial. 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		
Property Legal Description	Section 26, Township 47 North, Range 33 West	
Potable Water Provider	City of Kansas City	
Sanitary Sewer Provider	City of Kansas City	
Land Area	Approximately 77.6 acres	
PHYSICAL SETTING INFORMATION FOR SITE AND SURROUNDING AREA		**SOURCE**
Topography ***(Refer to Appendix A for an excerpt of the USGS Topographic Map)***		
Property Elevation	995 feet above sea level	USGS 7.5-Minute Topographic Map, Belton, MO-KANS - 1953
Groundwater Flow Direction *	East	
Surface Runoff/ Topographic Gradient	Generally East	

* 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 Botts 150 LLC (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 not considered recognized environmental conditions.

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 CRECs.

A controlled recognized environmental condition (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 June 24, 2019. 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 February 18, 2020, the date when the database report was generated. Promontory 150 LLC may rely on the findings and conclusions of this report. 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 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 not provided by the User, the User stated that a review of these records took place on May 30, 2019 and 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.

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 topographic maps: 1887, 1893, 1934, 1953/1957, 1970, 1975, 1995, and 2015; and,
- Historical aerial photographs: 1936, 1940, 1948, 1952, 1957, 1969, 1976, 1979, 1981, 1985, 1990, 1997, 2006, 2009, 2012, and 2016; and,
- City directory information: 1974, 1976, 1992, 1995, 2000, 2005, 2010, and 2014.

The Property has been used agriculturally since at least 1936. A small feature is present on the northeast corner of the Property. Two tributaries run through the central portion of the Property. By 1969, the feature in the northeast corner is no longer present. The 2012 aerial photograph depicts a portion of the Property as a staging area, most likely related to development on adjoining properties. The 2016 aerial photograph shows the Property as being used agriculturally again and remains the same today.

East

The area adjoining the Property to the east has remained vacant and used agriculturally since at least 1936. Further east, a disturbed area is present on the 2016 photograph.

South

A road is present south of the Property since at least 1887. The area south of the road appeared to have been used agriculturally from 1936 through 1942, when a runway was developed. The 1953 topographic map depicts this runway as the Grandview Air Force Base. The 2006 aerial photograph shows the road south of the Property being developed into four lanes. By 2009, the runway was no longer present. Highway development is present on the 2012 photograph. The 2016 aerial photograph represents how the Property appears today.

West

The adjacent property to the west consisted of a private homestead through 1990, when the homestead was removed. By 2012, the adjoining property to the west had undergone a large-scale development. The 2016 aerial photograph represents how this area appears today.

North

The adjacent property to the north was used agriculturally until 2006, when a warehouse development was shown on the aerial photograph. The 2016 aerial photograph represents how the area appears today.

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
Federal Databases		
NPL	1.0	0
Delisted NPL	0.5	0
CERCLIS/SEMS	0.5	1
CERLCIS NFRAP/SEMS Archive	0.5	0
RCRA CORRACTS	1.0	0
RCRA TSDF	0.5	0
RCRA-LQG	Property/Adjoining Properties	1
RCRA-SQG		1
RCRA-VSQG		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 (LQGs) 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 (VSQGs) facilities generate less than 100 kg of hazardous waste or 1 kg of acutely hazardous waste per month. 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 Missouri Department of Natural Resources (MDNR). 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
MDNR maintains a listing of leaking underground storage tank (LUST) and leaking aboveground storage tank (LAST) facilities.

4.1.10 State/Tribal Storage Tanks
MDNR 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 MDNR maintains a listing of facilities assigned with State institutional controls.

4.1.12 State/Tribal Voluntary Cleanup Sites
MDNR 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
MDNR 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 two database listings within the prescribed ASTM E1527-13 search radii. The following sections discuss database listings pertaining to the Property and in the immediate vicinity.

4.2.1 Property Database Listings
The Property was referenced in the environmental database report as the following listing:

Loch Sand and Construction Co., Northeast of HWY 150 and Botts Road

This listing was identified in the FINDS and ECHO databases and as being located on the Property. The FINDS and ECHO databases are related to the US National Pollutant Discharge

Elimination System (NPDES) module of the Compliance Information System tracking surface water permits issued under the Clean Water Act. This listing does not represent a REC for the Property.

4.2.2 Vicinity Database Listings

The following sections summarize the upgradient off-site database report listings in order of closest proximity within approximately 1/3 mile of the Property. The remaining database listings were not considered RECs for the Property based on their distance, regulatory status, and/or location relative to the Property.

Former Richards-Gebaur Air Force Base

The site of the former Richards-Gebaur Air Force Base is located approximately 1,465 feet cross-gradient from the Property and identified in the SEMS and Record of Decision (ROD) database. This database detailed that the U.S. Environmental Protection Agency (USEPA) issued a ROD in 2004 for two sites within the former AFB with residual soil contamination and six sites with residual groundwater contamination remaining. The ROD indicated that restrictive covenants were put in place to preclude the excavation of the residually contaminated soil locations remaining at the site, prohibit residential use, and require the property recipient to obtain approval from the United States Air Force (USAF), Missouri Department of Natural Resources (MDNR), and USEPA for any proposals for land use change at a site inconsistent with the use restrictions and assumptions described in the ROD. Based on the regulatory status of this site, and location cross-gradient from the Property, this facility is not considered a REC for the Property.

NNSA National Security Campus Kansas City Plant, 14500 Botts Road

This facility is located approximately 1,650 feet upgradient from the Property and was identified in the RCRA-LQG database. The database files detail this facility as generating large quantities of waste. Several violations were reported for this site; however, all achieved compliance and were closed. This site does not represent a REC for the Property.

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 one 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.

The following orphan site was located within the ASTM E1527-13 search distances listed in Section 4.1:

Department of Energy – Botts Road

That site is discussed as appropriate in Sections 4.2.2.

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 vapor encroachment screening 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 Missouri Department of Natural Resources

The MDNR regulatory database was accessed on February 14, 2020 to research environmental permits, citations, or violations for the Property. Review of the MDNR records did not identify listings of record for the Property or adjoining properties.

5. PROPERTY AND ADJOINING PROPERTY RECONNAISSANCE

The following sections describe the Property and adjoining property features noted during Olsson's site reconnaissance on August 14, 2019, for the initial ESA.

5.1 Limiting Conditions

Observation of the Property surface features was somewhat restricted at the time of the reconnaissance; therefore, limiting conditions which would otherwise represent a data gap were encountered. The majority of the Property was farmed, limiting view of the surface features. Thick forested areas also occupied portions of the Property, limiting views of the surface features. Olsson does not believe this data gap was significant enough to change the outcome of the report findings.

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 Use of the Property

The Property is currently used agriculturally. The Property is accessed via Botts 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
Site Operations, Processes, and Equipment	Emergency generators	
	Elevators	
	Air compressors	
	Hydraulic lifts	
	Dry cleaning	
	Photo processing	
	Other processes or equipment	
	Aboveground storage tanks (AST)	

Category	Item or Feature	Observed
Aboveground Petroleum or Chemical Storage	Drums, barrels and/or containers ≥ 5 gallons	
Underground Petroleum or Chemical Storage, or Waste and Drainage Collection Systems	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	
Equipment Containing Potential Polychlorinated Biphenyls (PCBs)	Pad or pole-mounted electrical transformers and/or capacitors	X
	Other equipment	
Potential Release Sources and/or Indicators	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)	
Other Notable Property Features	Pits, ponds, or lagoons	
	Pipeline markers	X
	Wells – irrigation, dry, monitoring, or abandoned	
	Other features	

5.4.1 Equipment Containing Potential Polychlorinated Biphenyls (PCBs)

Pad or Pole-mounted Electrical Transformers and/or Capacitors

One pad-mounted transformer was observed on the west property line. The equipment was not labeled indicating whether the transformer contained PCBs. The City of Kansas City provides electric service to the Property vicinity. This entity has the responsibility of maintaining or replacing the transformer equipment if it were to fail. The Property reconnaissance did not observe staining on or below the equipment. Based on observations, transformer equipment does not represent a REC for the property.

5.4.2 Other Notable Property Features

Pipeline Markers

A gas pipeline was observed along the western Property boundary. This pipeline was marked with a caution tag and is serviced by Spire Energy.

5.5 Adjoining Property Reconnaissance

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

Direction	Description
North	Sika Corp, a light industrial building, adjoins the Property to the north.
East	Agricultural land adjoins the Property to the east.
South	State HWY 150 adjoins the Property to the south. Vacant land, part of Centerpoint Properties is located further south.
West	Botts Road adjoins the Property to the west. The NNSA campus is located further west.

6. INTERVIEWS

Mr. Mick Effertz, and Mr. Joel Parris were interviewed as part of this ESA. Both parties had leased the Property and farmed it dating back 20+ years. Mr. Effertz and Mr. Parris stated that the Property has been farmed using environmentally acceptable farming practices and there have been no spills, therefore, no environmental cleanups on the Property.

Mr. Kevin Breslin, the User representative, was interviewed as part of this ESA. Mr. Breslin was not aware of any environmental concerns associated with the Property.

Interview information for all parties is included in Appendix B.

7. EVALUATION AND CONCLUSIONS

The following paragraphs summarize the findings, opinions, and conclusions of the ESA. Olsson has evaluated the provided information for significant data gaps that, if present, are discussed in their respective report sections.

Property Physical Setting

The Property elevation is approximately 995 feet above sea level. Surface runoff flows east, and groundwater flow is anticipated to be east based on the regional groundwater flow direction.

Historical Resource Review

Topographic maps, aerial photographs, and city directories were reviewed to identify past uses of the Property and adjoining properties and conditions that could represent RECs in association with the Property. There were no conditions identified during the review.

Regulatory Database Review

The following paragraphs discuss relevant database listings pertaining to the Property and in the immediate vicinity. The remaining database listings discussed in Section 4.2 are not identified as RECs due to the limited extent of the release and their regulatory status.

There were no database listings identified that represent RECs for the Property.

Vapor Encroachment Screening

A Tier 1 VES in general accordance with ASTM Standard E 2600-15 “Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transaction” was performed. A VEC does not exist at the Property.

Site Reconnaissance

One pad-mounted transformer was observed on the west property line. The equipment was not labeled indicating whether the transformer contained PCBs. The City of Kansas City provides electric service to the Property vicinity. This entity has the responsibility of maintaining or replacing the transformer equipment if it were to fail. The Property reconnaissance did not observe staining on or below the equipment. Based on observations, transformer equipment does not represent a REC for the property.

A gas pipeline was observed along the western Property boundary. This pipeline was marked with a caution tag an dis serviced by Spire Energy.

Interviews

Olsson interviewed the User representative and the Property broker interviewed former farmers of the Property. No RECs were identified based on information provided by the User.

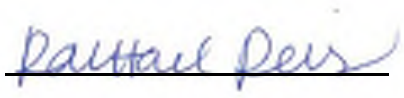
Conclusions

Olsson has performed this ESA in conformance with the scope and limitations of ASTM Practice E1527-13 for the Property. Any exceptions to, or deletions from, this practice are described as applicable this report. This assessment has revealed no evidence of RECs, HRECs or CRECs in connection with the Property.

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.



February 20, 2020

Rachael Reis — Date

Environmental Professional

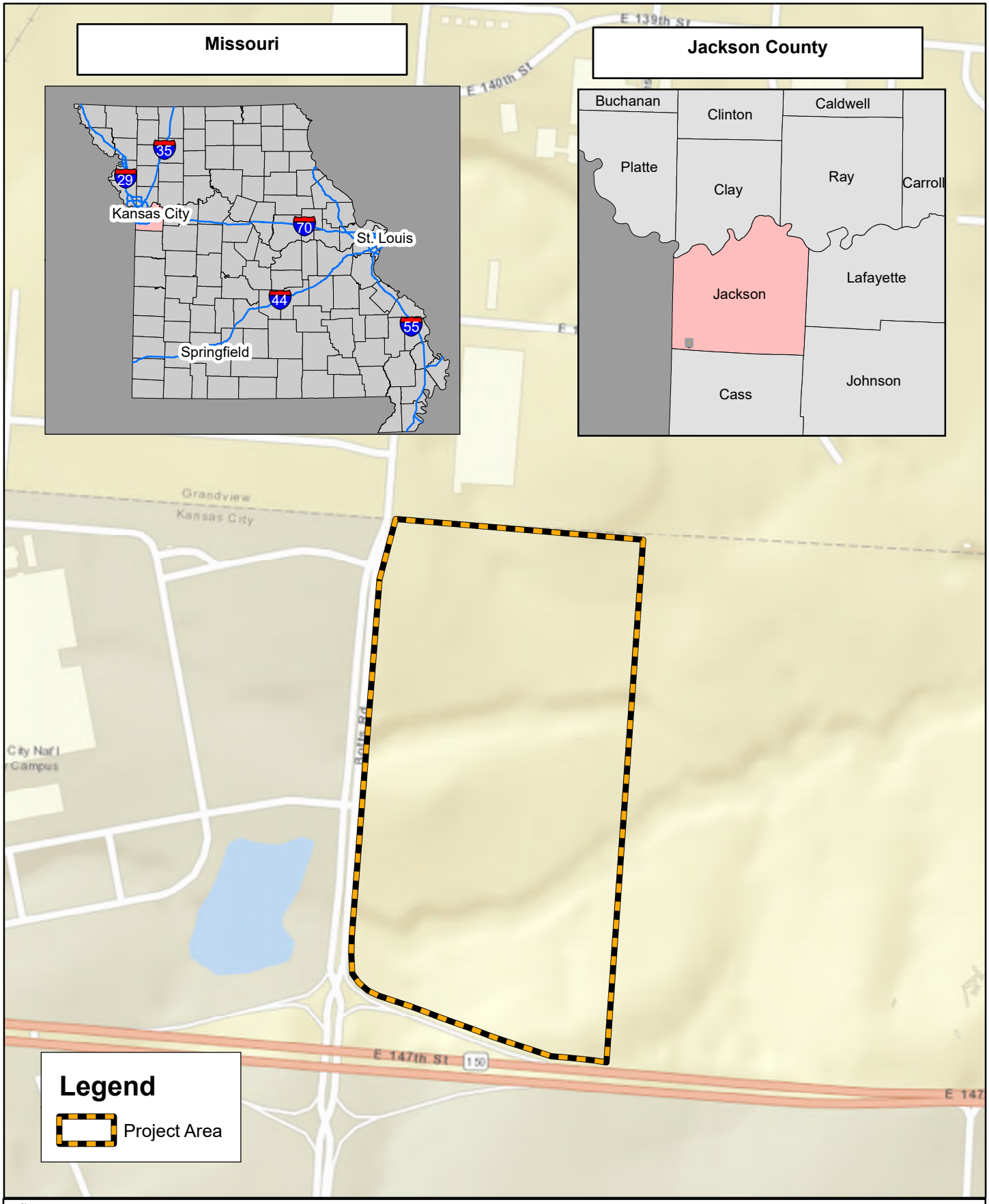


Ted Hartsig

Reviewer

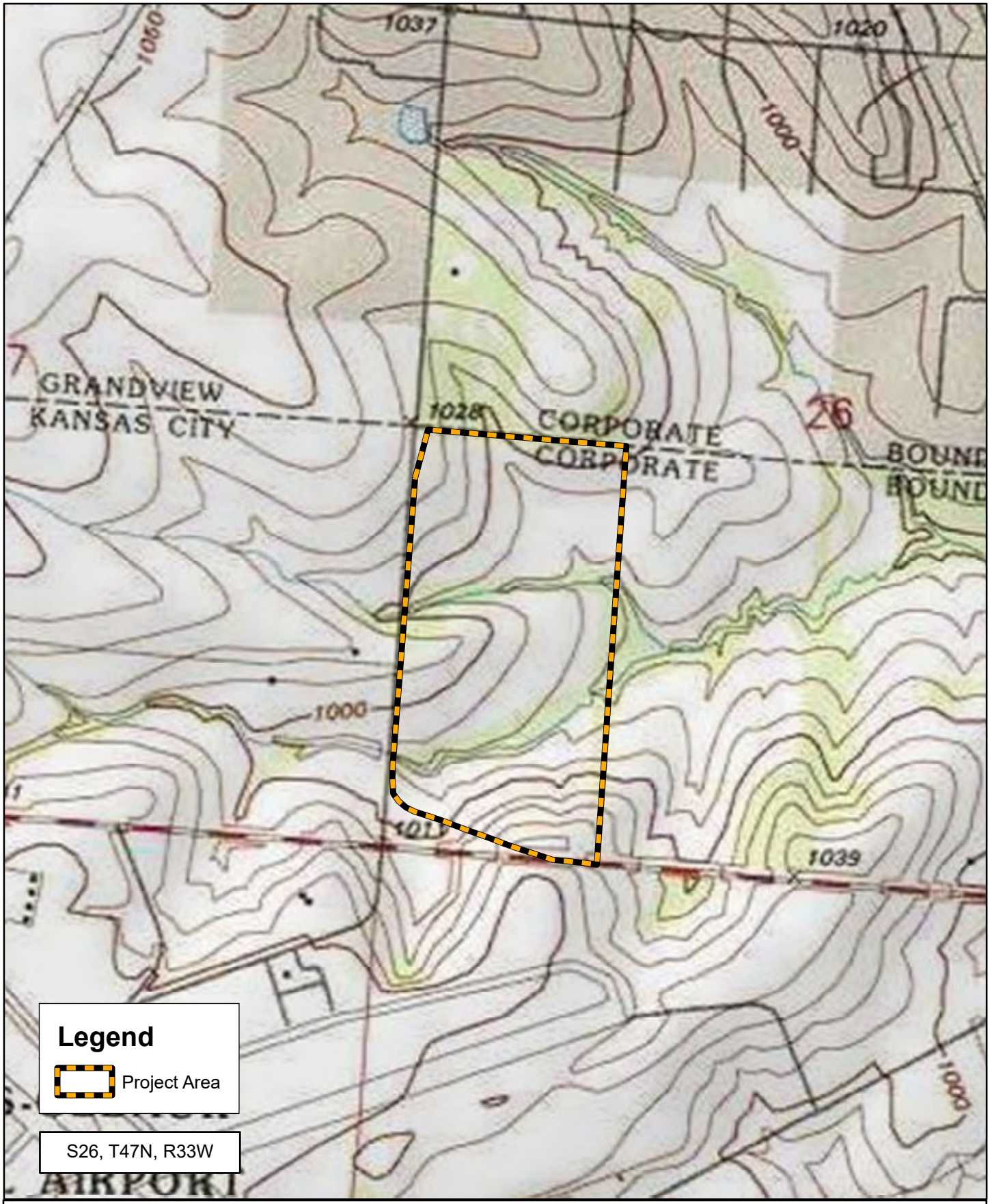
APPENDIX A

Figures



Project Number: 019-1871 *Drawn By: KK* *Revision Date: 7/12/2019*	**Location Map** Botts Road and MO-150 Highway Kansas City, Missouri	DISCLAIMER : This Geographic Information System (GIS) and its components are designed as a source of reference for answering inquiries, for planning and for modeling. GIS is not intended, nor does it replace legal description information in the chain of title and other information contained in official government records such as the County Clerk and Recorders office or the courts. In addition, the representations of locations in this GIS cannot be substituted for actual legal surveys.	olsson 7301 W. 133rd Street Suite 200 Overland Park, Kansas 66213 P: 913.381.1170 F: 913.381.1174	Figure 1

F:\2019\1501-2000\019-1871\40-Design\Reports\GIS\MXD\Ex1_Location_Missouri.mxd



Project Number: 019-1871 *Drawn By: KK* *Revision Date: 7/12/2019*	**Topographic Map** Botts Road and MO-150 Highway Kansas City, Missouri	DISCLAIMER : This Geographic Information System (GIS) and its components are designed as a source of reference for answering inquiries, for planning and for modeling. GIS is not intended, nor does it replace legal description information in the chain of title and other information contained in official government records such as the County Clerk and Recorders office or the courts. In addition, the representations of locations in this GIS cannot be substituted for actual legal surveys.	olsson 7301 W. 133rd Street Suite 200 Overland Park, Kansas 66213 P: 913.381.1170 F: 913.381.1174	Figure **2**

F:\2019\1501-2000\019-1871\40-Design\Reports\GIS\MXD\Ex2_Topo_Missouri.mxd



Project Number: 019-1871 *Drawn By: KK* *Revision Date: 7/12/2019*	**Aerial Map** Botts Road and MO-150 Highway Kansas City, Missouri	DISCLAIMER : This Geographic Information System (GIS) and its components are designed as a source of reference for answering inquiries, for planning and for modeling. GIS is not intended, nor does it replace legal description information in the chain of title and other information contained in official government records such as the County Clerk and Recorders office or the courts. In addition, the representations of locations in this GIS cannot be substituted for actual legal surveys.	olsson 7301 W. 133rd Street Suite 200 Overland Park, Kansas 66213 P: 913.381.1170 F: 913.381.1174	Figure **3**

F:\2019\1501-2000\019-1871\40-Design\Reports\GIS\MXD\Ex3_Aerial_Missouri.mxd

APPENDIX B

User Questionnaire

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

Property Name:

Property Address:

Introduction

In order to qualify for one of the Landowner Liability Protections (LLPs)187 offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "Brownfields Amendments"),188 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.

Land title records were reviewed via a review of current title commitment #191196 and associated exception documents as issued through Chicago Title Company dated 05/30/2019

No review of judicial records.

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.

No land use restrictions were observed after review of current title commitment #191196 and associated exception documents as issued through Chicago Title Company dated 05/30/2019

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.

No specialized knowledge or experience related to the property

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.

Purchase price reflects fair market value

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.

Have no prior knowledge about the property

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.

Nothing readily obvious or apparent based upon visual observations

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

NO

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

NO

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

NO

---

10. Purpose for completing the ESA

Potential Acquisition

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

No physical address has been assigned by KCMO. Location is the NE corner of Botts Road and Mo Route 150 Hwy in Jackson County. Assessor's map has been included.

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

Land is zoned agricultural, anticipated transaction is a land purchase

13. List any special Phase I ESA terms and conditions, and all parties who will be relying on the report.

No special terms and conditions. Buyer and Seller will rely on this Phase 1 ESA.

14. Property contact name and information (telephone, email, etc.).

Owner questionnaire has been forwarded to the property owner.

Prospective purchaser is:

Promontory 150 LLC

4435 Main Street, Ste 920

Kansas City Missouri 64111

c/o Jerry Murphy

This questionnaire was completed by:

2-10-2020

Name: Scott Cargill Date

Member Promontory 150 LLC

Title Company Name: Promontory 150 LLC

Relationship to the property

Telephone

Note to File Regarding a Phase 1 Environmental Questionnaire on the Botts Road Property.

Meetings with Current and Former Permittee Farmers

February 17 & 18, 2020

Current Permittee Farmer:

I met with Joel Parris at 2:00pm on February 17, 2020 to discuss the Olsson Phase 1 Environmental Site Assessment User Questionnaire regarding the Botts Road property. Mr. Parris has farmed the subject ground for two years. He has been on the subject property regularly throughout the year. During his time leasing the subject property, there have been no environmental issues.

With regards to Question #5, the subject property has been farmed using environmentally acceptable farming practices. There have been no chemical spills and, therefore, no environmental cleanups on the subject property.

With regards to Question #6, Mr. Parris noted that there were no signs of contamination on the subject property and the vegetation present showed no unusual growth.

Mr. Parris had no knowledge of any other information pertinent to the Phase 1 Environmental Site Assessment User Questionnaire.

Former Permittee Farmer:

I met with Mick Effertz at 11:00am on February 18, 2020 to discuss to Olsson Phase 1 Environmental Site Assessment User Questionnaire regarding the Botts Road property. Mr. Effertz had farmed to subject property for 15-20 years prior to Mr. Parris.

With regards to Question #5, the subject property has been farmed using environmentally acceptable farming practices. He indicated that there have been no chemical spills and, therefore, no environmental cleanups on the subject property.

With regards to Question #6, Mr. Effertz did not recall any evidence of contamination on the subject property.

Mr. Effertz had no knowledge of any other information pertinent to the Phase 1 Environmental Site Assessment User Questionnaire.

Respectfully Submitted,

Joseph Werner

Joseph Werner, Broker
Resolute Real Estate Services, LLC

APPENDIX C

Historical Information

Botts 150

Botts Road/Missouri 150

Grandview, MO 64030

Inquiry Number: 5702388.4

June 28, 2019

EDR Historical Topo Map Report

with QuadMatch™

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

EDR Historical Topo Map Report

06/28/19

Site Name:	Client Name:
Botts 150	Olsson
Botts Road/Missouri 150	7301 West 133rd Street
Grandview, MO 64030	Overland Park, KS 66213
EDR Inquiry # 5702388.4	Contact: Rachael Reis

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. EDRs 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:*	
P.O.#	019-1871	**Latitude:**	38.86271 38° 51' 46" North
Project:	Botts 150	**Longitude:**	-94.543686 -94° 32' 37" West
		UTM Zone:	Zone 15 North
		UTM X Meters:	366068.11
		UTM Y Meters:	4302673.77
		Elevation:	995.81' above sea level

Maps Provided:

2015
1995
1975
1970
1953, 1957
1934
1893
1887

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Topo Sheet Key

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

2015 Source Sheets



Grandview
2015
7.5-minute, 24000



Belton
2015
7.5-minute, 24000

1995 Source Sheets



Belton
1995
7.5-minute, 24000
Aerial Photo Revised 1991



Grandview
1995
7.5-minute, 24000
Aerial Photo Revised 1991

1975 Source Sheets



Belton
1975
7.5-minute, 24000
Aerial Photo Revised 1975



Grandview
1975
7.5-minute, 24000
Aerial Photo Revised 1975

1970 Source Sheets



Belton
1970
7.5-minute, 24000
Aerial Photo Revised 1970



Grandview
1970
7.5-minute, 24000
Aerial Photo Revised 1970

Topo Sheet Key

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

1953, 1957 Source Sheets



Belton
1953
7.5-minute, 24000
Aerial Photo Revised 1948



Grandview
1957
7.5-minute, 24000
Aerial Photo Revised 1955

1934 Source Sheets



Belton
1934
7.5-minute, 24000

Grandview
1934
7.5-minute, 24000

1893 Source Sheets



Olathe
1893
30-minute, 125000

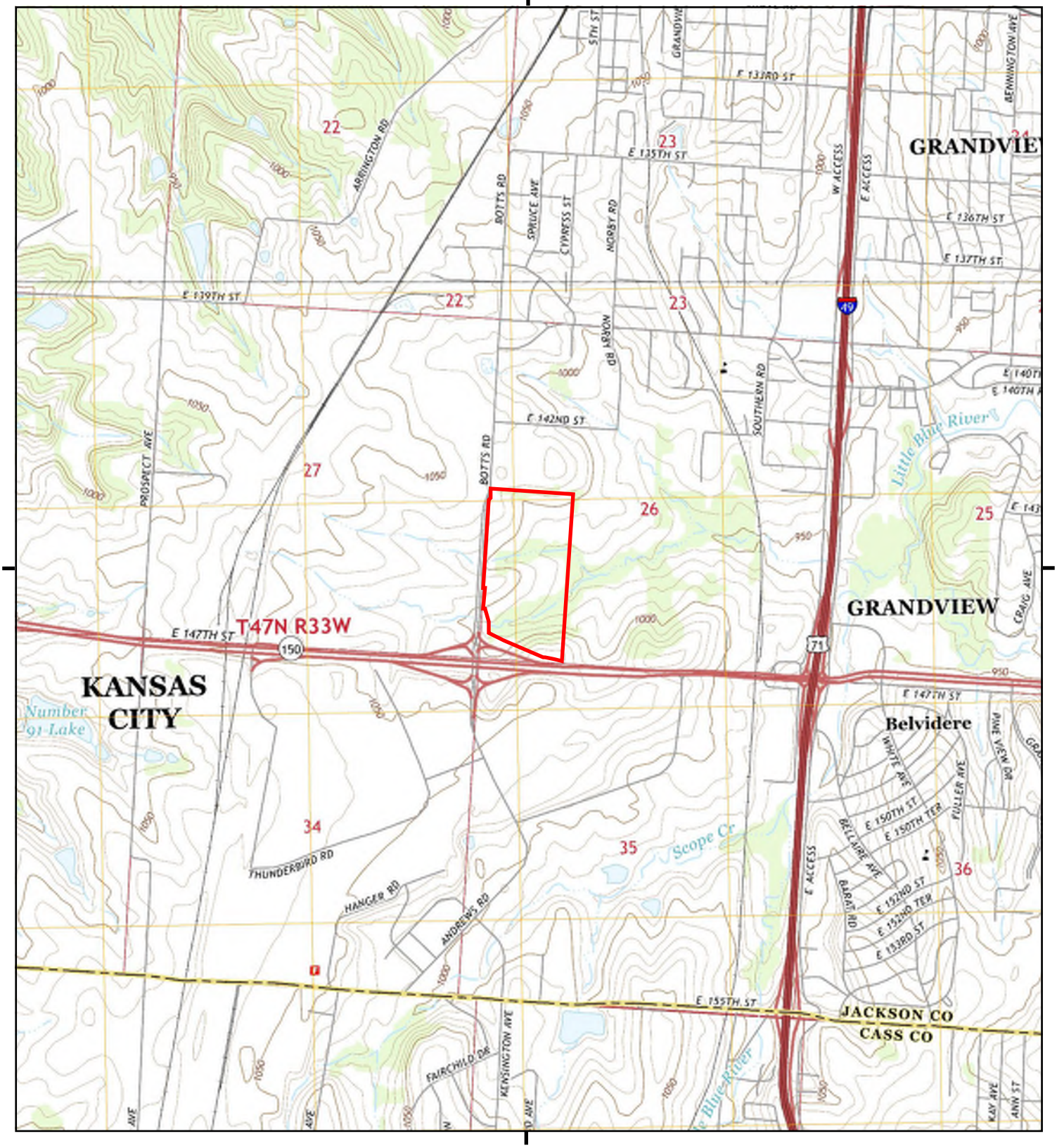
1887 Source Sheets



Olathe
1887
30-minute, 125000

Historical Topo Map

2015



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W E
SW S SE

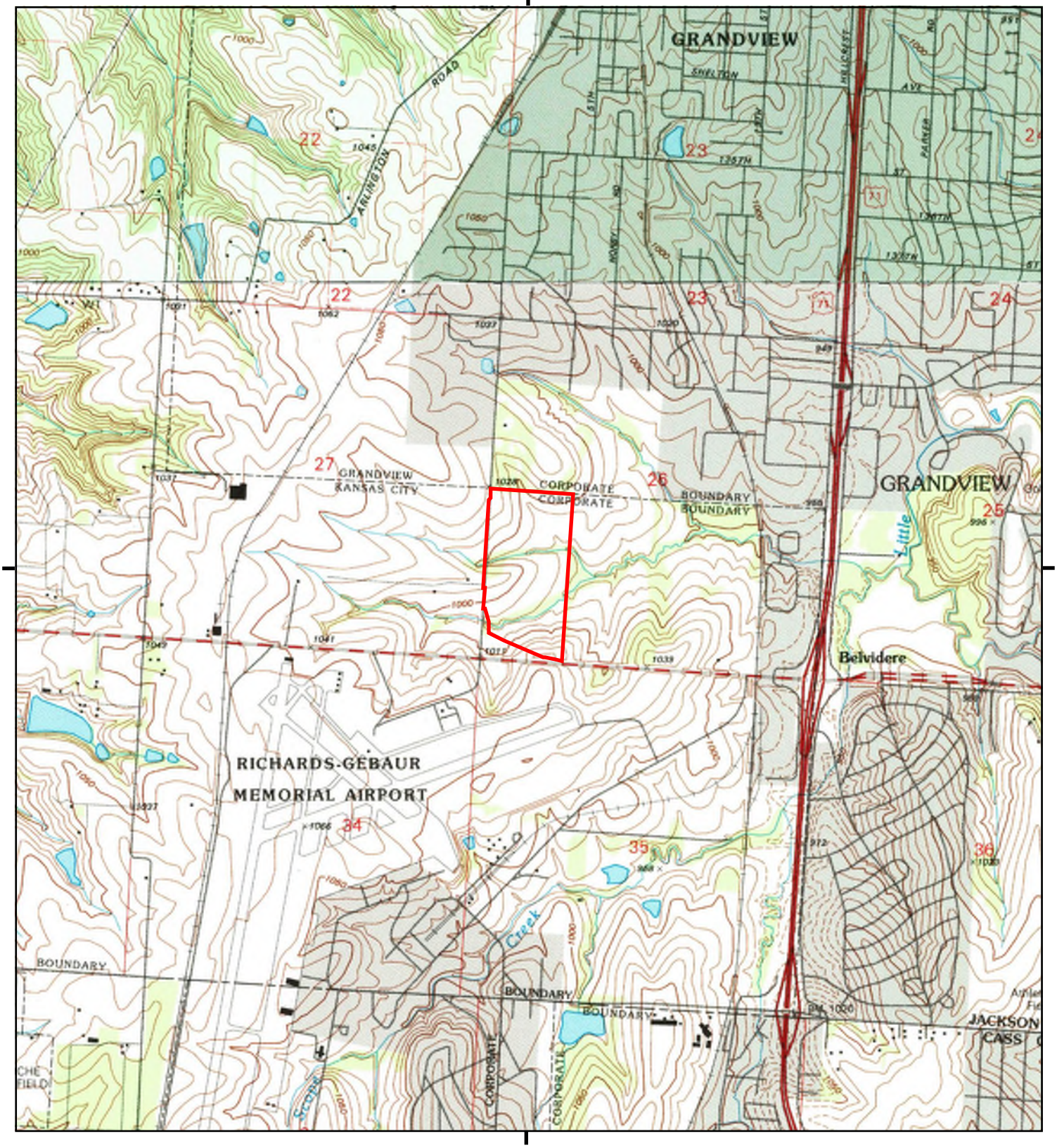
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N, Grandview, 2015, 7.5-minute

SITE NAME: Botts 150
ADDRESS: Botts Road/Missouri 150
Grandview, MO 64030
CLIENT: Olsson

N

Historical Topo Map

1995



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SW S SE

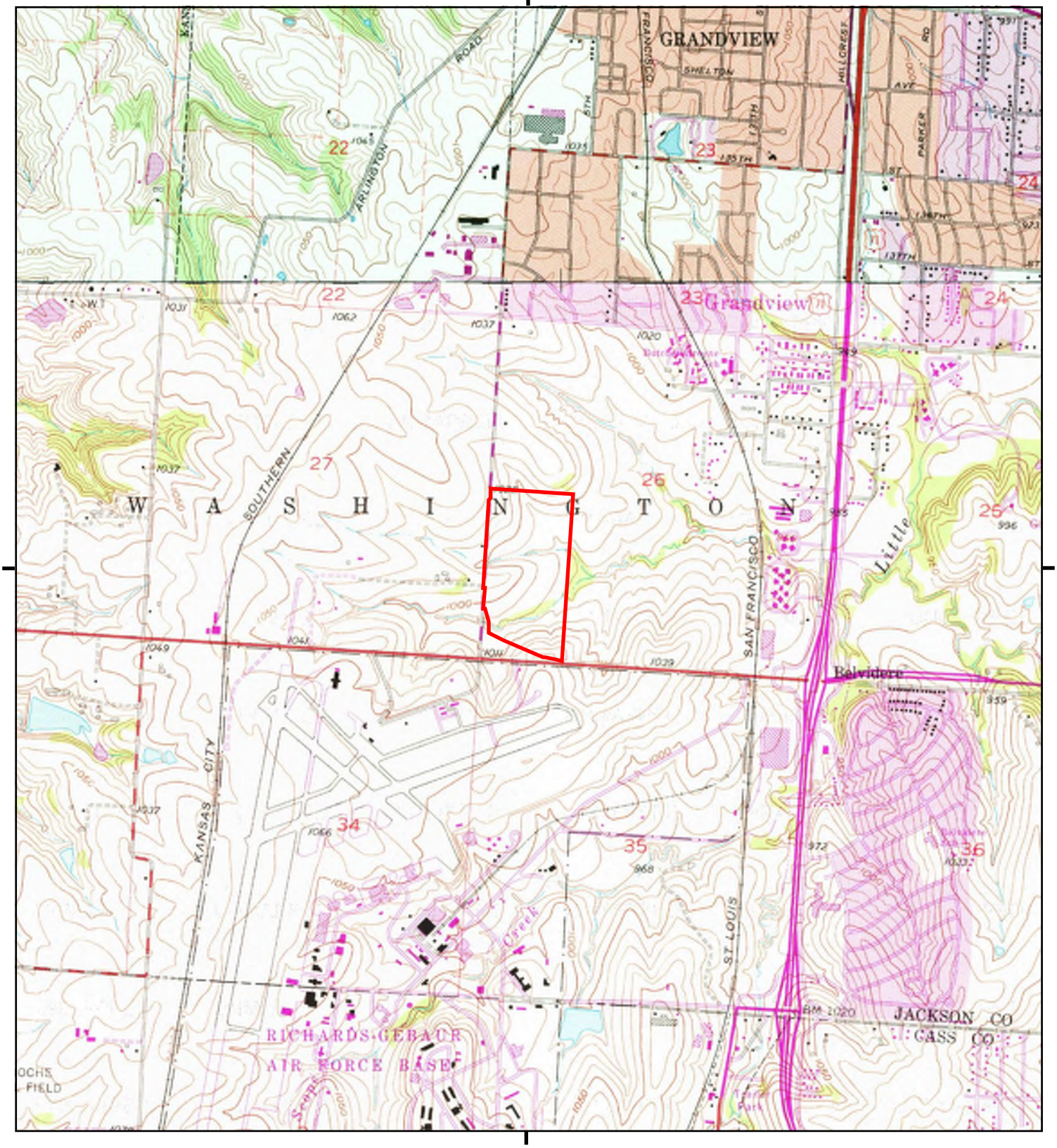
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ADDRESS: Botts Road/Missouri 150
Grandview, MO 64030
CLIENT: Olsson

N

Historical Topo Map

1975



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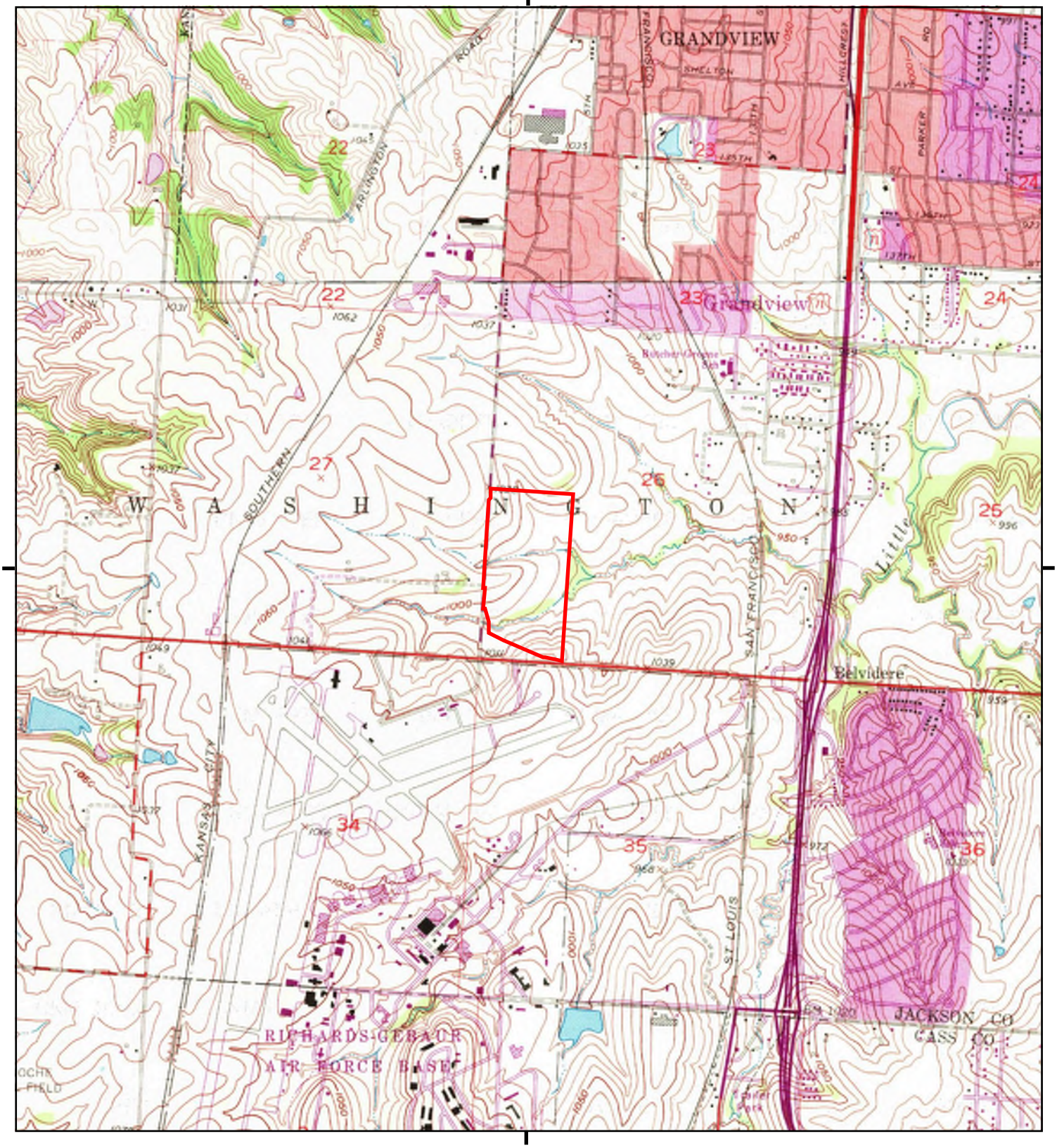
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N, Grandview, 1975, 7.5-minute

SITE NAME: Botts 150
ADDRESS: Botts Road/Missouri 150
Grandview, MO 64030
CLIENT: Olsson

N

Historical Topo Map

1970



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SW S SE

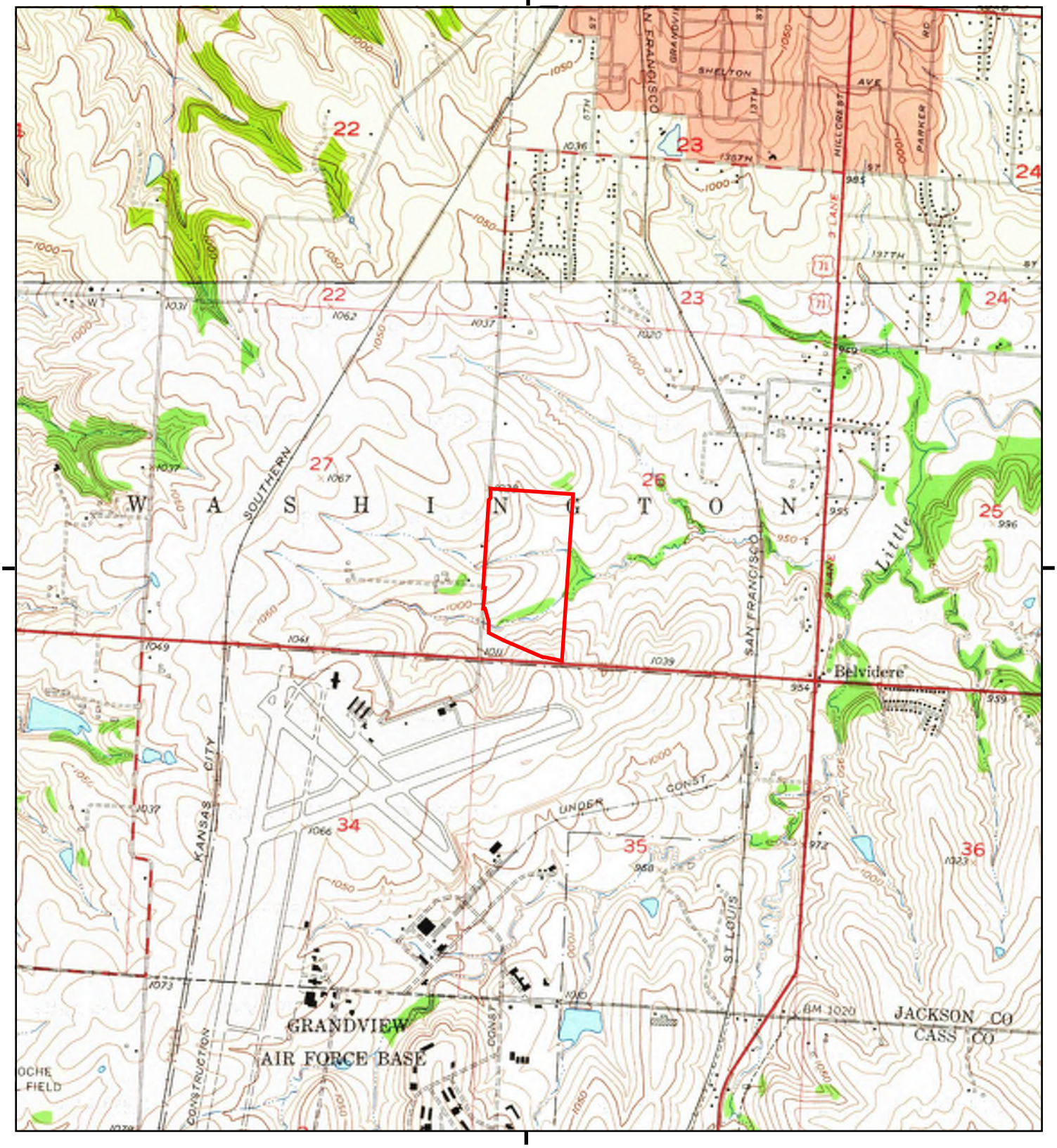
TP, Belton, 1970, 7.5-minute
N, Grandview, 1970, 7.5-minute

SITE NAME: Botts 150
ADDRESS: Botts Road/Missouri 150
Grandview, MO 64030
CLIENT: Olsson

N

Historical Topo Map

1953, 1957



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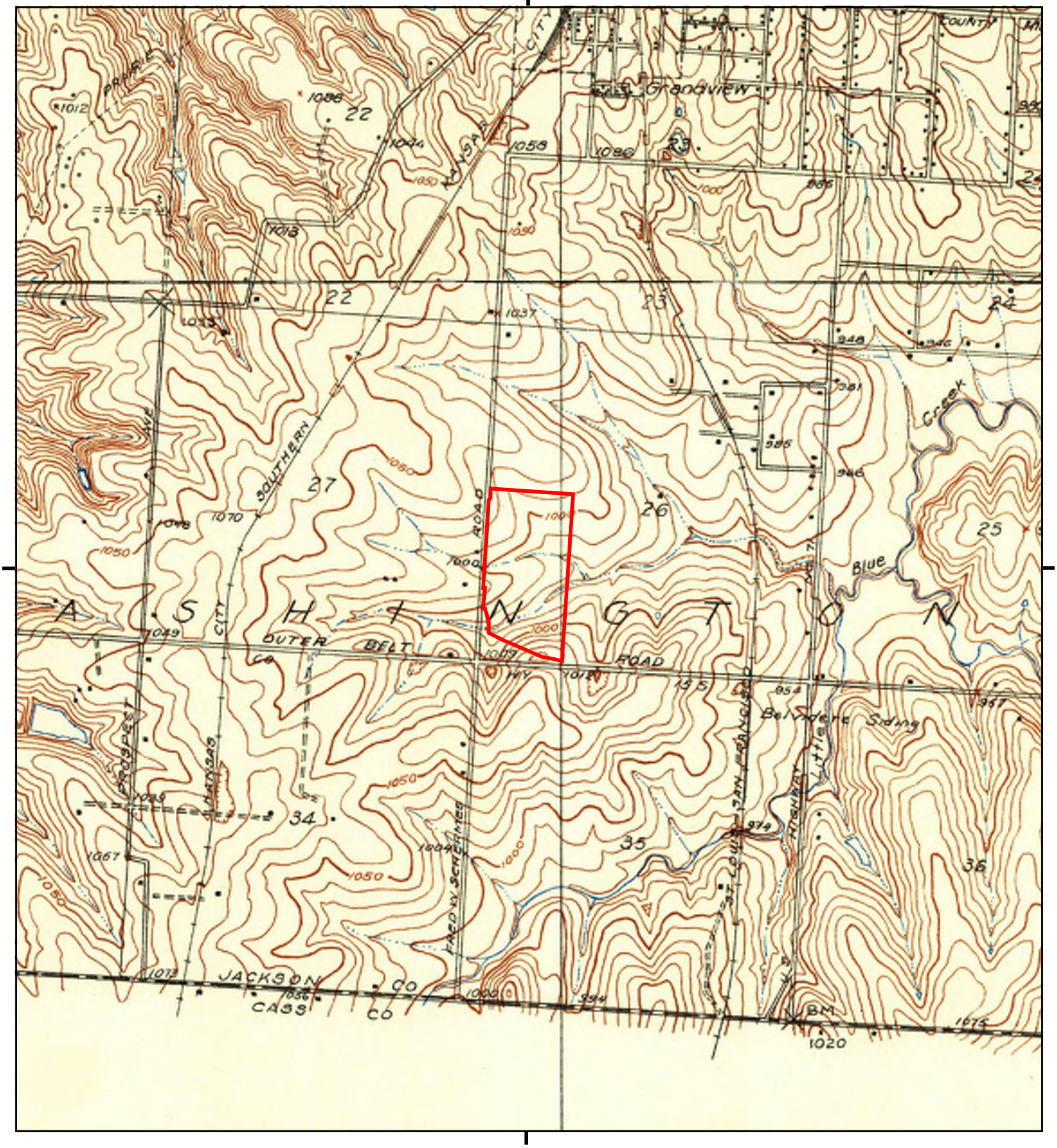
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NW N NE
W E
SW S SE

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N, Grandview, 1957, 7.5-minute

SITE NAME: Botts 150
ADDRESS: Botts Road/Missouri 150
Grandview, MO 64030
CLIENT: Olsson

N



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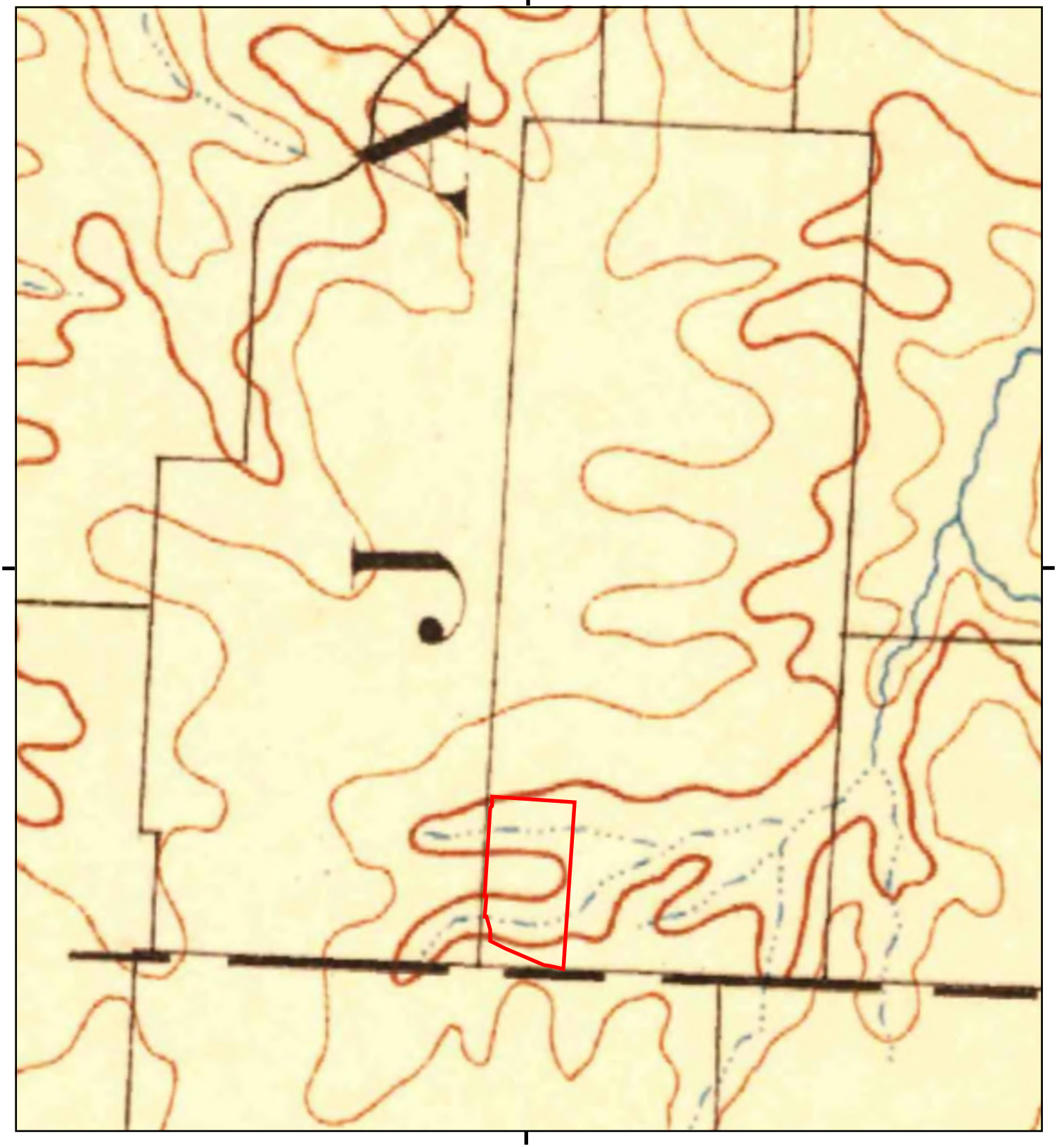
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W E
SW S SE

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ADDRESS: Botts Road/Missouri 150
Grandview, MO 64030
CLIENT: Olsson

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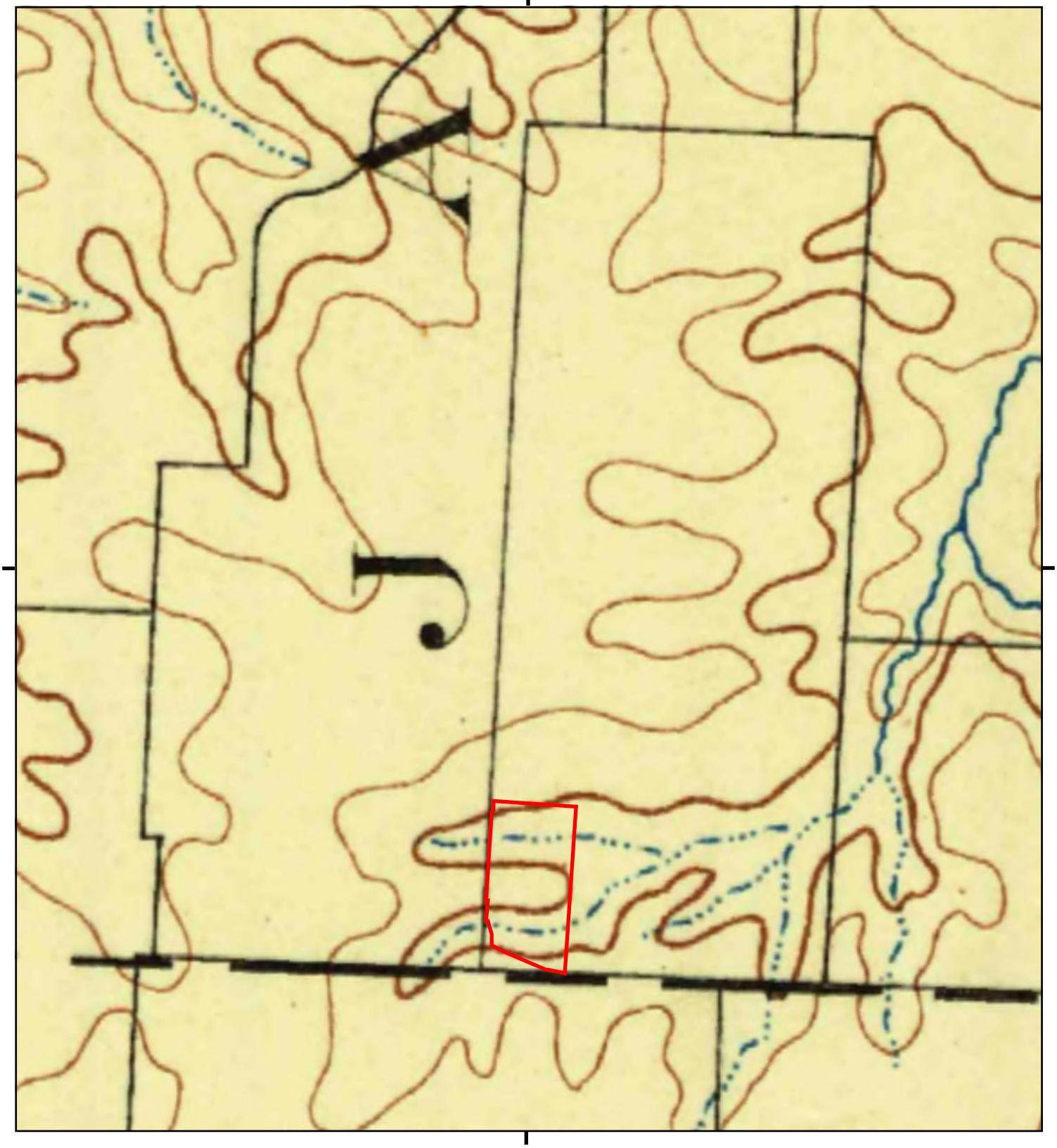
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W E
SW S SE

TP, Olathe, 1893, 30-minute

SITE NAME: Botts 150
ADDRESS: Botts Road/Missouri 150
Grandview, MO 64030
CLIENT: Olsson

N



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

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NW N NE
W E
SW S SE

TP, Olathe, 1887, 30-minute

SITE NAME: Botts 150
ADDRESS: Botts Road/Missouri 150
Grandview, MO 64030
CLIENT: Olsson

N

Botts 150

Botts Road/Missouri 150

Grandview, MO 64030

Inquiry Number: 5702388.8

June 29, 2019

The EDR Aerial Photo Decade Package

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

EDR Aerial Photo Decade Package

06/29/19

Site Name:

Botts 150
Botts Road/Missouri 150
Grandview, MO 64030
EDR Inquiry # 5702388.8

Client Name:

Olsson
7301 West 133rd Street
Overland Park, KS 66213
Contact: Rachael Reis

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:

Year	Scale	Details	Source
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
1997	1"=500'	Acquisition Date: March 22, 1997	USGS/DOQQ
1990	1"=500'	Flight Date: February 07, 1990	USGS
1985	1"=500'	Flight Date: June 28, 1985	NHAP
1981	1"=500'	Flight Date: November 11, 1981	NHAP
1979	1"=500'	Flight Date: August 07, 1979	USDA
1976	1"=500'	Flight Date: March 27, 1976	USDA
1969	1"=500'	Flight Date: September 30, 1969	USDA
1957	1"=500'	Flight Date: June 10, 1957	USDA
1952	1"=500'	Flight Date: October 23, 1952	USDA
1948	1"=500'	Flight Date: September 11, 1948	USGS
1940	1"=500'	Flight Date: September 25, 1940	USDA
1936	1"=500'	Flight Date: August 21, 1936	USDA

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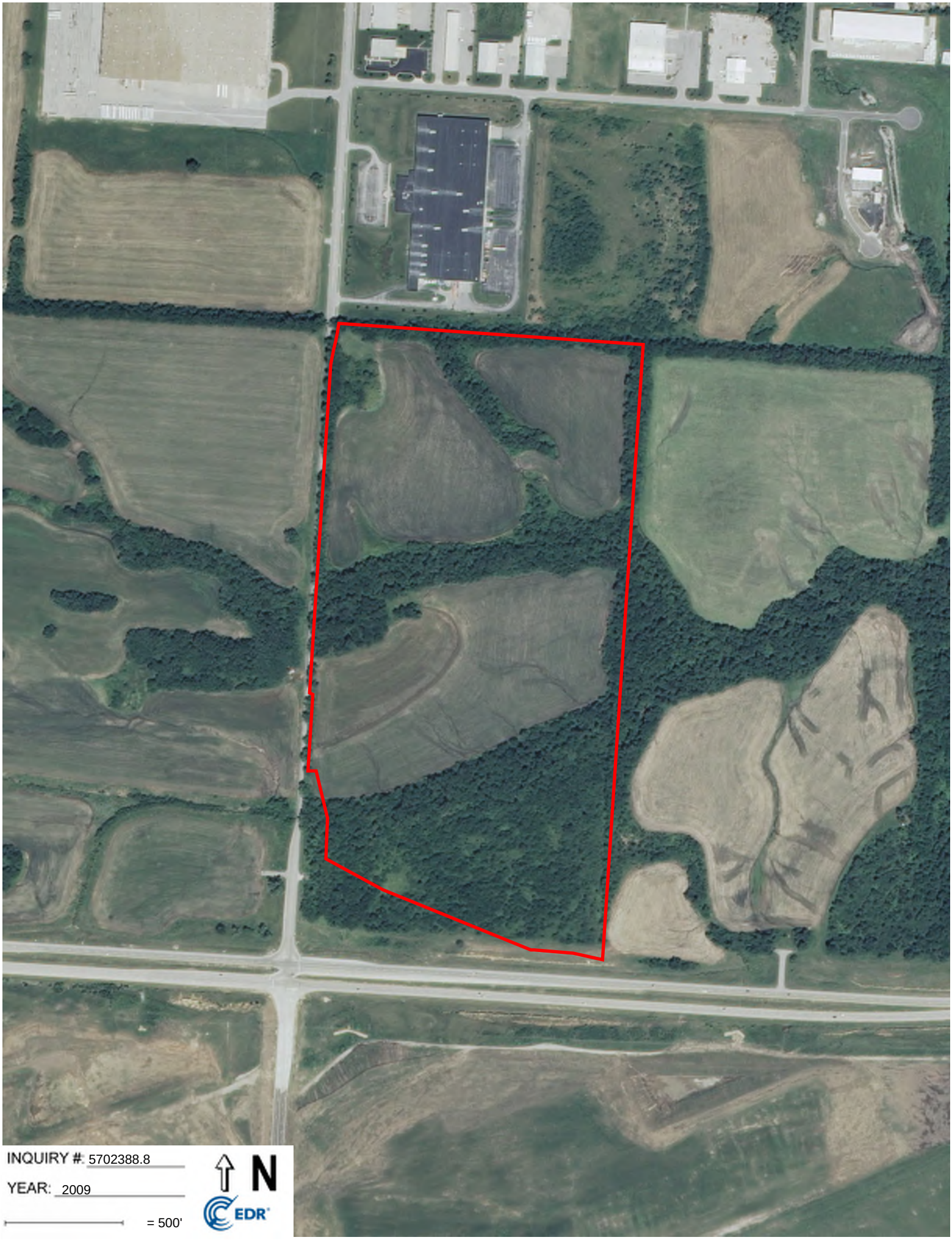
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INQUIRY #: 5702388.8
YEAR: 2016
= 500'
N
EDR


INQUIRY #: 5702388.8
YEAR: 2012
= 500'
N
EDR


INQUIRY #: 5702388.8
YEAR: 2009
= 500'
N
EDR

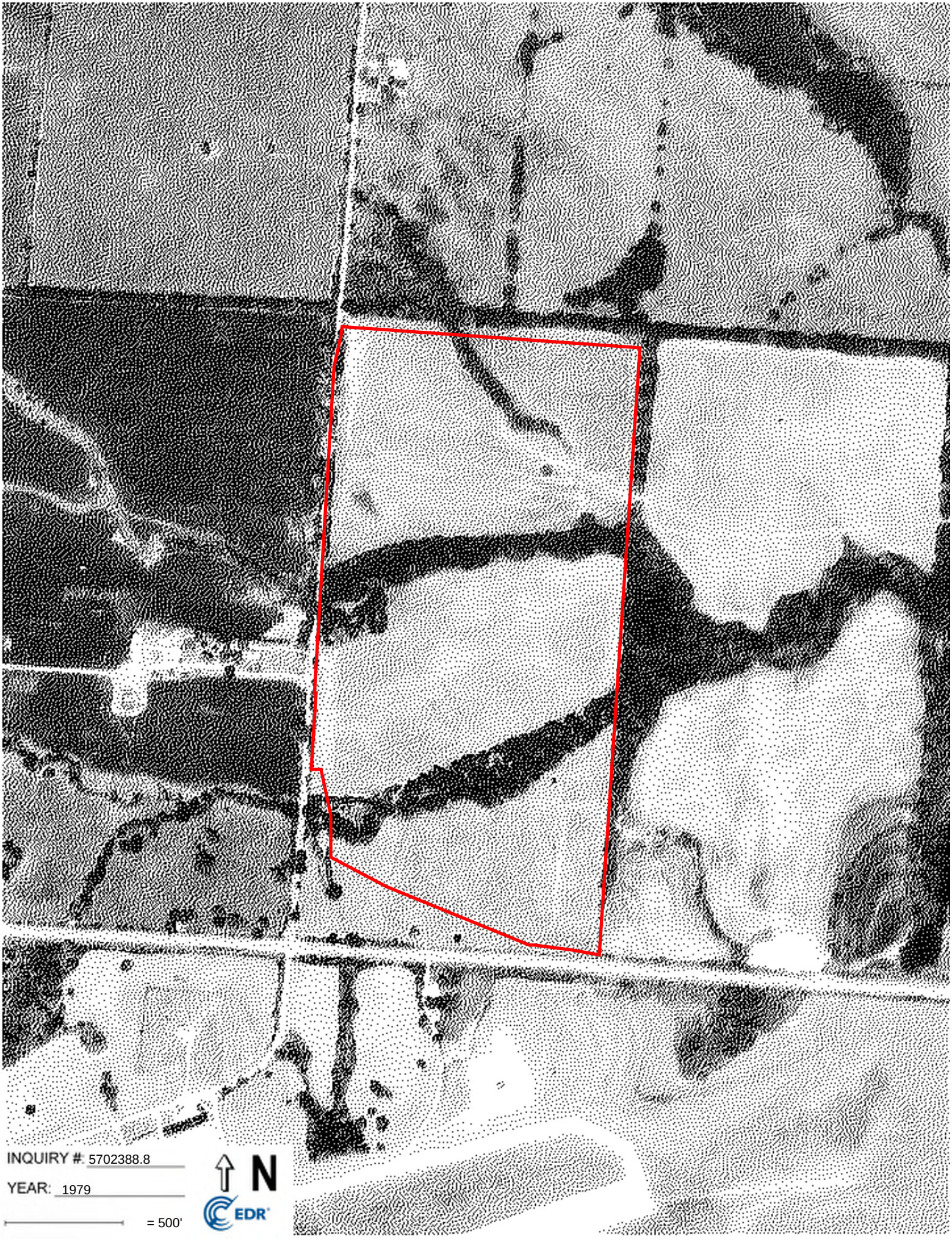

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YEAR: 2006
= 500'
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EDR


INQUIRY #: 5702388.8
YEAR: 1997
= 500'
N
EDR

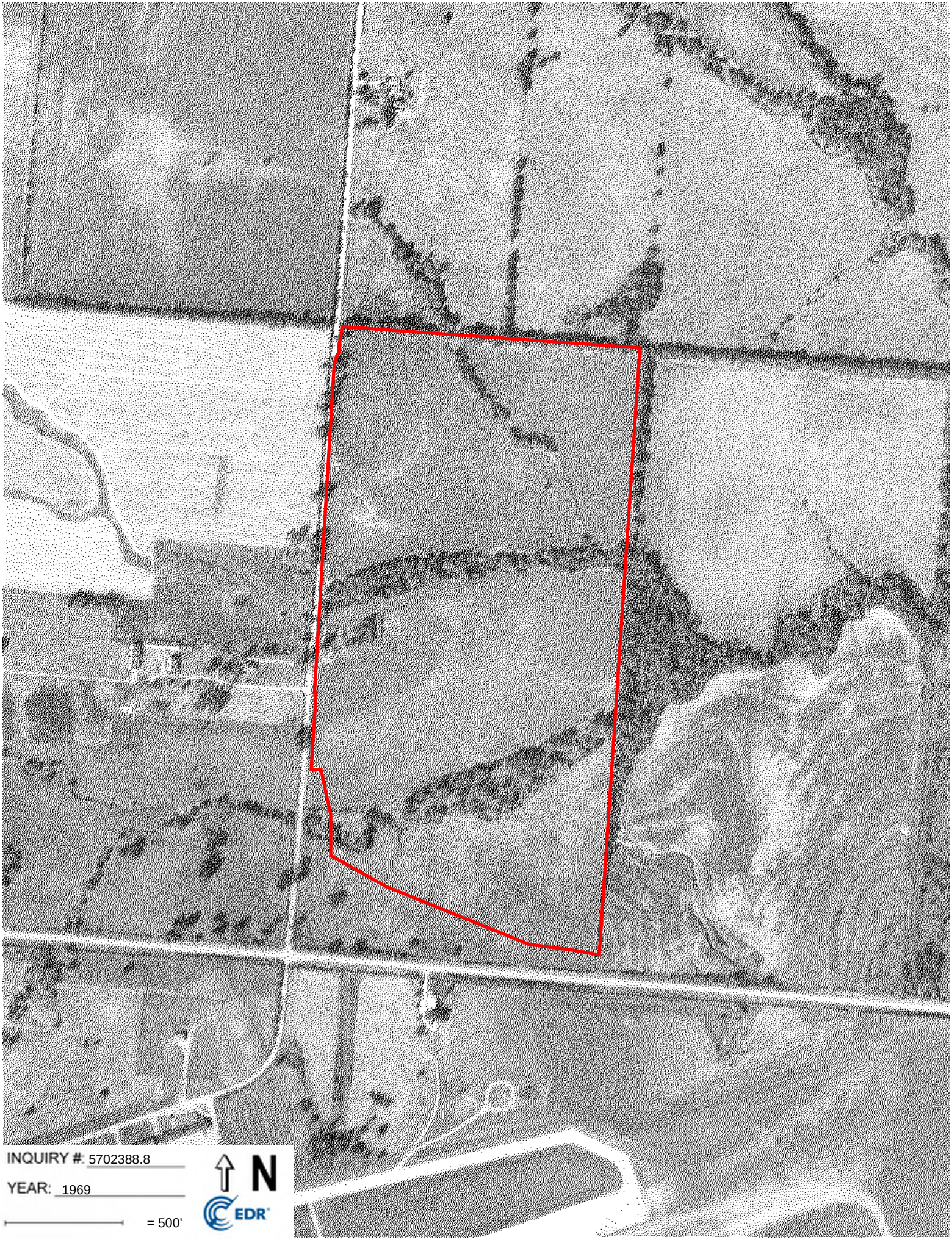

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EDR

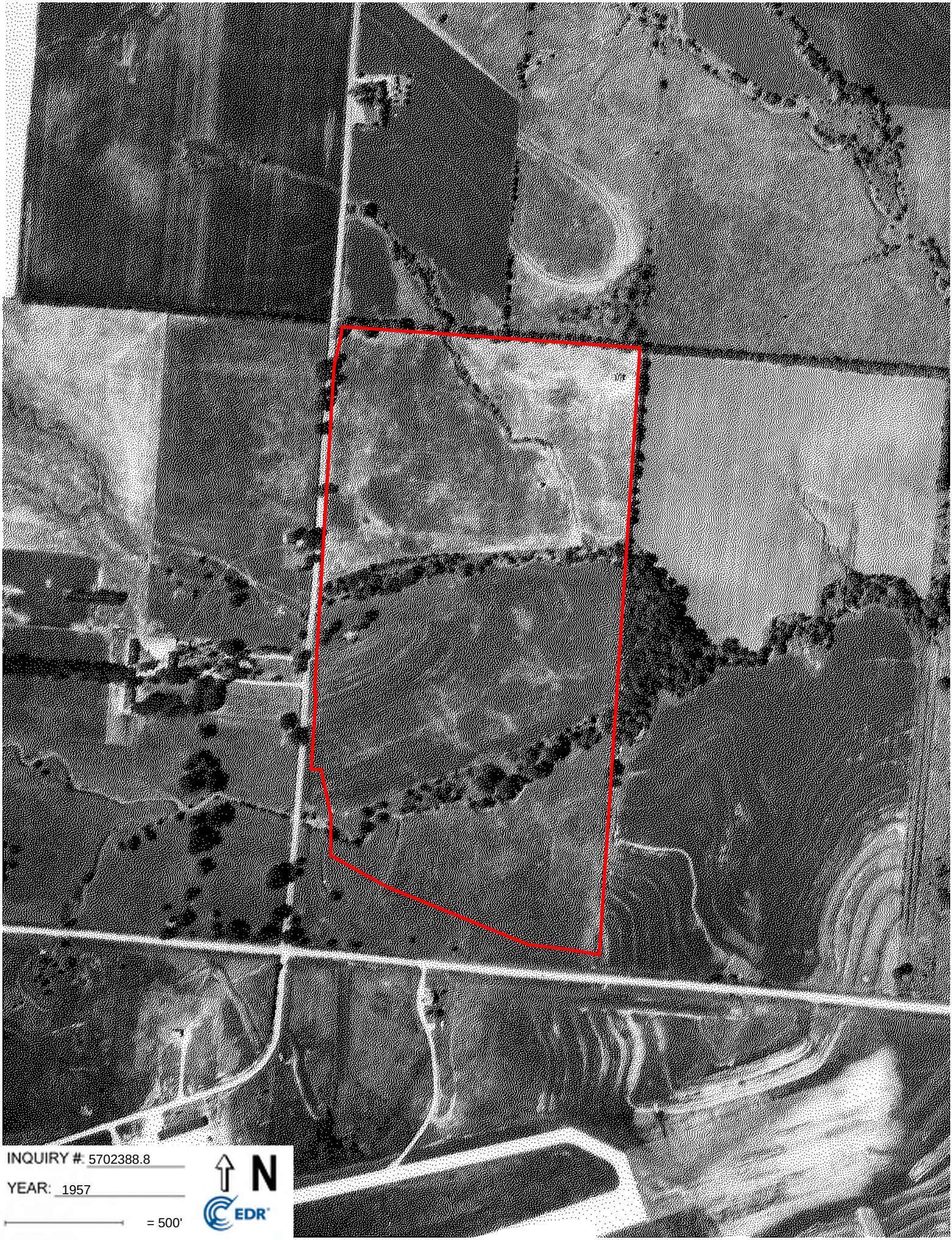

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YEAR: 1985
= 500'
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EDR


INQUIRY #: 5702388.8
YEAR: 1981
= 500'
N
EDR


INQUIRY #: 5702388.8
YEAR: 1979
= 500'
N
EDR


INQUIRY #: 5702388.8
YEAR: 1976
= 500'
N
EDR


INQUIRY #: 5702388.8
YEAR: 1969
= 500'
N
EDR



INQUIRY #: 5702388.8

YEAR: 1957

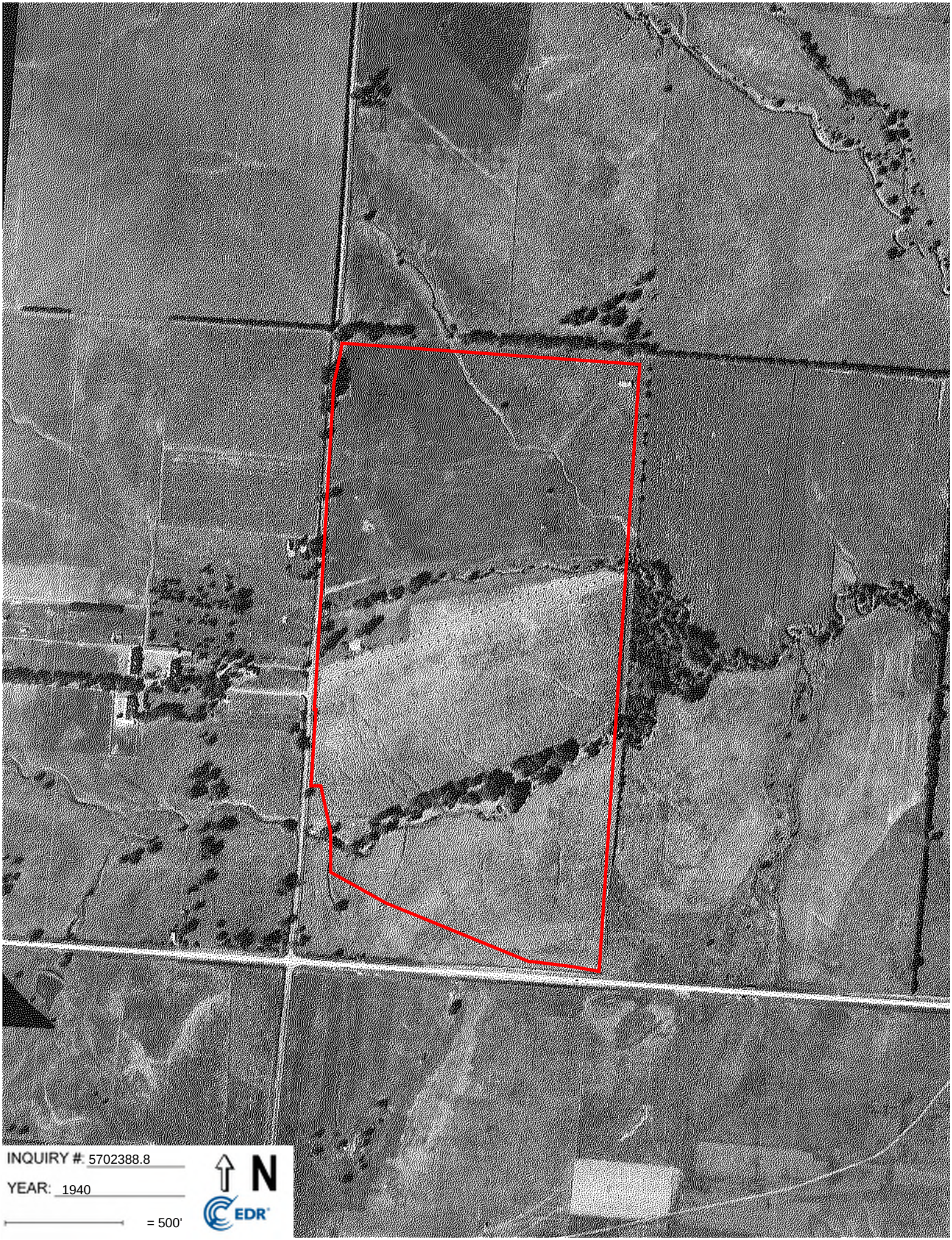
= 500'

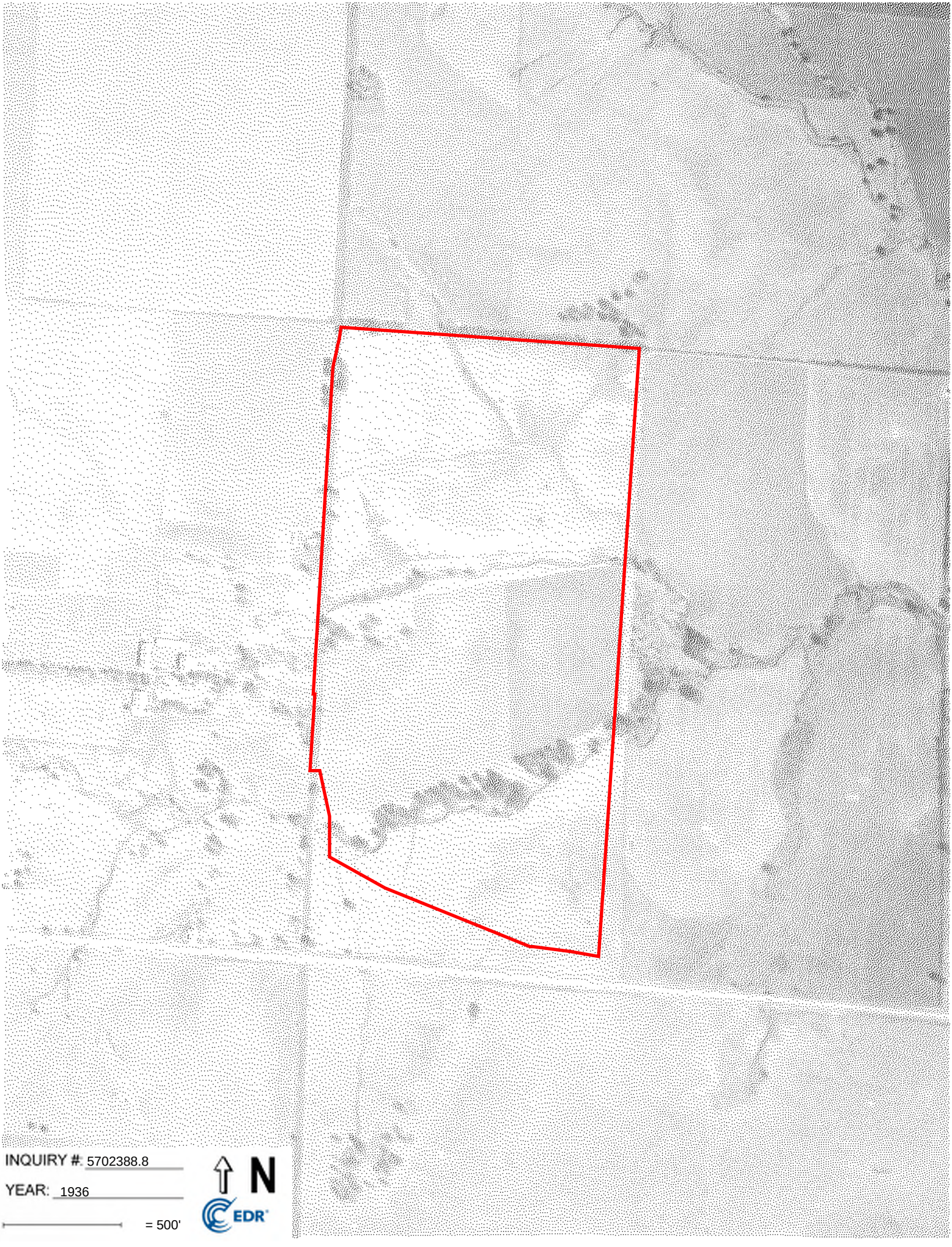
N

EDR


INQUIRY #: 5702388.8
YEAR: 1952
= 500'
N
EDR


INQUIRY #: 5702388.8
YEAR: 1948
= 500'
N
EDR


INQUIRY #: 5702388.8
YEAR: 1940
= 500'
N
EDR


INQUIRY #: 5702388.8
YEAR: 1936
= 500'
N
EDR

Botts 150
Botts Road/Missouri 150
Grandview, MO 64030

Inquiry Number: 5702388.5
July 02, 2019

The EDR-City Directory Image Report

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
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EXECUTIVE SUMMARY

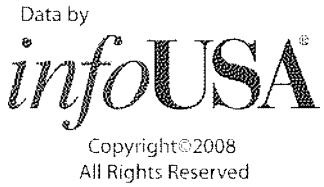
DESCRIPTION

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.

Year	Target Street	Cross Street	Source
2014	☑	☐	EDR Digital Archive
2010	☑	☐	EDR Digital Archive
2005	☑	☐	EDR Digital Archive
2000	☑	☐	EDR Digital Archive
1995	☑	☐	EDR Digital Archive
1992	☑	☐	EDR Digital Archive
1976	☑	☐	Polk's City Directory
1974	☑	☐	Polk's City Directory

FINDINGS

TARGET PROPERTY STREET

Botts Road/Missouri 150
Grandview, MO 64030

Year	*CD Image*	*Source*
BOTTS RD		
2014	pg A1	EDR Digital Archive
2010	pg A4	EDR Digital Archive
2005	pg A7	EDR Digital Archive
2000	pg A9	EDR Digital Archive
1995	pg A12	EDR Digital Archive
1992	pg A15	EDR Digital Archive
1976	pg A17	Polk's City Directory
1974	pg A19	Polk's City Directory
E 150 HWY		
2014	pg A2	EDR Digital Archive
2010	pg A5	EDR Digital Archive
2000	pg A10	EDR Digital Archive
1995	pg A13	EDR Digital Archive
1992	pg A16	EDR Digital Archive
E STATE ROUTE 150		
2014	pg A3	EDR Digital Archive
2010	pg A6	EDR Digital Archive
2005	pg A8	EDR Digital Archive
2000	pg A11	EDR Digital Archive
1995	pg A14	EDR Digital Archive
1976	pg A18	Polk's City Directory
1974	pg A20	Polk's City Directory

FINDINGS

CROSS STREETS

No Cross Streets Identified

City Directory Images

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

BOTTS RD 2014

13500	BLUESCOPE BUILDINGS N AMER INC
	BUTLER RESEARCH & DEVELOPMENT
13529	NORBERTO, ANENSKY
13531	OCCUPANT UNKNOWN,
13535	OCCUPANT UNKNOWN,
13599	GARY, GARRY W
13601	BOWERS, LINDA S
13605	GLASS RANDY
	GLASS, RANDY L
13607	CAMPBELL, KRISTEN
13609	ANDERSON, NICK R
13611	HANKINS, DAVID L
13701	SCHMIDT, LARRY G
13705	MADISON, MAURICE W
13709	FOSTER, GLENDA E
13711	BENNETT, DENNIS D
13715	SISK, PAT A
13720	CEDAR CREEK CORP
13801	DAVIS, ERIN L
13805	MATEO, RAUL
	RAUL MATEO
13809	COONCE, JAMES
13811	OCCUPANT UNKNOWN,
13815	JOHNSON, KEITH D
13819	COAKER, DOUGLAS
13823	WINSCH, JAMES J
13827	OCCUPANT UNKNOWN,
13830	CARAVAN INGREDIENTS INC
	CORBION GROUP
13831	BOWMAN, LEESA R
13835	OCCUPANT UNKNOWN,
14001	ELLIOTT EQUIPMENT COMPANY
14021	MAR JIM CONTRACTING LLC
	SHAMROCK WEST LLC
14100	BOTTS ROAD ASSOCIATES LLC
	STERLING SUPPLY
14101	ALL KC SUPPLY INC
	EURO TOOL INC
14120	CARAVAN INGREDIENTS INC
	CORBION GROUP
14140	BEST WAY LOGISTICS
14201	SIKA CORPORATION

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

E 150 HWY 2014

6001 GATEWAY AUTO PLAZA LLC
OLD CAR STORE
13012 SUBURBAN ELECTRIC CO INC

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

E STATE ROUTE 150 2014

5900	AMERICAN HEARTLAND-KS CITY CHA
	GAILS POWERSPORTS INC
6200	SONIC DRIVE-IN
6900	ALLEN, DON
8203	POTTER, KENNETH T

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

BOTTS RD 2010

13500 BLUESCOPE BUILDINGS N AMER INC
BUTLER RESEARCH & DEVELOPMENT
13529 NUNEZ, JOSE D
13531 VEIDICK, JAMES F
13599 GARY, GARRY W
13601 HASH, GARY M
13605 GLASS RANDY
GLASS, RANDY L
13607 WARNER, LEVI S
13609 FRASIER, NICK
13611 HANKINS, ANGELA M
13701 SCHMIDT, LARRY G
13705 MADISON, MAURICE W
13709 FOSTER, MICKEL R
13711 BENNETT, DENNIS D
13720 WBT LUMBER INC
13801 GROVES, LORETTA
13805 GROVES, GARY K
13811 OCCUPANT UNKNOWN,
13815 OCCUPANT UNKNOWN,
13823 WINSCH, JAMES J
13827 SPIELHAGEN, PAUL D
13830 CARAVAN INGREDIENTS INC
13835 CARTWRIGHT, GARY W
14001 ELLIOTT EQUIPMENT CO
14021 HD SUPPLY WATERWORKS LTD
STIRLING LAWN & LANDSCAPE INC
14101 EURO TOOL INC
14120 CARAVAN INGREDIENTS INC
14201 SIKA CORPORATION

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

E 150 HWY 2010

13012 SUBURBAN ELECTRIC CO INC

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

E STATE ROUTE 150 2010

5900 GAILS POWERSPORTS INC
6200 SONIC DRIVE-IN
6900 ALLEN, GARY D
6904 PESCE, ADAM S
7201 GRANDVIEW FAMILY MEDICAL CARE
8203 AFFORDABLE HEATING AIR
POTTER, KENNETH T

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

BOTTS RD 2005

13500	BUTLER MANUFACTURING COMPANY
13529	OCCUPANT UNKNOWN,
13531	VEIDICK, JAMES L
13599	GARY, GARRY W
13601	MORRISON, F
13603	HESTAND, GLADYS I
13605	GLASS RANDY
	GLASS, RANDY L
13607	MCNABNEY, LEO M
13609	BOONE, DANA L
13611	PRICE, EARL W
13701	SCHMIDT, LARRY G
13705	MADISON, MAURICE W
13709	FOSTER, MICKEL R
13711	OCCUPANT UNKNOWN,
13715	SISK, KENNETH M
13720	CEDAR CREEK LUMBER INC
13801	GROVES, LAWRENCE F
13809	GROVES, GARY
13811	CAULFIELD, DANIEL P
13815	JOHNSON, DOUGLAS L
13823	CONWAY, DOROTHY L
13827	OCCUPANT UNKNOWN,
13830	AMERICAN INGREDIENTS COMPANY
13831	MACRANDER, CYNTHIA A
13835	CARTWRIGHT, GARY W
14001	DENNIS JOHNSON CONSTRUCTION
	JOHNSON PROPERTIES LLC
14021	HEARTLAND WATERWORKS SUPPLY
14100	COOKIN AMERICAN WAY
14101	EURO TOOL INC
	RIVER CY PORTABLE MVG STOR LLC
14140	BEST WAY LOGISTICS
	STERLING SUPPLY CO INC
14201	SIKA CORPORATION

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

E STATE ROUTE 150 2005

6000	TRAILER & TRUCK
6005	GODS HSE PRISE FELLOWSHIP CTR
6801	ROETHLER, RONALD
6904	YOUNG, HUGH
7201	HEALTH SOURCE OF GRANDVIEW
8203	POTTER, KENNETH T

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

BOTTS RD 2000

13500	BUTLER MANUFACTURING COMPANY
13531	VEIDICK, JAMES
13599	GUNNELS, LLOYD
13605	GLASS RANDY
	GLASS, RANDY L
13607	MCNABNEY, LEO M
13611	PRICE, EARL W
13701	SCHMIDT, LARRY G
13711	JOHNSON, C G
13715	STUMP, HELEN
13720	CEDAR CREEK LUMBER INC
13801	GROVES, LORETTA
13811	CAULFIELD, DANIEL P
13815	MILLER, WESLEY
13819	SIMS, DOROTHY J
13823	CONWAY, MAURICE A
13827	CLARK, KENNETH E
13830	AMERICAN INGREDIENTS COMPANY
13831	ARNOLD, JAMES
13835	CARTWRIGHT, GARY W
14001	DENNIS JOHNSON CONST
14021	HEARTLAND WATERWORKS SUPPLY
14100	COOKIN AMERICAN WAY
	HOUSE OF LLOYD SALES LLC
14201	H&M CONSTRUCTION
	SIKA CORPORATION

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

E 150 HWY 2000

6904 YOUNG, HUGH
8203 ACTION HEATING & COOLING
13012 SUBURBAN ELECTRIC CO INC

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

E STATE ROUTE 150 2000

6801	BECKNER, ERIC
6904	YOUNG, H
7201	HEALTH SOURCE OF GRANDVIEW
7607	BELCHER, CURTIS
	HUTSON, KELLY
	MACIAS, RODRIGO
8203	POTTER, KENNETH

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

BOTTS RD 1995

13500	BUTLER MANUFACTURING COMPANY
13531	VEIDICK, JAMES
13599	GUNNELS, LLOYD
13601	ZIMMERMAN, DON
13603	HESTAND, OSCAR
13605	GLASS, RANDY L
13607	MCNABNEY, LEO M
13609	RICHARDSON, SALLIE B
13611	EVANS, ERNEST
13701	CHAMPAGNE, ALICE M
13705	OCCUPANT UNKNOWNN
13709	OCCUPANT UNKNOWNN
13711	JOHNSON, C G JR
13715	STUMP, HELEN
13720	SEQUENTIA INCORPORATED
13801	GROVES, LORETTA
13805	GROVES, GARY
13809	DAVIS, JEFFREY
13811	CAULFIELD, DANIEL
13815	MILLER, WESLEY
13819	OCCUPANT UNKNOWNN
13823	CONWAY, MAURICE A
13827	CLARK, KENNETH E
13830	AMERICAN INGREDIENTS COMPANY
13831	WILLSON, HELEN E
13835	SMITH, WILLIAM D
14021	HEARTLAND WATERWORKS SUPPLY
14100	COOKIN AMERICAN WAY

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

E 150 HWY 1995

13012 SUBURBAN ELECTRIC CO INC

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

E STATE ROUTE 150 1995

6000 OLD CARS TRUCKS & UNCLE BOB
7607 HABECKER, HARRY
7807 SUNRISE NURSERIES

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

BOTTS RD 1992

13500	BUTLER MANUFACTURING COMPANY
13531	VEIDICK, JAMES
13599	GUNNELS, LLOYD
13601	HASH, LINDA
13603	HESTAND, OSCAR
13607	MCNABNEY, LEO M
13611	EVANS, ERNEST
13701	HATHAWAY, KEVIN
13705	CLEVELAND, GEORGE E
13711	JOHNSON, C G JR
13715	STUMP, HELEN
13801	HARPER, LENNIS E
13805	GROVES, LORETTA
13811	MCLAIN, M
13815	MILLER, WESLEY
13823	CONWAY, MAURICE A
13827	CLARK, KENNETH E
13830	AMERICAN INGREDIENTS COMPANY
13835	SMITH, LINDA K

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

E 150 HWY 1992

6000 GRANDVIEW BUG SHOP INC
13012 SUBURBAN ELECTRIC CO INC

Target Street	Cross Street	Source
✓	-	Polk's City Directory

BOTTS RD 1976

BLUE RIDGE BLVD EXTN —Contd

3 Saffell
4 Vacant
5★Henderson Lorna M 765-5896
6 Vacant
7★Miller Arth T 765-1440
8★Harris Robt 763-4732
9★Ogaard Gordon
3711 Daisy Apartments 765-1594
A Smith John L 761-1464
B Van Voorst Robt E 765-4364
C Tate Joseph 761-9305
D No Return
E★Roland Dorothy Mrs 765-4523
F Vacant
G★Gonzalez Lizandro 966-9759
H★Lewis Roger L 765-1594

18

BOTTS RD —FROM 150 HWY NORTH

ZIP CODE 64030
135TH ST INTERSECTS
13500 Butler Manufacturing Co 763-3022
136TH ST INTERSECTS
13603 Hestand Oscar L ◎ 761-4815
13605 Cox James
13607 Mc Nabney Leo M ◎ 761-4850
13609 Vacant
13611 Evans Lola Mrs ◎ 861-2840
137TH ST TER INTERSECTS
13701 Day Keith ◎ 761-6251
13705 Cleveland Geo E ◎ 761-8603
13709★Hannon Jack E
13711 Johnson Charles G Jr ◎ 763-2618
13715★Stump Helen 761-3944
138TH ST INTERSECTS
13801 Harper Lennis E ◎ 761-4099
13809 Donna's Beauty Shop ★Mosby Steve ◎ 966-9643
13811★Mc Lain Warren B ◎ 765-7932
13815 Miller C Wesley ◎ 763-8457
13819 Masters Geo E ◎ 761-4611
13823 Conway Maurice A ◎ 761-6949
13827 Clark Kenneth E ◎ 763-0007
13830 Patco Products (Div C J Patterson Co) chemical mfg 763-8377
13831 Potter Ken L ◎ 761-6602
13834★Shelton Wm
13835 No Return
139TH ST INTERSECTS
13901 Botts Lucille Mrs ◎

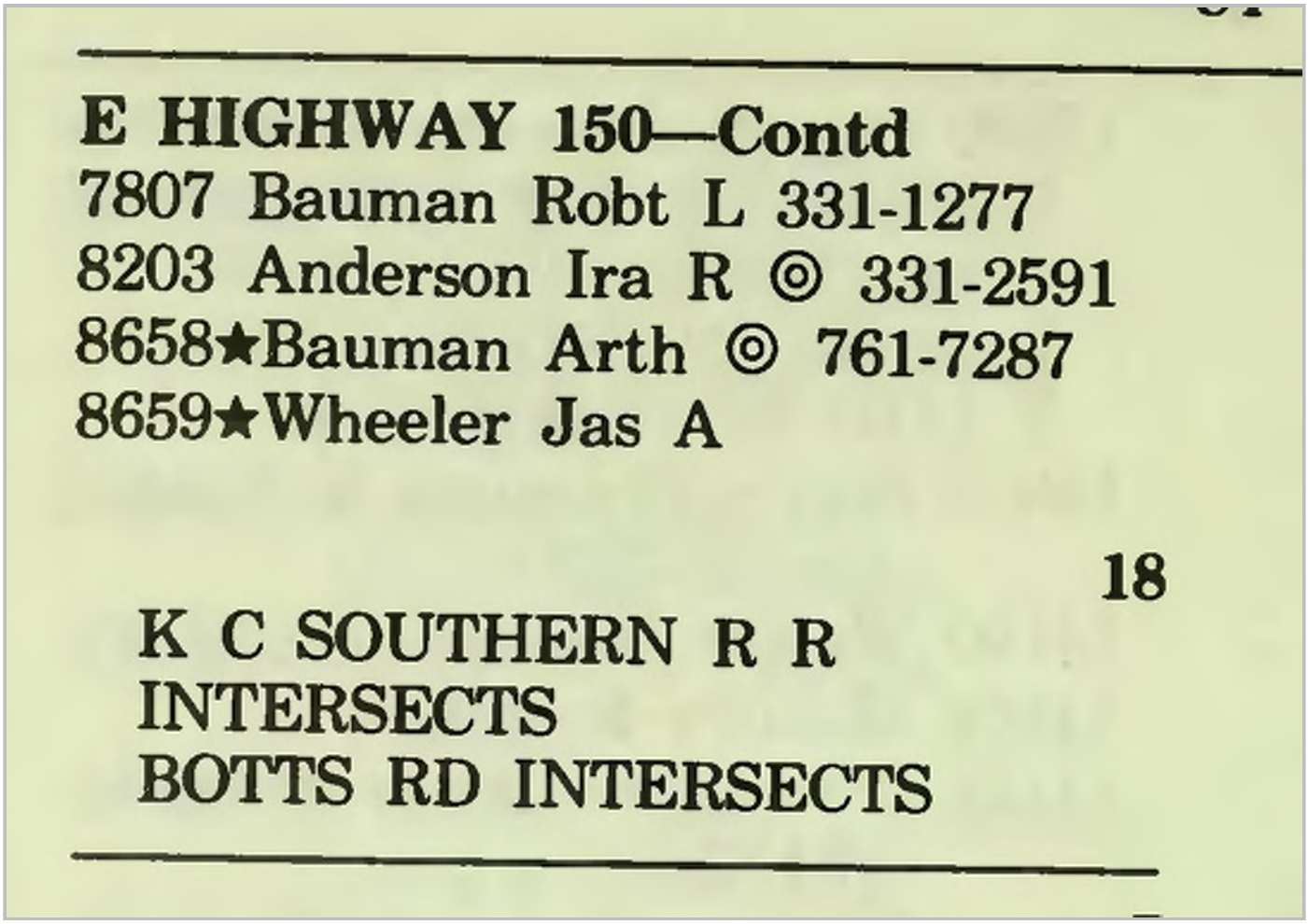
5

BRIARWOOD CT —FROM U S HWY 71 EAST

ZIP CODE 64030
5806 Apartments
4★Wright Roy L 763-3579
5★Cunningham Jeff S 765-0466
6 Vacant
11 Vacant
12 Piasecki Joseph A 765-6999
13 Begey Edw C 765-1046
14 Colteryahn
19 Vacant
20 Gordon Kenneth 763-5418
21★Soetaart Nancy M 765-2145
22 Vacant
5810 Apartments
1 Vacant
2★Sprouse Chris D 765-7384
3 Vacant
7★Hanson Stanley 761-4342
8★Raeth Jos N 765-7985
9★Dickinson Val 761-4433
10 Mc Pherson
15 Vacant
16★Thomas Randy D 761-2413
17 Vacant
18★Conner E L 761-3362
5818 Apartments
1 Vacant
2★Bruce Reginald 765-2665
3★Wood Ronald
4★Brian Linda
5 Vacant
6★Maciejewski Jas 765-1762
7 Eichelberger
8 Vacant
9★Pigg Wm E 966-0572
10 Vacant
11 Vacant
5906 Apartments
1 Vacant
2 Vacant
3 Devoe Richard E 763-8338
4★Stoffer Gary
5 Vacant
6★Christeson Shirley D Mrs 765-2849
7 Schoeffel Thos D 763-9519

Target Street	Cross Street	Source
✓	-	Polk's City Directory

E STATE ROUTE 150 1976



E HIGHWAY 150—Contd
7807 Bauman Robt L 331-1277
8203 Anderson Ira R ◎ 331-2591
8658★Bauman Arth ◎ 761-7287
8659★Wheeler Jas A

18

K C SOUTHERN R R
INTERSECTS
BOTTS RD INTERSECTS

Target Street	Cross Street	Source
✓	-	Polk's City Directory

BOTTS RD 1974

BLUE RIDGE CIR—Contd

2 Mc Laughlin Patk F 763-2490
3 Vacant
4 Barnes Carl
12711 Apartments
2 Lawrence Robt
3 Vacant
4 Leavengood Donald L 765-2760
5 Vacant
6 Hurley N E 765-6162
7 Vacant
8 Stoltz Robt J
1 Warburton E A
2 Shives Annie R
3 Erickson Lynn L 761-6713
4 Peterson V
5 Vacant
6 Speir Geo 765-0134
7 Swanson Debbie 763-9515
8 Anderson Len 763-9822
1 Vacant
2 Woolery B
3 Shrider John
4 Darnaby James A
5 Moore Geo
6 Schneider Helmut 763-8143
7 Moudy L 761-4056
8 Epps Clyde Jr
12712 Apartments
1 Morgan Billy J 765-6399
2 Redfield Chas 761-9649
4 Gore Robt C 763-2336
5 Merideth Wayne D 765-7549
6 Phillips L
1 Payne Marvin D 761-3461
2 Vacant
3 Vacant
4 Gittings Clifford B 765-0260
5 Dunning Jim 763-3168
6 Miller Wm 761-1590

18

BOTTS RD —FROM 150 HWY NORTH

ZIP CODE 64030
135TH ST INTERSECTS
13500 Butler Manufacturing Co 763-3022
13501 No Return
13599 Russell Raymond A ◎ 761-6948
136TH ST INTERSECTS
13603 Hestand Oscar L ◎ 761-4815
13605 Cox James
13607 Mc Nabney Leo M ◎ 761-4850
13609 No Return
13611 Evans Ernest ◎ 861-2840
137TH ST TER INTERSECTS
13701 Day Keith ◎ 761-6251
13705 Cleveland Geo E 761-8603
13709 No Return
13711 Johnson C G Jr ◎ 763-2618
13713 No Return
138TH ST INTERSECTS
13801 Harper Lennis E ◎ 761-4099
13803 Vacant
13805 No Return
13807 No Return
13809 No Return
13811 No Return
13815 Miller C Wesley ◎ 763-8457
13819 Masters Geo E ◎ 761-4611
13823 Conway Maurice A ◎ 761-6949
13827 Clark Kenneth E ◎ 763-0007
13830 Patco Products (Div C J Patterson Co) chemical mfg 763-8377
13831 Potter Ken L 761-6602
13834 Vacant
13836 No Return
139TH ST INTERSECTS
13901 Botts Lucille Mrs

5

BRIARWOOD CT —FROM U S HWY 71 EAST

ZIP CODE 64030
5806 Apartments
4 Vacant
5 Vacant
6 Vacant
11 Thomas Jas E 761-4692
12 Piasecki Joseph A 765-6999
13 Begey Edw C 765-1046
18 Vacant
19 Soetaert Nancy
20 Gordon Kenneth 763-5418
21 Mc Neill Charles S 765-6972
22 Thurgate Jo
5810 Apartments
1 Vacant
2 Atteberry G W
3 Vacant
7 Vacant
8 Vacant
9 Vacant
10 Robinson D L
11 Vacant
14 Vacant
15 Conner E L
16 Kiewert Keith 761-4783
5818 Apartments

Target Street	Cross Street	Source
✓	-	Polk's City Directory

E STATE ROUTE 150 1974

1

6000 Dollar Rent A Car System
331-7077
6011 Seven-Eleven Store gros
331-9722
6109 Vacant
6201 No Return
6309 Morford Bill ◎ 331-1356
6900 Young Edw L Jr 761-4489
6904 Young Hugh ◎ 763-0634
7607 Judd Charles H 331-3303
7807 Bauman Robt L 331-1277
8203 Anderson Ira R 331-2591
8659 Edwards Ray P

18

K C SOUTHERN R R
INTERSECTS
BOTTS RD INTERSECTS

APPENDIX D

Environmental Database Report

Botts 150 Update
Botts Road/Missouri 150
Grandview, MO 64030

Inquiry Number: 5974461.2s
February 18, 2020

The EDR Radius Map™ Report

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

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GEOCHECK ADDENDUM

GeoCheck - Not Requested

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 (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

BOTTS ROAD/MISSOURI 150
GRANDVIEW, MO 64030

COORDINATES

Latitude (North):	38.8627100 - 38° 51' 45.75''
Longitude (West):	94.5436860 - 94° 32' 37.26''
Universal Tranverse Mercator:	Zone 15
UTM X (Meters):	366064.7
UTM Y (Meters):	4302466.0
Elevation:	995 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	6726087 BELTON, MO
Version Date:	2015
North Map:	6726091 GRANDVIEW, MO
Version Date:	2015

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140904, 20150625
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
BOTTS ROAD/MISSOURI 150
GRANDVIEW, MO 64030

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
Reg	RICHARDS-GEBAUR AIR		DOD	Same	2144, 0.406, SW
1	LOCH SAND AND CONSTR	NORTHEAST OF HWY 150	FINDS, ECHO	Lower	1 ft.
2	NNSA NATIONAL SECURI	14500 BOTTS RD	RCRA-LQG, FINDS, ECHO	Lower	132, 0.025, SW
3	RICHARDS GEBAUR AIR	HWY 150 & US 71 HWY	SEMS, US ENG CONTROLS, US INST CONTROL, ROD	Higher	354, 0.067, SSW
4	SIKA CORP	14201 BOTTS RD	RCRA-SQG, FINDS, ECHO	Higher	587, 0.111, NNW
5	GRANDVIEW RADIO BEA		FUDS	Higher	1421, 0.269, ESE

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

Federal NPL site list

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

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ---------- Federal Facility Site Information listing

Federal CERCLIS NFRAP site list

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

Federal RCRA CORRACTS facilities list

CORRACTS ---------- Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

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

Federal RCRA generators list

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

Federal ERNS list

ERNS ---------- Emergency Response Notification System

EXECUTIVE SUMMARY

State- and tribal - equivalent CERCLIS

SHWS ---- Registry of Confirmed Abandoned or Uncontrolled Hazardous Waste Disposal Sites

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

SWF/LF ---- Permitted Facility List

State and tribal leaking storage tank lists

LAST ---- Leaking Aboveground Storage Tanks
LUST ---- Leaking Underground Storage Tanks
INDIAN LUST ---- Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

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

State and tribal institutional control / engineering control registries

AUL ---- Sites with Controls

State and tribal voluntary cleanup sites

INDIAN VCP ---- Voluntary Cleanup Priority Listing
VCP ---- Voluntary Cleanup Program Site Listing

State and tribal Brownfields sites

BROWNFIELDS ---- Brownfields Site List

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY ---- Solid Waste Recycling Facilities
HIST LF ---- Solid Waste Facility Database List
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

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL ---- Delisted National Clandestine Laboratory Register
CDL ---- Environmental Emergency Response System

DEL SHWS	Registry Sites Withdrawn or Deleted
US CDL	National Clandestine Laboratory Register

Local Land Records

LIENS 2	CERCLA Lien Information

Records of Emergency Release Reports

HMIRS	Hazardous Materials Information Reporting System
SPILLS	Environmental Response Tracking Database
SPILLS 90	SPILLS 90 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR	RCRA - Non Generators / No Longer Regulated
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
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
UXO	Unexploded Ordnance Sites
DOCKET HWC	Hazardous Waste Compliance Docket Listing
FUELS PROGRAM	EPA Fuels Program Registered Listing
AIRS	Permit Facility Listing
ASBESTOS	Asbestos Notification Listing
COAL ASH	Coal Ash Disposal Sites
DRYCLEANERS	Drycleaners in Missouri Listing
Financial Assurance	Financial Assurance Information Listing
MINES	Industrial Mineral Mines Database
NPDES	Permitted Facility Listing

MO RRC ---------- Certified Hazardous Waste Resource Recovery Facilities
SMARS ---------- Site Management and Reporting System
UIC ---------- Underground Injection Wells Database
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 identified in the following databases.

Elevations have been determined from the USGS 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. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

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

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

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS list

SEMS: SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the SEMS list, as provided by EDR, and dated 01/30/2020 has revealed that there is 1 SEMS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RICHARDS GEBAUR AIR	***HWY 150 & US 71 HWY***	***SSW 0 - 1/8 (0.067 mi.)***	***3***	***30***

EXECUTIVE SUMMARY

Site ID: 0701793
EPA Id: MO9571824292

Federal RCRA generators list

RCRA-LQG: 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.

A review of the RCRA-LQG list, as provided by EDR, and dated 12/16/2019 has revealed that there is 1 RCRA-LQG site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
NNSA NATIONAL SECURI	***14500 BOTTS RD***	***SW 0 - 1/8 (0.025 mi.)***	***2***	***8***
EPA ID:: MOR000545376				

RCRA-SQG: 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.

A review of the RCRA-SQG list, as provided by EDR, and dated 12/16/2019 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SIKA CORP	***14201 BOTTS RD***	***NNW 0 - 1/8 (0.111 mi.)***	***4***	***51***
EPA ID:: MOR000038315				

Federal institutional controls / engineering controls registries

US ENG CONTROLS: A listing of sites with engineering controls in place.

A review of the US ENG CONTROLS list, as provided by EDR, and dated 11/22/2019 has revealed that there is 1 US ENG CONTROLS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RICHARDS GEBAUR AIR	***HWY 150 & US 71 HWY***	***SSW 0 - 1/8 (0.067 mi.)***	***3***	***30***
EPA ID:: MO9571824292				
EPA ID:: MO9571824292				

US INST CONTROL: 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.

A review of the US INST CONTROL list, as provided by EDR, and dated 11/22/2019 has revealed that there is 1 US INST CONTROL site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RICHARDS GEBAUR AIR EPA ID:: MO9571824292	***HWY 150 & US 71 HWY***	***SSW 0 - 1/8 (0.067 mi.)***	***3***	***30***

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

FUDS: 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.

A review of the FUDS list, as provided by EDR, and dated 11/12/2019 has revealed that there is 1 FUDS site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GRANDVIEW RADIO BEA		ESE 1/4 - 1/2 (0.269 mi.)	5	54

DOD: 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.

A review of the DOD list, as provided by EDR, and dated 12/31/2005 has revealed that there is 1 DOD site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RICHARDS-GEBAUR AIR		SW 1/4 - 1/2 (0.406 mi.)	0	8

ROD: Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid the cleanup.

A review of the ROD list, as provided by EDR, and dated 01/30/2020 has revealed that there is 1 ROD site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RICHARDS GEBAUR AIR EPA ID:: MO9571824292	***HWY 150 & US 71 HWY***	***SSW 0 - 1/8 (0.067 mi.)***	***3***	***30***

EXECUTIVE SUMMARY

FINDS: The Facility Index System contains both facility information and "pointers" to other sources of information that contain more detail. These include: RCRIS; Permit Compliance System (PCS); Aerometric Information Retrieval System (AIRS); FATES (FIFRA [Federal Insecticide Fungicide Rodenticide Act] and TSCA Enforcement System, FTTS [FIFRA/TSCA Tracking System]; CERCLIS; DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes); Federal Underground Injection Control (FURS); Federal Reporting Data System (FRDS); Surface Impoundments (SIA); TSCA Chemicals in Commerce Information System (CICS); PADS; RCRA-J (medical waste transporters/disposers); TRIS; and TSCA. The source of this database is the U.S. EPA/NTIS.

A review of the FINDS list, as provided by EDR, and dated 08/12/2019 has revealed that there is 1 FINDS site within approximately 0.001 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
LOCH SAND AND CONSTR	***NORTHEAST OF HWY 150***	***0 - 1/8 (0.000 mi.)***	***1***	***8***
Registry ID:: 110043475129				

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

A review of the ECHO list, as provided by EDR, and dated 10/06/2019 has revealed that there is 1 ECHO site within approximately 0.001 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
LOCH SAND AND CONSTR	***NORTHEAST OF HWY 150***	***0 - 1/8 (0.000 mi.)***	***1***	***8***
Registry ID: 110043475129				

EXECUTIVE SUMMARY

There were no unmapped sites in this report.

OVERVIEW MAP - 5974461.2S



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

0 1/4 1/2 1 Miles

Indian Reservations BIA

County Boundary

Power transmission lines

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

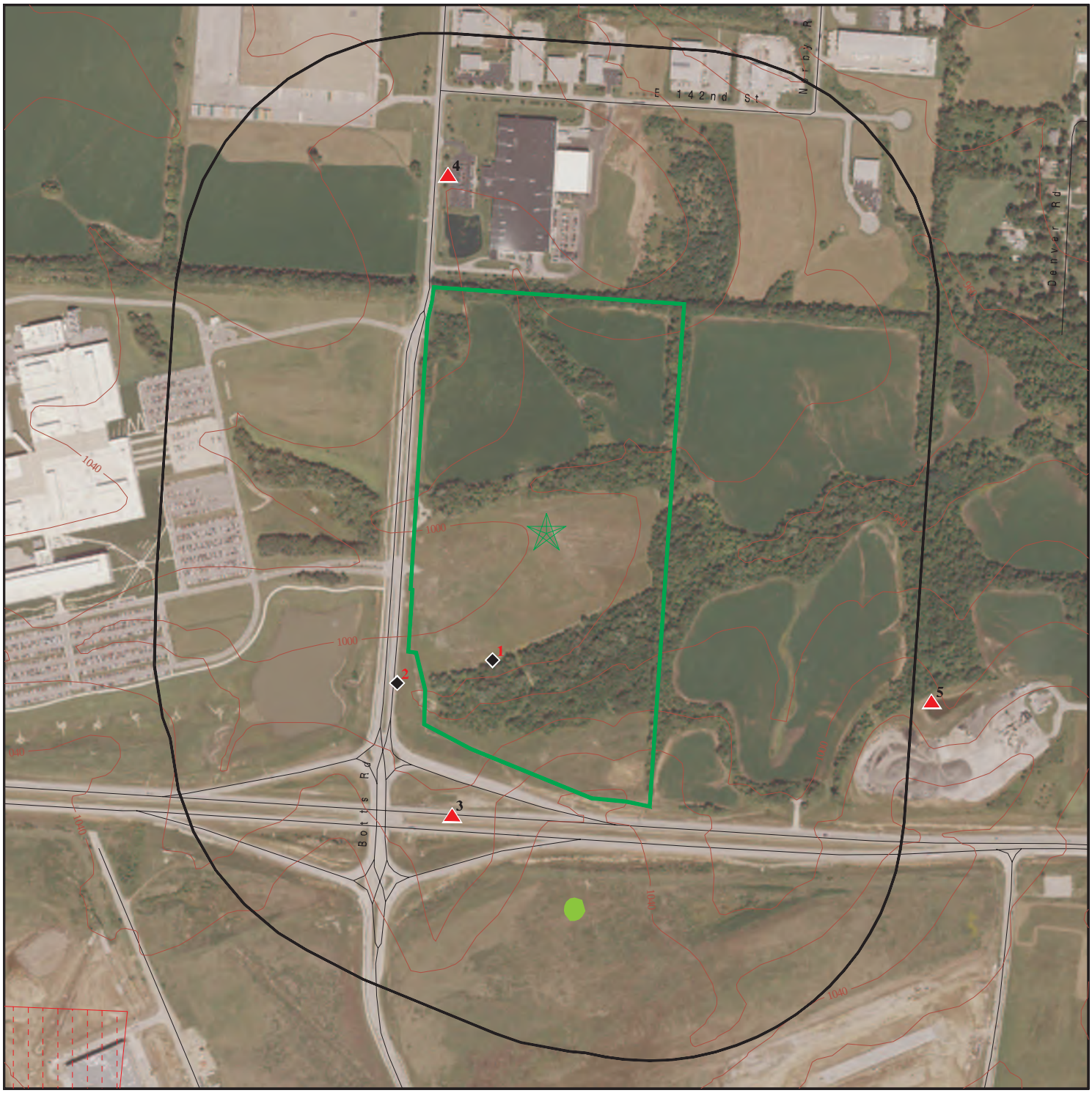
State Wetlands

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:	Botts 150 Update	CLIENT:	Olsson
ADDRESS:	Botts Road/Missouri 150 Grandview MO 64030	CONTACT:	Rachael Reis
		INQUIRY #:	5974461.2s
LAT/LONG:	38.86271 / 94.543686	DATE:	February 18, 2020 10:46 am

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DETAIL MAP - 5974461.2S



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

0 1/8 1/4 1/2 Miles

Indian Reservations BIA

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

State Wetlands

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:	Botts 150 Update	CLIENT:	Olsson
ADDRESS:	Botts Road/Missouri 150 Grandview MO 64030	CONTACT:	Rachael Reis
		INQUIRY #:	5974461.2s
LAT/LONG:	38.86271 / 94.543686	DATE:	February 18, 2020 10:48 am

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		1	0	0	NR	NR	1
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		1	0	NR	NR	NR	1
RCRA-SQG	0.250		1	0	NR	NR	NR	1
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		1	0	0	NR	NR	1
US INST CONTROL	0.500		1	0	0	NR	NR	1
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
State- and tribal - equivalent CERCLIS								
SHWS	1.000		0	0	0	0	NR	0
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LAST	0.500		0	0	0	NR	NR	0
LUST	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
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
State and tribal institutional control / engineering control registries								
AUL	0.500		0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
SWRCY	0.500		0	0	0	NR	NR	0
HIST LF	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
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
DEL SHWS	1.000		0	0	0	0	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	0.001		0	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
SPILLS	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	1	0	NR	1
DOD	1.000		0	0	1	0	NR	1
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		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
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		1	0	0	0	NR	1
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		1	NR	NR	NR	NR	1
ECHO	0.001		1	NR	NR	NR	NR	1
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
AIRS	0.001		0	NR	NR	NR	NR	0
ASBESTOS	0.001		0	NR	NR	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
NPDES	0.001		0	NR	NR	NR	NR	0
MO RRC	0.001		0	NR	NR	NR	NR	0
SMARS	0.500		0	0	0	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
EDR Hist Cleaner	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 RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
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	8	0	2	0	0	10

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

DOD **RICHARDS-GEBAUR AIR FORCE BASE (CLOSED)** **DOD** **CUSA133969**
Region SW **N/A**
RICHARDS-GEBAUR AIR FORCE (County), MO
1/4-1/2
2144 ft.

DOD:
Feature 1: Air Force DOD
Feature 2: Not reported
Feature 3: Not reported
URL: Not reported
Name 1: Richards-Gebaur Air Force Base (Closed)
Name 2: Not reported
Name 3: Not reported
State: MO
DOD Site: Yes
Tile name: MOJACKSON

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1 **LOCH SAND AND CONSTRUCTION CO.** **FINDS** **1014766331**
NORTHEAST OF HWY 150 AND BOTTS RD. **ECHO** **N/A**
< 1/8 **KANSAS CITY, MO 64147**
1 ft.

FINDS:

Relative:
Lower

Registry ID: 110043475129

Actual:
988 ft.

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

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

ECHO:
Envid: 1014766331
Registry ID: 110043475129
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110043475129

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2 **NNSA NATIONAL SECURITY CAMPUS KANSAS CITY PLANT** **RCRA-LQG** **1015744571**
SW **14500 BOTTS RD** **FINDS** **MOR000545376**
< 1/8 **KANSAS CITY, MO 64147** **ECHO**
0.025 mi.
132 ft.

Relative:
Lower

RCRA-LQG:
Date form received by agency: 2018-02-27 00:00:00.0
Facility name: NNSA NATIONAL SECURITY CAMPUS KANSAS CITY PLANT
Facility address: 14500 BOTTS RD
KANSAS CITY, MO 64147-1302
EPA ID: MOR000545376
Mailing address: 14520 BOTTS RD

Actual:
981 ft.

NNSA NATIONAL SECURITY CAMPUS KANSAS CITY PLANT (Continued) **1015744571**

KANSAS CITY, MO 64147-1302
Contact: SYBIL N CHANDLER
Contact address: 14520 BOTTS RD
KANSAS CITY, MO 64147-1302
Contact country: US
Contact telephone: 816-488-3417
Contact email: SCHANDLER@KCP.COM
EPA Region: 07
Land type: Municipal
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:
Owner/operator name: PLANNED INDUSTRIAL EXPANSION AUTHORITY
Owner/operator address: 20 E 5TH ST SUITE 200
KANSAS CITY, MO 64106
Owner/operator country: US
Owner/operator telephone: 816-474-2227
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Other
Owner/Operator Type: Owner
Owner/Op start date: 2010-07-12 00:00:00.
Owner/Op end date: Not reported

Owner/operator name: U S DEPARTMENT OF ENERGY
Owner/operator address: 14520 BOTTS RD
KANSAS CITY, MO 64147
Owner/operator country: US
Owner/operator telephone: 816-488-3417
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Federal
Owner/Operator Type: Owner
Owner/Op start date: 2012-10-15 00:00:00.
Owner/Op end date: Not reported

Owner/operator name: U S DEPARTMENT OF ENERGY
Owner/operator address: 14520 BOTTS RD
KANSAS CITY, MO 64147
Owner/operator country: US
Owner/operator telephone: 816-488-3417
Owner/operator email: Not reported
Owner/operator fax: Not reported

NNSA NATIONAL SECURITY CAMPUS KANSAS CITY PLANT (Continued) **1015744571**

Owner/operator extension: Not reported
Legal status: Federal
Owner/Operator Type: Operator
Owner/Op start date: 2012-10-15 00:00:00.
Owner/Op end date: Not reported

Owner/operator name: HONEYWELL FM&T LLC
Owner/operator address: 14520 BOTTS RD
KANSAS CITY, MO 64147
Owner/operator country: US
Owner/operator telephone: 816-488-3417
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 2013-01-23 00:00:00.
Owner/Op end date: Not reported

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

Historical Generators:
Date form received by agency: 2017-12-12 00:00:00.0
Site name: NNSA NATIONAL SECURITY CAMPUS KANSAS CITY PLANT
Classification: Large Quantity Generator

Date form received by agency: 2016-02-29 00:00:00.0
Site name: NNSA NATIONAL SECURITY CAMPUS
Classification: Large Quantity Generator

Date form received by agency: 2015-12-28 00:00:00.0
Site name: NNSA NATIONAL SECURITY CAMPUS KANSAS CITY PLANT
Classification: Large Quantity Generator

Date form received by agency: 2014-02-27 00:00:00.0
Site name: NNSA NATIONAL SECURITY CAMPUS
Classification: Large Quantity Generator

Date form received by agency: 2012-10-17 00:00:00.0
Site name: NNSA NATIONAL SECURITY CAMPUS KANSAS CITY PLANT
Classification: Large Quantity Generator

NNSA NATIONAL SECURITY CAMPUS KANSAS CITY PLANT (Continued) **1015744571**

Date form received by agency: 2012-10-15 00:00:00.0
Site name: NNSA NATIONAL SECURITY CAMPUS KANSAS CITY PLANT
Classification: Not a generator, verified

Hazardous Waste Summary:

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D005
. Waste name: BARIUM

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D011
. Waste name: SILVER

. Waste code: D018
. Waste name: BENZENE

. Waste code: D019
. Waste name: CARBON TETRACHLORIDE

. Waste code: D021
. Waste name: CHLOROBENZENE

. Waste code: D022
. Waste name: CHLOROFORM

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

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

NNSA NATIONAL SECURITY CAMPUS KANSAS CITY PLANT (Continued) **1015744571**

. Waste code: D025
. Waste name: P-CRESOL

. Waste code: D026
. Waste name: CRESOL

. Waste code: D027
. Waste name: 1,4-DICHLOROBENZENE

. Waste code: D028
. Waste name: 1,2-DICHLOROETHANE

. Waste code: D029
. Waste name: 1,1-DICHLOROETHYLENE

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

. Waste code: D032
. Waste name: HEXACHLOROBENZENE

. Waste code: D033
. Waste name: HEXACHLOROBUTADIENE

. Waste code: D034
. Waste name: HEXACHLOROETHANE

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

. Waste code: D036
. Waste name: NITROBENZENE

. Waste code: D038
. Waste name: PYRIDINE

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: D040
. Waste name: TRICHLORETHYLENE

. Waste code: D043
. Waste name: VINYL CHLORIDE

. Waste code: F001
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

NNSA NATIONAL SECURITY CAMPUS KANSAS CITY PLANT (Continued) **1015744571**

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F004
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: CRESOLS, CRESYLIC ACID, AND NITROBENZENE; AND THE STILL BOTTOMS FROM THE RECOVERY OF THESE SOLVENTS; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F006
. Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS, EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

. Waste code: F007
. Waste name: SPENT CYANIDE PLATING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS.

. Waste code: F008
. Waste name: PLATING BATH RESIDUES FROM THE BOTTOM OF PLATING BATHS FROM ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.

NNSA NATIONAL SECURITY CAMPUS KANSAS CITY PLANT (Continued) **1015744571**

. Waste code: F009
. Waste name: SPENT STRIPPING AND CLEANING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.

. Waste code: F019
. Waste name: WASTEWATER TREATMENT SLUDGES FROM THE CHEMICAL CONVERSION COATING OF ALUMINUM, EXCEPT FROM ZIRCONIUM PHOSPHATING IN ALUMINUM CAN WASHING WHEN SUCH PHOSPHATING IS AN EXCLUSIVE CONVERSION COATING PROCESS.

. Waste code: F027
. Waste name: DISCARDED UNUSED FORMULATIONS CONTAINING TRI-, TETRA-, OR PENTACHLOROPHENOL OR DISCARDED UNUSED FORMULATIONS CONTAINING COMPOUNDS DERIVED FROM THESE CHLOROPHENOLS. (THIS LISTING DOES NOT INCLUDE FORMULATIONS CONTAINING HEXACHLOROPHENE SYNTHESIZED FROM PREPURIFIED 2,4,5-TRICHLOROPHENOL AS THE SOLE COMPONENT.)

. Waste code: P003
. Waste name: 2-PROPENAL (OR) ACROLEIN

. Waste code: P009
. Waste name: AMMONIUM PICRATE (R) (OR) PHENOL, 2,4,6-TRINITRO-, AMMONIUM SALT (R)

. Waste code: P010
. Waste name: ARSENIC ACID H3ASO4

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

. Waste code: P015
. Waste name: BERYLLIUM

. Waste code: P016
. Waste name: DICHLOROMETHYL ETHER (OR) METHANE, OXYBIS[CHLORO-

. Waste code: P017
. Waste name: 2-PROPANONE, 1-BROMO- (OR) BROMOACETONE

. Waste code: P020
. Waste name: DINOSEB (OR) PHENOL, 2-(1-METHYLPROPYL)-4,6-DINITRO-

. Waste code: P021
. Waste name: CALCIUM CYANIDE (OR) CALCIUM CYANIDE CA(CN)2

. Waste code: P022
. Waste name: CARBON DISULFIDE

. Waste code: P023
. Waste name: ACETALDEHYDE, CHLORO- (OR) CHLOROACETALDEHYDE

. Waste code: P024
. Waste name: BENZENAMINE, 4-CHLORO- (OR) P-CHLORANILINE

. Waste code: P028
. Waste name: BENZENE, (CHLOROMETHYL)- (OR) BENZYL CHLORIDE

. Waste code: P029
. Waste name: COPPER CYANIDE (OR) COPPER CYANIDE CU(CN)

NNSA NATIONAL SECURITY CAMPUS KANSAS CITY PLANT (Continued) **1015744571**

. Waste code: P030
. Waste name: CYANIDES (SOLUBLE CYANIDE SALTS), NOT OTHERWISE SPECIFIED

. Waste code: P034
. Waste name: 2-CYCLOHEXYL-4,6-DINITROPHENOL (OR) PHENOL, 2-CYCLOHEXYL-4,6-DINITRO-

. Waste code: P041
. Waste name: DIETHYL-P-NITROPHENYL PHOSPHATE (OR) PHOSPHORIC ACID, DIETHYL 4-NITROPHENYL ESTER

. Waste code: P045
. Waste name: 2-BUTANONE, 3,3-DIMETHYL-1-(METHYLTHIO)-, O-[METHYLAMINO)CARBONYL] OXIME (OR) THIOFANOX

. Waste code: P046
. Waste name: ALPHA,ALPHA-DIMETHYLPHENETHYLAMINE (OR) BENZENEETHANAMINE, ALPHA, ALPHA-DIMETHYL-

. Waste code: P047
. Waste name: 4,6-DINITRO-O-CRESOL, & SALTS (OR) PHENOL, 2-METHYL-4,6-DINITRO-, & SALTS

. Waste code: P048
. Waste name: 2,4-DINITROPHENOL (OR) PHENOL, 2,4-DINITRO-

. Waste code: P056
. Waste name: FLUORINE

. Waste code: P058
. Waste name: ACETIC ACID, FLUORO-, SODIUM SALT (OR) FLUOROACETIC ACID, SODIUM SALT

. Waste code: P059
. Waste name: 4,7-METHANO-1H-INDENE, 1,4,5,6,7,8,8-HEPTACHLORO-3A,4,7,7A-TETRAHYDRO- (OR) HEPTACHLOR

. Waste code: P063
. Waste name: HYDROCYANIC ACID (OR) HYDROGEN CYANIDE

. Waste code: P064
. Waste name: METHANE, ISOCYANATO- (OR) METHYL ISOCYANATE

. Waste code: P065
. Waste name: FULMINIC ACID, MERCURY(2+) SALT (R,T) (OR) MERCURY FULMINATE (R,T)

. Waste code: P067
. Waste name: 1,2-PROPYLENIMINE (OR) AZIRIDINE, 2-METHYL-

. Waste code: P068
. Waste name: HYDRAZINE, METHYL- (OR) METHYL HYDRAZINE

. Waste code: P074
. Waste name: NICKEL CYANIDE (OR) NICKEL CYANIDE NI(CN)2

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

NNSA NATIONAL SECURITY CAMPUS KANSAS CITY PLANT (Continued) **1015744571**

. Waste code: P076
. Waste name: NITRIC OXIDE (OR) NITROGEN OXIDE NO

. Waste code: P078
. Waste name: NITROGEN DIOXIDE (OR) NITROGEN OXIDE NO2

. Waste code: P095
. Waste name: CARBONIC DICHLORIDE (OR) PHOSGENE

. Waste code: P096
. Waste name: HYDROGEN PHOSPHIDE (OR) PHOSPHINE

. Waste code: P098
. Waste name: POTASSIUM CYANIDE (OR) POTASSIUM CYANIDE K(CN)

. Waste code: P099
. Waste name: ARGENTATE (1-), BIS(CYANO-C)-, POTASSIUM (OR) POTASSIUM SILVER CYANIDE

. Waste code: P102
. Waste name: 2-PROPYN-1-OL (OR) PROPARGYL ALCOHOL

. Waste code: P104
. Waste name: SILVER CYANIDE (OR) SILVER CYANIDE AG(CN)

. Waste code: P105
. Waste name: SODIUM AZIDE

. Waste code: P106
. Waste name: SODIUM CYANIDE (OR) SODIUM CYANIDE NA(CN)

. Waste code: P112
. Waste name: METHANE, TETRANITRO- (R) (OR) TETRANITROMETHANE (R)

. Waste code: P115
. Waste name: SULFURIC ACID, DITHALLIUM (1+) SALT (OR) THALLIUM(I) SULFATE

. Waste code: P119
. Waste name: AMMONIUM VANADATE (OR) VANADIC ACID, AMMONIUM SALT

. Waste code: P120
. Waste name: VANADIUM OXIDE V2O5 (OR) VANADIUM PENTOXIDE

. Waste code: P121
. Waste name: ZINC CYANIDE (OR) ZINC CYANIDE ZN(CN)2

. Waste code: P128
. Waste name: PHENOL, 4-(DIMETHYLAMINO)-3,5-DIMETHYL-, METHYLCARBAMATE (ESTER)

. Waste code: P188
. Waste name: BENZOIC ACID, 2-HYDROXY-, COMPD. WITH (3AS-CIS)-1,2,3,3A,8,8A-HEXAHYDRO-1,3A,8-TRIMETHYLPYRROLO[2,3-B]INDOL-5-YL METHYLCARBAMATE ESTER (1:1) (OR) PHYSOSTIGMINE SALICYLATE

. Waste code: P199
. Waste name: METHIOCARB (OR) MEXACARBATE (OR) PHENOL, (3,5-DIMETHYL-4-(METHYLTHIO)-, METHYLCARBAMATE

NNSA NATIONAL SECURITY CAMPUS KANSAS CITY PLANT (Continued) **1015744571**

. Waste code: P201
. Waste name: PHENOL, 3-METHYL-5-(1-METHYLETHYL)-, METHYL CARBAMATE (OR) PROMECARB

. Waste code: P202
. Waste name: M-CUMENYL METHYLCARBAMATE (OR) 3-ISOPROPYLPHENYL N-METHYLCARBAMATE (OR) PHENOL, 3-(1-METHYLETHYL)-, METHYL CARBAMATE

. Waste code: U001
. Waste name: ACETALDEHYDE (I) (OR) ETHANAL (I)

. Waste code: U002
. Waste name: 2-PROPANONE (I) (OR) ACETONE (I)

. Waste code: U003
. Waste name: ACETONITRILE (I,T)

. Waste code: U008
. Waste name: 2-PROPENOIC ACID (I) (OR) ACRYLIC ACID (I)

. Waste code: U009
. Waste name: 2-PROPENENITRILE (OR) ACRYLONITRILE

. Waste code: U012
. Waste name: ANILINE (I,T) (OR) BENZENAMINE (I,T)

. Waste code: U015
. Waste name: AZASERINE (OR) L-SERINE, DIAZOACETATE (ESTER)

. Waste code: U017
. Waste name: BENZAL CHLORIDE (OR) BENZENE, (DICHLOROMETHYL)-

. Waste code: U018
. Waste name: BENZ[A]ANTHRACENE

. Waste code: U019
. Waste name: BENZENE (I,T)

. Waste code: U021
. Waste name: [1,1'-BIPHENYL]-4,4'-DIAMINE (OR) BENZIDINE

. Waste code: U023
. Waste name: BENZENE, (TRICHLOROMETHYL)- (OR) BENZOTRICHLORIDE (C,R,T)

. Waste code: U024
. Waste name: DICHLOROMETHOXY ETHANE (OR) ETHANE, 1,1'-[METHYLENEBIS(OXY)]BIS[2-CHLORO-

. Waste code: U025
. Waste name: DICHLOROETHYL ETHER (OR) ETHANE, 1,1'-OXYBIS[2-CHLORO-

. Waste code: U027
. Waste name: DICHLOROISOPROPYL ETHER (OR) PROPANE, 2,2'-OXYBIS[2-CHLORO-

. Waste code: U028
. Waste name: 1,2-BENZENEDICARBOXYLIC ACID, BIS(2-ETHYLHEXYL) ESTER (OR) DIETHYLHEXYL PHTHALATE

NNSA NATIONAL SECURITY CAMPUS KANSAS CITY PLANT (Continued) **1015744571**

. Waste code: U029
. Waste name: METHANE, BROMO- (OR) METHYL BROMIDE

. Waste code: U030
. Waste name: 4-BROMOPHENYL PHENYL ETHER (OR) BENZENE, 1-BROMO-4-PHENOXY-

. Waste code: U031
. Waste name: 1-BUTANOL (I) (OR) N-BUTYL ALCOHOL (I)

. Waste code: U032
. Waste name: CALCIUM CHROMATE (OR) CHROMIC ACID H2CRO4, CALCIUM SALT

. Waste code: U036
. Waste name: 4,7-METHANO-1H-INDENE, 1,2,4,5,6,7,8,8-OCTACHLORO-2,3,3A,4,7,7A-HEXAHYDRO- (OR) CHLORDANE, ALPHA & GAMMA ISOMERS

. Waste code: U037
. Waste name: BENZENE, CHLORO- (OR) CHLOROBENZENE

. Waste code: U039
. Waste name: P-CHLORO-M-CRESOL (OR) PHENOL, 4-CHLORO-3-METHYL-

. Waste code: U042
. Waste name: 2-CHLOROETHYL VINYL ETHER (OR) ETHENE, (2-CHLOROETHOXY)-

. Waste code: U043
. Waste name: ETHENE, CHLORO- (OR) VINYL CHLORIDE

. Waste code: U044
. Waste name: CHLOROFORM (OR) METHANE, TRICHLORO-

. Waste code: U045
. Waste name: METHANE, CHLORO- (I,T) (OR) METHYL CHLORIDE (I,T)

. Waste code: U046
. Waste name: CHLOROMETHYL METHYL ETHER (OR) METHANE, CHLOROMETHOXY-

. Waste code: U048
. Waste name: O-CHLOROPHENOL (OR) PHENOL, 2-CHLORO-

. Waste code: U050
. Waste name: CHRYSENE

. Waste code: U052
. Waste name: CRESOL (CRESYLIC ACID) (OR) PHENOL, METHYL-

. Waste code: U053
. Waste name: 2-BUTENAL (OR) CROTONALDEHYDE

. Waste code: U055
. Waste name: BENZENE, (1-METHYLETHYL)- (I) (OR) CUMENE (I)

. Waste code: U056
. Waste name: BENZENE, HEXAHYDRO- (I) (OR) CYCLOHEXANE (I)

. Waste code: U057

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. Waste name: CYCLOHEXANONE (I)

. Waste code: U060
. Waste name: BENZENE, 1,1'-(2,2-DICHLOROETHYLIDENE)BIS[4-CHLORO- (OR) DDD

. Waste code: U061
. Waste name: BENZENE, 1,1'-(2,2,2-TRICHLOROETHYLIDENE)BIS[4-CHLORO- (OR) DDT

. Waste code: U063
. Waste name: DIBENZ[A,H]ANTHRACENE

. Waste code: U064
. Waste name: BENZO[RST]PENTAPHENE (OR) DIBENZO[A,I]PYRENE

. Waste code: U066
. Waste name: 1,2-DIBROMO-3-CHLOROPROPANE (OR) PROPANE, 1,2-DIBROMO-3-CHLORO-

. Waste code: U067
. Waste name: ETHANE, 1,2-DIBROMO- (OR) ETHYLENE DIBROMIDE

. Waste code: U068
. Waste name: METHANE, DIBROMO- (OR) METHYLENE BROMIDE

. Waste code: U069
. Waste name: 1,2-BENZENEDICARBOXYLIC ACID, DIBUTYL ESTER (OR) DIBUTYL PHTHALATE

. Waste code: U070
. Waste name: BENZENE, 1,2-DICHLORO- (OR) O-DICHLOROBENZENE

. Waste code: U071
. Waste name: BENZENE, 1,3-DICHLORO- (OR) M-DICHLOROBENZENE

. Waste code: U072
. Waste name: BENZENE, 1,4-DICHLORO- (OR) P-DICHLOROBENZENE

. Waste code: U073
. Waste name: [1,1'-BIPHENYL]-4,4'-DIAMINE, 3,3'-DICHLORO- (OR) 3,3'-DICHLOROBENZIDINE

. Waste code: U075
. Waste name: DICHLORODIFLUOROMETHANE (OR) METHANE, DICHLORODIFLUORO-

. Waste code: U076
. Waste name: ETHANE, 1,1-DICHLORO- (OR) ETHYLIDENE DICHLORIDE

. Waste code: U077
. Waste name: ETHANE, 1,2-DICHLORO- (OR) ETHYLENE DICHLORIDE

. Waste code: U078
. Waste name: 1,1-DICHLOROETHYLENE (OR) ETHENE, 1,1-DICHLORO-

. Waste code: U079
. Waste name: 1,2-DICHLOROETHYLENE (OR) ETHENE, 1,2-DICHLORO-,(E)-

. Waste code: U080
. Waste name: METHANE, DICHLORO- (OR) METHYLENE CHLORIDE

NNSA NATIONAL SECURITY CAMPUS KANSAS CITY PLANT (Continued) **1015744571**

. Waste code: U081
. Waste name: 2,4-DICHLOROPHENOL (OR) PHENOL, 2,4-DICHLORO-

. Waste code: U082
. Waste name: 2,6-DICHLOROPHENOL (OR) PHENOL, 2,6-DICHLORO-

. Waste code: U083
. Waste name: PROPANE, 1,2-DICHLORO- (OR) PROPYLENE DICHLORIDE

. Waste code: U084
. Waste name: 1,3-DICHLOROPROPENE (OR) 1-PROPENE, 1,3-DICHLORO-

. Waste code: U085
. Waste name: 1,2:3,4-DIEPOXYBUTANE (I,T) (OR) 2,2'-BIOXIRANE

. Waste code: U088
. Waste name: 1,2-BENZENEDICARBOXYLIC ACID, DIETHYL ESTER (OR) DIETHYL PHTHALATE

. Waste code: U089
. Waste name: DIETHYLSTILBESTEROL (OR) PHENOL, 4,4'-(1,2-DIETHYL-1,2-ETHENEDIYL)BIS, (E)-

. Waste code: U092
. Waste name: DIMETHYLAMINE (I) (OR) METHANAMINE, N-METHYL- (I)

. Waste code: U093
. Waste name: BENZENAMINE, N,N-DIMETHYL-4-(PHENYLAZO)- (OR) P-DIMETHYLAMINOAZOBENZENE

. Waste code: U094
. Waste name: 7,12-DIMETHYLBENZ[A]ANTHRACENE (OR) BENZ[A]ANTHRACENE, 7,12-DIMETHYL-

. Waste code: U096
. Waste name: ALPHA,ALPHA-DIMETHYLBENZYLHYDROPEROXIDE (R) (OR) HYDROPEROXIDE, 1-METHYL-1-PHENYLETHYL- (R)

. Waste code: U098
. Waste name: 1,1-DIMETHYLHYDRAZINE (OR) HYDRAZINE, 1,1-DIMETHYL-

. Waste code: U099
. Waste name: 1,2-DIMETHYLHYDRAZINE (OR) HYDRAZINE, 1,2-DIPHENYL-

. Waste code: U101
. Waste name: 2,4-DIMETHYLPHENOL (OR) PHENOL, 2,4-DIMETHYL-

. Waste code: U102
. Waste name: 1,2-BENZENEDICARBOXYLIC ACID, DIMETHYL ESTER (OR) DIMETHYL PHTHALATE

. Waste code: U103
. Waste name: DIMETHYL SULFATE (OR) SULFURIC ACID, DIMETHYL ESTER

. Waste code: U105
. Waste name: 2,4-DINITROTOLUENE (OR) BENZENE, 1-METHYL-2,4-DINITRO-

. Waste code: U106
. Waste name: 2,6-DINITROTOLUENE (OR) BENZENE, 2-METHYL-1,3-DINITRO-

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. Waste code: U107
. Waste name: 1,2-BENZENEDICARBOXYLIC ACID, DIOCTYL ESTER (OR) DI-N-OCTYL PHTHALATE

. Waste code: U108
. Waste name: 1,4-DIETHYLENEOXIDE (OR) 1,4-DIOXANE

. Waste code: U112
. Waste name: ACETIC ACID, ETHYL ESTER (I) (OR) ETHYL ACETATE (I)

. Waste code: U113
. Waste name: 2-PROPENOIC ACID, ETHYL ESTER (I) (OR) ETHYL ACRYLATE (I)

. Waste code: U117
. Waste name: ETHANE, 1,1'-OXYBIS-(I) (OR) ETHYL ETHER (I)

. Waste code: U121
. Waste name: METHANE, TRICHLOROFLUORO- (OR) TRICHLOROMONOFLUOROMETHANE

. Waste code: U122
. Waste name: FORMALDEHYDE

. Waste code: U123
. Waste name: FORMIC ACID (C,T)

. Waste code: U124
. Waste name: FURAN (I) (OR) FURFURAN (I)

. Waste code: U127
. Waste name: BENZENE, HEXACHLORO- (OR) HEXACHLOROBENZENE

. Waste code: U128
. Waste name: 1,3-BUTADIENE, 1,1,2,3,4,4-HEXACHLORO- (OR) HEXACHLOROBUTADIENE

. Waste code: U129
. Waste name: CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, (1ALPHA, 2ALPHA, 3BETA, 4ALPHA, 5ALPHA, 6BETA)- (OR) LINDANE

. Waste code: U130
. Waste name: 1,3-CYCLOPENTADIENE, 1,2,3,4,5,5-HEXACHLORO- (OR) HEXACHLOROCYCLOPENTADIENE

. Waste code: U131
. Waste name: ETHANE, HEXACHLORO- (OR) HEXACHLOROETHANE

. Waste code: U132
. Waste name: HEXACHLOROPHENE (OR) PHENOL, 2,2'-METHYLENEBIS[3,4,6-TRICHLORO-

. Waste code: U133
. Waste name: HYDRAZINE (R,T)

. Waste code: U134
. Waste name: HYDROFLUORIC ACID (C,T) (OR) HYDROGEN FLUORIDE (C,T)

. Waste code: U135
. Waste name: HYDROGEN SULFIDE (OR) HYDROGEN SULFIDE H2S

. Waste code: U136

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. Waste name: ARSINIC ACID, DIMETHYL- (OR) CACODYLIC ACID

. Waste code: U137
. Waste name: INDENO[1,2,3-CD]PYRENE

. Waste code: U138
. Waste name: METHANE, IODO- (OR) METHYL IODIDE

. Waste code: U140
. Waste name: 1-PROPANOL, 2-METHYL- (I,T) (OR) ISOBUTYL ALCOHOL (I,T)

. Waste code: U144
. Waste name: ACETIC ACID, LEAD(2+) SALT (OR) LEAD ACETATE

. Waste code: U145
. Waste name: LEAD PHOSPHATE (OR) PHOSPHORIC ACID, LEAD(2+) SALT (2:3)

. Waste code: U146
. Waste name: LEAD SUBACETATE (OR) LEAD, BIS(ACETATO-O)TETRAHYDROXYTRI-

. Waste code: U147
. Waste name: 2,5-FURANDIONE (OR) MALEIC ANHYDRIDE

. Waste code: U150
. Waste name: L-PHENYLALANINE, 4-[BIS(2-CHLOROETHYL)AMINO]- (OR) MELPHALAN

. Waste code: U151
. Waste name: MERCURY

. Waste code: U152
. Waste name: 2-PROPENENITRILE, 2-METHYL- (I,T) (OR) METHACRYLONITRILE (I,T)

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

. Waste code: U158
. Waste name: 4,4'-METHYLENEBIS(2-CHLOROANILINE) (OR) BENZENAMINE, 4,4'-METHYLENEBIS[2-CHLORO-

. Waste code: U159
. Waste name: 2-BUTANONE (I,T) (OR) METHYL ETHYL KETONE (MEK) (I,T)

. Waste code: U160
. Waste name: 2-BUTANONE, PEROXIDE (R,T) (OR) METHYL ETHYL KETONE PEROXIDE (R,T)

. Waste code: U161
. Waste name: 4-METHYL-2-PENTANONE (I) (OR) METHYL ISOBUTYL KETONE (I) (OR) PENTANOL, 4-METHYL-

. Waste code: U162
. Waste name: 2-PROPENOIC ACID, 2-METHYL-, METHYL ESTER (I,T) (OR) METHYL METHACRYLATE (I,T)

. Waste code: U165
. Waste name: NAPHTHALENE

. Waste code: U169

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. Waste name: BENZENE, NITRO- (OR) NITROBENZENE (I,T)

. Waste code: U170
. Waste name: P-NITROPHENOL (I,T) (OR) PHENOL, 4-NITRO-

. Waste code: U171
. Waste name: 2-NITROPROPANE (I,T) (OR) PROPANE, 2-NITRO- (I,T)

. Waste code: U172
. Waste name: 1-BUTANAMINE, N-BUTYL-N-NITROSO- (OR) N-NITROSODI-N-BUTYLAMINE

. Waste code: U173
. Waste name: ETHANOL, 2,2'-(NITROSOIMINO)BIS- (OR) N-NITROSODIETHANOLAMINE

. Waste code: U183
. Waste name: BENZENE, PENTACHLORO- (OR) PENTACHLOROBENZENE

. Waste code: U188
. Waste name: PHENOL

. Waste code: U190
. Waste name: 1,3-ISOBENZOFURANDIONE (OR) PHTHALIC ANHYDRIDE

. Waste code: U191
. Waste name: 2-PICOLINE (OR) PYRIDINE, 2-METHYL-

. Waste code: U196
. Waste name: PYRIDINE

. Waste code: U201
. Waste name: 1,3-BENZENEDIOL (OR) RESORCINOL

. Waste code: U204
. Waste name: SELENIOUS ACID (OR) SELENIUM DIOXIDE

. Waste code: U205
. Waste name: SELENIUM SULFIDE (OR) SELENIUM SULFIDE SES2 (R,T)

. Waste code: U207
. Waste name: 1,2,4,5-TETRACHLOROBENZENE (OR) BENZENE, 1,2,4,5-TETRACHLORO-

. Waste code: U208
. Waste name: 1,1,1,2-TETRACHLOROETHANE (OR) ETHANE, 1,1,1,2-TETRACHLORO-

. Waste code: U209
. Waste name: 1,1,2,2-TETRACHLOROETHANE (OR) ETHANE, 1,1,2,2-TETRACHLORO-

. Waste code: U210
. Waste name: ETHENE, TETRACHLORO- (OR) TETRACHLOROETHYLENE

. Waste code: U211
. Waste name: CARBON TETRACHLORIDE (OR) METHANE, TETRACHLORO-

. Waste code: U213
. Waste name: FURAN, TETRAHYDRO-(I) (OR) TETRAHYDROFURAN (I)

. Waste code: U215

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. Waste name: CARBONIC ACID, DITHALLIUM(1+) SALT (OR) THALLIUM(I) CARBONATE

. Waste code: U217
. Waste name: NITRIC ACID, THALLIUM(1+) SALT (OR) THALLIUM(I) NITRATE

. Waste code: U219
. Waste name: THIOUREA

. Waste code: U220
. Waste name: BENZENE, METHYL- (OR) TOLUENE

. Waste code: U221
. Waste name: BENZENEDIAMINE, AR-METHYL- (OR) TOLUENEDIAMINE

. Waste code: U223
. Waste name: BENZENE, 1,3-DIISOCYANATOMETHYL- (R,T) (OR) TOLUENE DIISOCYANATE (R,T)

. Waste code: U225
. Waste name: BROMOFORM (OR) METHANE, TRIBROMO-

. Waste code: U226
. Waste name: ETHANE, 1,1,1-TRICHLORO- (OR) METHYL CHLOROFORM

. Waste code: U227
. Waste name: 1,1,2-TRICHLOROETHANE (OR) ETHANE, 1,1,2-TRICHLORO-

. Waste code: U228
. Waste name: ETHENE, TRICHLORO- (OR) TRICHLOROETHYLENE

. Waste code: U234
. Waste name: 1,3,5-TRINITROBENZENE (R,T) (OR) BENZENE, 1,3,5-TRINITRO-

. Waste code: U239
. Waste name: BENZENE, DIMETHYL- (I,T) (OR) XYLENE (I)

. Waste code: U243
. Waste name: 1-PROPENE, 1,1,2,3,3,3-HEXACHLORO- (OR) HEXACHLOROPROPENE

. Waste code: U244
. Waste name: THIOPEROXYDICARBONIC DIAMIDE [(H2N)C(S)]2S2, TETRAMETHYL- (OR) THIRAM

. Waste code: U328
. Waste name: BENZENAMINE, 2-METHYL- (OR) O-TOLUIDINE

. Waste code: U353
. Waste name: BENZENAMINE, 4-METHYL- (OR) P-TOLUIDINE

. Waste code: U359
. Waste name: ETHANOL, 2-ETHOXY- (OR) ETHYLENE GLYCOL MONOETHYL ETHER

. Waste code: U404
. Waste name: ETHANAMINE, N,N-DIETHYL- (OR) TRIETHYLAMINE

. Waste code: U411
. Waste name: PHENOL, 2-(1-METHYLETHOXY)-, METHYLCARBAMATE (OR) PROPOXUR

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Biennial Reports:

Last Biennial Reporting Year: 2017

Annual Waste Handled:

Waste code:	D001
Waste name:	IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
Amount (Lbs):	59281
Waste code:	D002
Waste name:	A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
Amount (Lbs):	64932
Waste code:	D003
Waste name:	A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.
Amount (Lbs):	21802
Waste code:	D004
Waste name:	ARSENIC
Amount (Lbs):	36744
Waste code:	D005
Waste name:	BARIUM
Amount (Lbs):	41569
Waste code:	D006
Waste name:	CADMIUM
Amount (Lbs):	54753
Waste code:	D007
Waste name:	CHROMIUM
Amount (Lbs):	79663
Waste code:	D008
Waste name:	LEAD
Amount (Lbs):	68532
Waste code:	D009
Waste name:	MERCURY
Amount (Lbs):	36819
Waste code:	D010

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Waste name: SELENIUM
Amount (Lbs): 41302

Waste code: D011
Waste name: SILVER
Amount (Lbs): 61653

Waste code: D019
Waste name: CARBON TETRACHLORIDE
Amount (Lbs): 36744

Waste code: D021
Waste name: CHLOROBENZENE
Amount (Lbs): 36744

Waste code: D028
Waste name: 1,2-DICHLOROETHANE
Amount (Lbs): 41569

Waste code: D029
Waste name: 1,1-DICHLOROETHYLENE
Amount (Lbs): 36744

Waste code: D035
Waste name: METHYL ETHYL KETONE
Amount (Lbs): 83945

Waste code: D036
Waste name: NITROBENZENE
Amount (Lbs): 36744

Waste code: D038
Waste name: PYRIDINE
Amount (Lbs): 36744

Waste code: D039
Waste name: TETRACHLOROETHYLENE
Amount (Lbs): 36744

Waste code: D040
Waste name: TRICHLOROETHYLENE
Amount (Lbs): 36744

Waste code: F001
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs): 81871

Waste code: F002
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE,

NNSA NATIONAL SECURITY CAMPUS KANSAS CITY PLANT (Continued) **1015744571**

CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Amount (Lbs): 39537

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs): 83903

Waste code: F004
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: CRESOLS AND CRESYLIC ACID, AND NITROBENZENE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs): 36744

Waste code: F005
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs): 94995

Waste code: F006
Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.
Amount (Lbs): 24440

Waste code: F007
Waste name: SPENT CYANIDE PLATING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS
Amount (Lbs): 24909

Waste code: U080
Waste name: METHANE, DICHLORO-

NNSA NATIONAL SECURITY CAMPUS KANSAS CITY PLANT (Continued) **1015744571**

Amount (Lbs): 7769

Waste code: U147
Waste name: 2,5-FURANDIONE
Amount (Lbs): 4078

Waste code: U223
Waste name: BENZENE, 1,3-DIISOCYANATOMETHYL- (R,T)
Amount (Lbs): 44729

Waste code: U404
Waste name: ETHANAMINE, N,N-DIETHYL- (OR) TRIETHYLAMINE
Amount (Lbs): 7769

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 2015-02-20 00:00:00.0
Date achieved compliance: 2015-02-20 00:00:00.0
Violation lead agency: EPA
Enforcement action: COMPLIANCE EVALUATION INSPECTION ON-SITE
Enforcement action date: 2015-02-20 00:00:00.0
Enf. disposition status: Action Satisfied (Case Closed)
Enf. disp. status date: 2017-10-24 00:00:00.0
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD IS-General Facility Standards
Date violation determined: 2015-02-20 00:00:00.0
Date achieved compliance: 2015-03-06 00:00:00.0
Violation lead agency: EPA
Enforcement action: COMPLIANCE EVALUATION INSPECTION ON-SITE
Enforcement action date: 2015-02-20 00:00:00.0
Enf. disposition status: Action Satisfied (Case Closed)
Enf. disp. status date: 2017-10-24 00:00:00.0
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Used Oil - Generators
Date violation determined: 2015-02-20 00:00:00.0
Date achieved compliance: 2015-02-20 00:00:00.0
Violation lead agency: EPA
Enforcement action: COMPLIANCE EVALUATION INSPECTION ON-SITE
Enforcement action date: 2015-02-20 00:00:00.0
Enf. disposition status: Action Satisfied (Case Closed)
Enf. disp. status date: 2017-10-24 00:00:00.0
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

NNSA NATIONAL SECURITY CAMPUS KANSAS CITY PLANT (Continued) **1015744571**

Regulation violated: Not reported
Area of violation: Universal Waste - Small Quantity Handlers
Date violation determined: 2015-02-20 00:00:00.0
Date achieved compliance: 2015-03-05 00:00:00.0
Violation lead agency: EPA
Enforcement action: COMPLIANCE EVALUATION INSPECTION ON-SITE
Enforcement action date: 2015-02-20 00:00:00.0
Enf. disposition status: Action Satisfied (Case Closed)
Enf. disp. status date: 2017-10-24 00:00:00.0
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Universal Waste - Small Quantity Handlers
Date violation determined: 2015-02-20 00:00:00.0
Date achieved compliance: 2015-02-20 00:00:00.0
Violation lead agency: EPA
Enforcement action: COMPLIANCE EVALUATION INSPECTION ON-SITE
Enforcement action date: 2015-02-20 00:00:00.0
Enf. disposition status: Action Satisfied (Case Closed)
Enf. disp. status date: 2017-10-24 00:00:00.0
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 2015-02-17 00:00:00.0
Evaluation: WRITTEN INFORMAL
Area of violation: Generators - General
Date achieved compliance: 2015-02-20 00:00:00.0
Evaluation lead agency: EPA

Evaluation date: 2015-02-17 00:00:00.0
Evaluation: WRITTEN INFORMAL
Area of violation: Used Oil - Generators
Date achieved compliance: 2015-02-20 00:00:00.0
Evaluation lead agency: EPA

Evaluation date: 2015-02-17 00:00:00.0
Evaluation: WRITTEN INFORMAL
Area of violation: Universal Waste - Small Quantity Handlers
Date achieved compliance: 2015-02-20 00:00:00.0
Evaluation lead agency: EPA

Evaluation date: 2015-02-17 00:00:00.0
Evaluation: WRITTEN INFORMAL
Area of violation: Universal Waste - Small Quantity Handlers
Date achieved compliance: 2015-03-05 00:00:00.0
Evaluation lead agency: EPA

Evaluation date: 2015-02-17 00:00:00.0
Evaluation: WRITTEN INFORMAL
Area of violation: TSD IS-General Facility Standards
Date achieved compliance: 2015-03-06 00:00:00.0

NNSA NATIONAL SECURITY CAMPUS KANSAS CITY PLANT (Continued) **1015744571**

Evaluation lead agency: EPA

FINDS:

Registry ID: 110042713089

Environmental Interest/Information System
TSCA SUBMITTER
The MO-DNR (Missouri Department of Natural Resources) program involves a Resource Assessment and Monitoring Program, biological criteria development, monitoring of targeted sites to determine compliance with the designated use of aquatic life protection in the standards, monitoring for 303(3) purposes, and the development of a stream classification framework.
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.
HAZARDOUS WASTE BIENNIAL REPORTER

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

ECHO:
Envid: 1015744571
Registry ID: 110042713089
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110042713089

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3 SSW < 1/8 0.067 mi. 354 ft.

RICHARDS GEBAUR AIR FORCE BASE
HWY 150 & US 71 HWY
BELTON, MO 64012

SEMS
US ENG CONTROLS
US INST CONTROL
ROD

1000481425
MO9571824292

Relative: Higher

Actual: 1005 ft.

SEMS:
Site ID: 0701793
EPA ID: MO9571824292
Name: RICHARDS GEBAUR AIR FORCE BASE
Address: HWY 150 & US 71 HWY
Address 2: Not reported
City,State,Zip: BELTON, MO 64012
Cong District: 04
FIPS Code: 29037
Latitude: Not reported
Longitude: Not reported
FF: Y
NPL: Not on the NPL
Non NPL Status: Referred to Removal - NFRAP

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

SEMS Detail:

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	00
Action Code:	TY
Action Name:	FF SI REV
SEQ:	1
Start Date:	1996-11-01 05:00:00
Finish Date:	11/1/1996 5:00:00 AM
Qual:	N
Current Action Lead:	EPA Perf In-Hse

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	00
Action Code:	SI
Action Name:	SI
SEQ:	2
Start Date:	1998-01-23 05:00:00
Finish Date:	1/23/1998 5:00:00 AM
Qual:	W
Current Action Lead:	EPA Perf

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	03
Action Code:	RS
Action Name:	RV ASSESS
SEQ:	1
Start Date:	1998-01-13 05:00:00
Finish Date:	1/13/1998 5:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	00
Action Code:	DS
Action Name:	DISCVRY
SEQ:	1
Start Date:	1981-07-22 04:00:00

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

Finish Date:	7/22/1981 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	00
Action Code:	MA
Action Name:	ST COOP
SEQ:	1
Start Date:	1997-10-01 04:00:00
Finish Date:	9/30/2001 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	30
Start Date:	2002-04-02 05:00:00
Finish Date:	8/22/2002 4:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	4
Start Date:	1999-12-28 05:00:00
Finish Date:	12/28/1999 5:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	02
Action Code:	LV

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

Action Name:	FF RV
SEQ:	5
Start Date:	1991-11-08 05:00:00
Finish Date:	2/1/1992 5:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	3
Start Date:	1996-01-01 05:00:00
Finish Date:	12/30/1999 5:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	03
Action Code:	LV
Action Name:	FF RV
SEQ:	2
Start Date:	2001-12-21 05:00:00
Finish Date:	2/4/2003 5:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	NH
Action Name:	FF RI
SEQ:	5
Start Date:	1990-07-01 04:00:00
Finish Date:	7/1/1990 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	25
Start Date:	2000-03-09 05:00:00
Finish Date:	5/19/2000 4:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	26
Start Date:	2000-02-15 05:00:00
Finish Date:	3/24/2001 5:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	02
Action Code:	LV
Action Name:	FF RV
SEQ:	27
Start Date:	2000-02-07 05:00:00
Finish Date:	4/6/2000 4:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	28
Start Date:	1999-12-16 05:00:00
Finish Date:	3/1/2000 5:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	00
Action Code:	EE
Action Name:	EE/CA
SEQ:	1
Start Date:	2001-06-01 04:00:00
Finish Date:	6/1/2001 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	EE
Action Name:	EE/CA
SEQ:	3
Start Date:	2001-07-19 04:00:00
Finish Date:	7/19/2001 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	18
Start Date:	2002-02-12 05:00:00
Finish Date:	5/29/2002 4:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	17
Start Date:	2002-02-11 05:00:00
Finish Date:	6/27/2002 4:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	14
Start Date:	2000-07-25 04:00:00
Finish Date:	10/2/2000 4:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	15
Start Date:	2000-02-24 05:00:00
Finish Date:	5/23/2000 4:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	16
Start Date:	2002-02-01 05:00:00
Finish Date:	3/15/2002 5:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	39
Start Date:	1995-06-14 04:00:00
Finish Date:	7/5/1995 4:00:00 AM

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	03
Action Code:	EE
Action Name:	EE/CA
SEQ:	2
Start Date:	2002-08-01 04:00:00
Finish Date:	9/20/2002 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	23
Start Date:	2002-02-12 05:00:00
Finish Date:	5/29/2002 4:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	24
Start Date:	2001-11-27 05:00:00
Finish Date:	8/22/2002 4:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	03
Action Code:	LV
Action Name:	FF RV

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

SEQ: 40
Start Date: 2002-09-01 04:00:00
Finish Date: 12/10/2003 5:00:00 AM
Qual: C
Current Action Lead: Fed Fac

Region: 07
Site ID: 0701793
EPA ID: MO9571824292
Site Name: RICHARDS GEBAUR AIR FORCE BASE
NPL: N
FF: Y
OU: 03
Action Code: LV
Action Name: FF RV
SEQ: 38
Start Date: 2001-01-12 05:00:00
Finish Date: 12/10/2003 5:00:00 AM
Qual: C
Current Action Lead: Fed Fac

Region: 07
Site ID: 0701793
EPA ID: MO9571824292
Site Name: RICHARDS GEBAUR AIR FORCE BASE
NPL: N
FF: Y
OU: 01
Action Code: LV
Action Name: FF RV
SEQ: 36
Start Date: 2000-02-07 05:00:00
Finish Date: 4/5/2000 4:00:00 AM
Qual: C
Current Action Lead: Fed Fac

Region: 07
Site ID: 0701793
EPA ID: MO9571824292
Site Name: RICHARDS GEBAUR AIR FORCE BASE
NPL: N
FF: Y
OU: 03
Action Code: LV
Action Name: FF RV
SEQ: 37
Start Date: 1997-09-15 04:00:00
Finish Date: 9/17/1997 4:00:00 AM
Qual: C
Current Action Lead: Fed Fac

Region: 07
Site ID: 0701793
EPA ID: MO9571824292
Site Name: RICHARDS GEBAUR AIR FORCE BASE
NPL: N
FF: Y

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	33
Start Date:	1993-10-29 04:00:00
Finish Date:	10/29/1993 4:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	34
Start Date:	1991-01-02 05:00:00
Finish Date:	12/31/1991 5:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	35
Start Date:	1995-07-05 04:00:00
Finish Date:	7/28/1995 4:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	32
Start Date:	2003-01-27 05:00:00
Finish Date:	1/31/2003 5:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	NH
Action Name:	FF RI
SEQ:	3
Start Date:	2003-11-03 05:00:00
Finish Date:	11/3/2003 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	00
Action Code:	LZ
Action Name:	FF CR
SEQ:	3
Start Date:	1983-03-31 05:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	19
Start Date:	2002-02-15 05:00:00
Finish Date:	3/21/2002 5:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	41
Start Date:	1995-09-21 04:00:00
Finish Date:	9/29/1995 4:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	6
Start Date:	2001-07-17 04:00:00
Finish Date:	12/19/2001 5:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	7
Start Date:	2001-11-09 05:00:00
Finish Date:	6/21/2002 4:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	02
Action Code:	LV
Action Name:	FF RV
SEQ:	8
Start Date:	2002-02-28 05:00:00
Finish Date:	3/16/2002 5:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	02
Action Code:	LV
Action Name:	FF RV
SEQ:	9
Start Date:	1993-06-17 04:00:00
Finish Date:	10/4/1993 4:00:00 AM

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	02
Action Code:	LV
Action Name:	FF RV
SEQ:	10
Start Date:	1993-01-02 05:00:00
Finish Date:	12/31/1993 5:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	02
Action Code:	LV
Action Name:	FF RV
SEQ:	11
Start Date:	1988-01-02 05:00:00
Finish Date:	12/31/1995 5:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	12
Start Date:	2002-02-08 05:00:00
Finish Date:	2/26/2002 5:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

SEQ: 13
Start Date: 2000-01-17 05:00:00
Finish Date: 9/19/2000 4:00:00 AM
Qual: C
Current Action Lead: Fed Fac

Region: 07
Site ID: 0701793
EPA ID: MO9571824292
Site Name: RICHARDS GEBAUR AIR FORCE BASE
NPL: N
FF: Y
OU: 01
Action Code: LV
Action Name: FF RV
SEQ: 20
Start Date: 2002-08-16 04:00:00
Finish Date: 9/16/2002 4:00:00 AM
Qual: C
Current Action Lead: Fed Fac

Region: 07
Site ID: 0701793
EPA ID: MO9571824292
Site Name: RICHARDS GEBAUR AIR FORCE BASE
NPL: N
FF: Y
OU: 02
Action Code: LV
Action Name: FF RV
SEQ: 31
Start Date: 2001-11-06 05:00:00
Finish Date: 5/29/2002 4:00:00 AM
Qual: C
Current Action Lead: Fed Fac

Region: 07
Site ID: 0701793
EPA ID: MO9571824292
Site Name: RICHARDS GEBAUR AIR FORCE BASE
NPL: N
FF: Y
OU: 00
Action Code: AE
Action Name: RE-USE P
SEQ: 1
Start Date: 1994-09-23 04:00:00
Finish Date: 9/23/1994 4:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 07
Site ID: 0701793
EPA ID: MO9571824292
Site Name: RICHARDS GEBAUR AIR FORCE BASE
NPL: N
FF: Y

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

OU:	01
Action Code:	NH
Action Name:	FF RI
SEQ:	1
Start Date:	1991-10-01 04:00:00
Finish Date:	10/1/1991 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	00
Action Code:	LZ
Action Name:	FF CR
SEQ:	1
Start Date:	1994-03-01 05:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	03
Action Code:	NH
Action Name:	FF RI
SEQ:	2
Start Date:	1997-07-01 04:00:00
Finish Date:	11/1/1998 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	1
Start Date:	2001-09-10 04:00:00
Finish Date:	8/30/2002 4:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LY
Action Name:	FF RA
SEQ:	1
Start Date:	2002-08-01 04:00:00
Finish Date:	9/19/2007 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	42
Start Date:	2004-08-10 04:00:00
Finish Date:	9/28/2004 4:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	21
Start Date:	2002-02-26 05:00:00
Finish Date:	2/26/2003 5:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	22
Start Date:	1999-12-03 05:00:00
Finish Date:	8/15/2000 4:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	02
Action Code:	LY
Action Name:	FF RA
SEQ:	2
Start Date:	2002-08-01 04:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	02
Action Code:	NI
Action Name:	FF FS
SEQ:	1
Start Date:	2002-08-30 04:00:00
Finish Date:	9/23/2004 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LW
Action Name:	FF RI/FS
SEQ:	1
Start Date:	2002-08-30 04:00:00
Finish Date:	9/23/2004 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	02
Action Code:	GM
Action Name:	GWTRMON
SEQ:	1
Start Date:	2004-09-23 04:00:00
Finish Date:	Not reported

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	00
Action Code:	SI
Action Name:	SI
SEQ:	1
Start Date:	1988-03-01 05:00:00
Finish Date:	12/19/1989 5:00:00 AM
Qual:	W
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	RO
Action Name:	ROD
SEQ:	1
Start Date:	2004-09-23 04:00:00
Finish Date:	9/23/2004 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	1984-09-01 05:00:00
Finish Date:	9/30/1984 5:00:00 AM
Qual:	L
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	00
Action Code:	PA
Action Name:	PA

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

SEQ: 2
Start Date: 1984-07-19 05:00:00
Finish Date: 7/19/1984 5:00:00 AM
Qual: L
Current Action Lead: St Perf

SIte:
Name: RICHARDS GEBAUR AIR FORCE BASE
Address: HWY 150 & US 71 HWY
Address 2: Not reported
City,State,Zip: BELTON, MO 64012
Event Code: Not reported
Action Taken Date: 08/31/2007
EPA ID: MO9571824292
Site ID: 0701793
Action Name: Explanation Of Significant Differences
Action ID: 001
Operable Unit: 01
Action Completion Date: 09/19/2007
Contaminated Media: Soil
Engineering Control: No Further Action
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

Media:
Engineering Control: No Further Action
EPA ID: MO9571824292
Contaminated Media: Soil
Site ID: 0701793
Action ID: 001
Action Completion Date: 09/19/2007
Operable Unit: 01
Action Name: Explanation Of Significant Differences
Action Taken Date: 08/31/2007
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

Engineering Control: Monitoring
EPA ID: MO9571824292
Contaminated Media: Groundwater
Site ID: 0701793
Action ID: 001
Action Completion Date: 09/23/2004
Operable Unit: 01
Action Name: RECORD OF DECISION
Action Taken Date: 09/30/2004
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

Engineering Control: Cap
EPA ID: MO9571824292

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

Contaminated Media: Soil
Site ID: 0701793
Action ID: 002
Action Completion Date: Not reported
Operable Unit: 03
Action Name: RECORD OF DECISION
Action Taken Date: Not reported
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

Engineering Control: Monitoring
EPA ID: MO9571824292
Contaminated Media: Groundwater
Site ID: 0701793
Action ID: 003
Action Completion Date: 09/23/2004
Operable Unit: 02
Action Name: RECORD OF DECISION
Action Taken Date: Not reported
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

US INST CONTROL:
Name: RICHARDS GEBAUR AIR FORCE BASE
Address: HWY 150 & US 71 HWY
Address 2: Not reported
City,State,Zip: BELTON, MO 64012
EPA ID: MO9571824292
Site ID: 0701793
Action Name: RECORD OF DECISION
Action ID: 001
Operable Unit: 01
Action Completion Date: 09/23/2004
Actual Date: 09/30/2004
Contaminated Media: Groundwater
Institutional Control: Covenant
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

Name: RICHARDS GEBAUR AIR FORCE BASE
Address: HWY 150 & US 71 HWY
Address 2: Not reported
City,State,Zip: BELTON, MO 64012
EPA ID: MO9571824292
Site ID: 0701793
Action Name: RECORD OF DECISION
Action ID: 001
Operable Unit: 01
Action Completion Date: 09/23/2004
Actual Date: 09/30/2004

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

Contaminated Media: Soil
Institutional Control: Covenant
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

Name: RICHARDS GEBAUR AIR FORCE BASE
Address: HWY 150 & US 71 HWY
Address 2: Not reported
City,State,Zip: BELTON, MO 64012
EPA ID: MO9571824292
Site ID: 0701793
Action Name: RECORD OF DECISION
Action ID: 003
Operable Unit: 02
Action Completion Date: 09/23/2004
Actual Date: Not reported
Contaminated Media: Groundwater
Institutional Control: Covenant
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported

ROD:
Name: RICHARDS GEBAUR AIR FORCE BASE
Address: HWY 150 & US 71 HWY
City,State,Zip: BELTON, MO 64012
EPA ID: MO9571824292
RG: 7
Site ID: 701793
Action: FF ESD
Operable Unit Number: SOIL REMEDIATION
SEQ ID: 1
Action Completion: 2007-09-19 00:00:00
NPL Status: Not on the NPL
Non NPL Status: Referred to Removal - NFRAP

Name: RICHARDS GEBAUR AIR FORCE BASE
Address: HWY 150 & US 71 HWY
City,State,Zip: BELTON, MO 64012
EPA ID: MO9571824292
RG: 7
Site ID: 701793
Action: FF ROD (RCRA Statement of Basis/RTC)
Operable Unit Number: SOIL REMEDIATION
SEQ ID: 1
Action Completion: 2004-09-23 00:00:00
NPL Status: Not on the NPL
Non NPL Status: Referred to Removal - NFRAP

Name: RICHARDS GEBAUR AIR FORCE BASE
Address: HWY 150 & US 71 HWY
City,State,Zip: BELTON, MO 64012
EPA ID: MO9571824292
RG: 7

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

Site ID:	701793
Action:	FF ROD (RCRA Statement of Basis/RTC)
Operable Unit Number:	GROUNDWATER SITE SPECIFIC
SEQ ID:	3
Action Completion:	2004-09-23 00:00:00
NPL Status:	Not on the NPL
Non NPL Status:	Referred to Removal - NFRAP

4
NNW
< 1/8
0.111 mi.
587 ft.

SIKA CORP **RCRA-SQG** **1004742121**
14201 BOTTS RD **FINDS** **MOR000038315**
GRANDVIEW, MO 64030 **ECHO**

Relative:
Higher

Actual:
1023 ft.

RCRA-SQG:

Date form received by agency:	2017-10-06 00:00:00.0
Facility name:	SIKA CORP
Facility address:	14201 BOTTS RD GRANDVIEW, MO 64030-2863
EPA ID:	MOR000038315
Contact:	LAURALEE WELLS
Contact address:	14201 BOTTS RD GRANDVIEW, MO 64030-2863
Contact country:	US
Contact telephone:	816-316-4316
Contact email:	WELLS.LAURALEE@US.SIKA.COM
EPA Region:	07
Land type:	Private
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	SIKA CORP
Owner/operator address:	201 POLITO AVE LYNDHURST, NJ 07071
Owner/operator country:	US
Owner/operator telephone:	201-933-8800
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	2000-03-13 00:00:00.
Owner/Op end date:	Not reported

Owner/operator name:	SIKA CORP
Owner/operator address:	201 POLITO AVE LYNDHURST, NJ 07071
Owner/operator country:	US
Owner/operator telephone:	201-933-8800
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported

SIKA CORP (Continued) **1004742121**

Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 2000-03-13 00:00:00.
Owner/Op end date: Not reported

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

Historical Generators:
Date form received by agency: 2016-10-03 00:00:00.0
Site name: SIKA CORP
Classification: Small Quantity Generator

Date form received by agency: 2015-05-18 00:00:00.0
Site name: SIKA CORPORATION
Classification: Small Quantity Generator

Date form received by agency: 2011-04-11 00:00:00.0
Site name: SIKA CORPORATION GRANDVIEW PLANT
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 2000-06-21 00:00:00.0
Site name: SIKA CORP
Classification: Large Quantity Generator

Date form received by agency: 2000-03-15 00:00:00.0
Site name: SIKA CORP
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 1999-09-23 00:00:00.0
Site name: SIKA CORP
Classification: Not a generator, verified

Hazardous Waste Summary:

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT

SIKA CORP (Continued) **1004742121**

MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: NONE
. Waste name: None

Facility Has Received Notices of Violations:
Regulation violated: SR - A04
Area of violation: Generators - General
Date violation determined: 2000-03-07 00:00:00.0
Date achieved compliance: 2000-04-13 00:00:00.0
Violation lead agency: State
Enforcement action: COMPLIANCE EVALUATION INSPECTION ON-SITE
Enforcement action date: 2000-03-22 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - A03
Area of violation: Generators - General
Date violation determined: 2000-03-07 00:00:00.0
Date achieved compliance: 2000-04-13 00:00:00.0
Violation lead agency: State
Enforcement action: COMPLIANCE EVALUATION INSPECTION ON-SITE
Enforcement action date: 2000-03-22 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - F01
Area of violation: Generators - General
Date violation determined: 2000-03-07 00:00:00.0
Date achieved compliance: 2000-04-13 00:00:00.0
Violation lead agency: State
Enforcement action: COMPLIANCE EVALUATION INSPECTION ON-SITE
Enforcement action date: 2000-03-22 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 2000-03-07 00:00:00.0

SIKA CORP (Continued) **1004742121**

Evaluation: WRITTEN INFORMAL
Area of violation: Generators - General
Date achieved compliance: 2000-04-13 00:00:00.0
Evaluation lead agency: State

FINDS:

Registry ID: 110011092227

Environmental Interest/Information System
US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.
The MO-DNR (Missouri Department of Natural Resources) program involves a Resource Assessment and Monitoring Program, biological criteria development, monitoring of targeted sites to determine compliance with the designated use of aquatic life protection in the standards, monitoring for 303(3) purposes, and the development of a stream classification framework.
OSHA ESTABLISHMENT
US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

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

ECHO:
Envid: 1004742121
Registry ID: 110011092227
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110011092227

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5 **GRANDVIEW RADIO BEA AX 2** **FUDS** **1024898657**
ESE **N/A**
1/4-1/2 **GRANDVIEW, MO**
0.269 mi.
1421 ft.

Relative:
Higher

Actual:
1005 ft.

FUDS:
EPA Region: 7
Installation ID: MO79799F040800
Congressional District Number: 5
Facility Name: GRANDVIEW RADIO BEA AX 2
FUDS Number: B07MO0970
City: GRANDVIEW
State: MO

GRANDVIEW RADIO BEA AX 2 (Continued) **1024898657**

County:	JACKSON
USACE District:	Kansas City District (NWK)
Status:	Properties without projects
Current Owner:	Local Government
EMS Map Link:	https://fudsportal.usace.army.mil/ems/ems/inventory/map/map?id=58667
Eligibility:	Eligible
Has Projects:	No
NPL Status:	Not Listed
X Coord:	-94.536666669999903
Y Coord:	38.860277779999997
Latitude:	38.860277779999997
Longitude:	-94.536666670000002

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

Federal NPL site list

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: 01/30/2020
Date Data Arrived at EDR: 02/05/2020
Date Made Active in Reports: 02/14/2020
Number of Days to Update: 9

Source: EPA
Telephone: N/A
Last EDR Contact: 02/05/2020
Next Scheduled EDR Contact: 04/13/2020
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 5
Telephone 312-886-6686

EPA Region 10
Telephone 206-553-8665

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6774

EPA Region 9
Telephone: 415-947-4246

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: 01/30/2020
Date Data Arrived at EDR: 02/05/2020
Date Made Active in Reports: 02/14/2020
Number of Days to Update: 9

Source: EPA
Telephone: N/A
Last EDR Contact: 02/05/2020
Next Scheduled EDR Contact: 04/13/2020
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

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: 01/30/2020
Date Data Arrived at EDR: 02/05/2020
Date Made Active in Reports: 02/14/2020
Number of Days to Update: 9

Source: EPA
Telephone: N/A
Last EDR Contact: 02/05/2020
Next Scheduled EDR Contact: 04/13/2020
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 04/03/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 04/05/2019
Next Scheduled EDR Contact: 04/13/2020
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 01/30/2020
Date Data Arrived at EDR: 02/05/2020
Date Made Active in Reports: 02/14/2020
Number of Days to Update: 9

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 02/05/2020
Next Scheduled EDR Contact: 04/27/2020
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 01/30/2020
Date Data Arrived at EDR: 02/05/2020
Date Made Active in Reports: 02/14/2020
Number of Days to Update: 9

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 02/05/2020
Next Scheduled EDR Contact: 04/27/2020
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/16/2019
Date Data Arrived at EDR: 12/16/2019
Date Made Active in Reports: 12/20/2019
Number of Days to Update: 4

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 12/16/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

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: 12/16/2019
Date Data Arrived at EDR: 12/16/2019
Date Made Active in Reports: 12/20/2019
Number of Days to Update: 4

Source: Environmental Protection Agency
Telephone: 913-551-7003
Last EDR Contact: 12/16/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Quarterly

Federal RCRA generators list

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: 12/16/2019
Date Data Arrived at EDR: 12/16/2019
Date Made Active in Reports: 12/20/2019
Number of Days to Update: 4

Source: Environmental Protection Agency
Telephone: 913-551-7003
Last EDR Contact: 12/16/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 12/16/2019
Date Data Arrived at EDR: 12/16/2019
Date Made Active in Reports: 12/20/2019
Number of Days to Update: 4

Source: Environmental Protection Agency
Telephone: 913-551-7003
Last EDR Contact: 12/16/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Quarterly

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

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/16/2019
Date Data Arrived at EDR: 12/16/2019
Date Made Active in Reports: 12/20/2019
Number of Days to Update: 4

Source: Environmental Protection Agency
Telephone: 913-551-7003
Last EDR Contact: 12/16/2019
Next Scheduled EDR Contact: 04/06/2020
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: 11/04/2019
Date Data Arrived at EDR: 11/13/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 76

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 02/10/2020
Next Scheduled EDR Contact: 05/25/2020
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 11/22/2019
Date Data Arrived at EDR: 11/22/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 67

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/22/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 11/22/2019
Date Data Arrived at EDR: 11/22/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 67

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/22/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Varies

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: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 14

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 12/19/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

HWS DETAIL: Registry Annual Report

Each site is described in detail in this annual report and includeds the following information: a general description of the site; a summary of any significant environmental problems at and near the site; a summary of any serious health problems in the immediate vicinity of the site; the status of any testing, monitoring or remedial actions in progress or recommended by the department.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 02/28/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 75

Source: Department of Natural Resources
Telephone: 573-751-3176
Last EDR Contact: 11/27/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Annually

SHWS: Registry of Confirmed Abandoned or Uncontrolled Hazardous Waste Disposal Sites

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 09/24/2019
Date Data Arrived at EDR: 09/27/2019
Date Made Active in Reports: 11/08/2019
Number of Days to Update: 42

Source: Department of Natural Resources
Telephone: 573-751-1990
Last EDR Contact: 12/05/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Annually

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

SWF/LF: Solid Waste Facility List

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 09/10/2019
Date Data Arrived at EDR: 09/12/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 60

Source: Department of Natural Resources
Telephone: 573-751-5401
Last EDR Contact: 02/20/2020
Next Scheduled EDR Contact: 05/25/2020
Data Release Frequency: Varies

State and tribal leaking storage tank lists

LAST: Leaking Aboveground Storage Tanks

A listing of leaking aboveground storage tanks.

Date of Government Version: 09/04/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/08/2019
Number of Days to Update: 60

Source: Department of Natural Resources
Telephone: 573-751-6822
Last EDR Contact: 12/11/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Quarterly

LUST: Leaking Underground Storage Tanks

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: 09/04/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/08/2019
Number of Days to Update: 60

Source: Department of Natural Resources
Telephone: 573-751-0135
Last EDR Contact: 12/11/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Quarterly

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 10/10/2019
Date Data Arrived at EDR: 12/05/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 67

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
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: 10/03/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/14/2020
Number of Days to Update: 72

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
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: 04/08/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
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: 10/11/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 68

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
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.

Date of Government Version: 10/01/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 68

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
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: 10/02/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 68

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
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: 10/01/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 68
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

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

Date of Government Version: 10/15/2019
Date Data Arrived at EDR: 12/17/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 55
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 12/16/2019
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

State and tribal registered storage tank lists

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

Date of Government Version: 08/27/2019
Date Data Arrived at EDR: 08/28/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 75
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 01/21/2020
Next Scheduled EDR Contact: 04/20/2020
Data Release Frequency: Varies

UST: Petroleum Storage Tanks
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: 09/04/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/08/2019
Number of Days to Update: 60
Source: Department of Natural Resources
Telephone: 573-751-0135
Last EDR Contact: 12/11/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Quarterly

AST: Aboveground Petroleum Storage Tanks
Registered Aboveground Storage Tanks.

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 09/03/2019
Date Made Active in Reports: 11/08/2019
Number of Days to Update: 66
Source: Department of Agriculture
Telephone: 573-751-7062
Last EDR Contact: 12/02/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Semi-Annually

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: 04/08/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80
Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
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: 10/01/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 68

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
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: 10/11/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 68

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
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: 10/02/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 68

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
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: 10/11/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 68

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
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: 10/03/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/14/2020
Number of Days to Update: 72

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
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: 10/01/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 68

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
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: 10/10/2019
Date Data Arrived at EDR: 12/05/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 67

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

AUL: Sites with Controls

Activity and use limitations include both engineering controls and institutional controls.

Date of Government Version: 10/03/2019
Date Data Arrived at EDR: 11/12/2019
Date Made Active in Reports: 01/17/2020
Number of Days to Update: 66

Source: Department of Natural Resources
Telephone: 573-751-3176
Last EDR Contact: 02/12/2020
Next Scheduled EDR Contact: 05/25/2020
Data Release Frequency: Quarterly

State and tribal voluntary cleanup sites

VCP: Sites Participating in the Voluntary Cleanup Program

Sites participating in the Voluntary Cleanup Program.

Date of Government Version: 10/03/2019
Date Data Arrived at EDR: 11/12/2019
Date Made Active in Reports: 01/17/2020
Number of Days to Update: 66

Source: Department of Natural Resources
Telephone: 573-526-8913
Last EDR Contact: 02/12/2020
Next Scheduled EDR Contact: 05/25/2020
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
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 12/17/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

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

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Site List

Brownfields are sites where redevelopment and reuse is hampered by known or suspected contamination with hazardous substances. While many brownfield sites are minimally contaminated, potential environmental liability can be a problem for owners, operators, prospective buyers and financial institutions. Because of the large number of these sites, their economic impact especially in heavily industrial areas is substantial.

Date of Government Version: 10/03/2019
Date Data Arrived at EDR: 11/12/2019
Date Made Active in Reports: 01/17/2020
Number of Days to Update: 66

Source: Department of Natural Resources
Telephone: 573-526-8913
Last EDR Contact: 02/12/2020
Next Scheduled EDR Contact: 05/25/2020
Data Release Frequency: Quarterly

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: 06/03/2019
Date Data Arrived at EDR: 06/04/2019
Date Made Active in Reports: 08/26/2019
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 12/16/2019
Next Scheduled EDR Contact: 03/30/2020
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: Solid Waste Recycling Facilities

A listing of recycling center locations.

Date of Government Version: 12/06/2019
Date Data Arrived at EDR: 12/09/2019
Date Made Active in Reports: 02/07/2020
Number of Days to Update: 60

Source: Department of Natural Resources
Telephone: 573-526-3944
Last EDR Contact: 02/05/2020
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Varies

HIST LF: Solid Waste Facility Database List

This database contains detailed information per site. It is no longer maintained by the Department of Natural Resources. For current information on solid waste facilities/landfills see the SWF/LF database.

Date of Government Version: 04/12/2005
Date Data Arrived at EDR: 07/19/2006
Date Made Active in Reports: 08/18/2006
Number of Days to Update: 30

Source: Department of Natural Resources
Telephone: 573-751-5401
Last EDR Contact: 01/12/2009
Next Scheduled EDR Contact: 04/13/2009
Data Release Frequency: No Update Planned

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: 01/27/2020
Next Scheduled EDR Contact: 05/11/2020
Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 01/17/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 01/31/2020
Next Scheduled EDR Contact: 05/11/2020
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: 06/11/2019
Date Data Arrived at EDR: 06/13/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 82

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/20/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: No Update Planned

CDL: Environmental Emergency Response System

Incidents reported to the Department of Natural Resources where drug lab materials were involved.

Date of Government Version: 08/01/2019
Date Data Arrived at EDR: 08/16/2019
Date Made Active in Reports: 08/19/2019
Number of Days to Update: 3

Source: Department of Natural Resources
Telephone: 573-751-3443
Last EDR Contact: 12/11/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Quarterly

DEL SHWS: Registry Sites Withdrawn or Deleted

A list of sites that were removed from the Registry or for which Registry action was suspended due to cleanup.

Date of Government Version: 09/24/2019
Date Data Arrived at EDR: 09/27/2019
Date Made Active in Reports: 11/08/2019
Number of Days to Update: 42

Source: Department of Natural Resources
Telephone: 573-522-3710
Last EDR Contact: 12/05/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Annually

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 06/11/2019
Date Data Arrived at EDR: 06/13/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 82

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/20/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Quarterly

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.

Date of Government Version: 01/30/2020
Date Data Arrived at EDR: 02/05/2020
Date Made Active in Reports: 02/14/2020
Number of Days to Update: 9

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 02/05/2020
Next Scheduled EDR Contact: 04/13/2020
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: 12/05/2019
Date Data Arrived at EDR: 12/06/2019
Date Made Active in Reports: 02/14/2020
Number of Days to Update: 70

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 12/06/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Quarterly

SPILLS: Environmental Response Tracking Database

Releases of hazardous substances reported to the department's Environmental Emergency Response (EER) section.

Date of Government Version: 08/01/2019
Date Data Arrived at EDR: 08/16/2019
Date Made Active in Reports: 08/19/2019
Number of Days to Update: 3

Source: Department of Natural Resources
Telephone: 573-526-3349
Last EDR Contact: 12/11/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/27/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

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: 12/16/2019
Date Data Arrived at EDR: 12/16/2019
Date Made Active in Reports: 12/20/2019
Number of Days to Update: 4

Source: Environmental Protection Agency
Telephone: 913-551-7003
Last EDR Contact: 12/16/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 11/12/2019
Date Data Arrived at EDR: 11/19/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 70

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 11/19/2019
Next Scheduled EDR Contact: 03/02/2020
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: 01/10/2020
Next Scheduled EDR Contact: 04/20/2020
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 01/09/2020
Next Scheduled EDR Contact: 04/20/2020
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 02/13/2020
Next Scheduled EDR Contact: 05/25/2020
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 09/23/2019
Date Data Arrived at EDR: 09/24/2019
Date Made Active in Reports: 12/20/2019
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 12/19/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 02/03/2020
Next Scheduled EDR Contact: 05/18/2020
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 02/07/2020
Next Scheduled EDR Contact: 05/18/2020
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/21/2017
Date Made Active in Reports: 01/05/2018
Number of Days to Update: 198

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 12/20/2019
Next Scheduled EDR Contact: 03/30/2020
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: 12/31/2017
Date Data Arrived at EDR: 11/16/2018
Date Made Active in Reports: 11/21/2019
Number of Days to Update: 370

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 02/05/2020
Next Scheduled EDR Contact: 03/02/2020
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: 05/01/2019
Date Data Arrived at EDR: 10/23/2019
Date Made Active in Reports: 01/15/2020
Number of Days to Update: 84

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 01/30/2020
Date Data Arrived at EDR: 02/05/2020
Date Made Active in Reports: 02/14/2020
Number of Days to Update: 9

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 02/05/2020
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 04/25/2019
Date Data Arrived at EDR: 05/02/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 01/21/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 01/30/2020
Date Data Arrived at EDR: 02/06/2020
Date Made Active in Reports: 02/14/2020
Number of Days to Update: 8

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 02/06/2020
Next Scheduled EDR Contact: 05/18/2020
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 10/09/2019
Date Data Arrived at EDR: 10/11/2019
Date Made Active in Reports: 12/20/2019
Number of Days to Update: 70

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 01/10/2020
Next Scheduled EDR Contact: 04/20/2020
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 01/06/2020
Next Scheduled EDR Contact: 04/20/2020
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

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

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 10/25/2019
Date Data Arrived at EDR: 10/25/2019
Date Made Active in Reports: 01/15/2020
Number of Days to Update: 82

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 01/21/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 01/15/2020
Number of Days to Update: 42

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 11/25/2019
Next Scheduled EDR Contact: 03/16/2020
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
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 02/07/2020
Next Scheduled EDR Contact: 05/18/2020
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 12/20/2019
Next Scheduled EDR Contact: 04/13/2020
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 Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 10/01/2019
Date Data Arrived at EDR: 10/29/2019
Date Made Active in Reports: 01/15/2020
Number of Days to Update: 78
Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 01/28/2020
Next Scheduled EDR Contact: 05/11/2020
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees
Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 09/30/2019
Date Data Arrived at EDR: 10/09/2019
Date Made Active in Reports: 12/20/2019
Number of Days to Update: 72

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 01/06/2020
Next Scheduled EDR Contact: 04/20/2020
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 09/28/2017
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 12/16/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 01/07/2020
Next Scheduled EDR Contact: 04/20/2020
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 01/31/2020
Next Scheduled EDR Contact: 05/18/2020
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 11/15/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 01/30/2020
Date Data Arrived at EDR: 02/05/2020
Date Made Active in Reports: 02/14/2020
Number of Days to Update: 9

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 02/05/2020
Next Scheduled EDR Contact: 04/13/2020
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 1931and 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
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
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.

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: 11/06/2019
Date Data Arrived at EDR: 11/25/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 64

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 11/25/2019
Next Scheduled EDR Contact: 03/09/2020
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: 12/03/2019
Date Data Arrived at EDR: 12/03/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 56

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 12/02/2019
Next Scheduled EDR Contact: 03/16/2020
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: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 11/22/2019
Next Scheduled EDR Contact: 03/09/2020
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: 11/22/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 09/10/2019
Date Data Arrived at EDR: 09/10/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 37

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 03/23/2020
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: 08/12/2019
Date Data Arrived at EDR: 09/04/2019
Date Made Active in Reports: 12/03/2019
Number of Days to Update: 90

Source: EPA
Telephone: (913) 551-7003
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 03/16/2020
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: 10/06/2019
Date Data Arrived at EDR: 10/08/2019
Date Made Active in Reports: 01/02/2020
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 01/07/2020
Next Scheduled EDR Contact: 04/20/2020
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 01/17/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 74

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 01/13/2020
Next Scheduled EDR Contact: 04/27/2020
Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 07/26/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 71

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 11/20/2019
Next Scheduled EDR Contact: 03/09/2020
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: 11/18/2019
Date Data Arrived at EDR: 11/19/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 70

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 11/19/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Quarterly

AIRS: Permit Facility Listing

A listing of Air Pollution Control Program permits.

Date of Government Version: 10/01/2019
Date Data Arrived at EDR: 10/02/2019
Date Made Active in Reports: 12/04/2019
Number of Days to Update: 63

Source: Department of Natural Resources
Telephone: 573-751-4817
Last EDR Contact: 02/03/2020
Next Scheduled EDR Contact: 05/18/2020
Data Release Frequency: Varies

ASBESTOS: Asbestos Notification Listing

The department requires notification of demolitions and abatement projects involving regulated structures at least 10 working days before crews begin a project.

Date of Government Version: 10/07/2019
Date Data Arrived at EDR: 10/08/2019
Date Made Active in Reports: 12/05/2019
Number of Days to Update: 58

Source: Department of Natural Resources
Telephone: 573-751-4817
Last EDR Contact: 01/08/2020
Next Scheduled EDR Contact: 04/20/2020
Data Release Frequency: Varies

COAL ASH: Coal Ash Disposal Sites

A listing of power plants with coal ash ponds.

Date of Government Version: 01/03/2018
Date Data Arrived at EDR: 02/01/2018
Date Made Active in Reports: 03/22/2018
Number of Days to Update: 49

Source: Department of Natural Resources
Telephone: 573-526-1825
Last EDR Contact: 12/20/2019
Next Scheduled EDR Contact: 04/13/2020
Data Release Frequency: No Update Planned

DRYCLEANERS: Drycleaners in Missouri Listing

A listing of drycleaner facilities that are potentially eligible for reimbursement of department approved cleanup costs under the Drycleaning Environmental Response Trust Fund.

Date of Government Version: 11/30/2017
Date Data Arrived at EDR: 12/13/2017
Date Made Active in Reports: 01/18/2018
Number of Days to Update: 36

Source: Department of Natural Resources
Telephone: 573-526-8913
Last EDR Contact: 12/05/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Quarterly

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information.

Date of Government Version: 09/03/2019
Date Data Arrived at EDR: 09/10/2019
Date Made Active in Reports: 11/08/2019
Number of Days to Update: 59

Source: Department of Natural Resources
Telephone: 573-751-3553
Last EDR Contact: 12/12/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Annually

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: 11/21/2019
Date Data Arrived at EDR: 12/05/2019
Date Made Active in Reports: 02/06/2020
Number of Days to Update: 63

Source: Department of Natural Resources
Telephone: 573-751-5401
Last EDR Contact: 12/05/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Quarterly

MINES: Industrial Mineral Mines Database

This data set contains names, locations and additional data for active Industrial Mineral Mines permitted with the Missouri Department of Natural Resources, Division of Environmental Quality, Land Reclamation Program. Industrial Mineral Mines permitted are rock quarries, clay pits, sand and gravel pits, or in-stream sand and gravel operations.

Date of Government Version: 01/18/2019
Date Data Arrived at EDR: 04/17/2019
Date Made Active in Reports: 05/15/2019
Number of Days to Update: 28

Source: Department of Natural Resources
Telephone: 573-751-4041
Last EDR Contact: 01/17/2020
Next Scheduled EDR Contact: 04/27/2020
Data Release Frequency: Varies

NPDES: Permitted Facility Listing

A listing of permitted facilities from the Water Pollution Branch.

Date of Government Version: 09/26/2019
Date Data Arrived at EDR: 09/27/2019
Date Made Active in Reports: 11/08/2019
Number of Days to Update: 42

Source: Department of Natural Resources
Telephone: 573-751-7023
Last EDR Contact: 12/20/2019
Next Scheduled EDR Contact: 04/13/2020
Data Release Frequency: Quarterly

RRC: Certified Hazardous Waste Resource Recovery Facilities

Facilities that take hazardous waste material, either from on-site or off-site, and make it re-usable.

Date of Government Version: 07/16/2019
Date Data Arrived at EDR: 10/22/2019
Date Made Active in Reports: 12/12/2019
Number of Days to Update: 51

Source: Department of Natural Resources
Telephone: 573-751-3176
Last EDR Contact: 12/05/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Annually

SMARS: Site Management and Reporting System

SMARS currently houses information for Superfund, Federal Facility, Brownfields Voluntary Cleanup Program and Missouri's other state response programs.

Date of Government Version: 10/03/2019
Date Data Arrived at EDR: 10/29/2019
Date Made Active in Reports: 12/16/2019
Number of Days to Update: 48

Source: Department of Natural Resources
Telephone: 573-751-3043
Last EDR Contact: 01/28/2020
Next Scheduled EDR Contact: 05/11/2020
Data Release Frequency: Quarterly

UIC: Underground Injection Wells Database

A listing of underground injection well locations. The UIC Program is responsible for regulating the construction, operation, permitting, and closure of injection wells that place fluids underground for storage or disposal.

Date of Government Version: 06/30/2019
Date Data Arrived at EDR: 11/19/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 70

Source: Department of Natural Resources
Telephone: 573-368-2183
Last EDR Contact: 11/19/2019
Next Scheduled EDR Contact: 03/02/2020
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: 11/22/2019
Next Scheduled EDR Contact: 03/09/2020
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.

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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 Natural Resources in Missouri.

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 Natural Resources
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 Natural Resources in Missouri.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/15/2014
Number of Days to Update: 198

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

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 Department of Natural Resources in Missouri.

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

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

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: 05/14/2019
Date Data Arrived at EDR: 12/05/2019
Date Made Active in Reports: 02/03/2020
Number of Days to Update: 60

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 01/30/2020
Next Scheduled EDR Contact: 05/25/2020
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
Date Data Arrived at EDR: 05/01/2019
Date Made Active in Reports: 06/21/2019
Number of Days to Update: 51

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 01/31/2020
Next Scheduled EDR Contact: 05/11/2020
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 01/14/2020
Next Scheduled EDR Contact: 04/07/2020
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 10/02/2019
Date Made Active in Reports: 12/10/2019
Number of Days to Update: 69

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 11/14/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 12/18/2019
Next Scheduled EDR Contact: 03/23/2020
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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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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: Licensed Child Care Facilities
Source: Department of Health & Senior Services
Telephone: 573-751-2450

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.

State Wetlands Data: National Wetland Inventory of Missouri
Source: Department of Natural Resources
Telephone: 573-751-5110

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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APPENDIX E

Reconnaissance Photographs



Photo No. 1	Photo Dir. S

Description: View looking south from the west-central portion of the Property.



Photo No. 2	Photo Dir. E

Description: View looking east from the west-central portion of the Property.



Photo No. 3	Photo Dir. N

Description: View looking north from the west-central portion of the Property.



Photo No. 4	Photo Dir. NE

Description: View looking northeast from the west-central portion of the Property.



Photo No. 5	Photo Dir. S

Description: View looking south from the northwest corner of the Property.



Photo No. 6	Photo Dir. E

Description: View looking east from the northwest corner of the Property.



Photo No. 7	Photo Dir. E

Description: View looking east from the southwest corner of the Property.



Photo No. 8	Photo Dir. N

Description: View looking north from the southwest corner of the Property.



Photo No.	9	Photo Dir.	SE

Description: View of the southwest corner of the Property.



Photo No.	10	Photo Dir.	NW

Description: View looking northwest from the southeast corner of the Property.



Photo No. 11	Photo Dir. E

Description: View looking east from the south-central portion of the Property.



Photo No. 12	Photo Dir. N

Description: View looking north from the south-central portion of the Property.



Photo No. 13	Photo Dir.

Description: View of pipeline located on the west side of the Property.



Photo No. 14	Photo Dir.

Description: View of gas pipe line location on the west side of the Property.

APPENDIX F

Environmental Professional Qualifications



RACHAEL REIS

Environmental Scientist

EXPERIENCE SUMMARY

As a passion driven environmentalist, Rachael shares her perspective and insight on projects that impact communities. Her ability to analyze sites, provide recommendations, and solutions that cause a positive lasting impact within a community—makes her daily tasks, lifelong gratifying rewards.

Rachael provides clients with the tools necessary to complete projects within their communities—helping them grow or redevelop and influence residents' lives in environmentally conscious ways. Using her project knowhow, experience, and insight, she conducts phase I and II environmental site assessments (ESAs), site remediation, National Environmental Policy Act (NEPA) studies, wetland delineations, and endangered species habitat restoration and permitting services.

Many of the projects Rachael is involved in she serves as the Project Manager and Scientist, and her knowledge and communication capabilities span from working alongside public and private clients. She is relied upon by clients and Olsson for her advice because everyone understands that she is eager to make all parties involved succeed—a trait that is highly encouraging when approaching a project.

EDUCATION

- BA, Environmental Studies, University of Missouri at Kansas City

CERTIFICATIONS/TRAINING

- Certified Wetland Delineator
- HAZWOPER Certification
- National Highway Institute (NHI) Introduction to NEPA and Transportation Decision Making Training
- National Highway Institute (NHI) Integrating Freight in the Transportation Planning Process
- Union Pacific Rail Road Safety
- BNSF Rail Road Safety

OLSSON EXPERIENCE

- 2012 to Present

OVERALL EXPERIENCE

- 2012 to Present

olsson

RACHAEL REIS

Environmental Scientist

COMMERCIAL

- City of Kansas City, ESAs for Midwest Motors Brownfields Site; Kansas City, MO
- Hunt Midwest, Hunt Midwest Hook Farms South Development Plan Phase I and II ESA; Lee's Summit, MO
- TranSpec Leasing Inc, TranSpec Underground Storage Tank Removal, Phase I and II ESA; Kansas City, MO
- Trammel Crow Company, Trammell Crow KCI Logistics Centre V, Phase I and II ESA; Kansas City, MO
- McDonalds USA LLC, McDonalds Phase I AND II ESAs; Various Locations, KS and MO
- Price Brothers, ESA for Bluhawk; Overland Park, KS
- Blue Beacon International, Phase I ESA and Due Diligence Assessments for Blue Beacon Green Lantern Convenience Store & Truck Wash; Various Locations, MO
- Brinshore Development LLC, Phase I ESA for Brinshore Neff Printing; Kansas City, MO
- Gateway Developers LLC, Phase I ESA for Mission Gateway Mall; Mission, KS
- Green Lantern Car Wash, LLC, Phase I ESA for Green Lantern Locations; Various Locations, MO and KS
- Hammerford Development Company, Phase I ESA for Corbin Park Pad Sites 3 & 3A; Overland Park, KS
- Merrill Companies, LLC, Prairiefire Development; Overland Park, Kansas
- NorthPoint Development, Phase I Assessment for 1321 Fairfax Trafficway; Kansas City, KS
- Polsinelli, Environmental Site Investigation for Woodside Limited; Westwood, KS
- Schlitterbahn Waterparks and Resorts, Phase I ESA for SVVI Schlitterbahn Vacation Village; Kansas City, KS
- KC Hotel Loews, KC Convention Center Hotel, Site Remediation; Kansas City, MO

EDUCATION

- Drumm Farm Center for Children, Environmental Services for Campus Expansion; Independence, MO
- University of Kansas Hospital Authority, Phase I ESA for Campus Expansion; Kansas City, KS
- Barstow School, Former Hy-Vee Soil Vapor Sampling Investigation; Leawood, KS

HEALTHCARE

- Mercy Health Systems, Mercy 2300 S Jackson ESA; Joplin, MO
- HWA, Environmental Site Assessment for St. Luke's Ambulatory Clinic; Blue Springs, MO
- JE Dunn, Environmental Site Assessment for Stigler Rural Community Hospital; Stigler, OK
- Mercy Health Systems, NEPA Compliance & Permitting for New Clinics; Lebanon & Carthage, MO

INDUSTRIAL

- ARCO National Construction, ARCO Grundfos Industrial Building ESA; Lenexa, KS
- NorthPoint, Environmental Site Assessment for Northland Industrial Park; North Kansas City, MO

RACHAEL REIS

Environmental Scientist

LOCAL

- City of Coffeyville, Environmental Investigations for Brownfields Assessment; Coffeyville, KS
- City of Kansas City, On-Call Environmental Services; Kansas City, MO
- City of Blue Springs MO, Blue Springs MO, Phase I ESA; Blue Springs, MO

RENEWABLE ENERGY

- Black Hills Energy, Phase I ESA; Siloam Springs, AR

RESIDENTIAL

- Summit Custom Homes, Clayton Properties West Village Phase I and II ESA; Lee's Summit, MO
- Price Brothers Construction, Price Bros Bluhawk Apartments Phase I and II ESA; Overland Park, KS
- AG Spanos Construction Inc., Environmental Assessment for Shoal Creek II Village, 5th Plat; Liberty, MO
- Briarcliff, Environmental Site Assessment for Riverfront Apartments; Kansas City, MO
- Housing Authority of Kansas City MO, KC Housing Authority Transaction Screenings; Statewide, MO

STATE

- Kansas Department of Health & Environment, Phase I and II ESA; Chanute, KS
- Kansas Department of Health & Environment Phase I and II ESA; Fort Scott, KS

SPORTS & RECREATION

- Kibo Holdings, Kibo Holdings Ozark Campground Rezoning, Phase I and II ESA; Branson, MO

WASTEWATER

- Jackson County, On-Call Geotechnical and Testing, Medical Examiner Office Wastewater Sampling; Kansas City, MO

PHASE I ENVIRONMENTAL SITE ASSESSMENT

Prepared for:

Platform Ventures

4220 Shawnee Mission Parkway, Suite 200B

Fairway, Kansas 66205

March 2020

Olsson Project No. 020-0456

olsson®

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
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
NGVD..... National Geodetic Vertical Datum
NonGens..... No longer generates hazardous waste
NOV ..... Notice of violation
NPL ..... National priorities list
NRCS..... U.S. Natural Resource Conservation Service
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
TSCA ..... Toxic Substances Control Act
USGS..... U.S. Geological Survey
UST..... Underground storage tank
VCP..... Voluntary cleanup program
VSQG……Very small quantity generator

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SUMMARY

Olsson, Inc. (Olsson) was retained by Platform Ventures to perform a Phase I Environmental Site Assessment (ESA) for the Botts Road (Giblin) Site located at Botts Road and 150 Highway in Kansas City, Jackson County, Missouri (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). A summary of the ESA findings based on a review of historical records, regulatory databases, site reconnaissance, and interviews is as follows:

- There were no recognized environmental conditions (RECs) 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 consists of mostly agricultural land with some forested areas and the vicinity is generally characterized as agricultural and light industrial. 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		
Property Legal Description	Section 26, Township 47 North, Range 33 West	
Potable Water Provider	City of Kansas City	
Sanitary Sewer Provider	City of Kansas City	
Land Area	Approximately 151 acres	
PHYSICAL SETTING INFORMATION FOR SITE AND SURROUNDING AREA		**SOURCE**
Topography *(Refer to Appendix A for an excerpt of the USGS Topographic Map)*		
Property Elevation	954 feet above sea level	USGS 7.5-Minute Topographic Map, Belton, MO-KS 1953
Groundwater Flow Direction *	East	
Surface Runoff/ Topographic Gradient	East-Northeast	

* 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 Platform Ventures (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 not considered recognized environmental conditions.

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 CRECs.

A controlled recognized environmental condition (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 February 10, 2020. 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 February 18, 2020 the date when the database report was generated. Platform Ventures may rely on the findings and conclusions of this report. 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 Mr. Corey Walker, 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 not provided by the User; however, the User stated that a review of these records did not identify any environmental liens or AULs encumbering the Property or in connection with the Property. Mr. Walker stated that there is an active oil and gas lease associated 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.

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 topographic maps: 1887, 1893, 1934, 1953, 1957, 1970, 1975, 1995, and 2015;
- Historical aerial photographs: 1936, 1940, 1952, 1957, 1969, 1976, 1979, 1981, 1985, 1990, 1997, 2006, 2009, 2012, and 2016; and,

The Property has been used as agricultural land since at least 1936; however, only a portion of the Property is depicted on the 1936 aerial photograph. The 2012 aerial photograph shows an area on the south-central boundary that appears to be used as an equipment staging area, although it is difficult to depict. By 2012, this area is clear and only a small driveway is present. The 2016 aerial photograph shows small features on the southeast corner of the Property. The site reconnaissance identified this area as having four aboveground storage tanks associated with two oil wells located on the Property.

East

The adjacent property to the east was vacant from at least 1887 through 1934. By 1934, the San Francisco Railroad was present adjoining the Property boundary. By 1975, the topographic map depicts several structures east of the railroad. The 1976 aerial photograph depicts these structures as multifamily housing. Small commercial structures are present north of the apartment complex. In 1981, the aerial imagery shows that product distribution centers were developed in this area. Today, the property is still occupied by distribution centers and an apartment complex.

South

The adjacent property was vacant from at least 1887 through 1934, when a road is shown on the topographic map adjoining the Property to the south. By 1953, the area south of the Property was developed as the Grandview Air Force Base. By 1970, this area became the Richards-Gebaur Air Force Base through at least 1995, according to the topographic map. The 1985 aerial photograph shows an unidentified building located south of the Property that remained until 2006. In 2016, the area adjoining the Property to the south appears to be quarry or concrete operation, which remains through today.

West

According to the aerial imagery, the adjacent property to the west has been vacant since at least 1887 and used as agricultural land from 1936-present.

North

The adjacent area to the north was vacant until at least 1940, when a homestead is present adjoining the Property. By 1957, more residential homes were present north of the Property. when the development of private dwellings had begun on the eastern section of the property. The western section of this area remained vacant until 2006, when aerial imagery showed the emergence of unidentified distribution centers. This area has remained similar through today.

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
Federal Databases		
NPL	1.0	0
Delisted NPL	0.5	0
CERCLIS/SEMS	0.5	1
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		1
RCRA-VSQG		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	1
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 (LQGs) 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 (CESQGs) facilities generate less than 100 kg of hazardous waste or 1 kg of acutely hazardous waste per month. 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 Missouri Department of Natural Resources (MDNR). 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
MDNR maintains a listing of leaking underground storage tank (LUST) and leaking aboveground storage tank (LAST) facilities.

4.1.10 State/Tribal Storage Tanks
MDNR 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 MDNR maintains a listing of facilities assigned with State institutional controls.

4.1.12 State/Tribal Voluntary Cleanup Sites
MDNR 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
MDNR 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 two database listings within the prescribed ASTM E1527-13 search radii. The following sections discuss database listings pertaining to the Property and in the immediate vicinity.

4.2.1 Property Database Listings
The Property was not referenced in the environmental database report.

4.2.2 Vicinity Database Listings

The following sections summarize the upgradient off-site database report listings in order of closest proximity within approximately 1/3 mile of the Property. The remaining database listings were not considered RECs for the Property based on their distance, regulatory status, and/or location relative to the Property.

Grandview Radio BEA AX 2

This facility is not associated with an address but was part of the former Richards-Gebaur Air Force Base operation that was located south of the Property and was identified in the Formerly Used Defense Sites (FUDS) database, a supplemental database. This radio tower was located (according to historical aerial imagery) approximately 550 feet south and cross-gradient of the southeast corner of the Property. The database does not provide any details regarding this radio tower other than its FUDS ID number. The tower is no longer present and does not appear to represent a REC for the Property.

The remaining database listings do not represent RECs for the Property based on location, distance, and/or regulatory status and are not discussed in this section.

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 one 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 vapor encroachment screening 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 Missouri Department of Natural Resources

The MDNR regulatory database was accessed on February 24, 2020 to research environmental permits, citations, or violations for the Property. Review of the MDNR records did not identify listings of record for the Property or adjoining properties.

5. PROPERTY AND ADJOINING PROPERTY RECONNAISSANCE

The following sections describe the Property and adjoining property features noted during Olsson's site reconnaissance on February 21, 2020.

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 and throughout the Property. 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 be used for agriculture. The Property is accessed via vehicle off Missouri Highway 150.

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
Site Operations, Processes, and Equipment	Emergency generators	
	Elevators	
	Air compressors	
	Hydraulic lifts	
	Dry cleaning	
	Photo processing	
	Other processes or equipment	
	Aboveground storage tanks (AST)	X

Category	Item or Feature	Observed
Aboveground Petroleum or Chemical Storage	Drums, barrels and/or containers ≥ 5 gallons	
Underground Petroleum or Chemical Storage, or Waste and Drainage Collection Systems	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	
Equipment Containing Potential Polychlorinated Biphenyls (PCBs)	Pad or pole-mounted electrical transformers and/or capacitors	
	Other equipment	
Potential Release Sources and/or Indicators	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	X
	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)	
Other Notable Property Features	Pits, ponds, or lagoons	
	Pipeline markers	X
	Wells – irrigation, dry, monitoring, or abandoned	X
	Other features	

5.4.1 Aboveground Petroleum or Chemical Storage

Aboveground Storage Tanks (AST)

Four aboveground storage tanks were observed on the southeastern property line. These aboveground storage tanks were associated with the oil wells located on the Property. The Property reconnaissance did not observe any leaks or staining on or below the equipment. The equipment appeared to be newly installed. Based on observations, these ASTs do not represent a REC for the Property.

5.4.2 Potential Release Sources and/or Indicators

Dumped Trash, Construction or Demolition Debris, Fill Dirt, Artificial Fill, or Disposal Areas

One trash dump site was noted in the southeastern quadrant of the Property. The trash included an old microwave, several empty aluminum cans, an empty kerosene can and empty metal container. There were no unusual odors or staining in the vicinity of the dumped trash site at the time of the Property reconnaissance. There are no significant environmental hazards associated with the trash dump site.

5.4.3 Other Notable Property Features

Pipeline Markers

At the time of the site visit, one pipeline marker was observed near the center of the Property. The pipeline marker was associated with the petroleum operation on the Property.

Wells – Irrigation, Monitoring, Dry, or Abandoned

Two oil wells were noted at the time of the site visit. One well was in the southeastern quadrant of the Property and the second well was located near the center of the Property. The Property reconnaissance did not observe any staining on or below the equipment. Based on observations, petroleum equipment does represent a REC for the Property.

5.5 Adjoining Property Reconnaissance

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

Direction	Description
North	Paper and Dust Pros (14209 Norby Rd.), Silka Corporation (14201 Botts Rd.), and a residential area located on Denver Ave. are all north of the Property.
East	Railroad tracks adjoin the eastern property boundary. To the east of the railroad tracks is Cloverleaf Apartments (14554 S), followed by Frontier Bag Inc. (5720 E) and Stonehenge Outdoor (5620 E).
South	Missouri Highway 150 adjoins the southern property boundary. To the south of Missouri 150 is Walmart Distribution Center #7183 (14900 Andrews Rd.) and Neovia (14900 Andrews Rd.). To the north of Missouri 150 and south of the Property is Ideker Inc. South, Grandview (14650 Colorado Ave.).
West	Botts Road adjoins the western property boundary. To the west of Botts Road is the National Nuclear Security Administration Kansas City National Security Campus (14520 Botts Rd.).

6. INTERVIEWS

Mr. Corey Walker, User representative, completed the User Questionnaire and is referred to in Section 2.

7. EVALUATION AND CONCLUSIONS

The following paragraphs summarize the findings, opinions, and conclusions of the ESA. Olsson has evaluated the provided information for significant data gaps that, if present, are discussed in their respective report sections.

Property Physical Setting

The Property elevation is approximately 954 feet above sea level. Surface runoff flows east, and groundwater flow is anticipated to be east based on the topographic gradient.

Historical Resource Review

Topographic maps and aerial photographs were reviewed to identify past uses of the Property and adjoining properties and conditions that could represent RECs in association with the Property. There were no conditions identified during the review.

Regulatory Database Review

There were no RECs identified from review of the environmental database report.

Vapor Encroachment Screening

A Tier 1 VES in general accordance with ASTM Standard E 2600-15 “Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transaction” was performed. A VEC does not exist at the Property.

Site Reconnaissance

Four ASTs associated with two oil wells were observed on the Property. There was no staining or leaking present on or near this equipment.

A pipeline marker was observed on the Property.

Dumped trash, including aluminum cans, an old microwave, and an empty metal cannister were observed in a pile on the Property.

These observations do not represent RECs for the Property.

Interviews

Olsson interviewed the User representative. No RECs were identified based on information provided by the User.

Conclusions

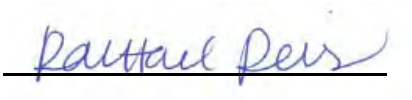
Olsson has performed this ESA in conformance with the scope and limitations of ASTM Practice E1527-13 for the Property. Any exceptions to, or deletions from, this practice are described as

applicable this report. This assessment has revealed no evidence of RECs, HRECs or CRECs in connection with the Property.

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.

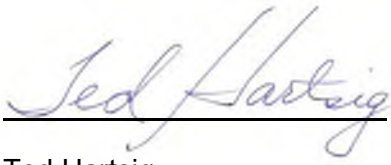
I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional, as defined in Section 312.10 of 40 Code of Federal Regulations (CFR) 312; and I have the specific qualifications based on education, training, and experience to assess a property 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.



March 5, 2020

Rachael Reis — Date

Environmental Professional

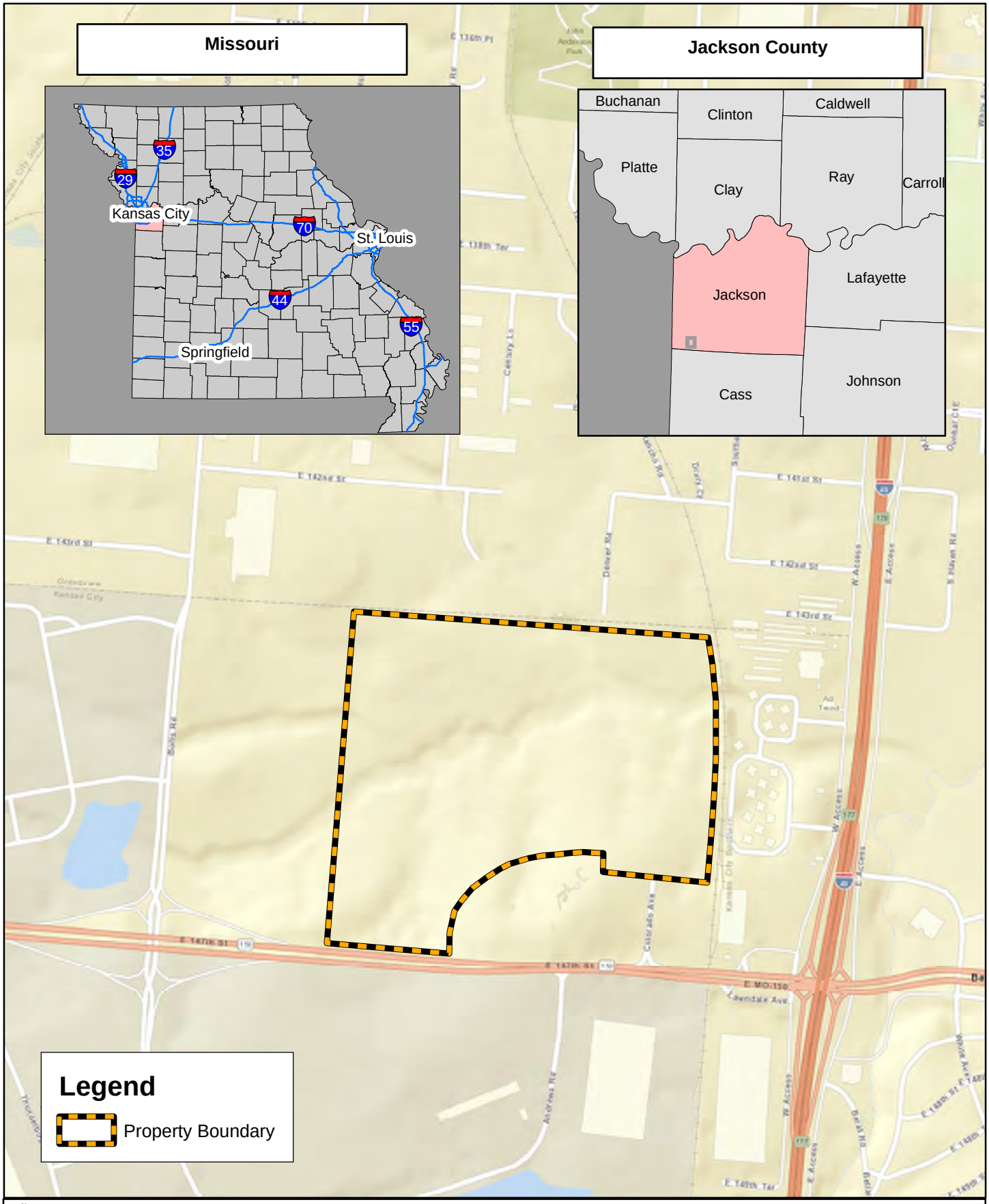


Ted Hartsig

Reviewer

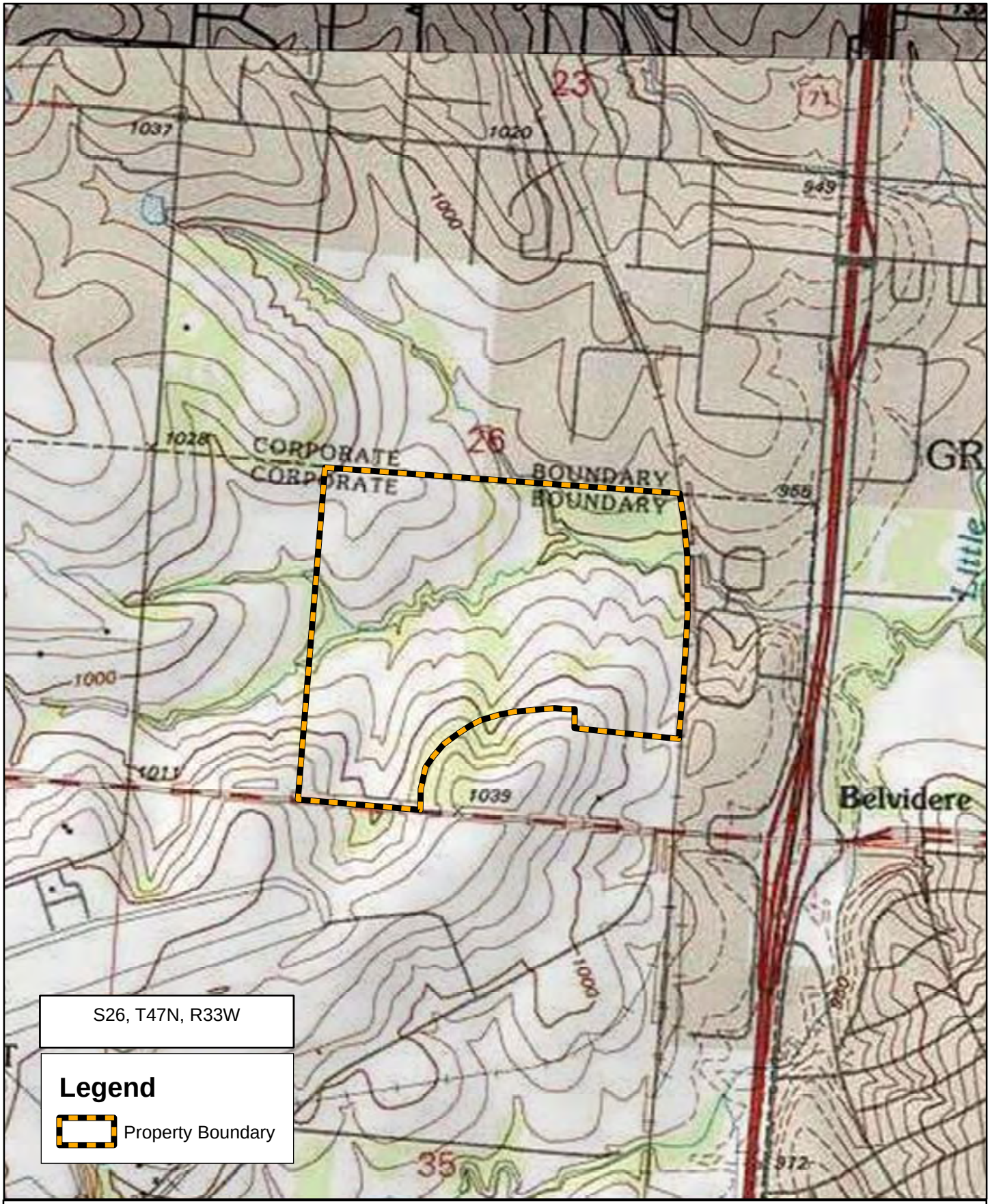
APPENDIX A

Figures



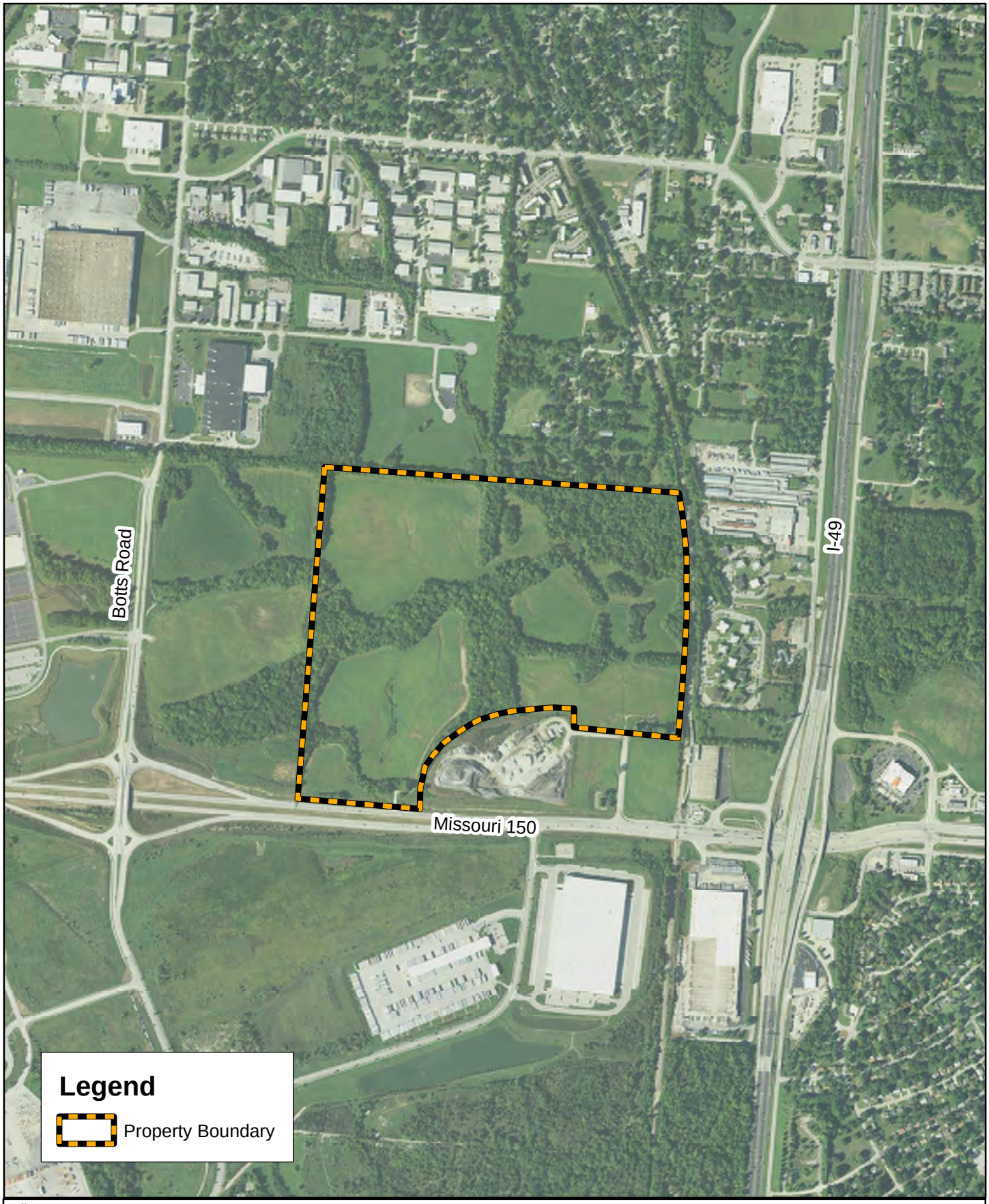
Project Number: 020-0456 *Drawn By: KK* *Revision Date: 2/17/2020*	**Location Map** Giblin Property Kansas City, Missouri	DISCLAIMER : This Geographic Information System (GIS) and its components are designed as a source of reference for answering inquiries, for planning and for modeling. GIS is not intended, nor does it replace legal description information in the chain of title and other information contained in official government records such as the County Clerk and Recorders office or the courts. In addition, the representations of locations in this GIS cannot be substituted for actual legal surveys.	olsson 7301 W. 133rd Street Suite 200 Overland Park, Kansas 66213 P: 913.381.1170 F: 913.381.1174	Figure **1**

F:\2020\0001-0500\020-0456\40-Design\Reports\NRPL\Phase I ESA\GIS\MXD\Ex1_Location_Missouri.mxd



Project Number: 020-0456 *Drawn By: KK* *Revision Date: 2/17/2020*	**Topographic Map** Giblin Property Kansas City, Missouri	DISCLAIMER : This Geographic Information System (GIS) and its components are designed as a source of reference for answering inquiries, for planning and for modeling. GIS is not intended, nor does it replace legal description information in the chain of title and other information contained in official government records such as the County Clerk and Recorders office or the courts. In addition, the representations of locations in this GIS cannot be substituted for actual legal surveys.	olsson 7301 W. 133rd Street Suite 200 Overland Park, Kansas 66213 P: 913.381.1170 F: 913.381.1174	Figure **2**

F:\2020\0001-0500\020-0456\40-Design\Reports\NRPL\Phase I ESA\GIS\MXD\Ex2_Topo_Missouri.mxd



Project Number: 020-0456 *Drawn By: KK* *Revision Date: 2/17/2020*	**Aerial Map** Giblin Property Kansas City, Missouri	DISCLAIMER : This Geographic Information System (GIS) and its components are designed as a source of reference for answering inquiries, for planning and for modeling. GIS is not intended, nor does it replace legal description information in the chain of title and other information contained in official government records such as the County Clerk and Recorders office or the courts. In addition, the representations of locations in this GIS cannot be substituted for actual legal surveys.	olsson 7301 W. 133rd Street Suite 200 Overland Park, Kansas 66213 P: 913.381.1170 F: 913.381.1174	Figure **3**

F:\2020\0001-0500\020-0456\40-Design\Reports\NRPL\Phase I ESA\GIS\MXD\Ex3_Aerial_Missouri.mxd

APPENDIX B

User Questionnaire

olsson

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

Property Name: Goblin / Axtell Property

Property Address: Hwy 150 & Colorado Ave

Introduction

In order to qualify for one of the Landowner Liability Protections (LLPs)187 offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "Brownfields Amendments"),188 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. oil & gas lease

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.

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.

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

To assist in Phase I report

11. Please verify the correct property address, land area, and building square footage, if known A map is helpful). Goblin / Axtell Property
151 +/- acres - see map

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

13. List any special Phase I ESA terms and conditions, and all parties who will be relying on the report.

14. Property contact name and information (telephone, email, etc.).

Corey Walker 816-918-3578

This questionnaire was completed by:

[signature]	2/20/20
Name	Date
SVP	Platform Ventures
Title	Company Name
Buyer	816-285-3872
Relationship to the property	Telephone

APPENDIX C

Historical Information

Botts Road Giblin Property

Botts Road/Missouri 150

Grandview, MO 64030

Inquiry Number: 5974466.4

February 18, 2020

EDR Historical Topo Map Report

with QuadMatch™

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

EDR Historical Topo Map Report

02/18/20

Site Name:

Botts Road Giblin Property
Botts Road/Missouri 150
Grandview, MO 64030
EDR Inquiry # 5974466.4

Client Name:

Olsson
7301 West 133rd Street
Overland Park, KS 66213
Contact: Rachael Reis

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. EDRs 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:

P.O.# 020-0456
Project: Botts Road Giblin Property

Coordinates:

Latitude:	38.863031 38° 51' 47" North
Longitude:	-94.536709 -94° 32' 12" West
UTM Zone:	Zone 15 North
UTM X Meters:	366674.07
UTM Y Meters:	4302699.18
Elevation:	954.00' above sea level

Maps Provided:

2015
1995
1975
1970
1953, 1957
1934
1893
1887

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Topo Sheet Key

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

2015 Source Sheets



Grandview
2015
7.5-minute, 24000



Belton
2015
7.5-minute, 24000

1995 Source Sheets



Belton
1995
7.5-minute, 24000
Aerial Photo Revised 1991



Grandview
1995
7.5-minute, 24000
Aerial Photo Revised 1991

1975 Source Sheets



Belton
1975
7.5-minute, 24000
Aerial Photo Revised 1975



Grandview
1975
7.5-minute, 24000
Aerial Photo Revised 1975

1970 Source Sheets



Belton
1970
7.5-minute, 24000
Aerial Photo Revised 1970



Grandview
1970
7.5-minute, 24000
Aerial Photo Revised 1970

Topo Sheet Key

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

1953, 1957 Source Sheets



Belton
1953
7.5-minute, 24000
Aerial Photo Revised 1948



Grandview
1957
7.5-minute, 24000
Aerial Photo Revised 1955

1934 Source Sheets



Belton
1934
7.5-minute, 24000

Grandview
1934
7.5-minute, 24000

1893 Source Sheets



Olathe
1893
30-minute, 125000

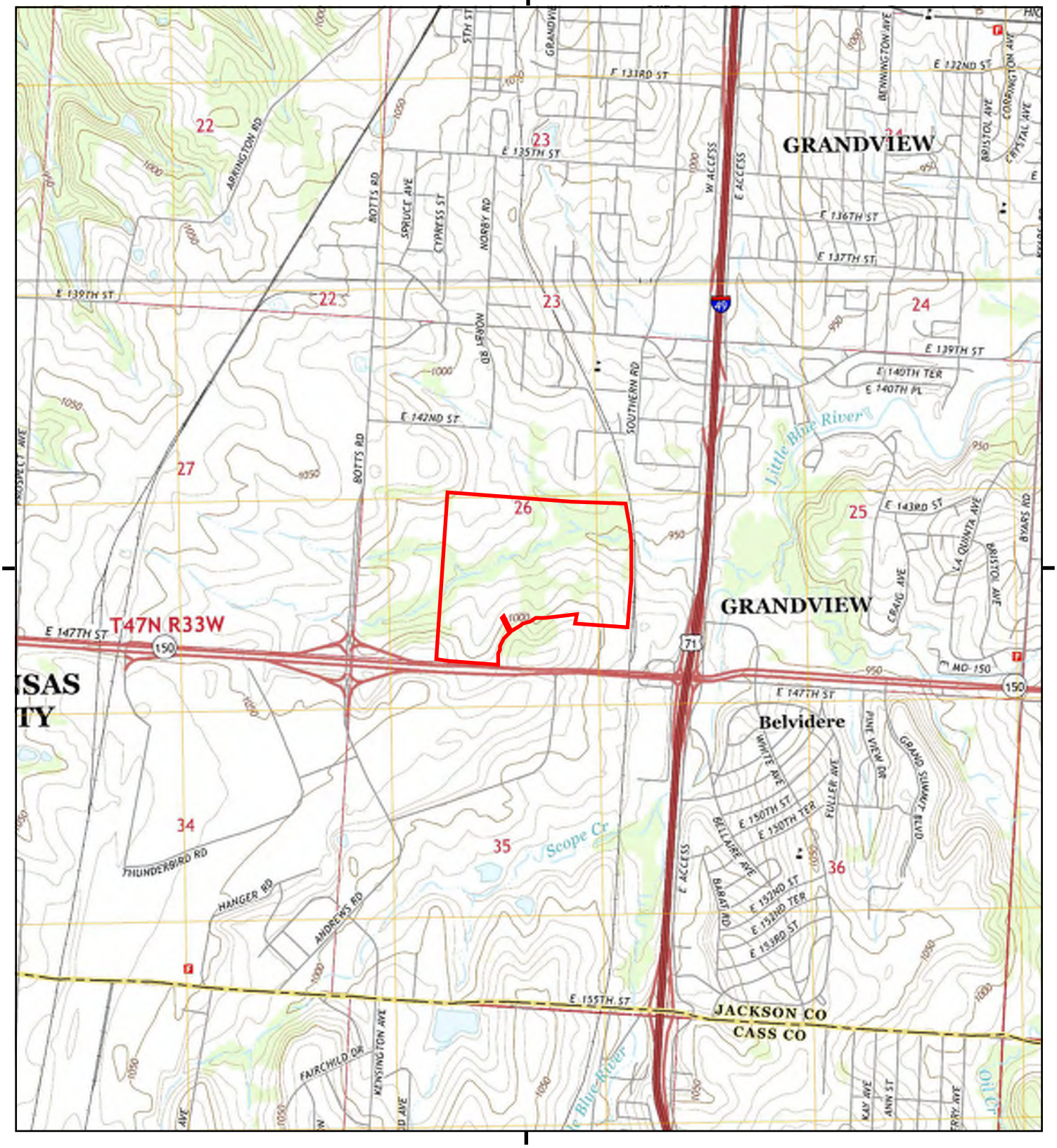
1887 Source Sheets



Olathe
1887
30-minute, 125000

Historical Topo Map

2015



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

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W E
SW S SE

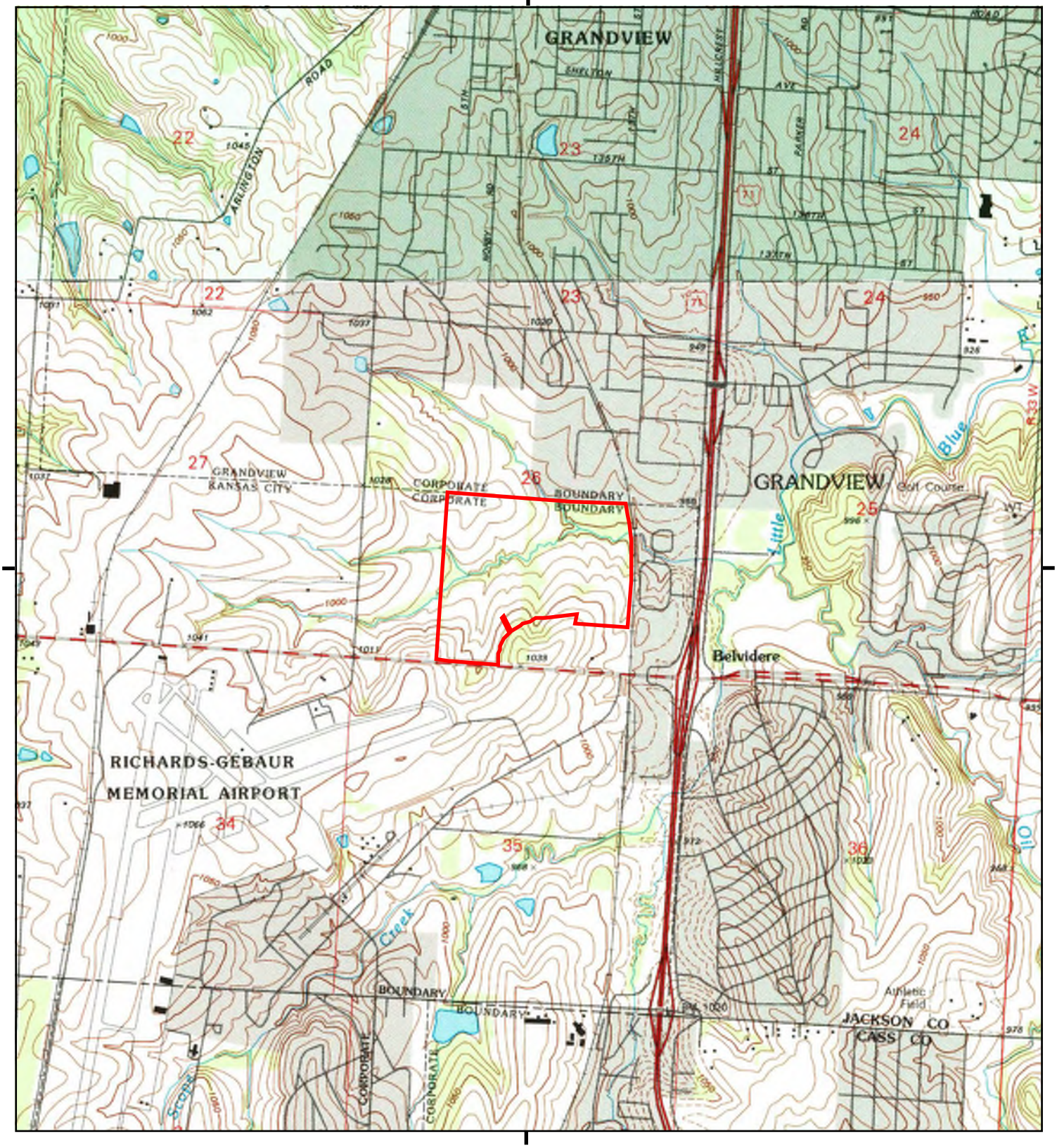
TP, Belton, 2015, 7.5-minute
N, Grandview, 2015, 7.5-minute

SITE NAME: Botts Road Giblin Property
ADDRESS: Botts Road/Missouri 150
Grandview, MO 64030
CLIENT: Olsson

N

Historical Topo Map

1995



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SW S SE

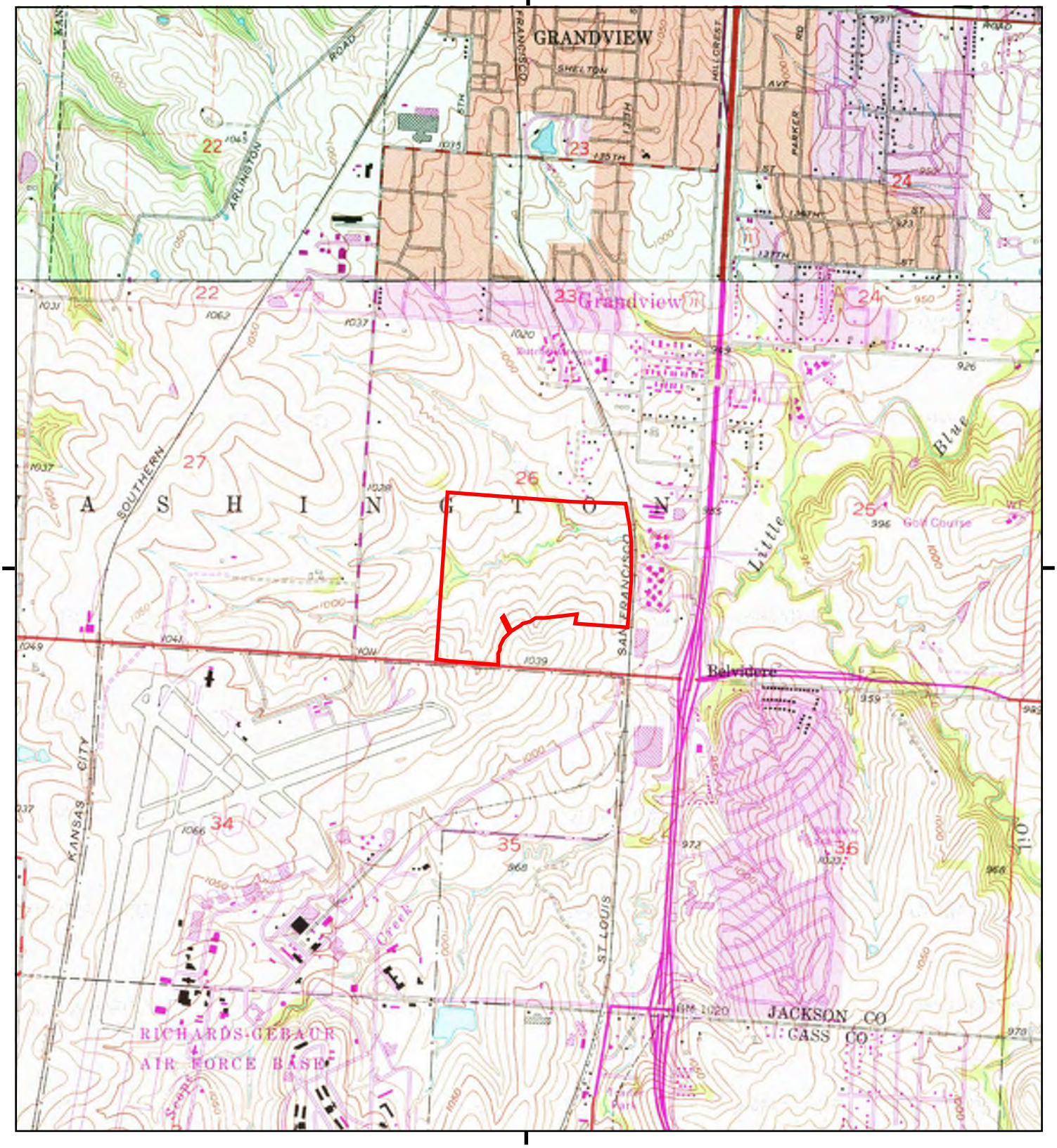
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N, Grandview, 1995, 7.5-minute

SITE NAME: Botts Road Giblin Property
ADDRESS: Botts Road/Missouri 150
Grandview, MO 64030
CLIENT: Olsson

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Historical Topo Map

1975



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SW S SE

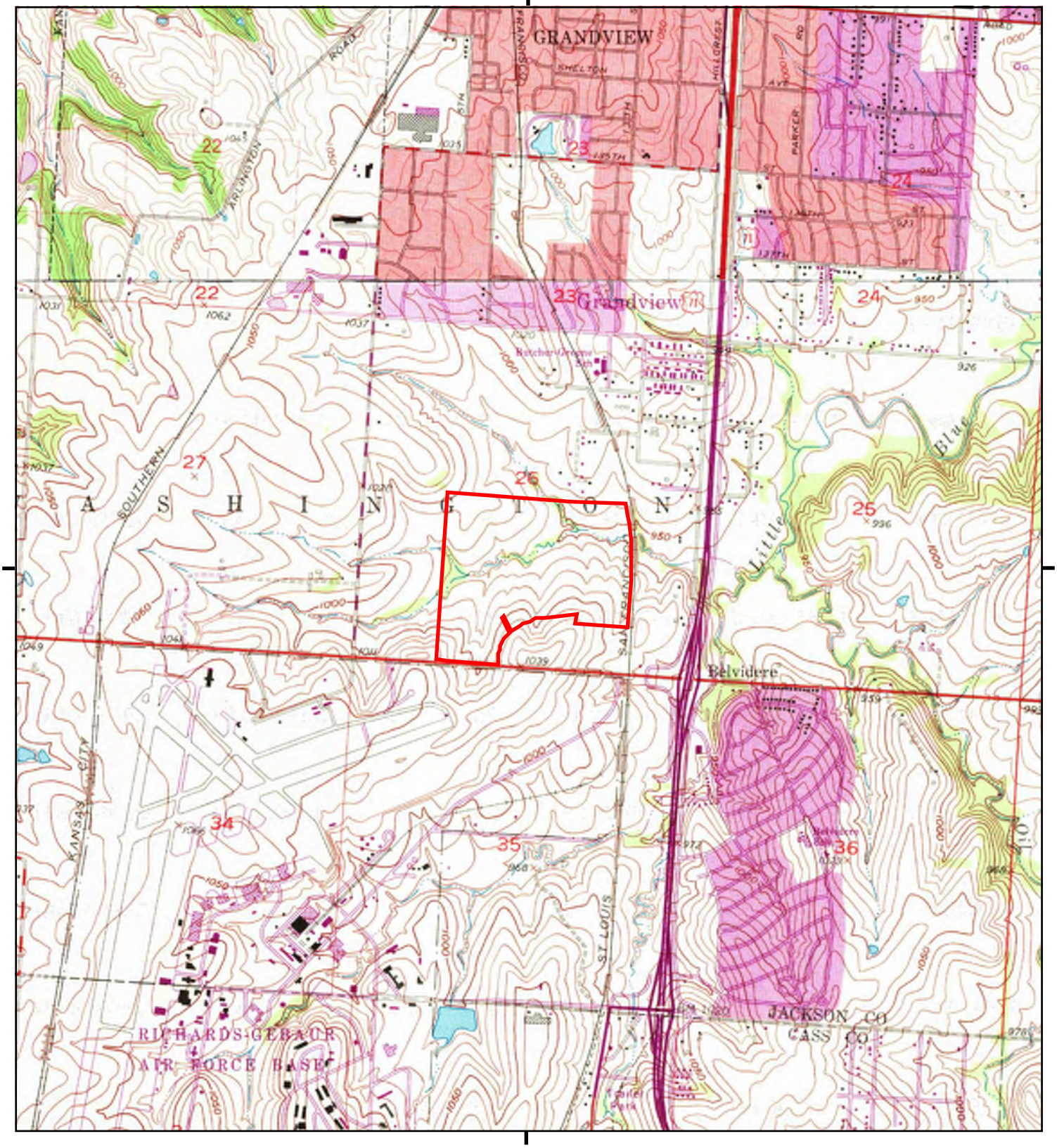
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N, Grandview, 1975, 7.5-minute

SITE NAME: Botts Road Giblin Property
ADDRESS: Botts Road/Missouri 150
Grandview, MO 64030
CLIENT: Olsson

N

Historical Topo Map

1970



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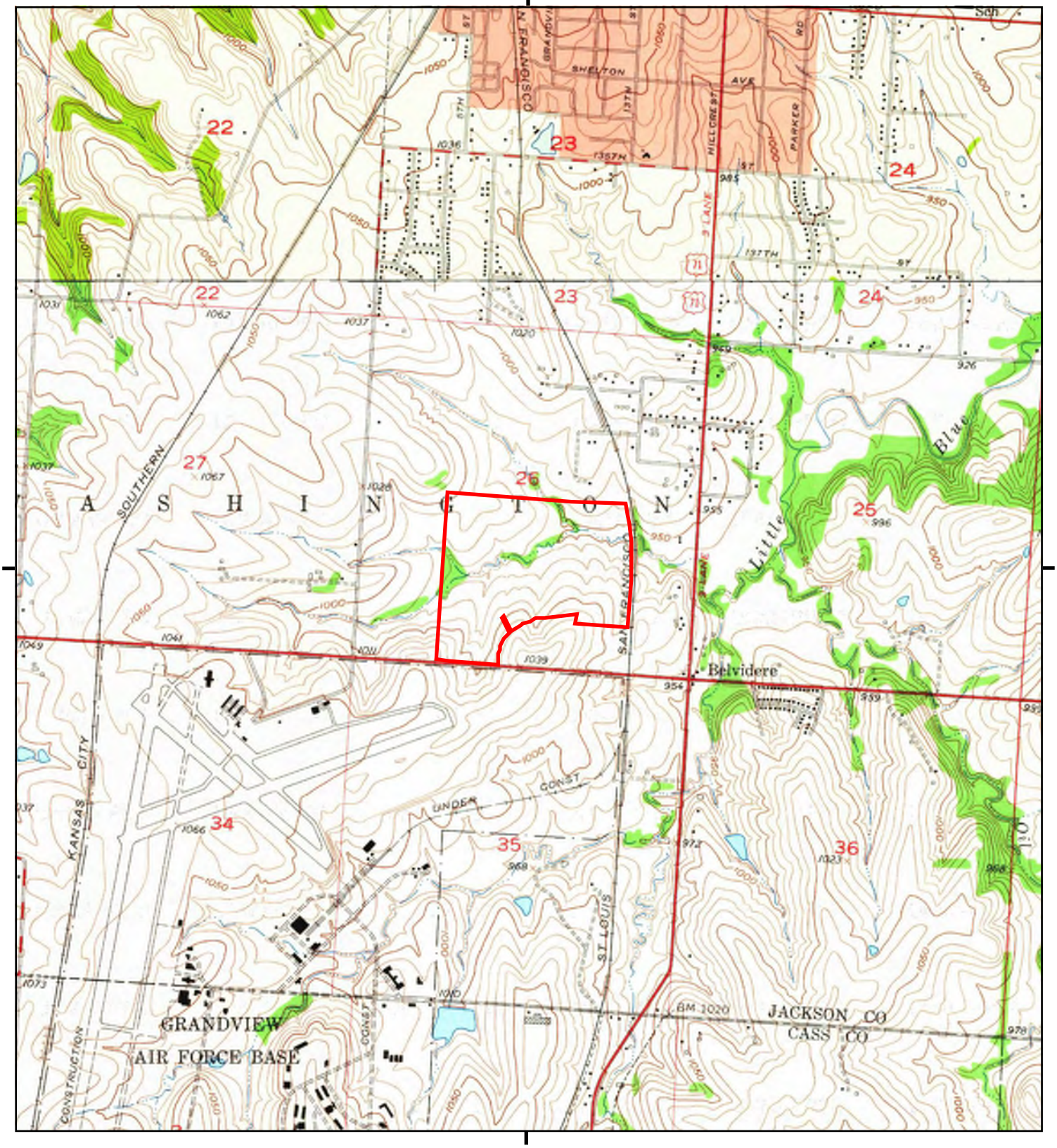
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N, Grandview, 1970, 7.5-minute

SITE NAME: Botts Road Giblin Property
ADDRESS: Botts Road/Missouri 150
Grandview, MO 64030
CLIENT: Olsson

N

Historical Topo Map

1953, 1957



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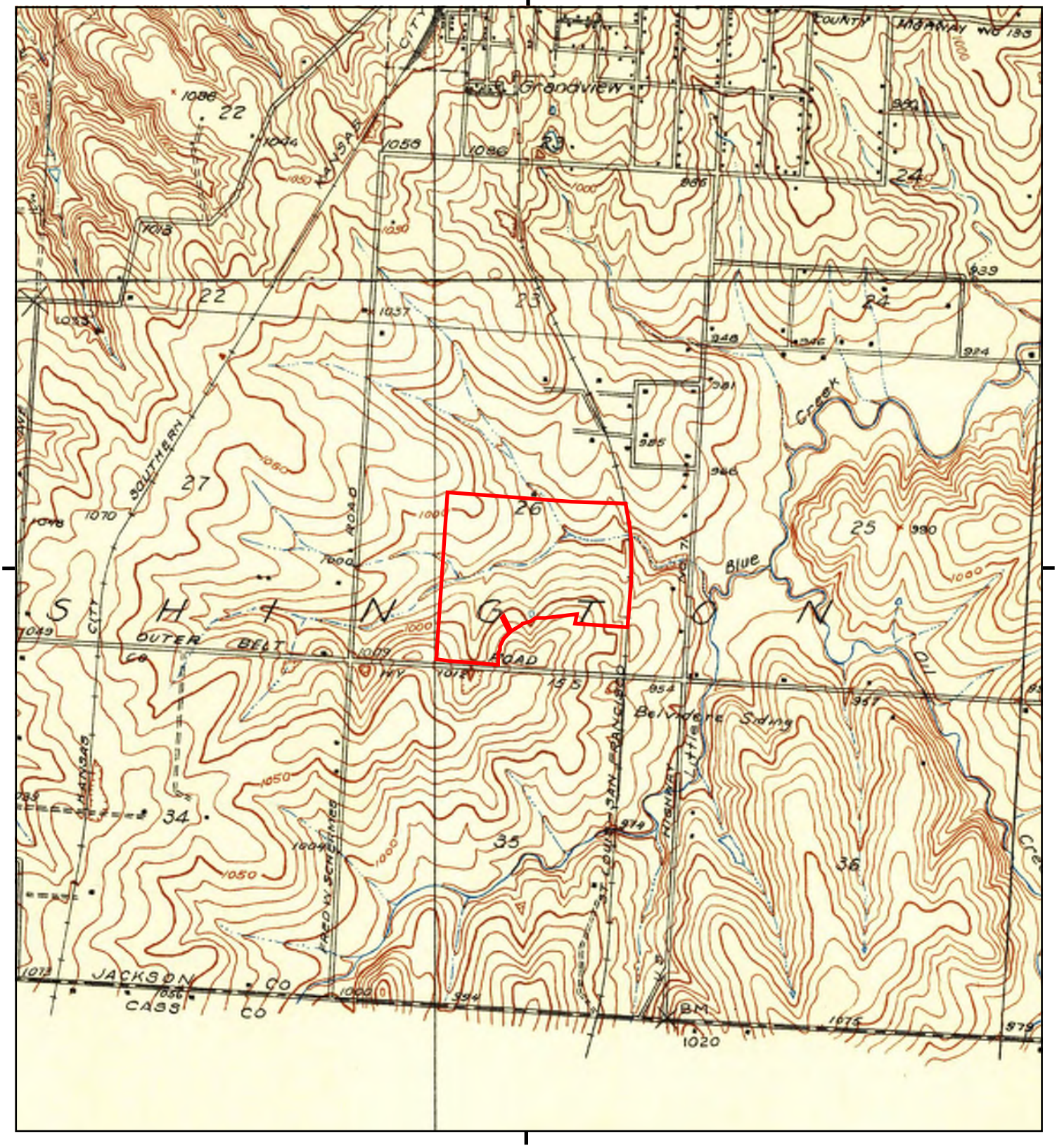
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W E
SW S SE

TP, Belton, 1953, 7.5-minute
N, Grandview, 1957, 7.5-minute

SITE NAME: Botts Road Giblin Property
ADDRESS: Botts Road/Missouri 150
Grandview, MO 64030
CLIENT: Olsson

N



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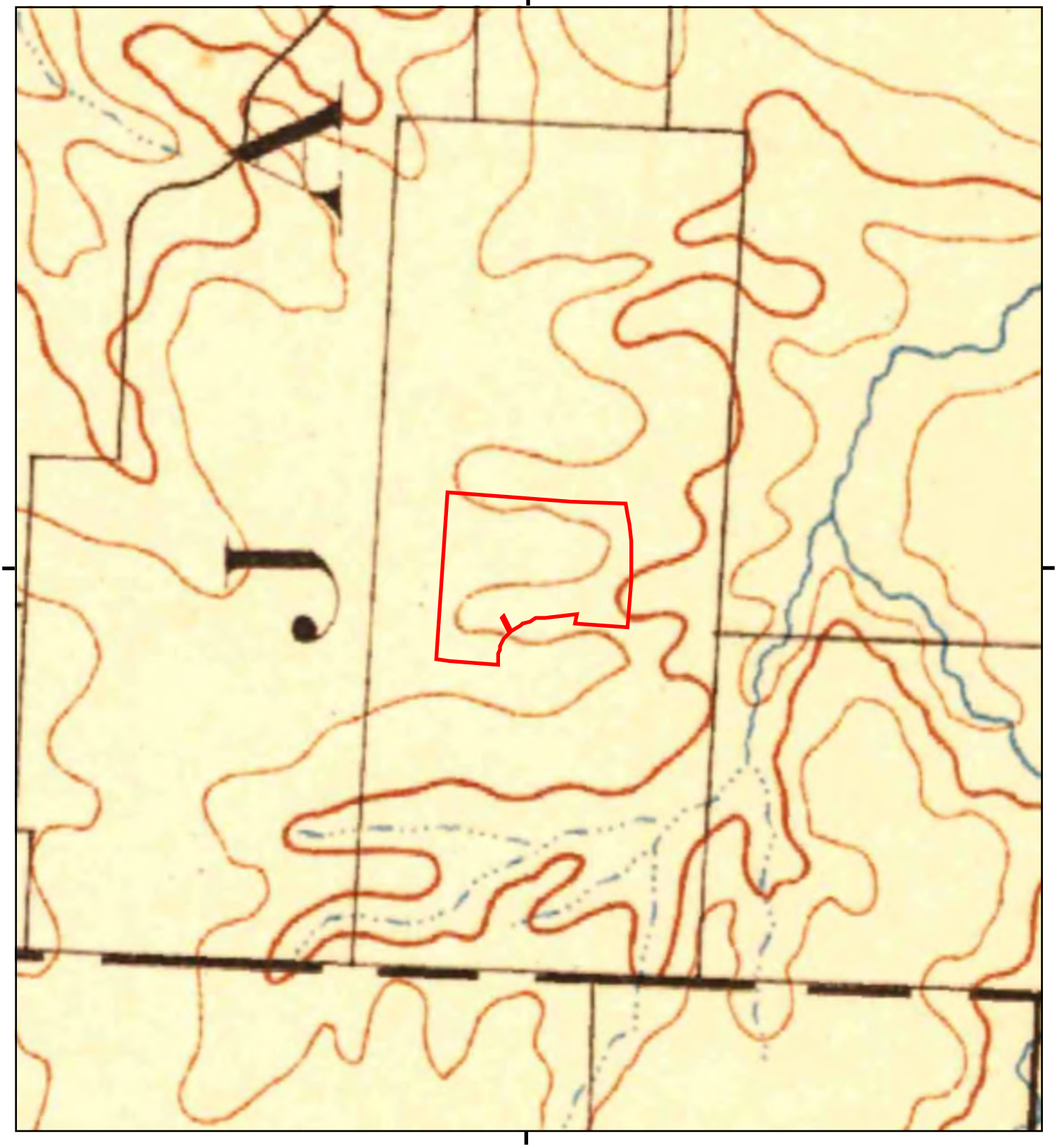
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W E
SW S SE

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N, Grandview, 1934, 7.5-minute

SITE NAME: Botts Road Giblin Property
ADDRESS: Botts Road/Missouri 150
Grandview, MO 64030
CLIENT: Olsson

N



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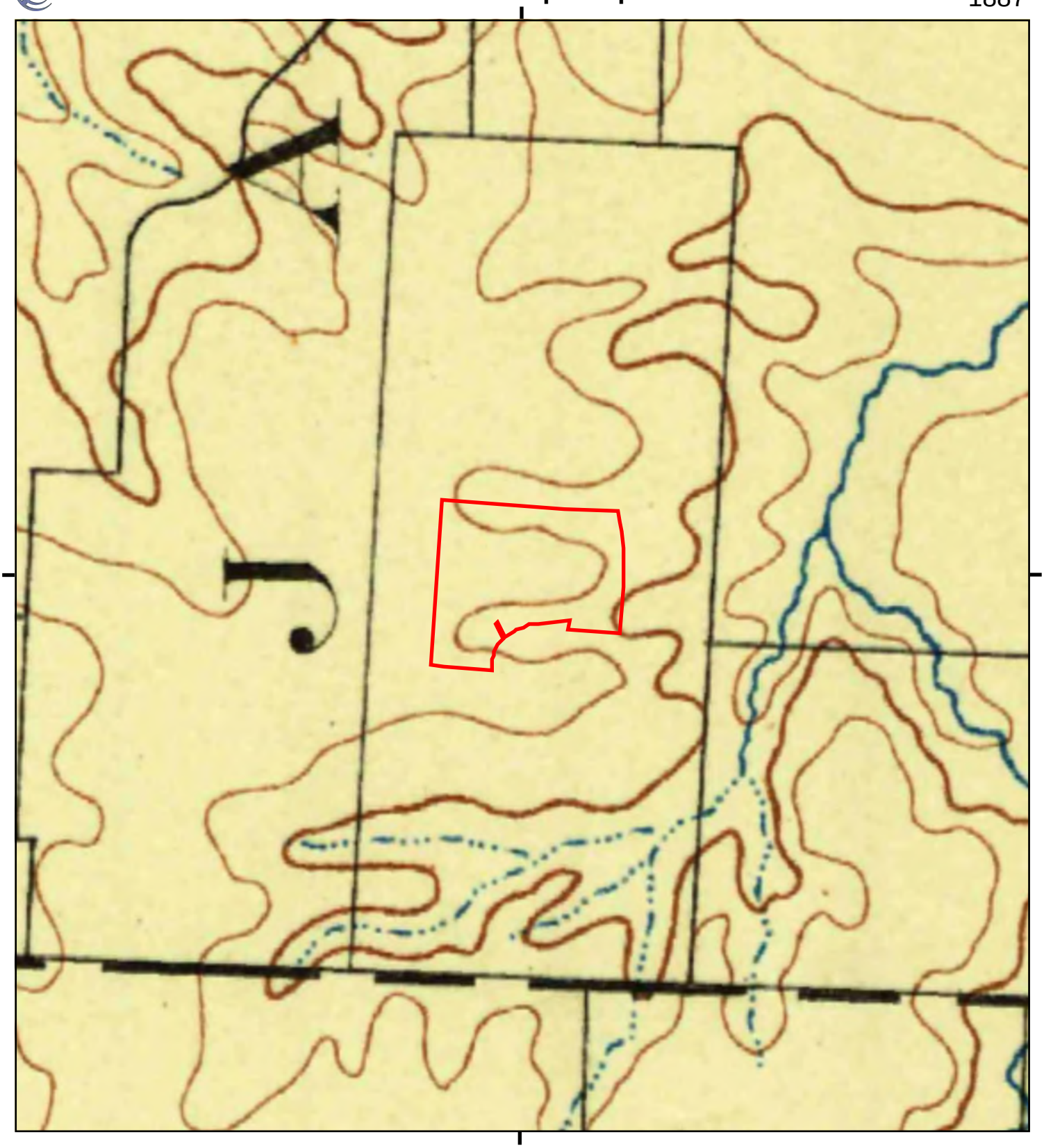
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NW N NE
W E
SW S SE

TP, Olathe, 1893, 30-minute

SITE NAME: Botts Road Giblin Property
ADDRESS: Botts Road/Missouri 150
Grandview, MO 64030
CLIENT: Olsson

N



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

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Olathe, 1887, 30-minute

SITE NAME: Botts Road Giblin Property
ADDRESS: Botts Road/Missouri 150
Grandview, MO 64030
CLIENT: Olsson

N

Botts Road Giblin Property

Botts Road/Missouri 150

Grandview, MO 64030

Inquiry Number: 5974466.8

February 18, 2020

The EDR Aerial Photo Decade Package

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

EDR Aerial Photo Decade Package

02/18/20

Site Name:

Botts Road Giblin Property
Botts Road/Missouri 150
Grandview, MO 64030
EDR Inquiry # 5974466.8

Client Name:

Olsson
7301 West 133rd Street
Overland Park, KS 66213
Contact: Rachael Reis

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Search Results:

Year	Scale	Details	Source
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
1997	1"=500'	Flight Date: March 22, 1997	USGS
1990	1"=500'	Flight Date: February 07, 1990	USGS
1985	1"=500'	Flight Date: June 28, 1985	NHAP
1981	1"=500'	Flight Date: November 11, 1981	NHAP
1979	1"=500'	Flight Date: August 07, 1979	USDA
1976	1"=500'	Flight Date: March 27, 1976	USDA
1969	1"=500'	Flight Date: September 30, 1969	USDA
1957	1"=500'	Flight Date: June 10, 1957	USDA
1952	1"=500'	Flight Date: October 23, 1952	USDA
1940	1"=500'	Flight Date: September 25, 1940	USDA
1936	1"=500'	Flight Date: August 21, 1936	USDA

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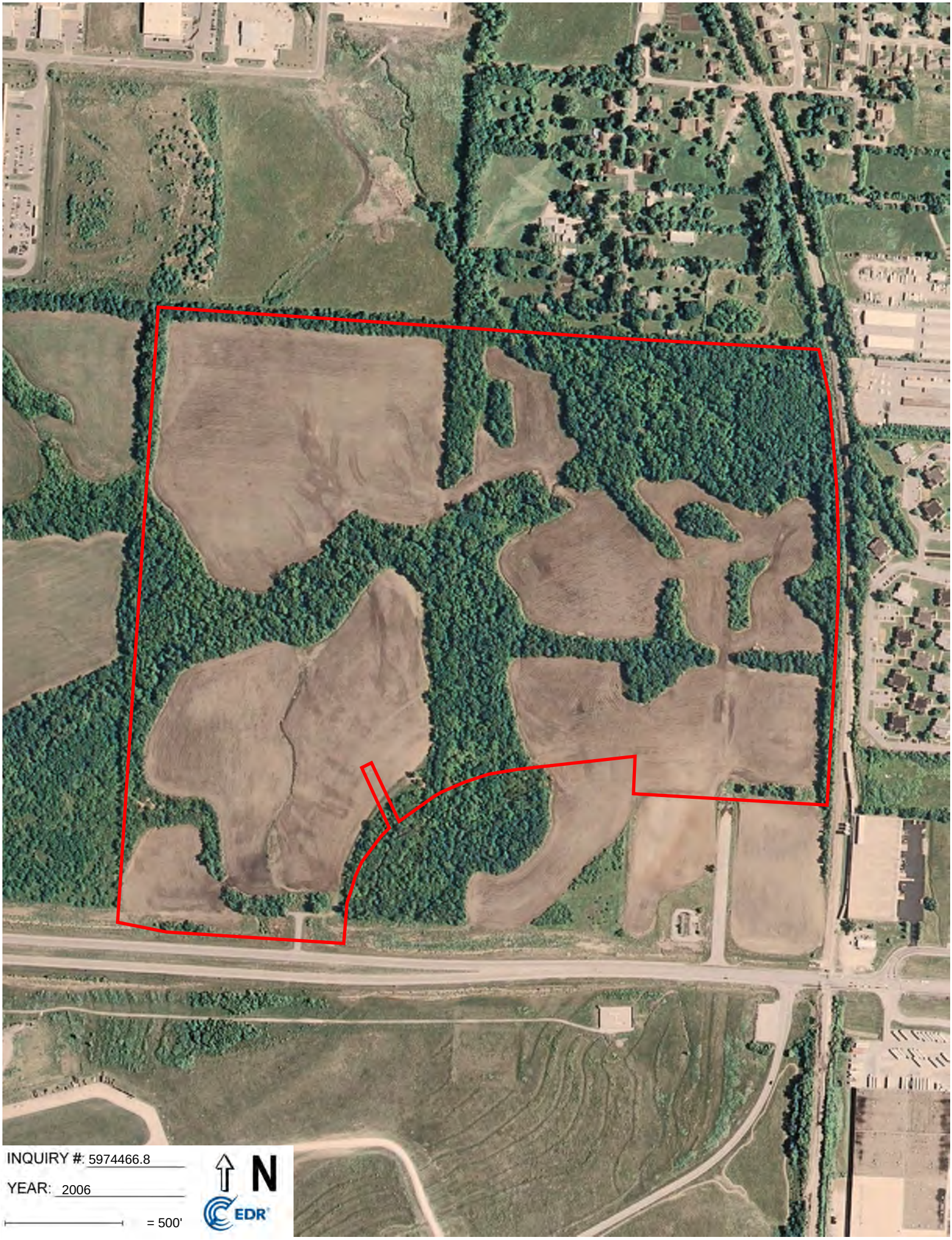
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INQUIRY #: 5974466.8
YEAR: 2016
= 500'
N
EDR


INQUIRY #: 5974466.8
YEAR: 2012
= 500'
N
EDR


INQUIRY #: 5974466.8
YEAR: 2009
= 500'
N
EDR


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YEAR: 2006
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N
EDR


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EDR


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EDR

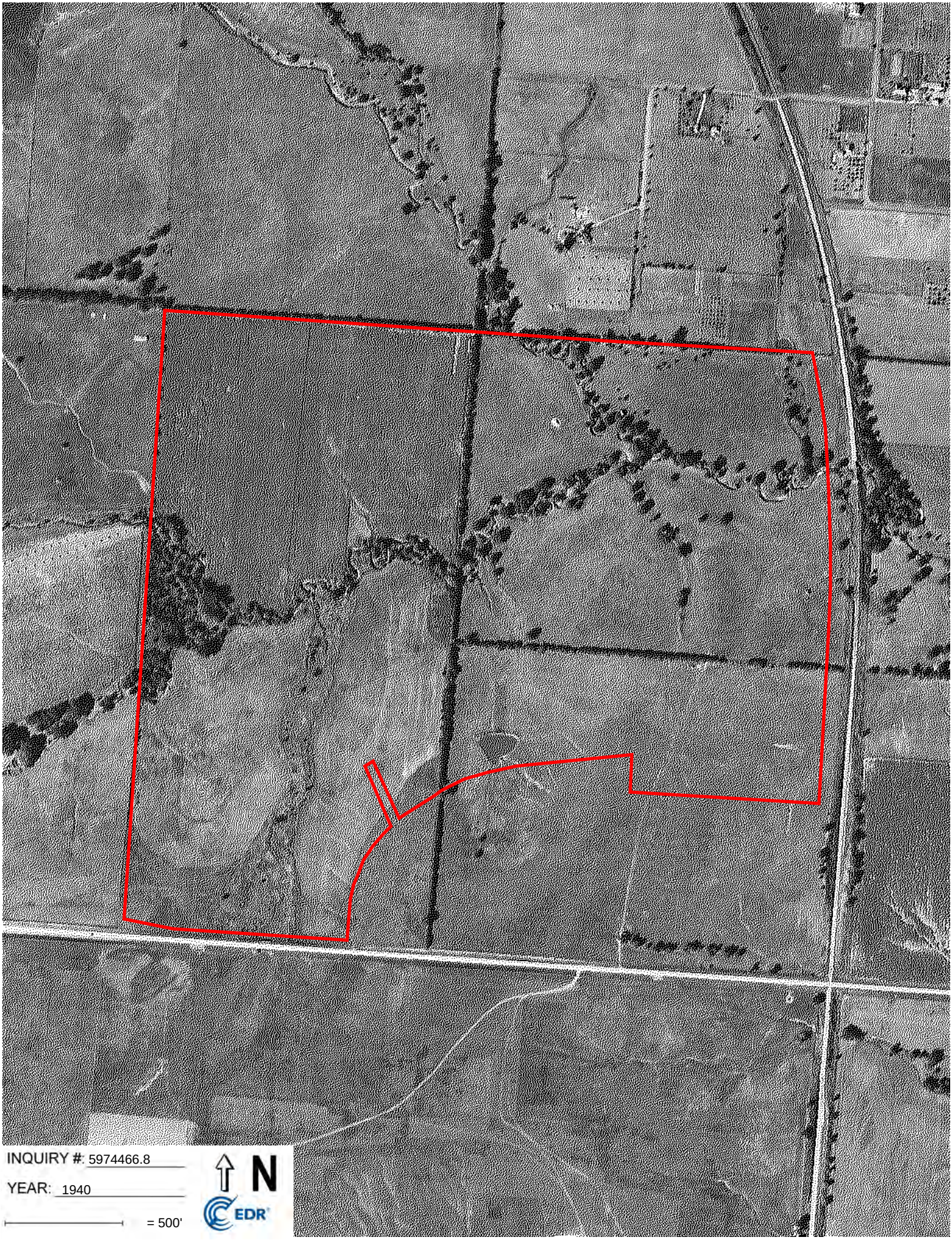

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YEAR: 1979
= 500'
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EDR


INQUIRY #: 5974466.8
YEAR: 1976
= 500'
N
EDR


INQUIRY #: 5974466.8
YEAR: 1969
= 500'
N
EDR


INQUIRY #: 5974466.8
YEAR: 1957
= 500'
N
EDR


INQUIRY #: 5974466.8
YEAR: 1952
= 500'
N
EDR


INQUIRY #: 5974466.8
YEAR: 1940
= 500'
N
EDR


INQUIRY #: 5974466.8
YEAR: 1936
= 500'
N
EDR

APPENDIX D

Environmental Database Report

Botts Road Giblin Property
Botts Road/Missouri 150
Grandview, MO 64030

Inquiry Number: 5974466.2s
February 18, 2020

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
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 (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

BOTTS ROAD/MISSOURI 150
GRANDVIEW, MO 64030

COORDINATES

Latitude (North):	38.8630310 - 38° 51' 46.91''
Longitude (West):	94.5367090 - 94° 32' 12.15''
Universal Tranverse Mercator:	Zone 15
UTM X (Meters):	366670.7
UTM Y (Meters):	4302491.5
Elevation:	954 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	6726087 BELTON, MO
Version Date:	2015
North Map:	6726091 GRANDVIEW, MO
Version Date:	2015

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140904
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
BOTTS ROAD/MISSOURI 150
GRANDVIEW, MO 64030

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
Reg	RICHARDS-GEBAUR AIR		DOD	Same	2908, 0.551, WSW
1	GRANDVIEW RADIO BEA		FUDS	Higher	40, 0.008, South
2	FRONTIER BAG INC	5720 E HWY 150	RCRA-SQG, US AIRS	Higher	750, 0.142, SE
3	PAYLESS CASHWAYS INC	14330 S 71 HWY	RCRA NonGen / NLR, FINDS, ECHO	Lower	972, 0.184, East
4	RICHARDS GEBAUR AIR	HWY 150 & US 71 HWY	SEMS, US ENG CONTROLS, US INST CONTROL, ROD	Higher	1021, 0.193, WSW
5	TRUE VALUE COMPANY	14900 S HWY 71	RCRA-SQG, LUST, UST, SPILLS	Higher	1810, 0.343, SE

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

Federal NPL site list

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

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ---------- Federal Facility Site Information listing

Federal CERCLIS NFRAP site list

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

Federal RCRA CORRACTS facilities list

CORRACTS ---------- Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

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

Federal RCRA generators list

RCRA-LQG ---------- RCRA - Large 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

Federal ERNS list

ERNS ---------- Emergency Response Notification System

State- and tribal - equivalent CERCLIS

SHWS ---- Registry of Confirmed Abandoned or Uncontrolled Hazardous Waste Disposal Sites

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

SWF/LF ---- Permitted Facility List

State and tribal leaking storage tank lists

LAST ---- Leaking Aboveground Storage Tanks
INDIAN LUST ---- Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

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

State and tribal institutional control / engineering control registries

AUL ---- Sites with Controls

State and tribal voluntary cleanup sites

INDIAN VCP ---- Voluntary Cleanup Priority Listing
VCP ---- Voluntary Cleanup Program Site Listing

State and tribal Brownfields sites

BROWNFIELDS ---- Brownfields Site List

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY ---- Solid Waste Recycling Facilities
HIST LF ---- Solid Waste Facility Database List
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

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL ---- Delisted National Clandestine Laboratory Register
CDL ---- Environmental Emergency Response System
DEL SHWS ---- Registry Sites Withdrawn or Deleted

US CDL ..... National Clandestine Laboratory Register

Local Land Records

LIENS 2 ..... CERCLA Lien Information

Records of Emergency Release Reports

HMIRS ..... Hazardous Materials Information Reporting System
SPILLS ..... Environmental Response Tracking Database
SPILLS 90 ..... SPILLS 90 data from FirstSearch

Other Ascertainable Records

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
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
ECHO ..... Enforcement & Compliance History Information
UXO ..... Unexploded Ordnance Sites
DOCKET HWC ..... Hazardous Waste Compliance Docket Listing
FUELS PROGRAM ..... EPA Fuels Program Registered Listing
AIRS ..... Permit Facility Listing
ASBESTOS ..... Asbestos Notification Listing
COAL ASH ..... Coal Ash Disposal Sites
DRYCLEANERS ..... Drycleaners in Missouri Listing
Financial Assurance ..... Financial Assurance Information Listing
MINES ..... Industrial Mineral Mines Database
NPDES ..... Permitted Facility Listing

MO RRC ---------- Certified Hazardous Waste Resource Recovery Facilities
SMARS ---------- Site Management and Reporting System
UIC ---------- Underground Injection Wells Database
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 identified in the following databases.

Elevations have been determined from the USGS 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. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

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

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

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS list

SEMS: SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the SEMS list, as provided by EDR, and dated 01/30/2020 has revealed that there is 1 SEMS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RICHARDS GEBAUR AIR	***HWY 150 & US 71 HWY***	***WSW 1/8 - 1/4 (0.193 mi.)***	***4***	***22***

EXECUTIVE SUMMARY

Site ID: 0701793
EPA Id: MO9571824292

Federal RCRA generators list

RCRA-SQG: 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.

A review of the RCRA-SQG list, as provided by EDR, and dated 12/16/2019 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FRONTIER BAG INC	***5720 E HWY 150***	***SE 1/8 - 1/4 (0.142 mi.)***	***2***	***8***
EPA ID:: MOD067928986				

Federal institutional controls / engineering controls registries

US ENG CONTROLS: A listing of sites with engineering controls in place.

A review of the US ENG CONTROLS list, as provided by EDR, and dated 11/22/2019 has revealed that there is 1 US ENG CONTROLS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RICHARDS GEBAUR AIR	***HWY 150 & US 71 HWY***	***WSW 1/8 - 1/4 (0.193 mi.)***	***4***	***22***
EPA ID:: MO9571824292				
EPA ID:: MO9571824292				

US INST CONTROL: 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.

A review of the US INST CONTROL list, as provided by EDR, and dated 11/22/2019 has revealed that there is 1 US INST CONTROL site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RICHARDS GEBAUR AIR	***HWY 150 & US 71 HWY***	***WSW 1/8 - 1/4 (0.193 mi.)***	***4***	***22***
EPA ID:: MO9571824292				

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tanks.

A review of the LUST list, as provided by EDR, and dated 09/04/2019 has revealed that there is 1 LUST site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TRUE VALUE COMPANY	***14900 S HWY 71***	***SE 1/4 - 1/2 (0.343 mi.)***	***5***	***43***
Facility Id: ST0001980				
Date Of NFA Letter From DNR: 2000-09-11 00:00:00				

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

RCRA NonGen / NLR: 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.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 12/16/2019 has revealed that there is 1 RCRA NonGen / NLR site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
PAYLESS CASHWAYS INC	***14330 S 71 HWY***	***E 1/8 - 1/4 (0.184 mi.)***	***3***	***21***
EPA ID:: MOD985817089				

FUDS: 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.

A review of the FUDS list, as provided by EDR, and dated 11/12/2019 has revealed that there is 1 FUDS site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GRANDVIEW RADIO BEA		S 0 - 1/8 (0.008 mi.)	1	8

DOD: 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.

A review of the DOD list, as provided by EDR, and dated 12/31/2005 has revealed that there is 1 DOD site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RICHARDS-GEBAUR AIR		WSW 1/2 - 1 (0.551 mi.)	0	8

EXECUTIVE SUMMARY

ROD: Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid the cleanup.

A review of the ROD list, as provided by EDR, and dated 01/30/2020 has revealed that there is 1 ROD site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RICHARDS GEBAUR AIR EPA ID:: MO9571824292	***HWY 150 & US 71 HWY***	***WSW 1/8 - 1/4 (0.193 mi.)***	***4***	***22***

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 1 records.

Site Name	Database(s)
ROSE AUTO REPAIR	LUST, UST

OVERVIEW MAP - 5974466.2S



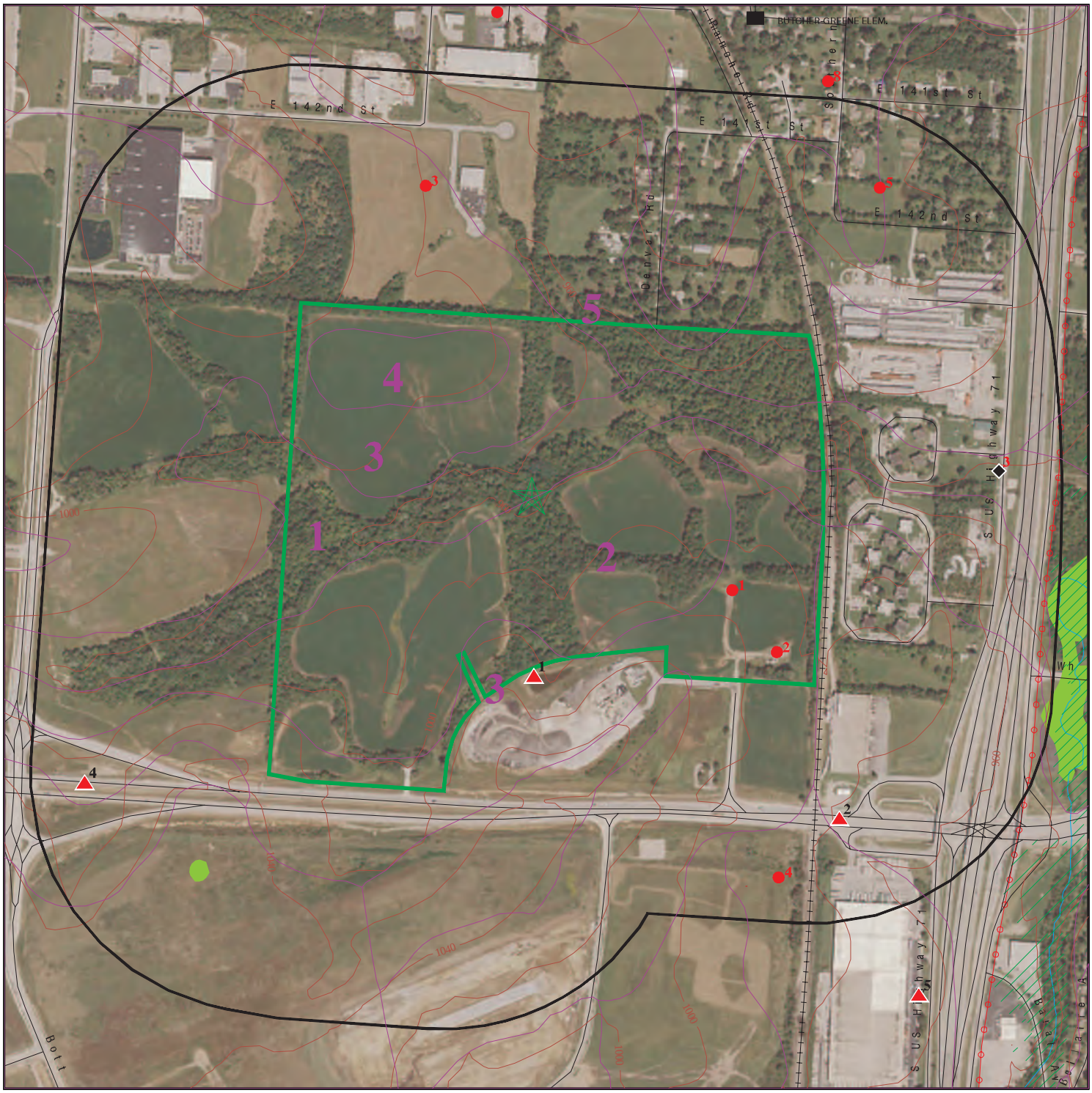
- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- County Boundary
- Power transmission lines
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- National Wetland Inventory
- State Wetlands

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:	Botts Road Giblin Property	CLIENT:	Olsson
ADDRESS:	Botts Road/Missouri 150 Grandview MO 64030	CONTACT:	Rachael Reis
LAT/LONG:	38.863031 / 94.536709	INQUIRY #:	5974466.2s
		DATE:	February 18, 2020 10:51 am

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DETAIL MAP - 5974466.2S



- 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

0 1/8 1/4 1/2 Miles

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

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:	Botts Road Giblin Property	CLIENT:	Olsson
ADDRESS:	Botts Road/Missouri 150 Grandview MO 64030	CONTACT:	Rachael Reis
		INQUIRY #:	5974466.2s
LAT/LONG:	38.863031 / 94.536709	DATE:	February 18, 2020 10:53 am

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	1	0	NR	NR	1
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	1	NR	NR	NR	1
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	1	0	NR	NR	1
US INST CONTROL	0.500		0	1	0	NR	NR	1
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
State- and tribal - equivalent CERCLIS								
SHWS	1.000		0	0	0	0	NR	0
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LAST	0.500		0	0	0	NR	NR	0
LUST	0.500		0	0	1	NR	NR	1
INDIAN LUST	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
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
State and tribal institutional control / engineering control registries								
AUL	0.500		0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
SWRCY	0.500		0	0	0	NR	NR	0
HIST LF	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
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
DEL SHWS	1.000		0	0	0	0	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	0.001		0	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
SPILLS	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	1	NR	NR	NR	1
FUDS	1.000		1	0	0	0	NR	1
DOD	1.000		0	0	0	1	NR	1
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		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
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	1	0	0	NR	1
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
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
AIRS	0.001		0	NR	NR	NR	NR	0
ASBESTOS	0.001		0	NR	NR	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
NPDES	0.001		0	NR	NR	NR	NR	0
MO RRC	0.001		0	NR	NR	NR	NR	0
SMARS	0.500		0	0	0	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
EDR Hist Cleaner	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 RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
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	1	6	1	1	0	9

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

DOD **RICHARDS-GEBAUR AIR FORCE BASE (CLOSED)** **DOD** **CUSA133969**
Region **N/A**
WSW **RICHARDS-GEBAUR AIR FORCE (County), MO**
1/2-1
2908 ft.

DOD:
- Feature 1: Air Force DOD
- Feature 2: Not reported
- Feature 3: Not reported
- URL: Not reported
- Name 1: Richards-Gebaur Air Force Base (Closed)
- Name 2: Not reported
- Name 3: Not reported
- State: MO
- DOD Site: Yes
- Tile name: MOJACKSON

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1 **GRANDVIEW RADIO BEA AX 2** **FUDS** **1024898657**
South **N/A**
< 1/8 **GRANDVIEW, MO**
0.008 mi.
40 ft.

Relative:
Higher

Actual:
1005 ft.

FUDS:
- EPA Region: 7
- Installation ID: MO79799F040800
- Congressional District Number: 5
- Facility Name: GRANDVIEW RADIO BEA AX 2
- FUDS Number: B07MO0970
- City: GRANDVIEW
- State: MO
- County: JACKSON
- USACE District: Kansas City District (NWK)
- Status: Properties without projects
- Current Owner: Local Government
- EMS Map Link: https://fudsportal.usace.army.mil/ems/ems/inventory/map/map?id=58667
- Eligibility: Eligible
- Has Projects: No
- NPL Status: Not Listed
- X Coord: -94.536666669999903
- Y Coord: 38.860277779999997
- Latitude: 38.860277779999997
- Longitude: -94.536666670000002

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2 **FRONTIER BAG INC** **RCRA-SQG** **1000322304**
SE **5720 E HWY 150** **US AIRS** **MOD067928986**
1/8-1/4 **KANSAS CITY, MO 64147**
0.142 mi.
750 ft.

Relative:
Higher

Actual:
979 ft.

RCRA-SQG:
- Date form received by agency: 2017-06-22 00:00:00.0
- Facility name: FRONTIER BAG INC
- Facility address: 5720 E HWY 150
  KANSAS CITY, MO 64147-1003
- EPA ID: MOD067928986
- Mailing address: BOX 200

FRONTIER BAG INC (Continued) **1000322304**

	GRANDVIEW, MO 64030-0200
Contact:	RON AVERY
Contact address:	BOX 200 GRANDVIEW, MO 64030-0200
Contact country:	US
Contact telephone:	816-765-4811
Contact email:	RAVERY@FRONTIERBAG.COM
EPA Region:	07
Land type:	Private
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	RON GURLEY
Owner/operator address:	BOX 200 GRANDVIEW, MO 64030
Owner/operator country:	US
Owner/operator telephone:	816-765-4811
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	FRONTIER BAG INC
Owner/operator address:	BOX 200 GRANDVIEW, MO 64030
Owner/operator country:	US
Owner/operator telephone:	816-765-4811
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	2007-10-19 00:00:00.
Owner/Op end date:	Not reported

Owner/operator name:	RON GURLEY
Owner/operator address:	BOX 200 GRANDVIEW, MO 64030
Owner/operator country:	US
Owner/operator telephone:	816-765-4811
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	2004-08-23 00:00:00.
Owner/Op end date:	Not reported

Owner/operator name:	FRONTIER BAG INC

FRONTIER BAG INC (Continued) **1000322304**

Owner/operator address: BOX 200
GRANDVIEW, MO 64030
Owner/operator country: US
Owner/operator telephone: 816-765-4811
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 2007-10-19 00:00:00.
Owner/Op end date: Not reported

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

Historical Generators:
Date form received by agency: 2011-06-09 00:00:00.0
Site name: FRONTIER BAG INC
Classification: Small Quantity Generator

Date form received by agency: 2007-10-19 00:00:00.0
Site name: FRONTIER BAG INC
Classification: Small Quantity Generator

Date form received by agency: 2007-07-27 00:00:00.0
Site name: FRONTIER BAG INC
Classification: Small Quantity Generator

Date form received by agency: 2004-08-23 00:00:00.0
Site name: FRONTIER BAG INC
Classification: Small Quantity Generator

Date form received by agency: 2002-01-25 00:00:00.0
Site name: FRONTIER BAG INC
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 1997-08-18 00:00:00.0
Site name: FRONTIER BAG INC
Classification: Small Quantity Generator

Hazardous Waste Summary:

FRONTIER BAG INC (Continued) **1000322304**

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D005
. Waste name: BARIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Universal Waste - Small Quantity Handlers
Date violation determined: 2017-07-18 00:00:00.0
Date achieved compliance: 2017-07-25 00:00:00.0
Violation lead agency: State
Enforcement action: COMPLIANCE EVALUATION INSPECTION ON-SITE
Enforcement action date: 2017-08-01 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 2017-07-18 00:00:00.0

FRONTIER BAG INC (Continued) **1000322304**

Date achieved compliance: 2017-07-18 00:00:00.0
Violation lead agency: State
Enforcement action: COMPLIANCE EVALUATION INSPECTION ON-SITE
Enforcement action date: 2017-08-01 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 2017-07-18 00:00:00.0
Date achieved compliance: 2017-07-25 00:00:00.0
Violation lead agency: State
Enforcement action: COMPLIANCE EVALUATION INSPECTION ON-SITE
Enforcement action date: 2017-08-01 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 2017-07-18 00:00:00.0
Date achieved compliance: 2017-07-24 00:00:00.0
Violation lead agency: State
Enforcement action: COMPLIANCE EVALUATION INSPECTION ON-SITE
Enforcement action date: 2017-08-01 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 2017-07-18 00:00:00.0
Date achieved compliance: 2017-07-28 00:00:00.0
Violation lead agency: State
Enforcement action: COMPLIANCE EVALUATION INSPECTION ON-SITE
Enforcement action date: 2017-08-01 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 2017-07-18 00:00:00.0
Date achieved compliance: 2017-07-18 00:00:00.0

FRONTIER BAG INC (Continued) **1000322304**

Violation lead agency: State
Enforcement action: COMPLIANCE EVALUATION INSPECTION ON-SITE
Enforcement action date: 2017-08-01 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Listing - General
Date violation determined: 2017-07-18 00:00:00.0
Date achieved compliance: 2017-07-18 00:00:00.0
Violation lead agency: State
Enforcement action: COMPLIANCE EVALUATION INSPECTION ON-SITE
Enforcement action date: 2017-08-01 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Listing - General
Date violation determined: 2007-05-16 00:00:00.0
Date achieved compliance: 2007-07-31 00:00:00.0
Violation lead agency: State
Enforcement action: COMPLIANCE EVALUATION INSPECTION ON-SITE
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Manifest
Date violation determined: 2007-05-16 00:00:00.0
Date achieved compliance: 2007-07-31 00:00:00.0
Violation lead agency: State
Enforcement action: COMPLIANCE EVALUATION INSPECTION ON-SITE
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Used Oil - Generators
Date violation determined: 2007-05-16 00:00:00.0
Date achieved compliance: 2007-07-31 00:00:00.0
Violation lead agency: State

FRONTIER BAG INC (Continued) **1000322304**

Enforcement action: COMPLIANCE EVALUATION INSPECTION ON-SITE
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 2007-05-16 00:00:00.0
Date achieved compliance: 2007-07-31 00:00:00.0
Violation lead agency: State
Enforcement action: COMPLIANCE EVALUATION INSPECTION ON-SITE
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 2007-05-16 00:00:00.0
Date achieved compliance: 2007-07-31 00:00:00.0
Violation lead agency: State
Enforcement action: COMPLIANCE EVALUATION INSPECTION ON-SITE
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: State Statute or Regulation
Date violation determined: 2007-05-16 00:00:00.0
Date achieved compliance: 2007-07-31 00:00:00.0
Violation lead agency: State
Enforcement action: COMPLIANCE EVALUATION INSPECTION ON-SITE
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - D06
Area of violation: Generators - General
Date violation determined: 2001-10-09 00:00:00.0
Date achieved compliance: 2001-10-09 00:00:00.0
Violation lead agency: State
Enforcement action: COMPLIANCE EVALUATION INSPECTION ON-SITE

FRONTIER BAG INC (Continued) **1000322304**

Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - C06
Area of violation: Generators - General
Date violation determined: 2001-10-09 00:00:00.0
Date achieved compliance: 2001-10-09 00:00:00.0
Violation lead agency: State
Enforcement action: COMPLIANCE EVALUATION INSPECTION ON-SITE
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - A01
Area of violation: Generators - General
Date violation determined: 2001-10-09 00:00:00.0
Date achieved compliance: 2001-10-09 00:00:00.0
Violation lead agency: State
Enforcement action: COMPLIANCE EVALUATION INSPECTION ON-SITE
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - D05
Area of violation: Generators - General
Date violation determined: 2001-10-09 00:00:00.0
Date achieved compliance: 2001-10-09 00:00:00.0
Violation lead agency: State
Enforcement action: COMPLIANCE EVALUATION INSPECTION ON-SITE
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - D07
Area of violation: Generators - General
Date violation determined: 2001-10-09 00:00:00.0
Date achieved compliance: 2001-10-09 00:00:00.0
Violation lead agency: State
Enforcement action: COMPLIANCE EVALUATION INSPECTION ON-SITE
Enforcement action date: Not reported

FRONTIER BAG INC (Continued) **1000322304**

Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 1989-06-09 00:00:00.0
Date achieved compliance: 1989-06-23 00:00:00.0
Violation lead agency: State
Enforcement action: COMPLIANCE EVALUATION INSPECTION ON-SITE
Enforcement action date: 1989-06-09 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 1989-06-09 00:00:00.0
Evaluation: WRITTEN INFORMAL
Area of violation: Generators - General
Date achieved compliance: 1989-06-23 00:00:00.0
Evaluation lead agency: State

US AIRS MINOR:
Envid: 1000322304
Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
D and B Number: Not reported
Primary SIC Code: 2759
NAICS Code: 323112
Default Air Classification Code: MIN
Facility Type of Ownership Code: POF
Air CMS Category Code: Not reported
HPV Status: Not reported

US AIRS MINOR:
Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1993-10-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR

FRONTIER BAG INC (Continued) **1000322304**

Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1995-02-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1995-11-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1996-12-11 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1997-11-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1998-09-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07

FRONTIER BAG INC (Continued) **1000322304**

Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1999-11-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2000-08-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2001-09-04 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2003-01-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2004-03-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

FRONTIER BAG INC (Continued) **1000322304**

Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2004-11-17 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-11-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2006-01-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2007-01-11 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-02-04 00:00:00

FRONTIER BAG INC (Continued) **1000322304**

Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-02-17 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-11-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-10-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2014-08-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

3 **PAYLESS CASHWAYS INC** **RCRA NonGen / NLR** **1004740816**
East **14330 S 71 HWY** **FINDS** **MOD985817089**
1/8-1/4 **KANSAS, MO 64147** **ECHO**
0.184 mi.
972 ft.

Relative:
Lower

Actual:
939 ft.

RCRA NonGen / NLR:

Date form received by agency:	2002-12-02 00:00:00.0
Facility name:	PAYLESS CASHWAYS INC
Facility address:	14330 S 71 HWY KANSAS, MO 64147
EPA ID:	MOD985817089
Mailing address:	PO BOX 419466 KANSAS CITY, MO 64141
Contact:	WILLIAM CAUVEREN JR
Contact address:	14330 S 71 HWY KANSAS CITY, MO 64147
Contact country:	US
Contact telephone:	816-243-6000
Contact email:	Not reported
EPA Region:	07
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	PAYLESS CASHWAYS INC
Owner/operator address:	NA NA, MO
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

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

Historical Generators:

Date form received by agency:	2000-03-17 00:00:00.0
Site name:	PAYLESS CASHWAYS INC

PAYLESS CASHWAYS INC (Continued) **1004740816**

Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 1995-09-01 00:00:00.0
Site name: PAYLESS CASHWAYS INC
Classification: Conditionally Exempt Small Quantity Generator

Hazardous Waste Summary:

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

Violation Status: No violations found

FINDS:

Registry ID: 110003972238

Environmental Interest/Information System
The MO-DNR (Missouri Department of Natural Resources) program involves a Resource Assessment and Monitoring Program, biological criteria development, monitoring of targeted sites to determine compliance with the designated use of aquatic life protection in the standards, monitoring for 303(3) purposes, and the development of a stream classification framework.
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

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

ECHO:
Envid: 1004740816
Registry ID: 110003972238
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110003972238

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4 WSW 1/8-1/4 0.193 mi. 1021 ft.

RICHARDS GEBAUR AIR FORCE BASE
HWY 150 & US 71 HWY
BELTON, MO 64012

SEMS
US ENG CONTROLS
US INST CONTROL
ROD

1000481425
MO9571824292

Relative: Higher

Actual: 1005 ft.

SEMS:
Site ID: 0701793
EPA ID: MO9571824292
Name: RICHARDS GEBAUR AIR FORCE BASE
Address: HWY 150 & US 71 HWY
Address 2: Not reported

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

City,State,Zip: BELTON, MO 64012
Cong District: 04
FIPS Code: 29037
Latitude: Not reported
Longitude: Not reported
FF: Y
NPL: Not on the NPL
Non NPL Status: Referred to Removal - NFRAP

SEMS Detail:

Region: 07
Site ID: 0701793
EPA ID: MO9571824292
Site Name: RICHARDS GEBAUR AIR FORCE BASE
NPL: N
FF: Y
OU: 00
Action Code: TY
Action Name: FF SI REV
SEQ: 1
Start Date: 1996-11-01 05:00:00
Finish Date: 11/1/1996 5:00:00 AM
Qual: N
Current Action Lead: EPA Perf In-Hse

Region: 07
Site ID: 0701793
EPA ID: MO9571824292
Site Name: RICHARDS GEBAUR AIR FORCE BASE
NPL: N
FF: Y
OU: 00
Action Code: SI
Action Name: SI
SEQ: 2
Start Date: 1998-01-23 05:00:00
Finish Date: 1/23/1998 5:00:00 AM
Qual: W
Current Action Lead: EPA Perf

Region: 07
Site ID: 0701793
EPA ID: MO9571824292
Site Name: RICHARDS GEBAUR AIR FORCE BASE
NPL: N
FF: Y
OU: 03
Action Code: RS
Action Name: RV ASSESS
SEQ: 1
Start Date: 1998-01-13 05:00:00
Finish Date: 1/13/1998 5:00:00 AM
Qual: Not reported
Current Action Lead: EPA Perf

Region: 07
Site ID: 0701793
EPA ID: MO9571824292

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	00
Action Code:	DS
Action Name:	DISCVRY
SEQ:	1
Start Date:	1981-07-22 04:00:00
Finish Date:	7/22/1981 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	00
Action Code:	MA
Action Name:	ST COOP
SEQ:	1
Start Date:	1997-10-01 04:00:00
Finish Date:	9/30/2001 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	30
Start Date:	2002-04-02 05:00:00
Finish Date:	8/22/2002 4:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	4
Start Date:	1999-12-28 05:00:00
Finish Date:	12/28/1999 5:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	02
Action Code:	LV
Action Name:	FF RV
SEQ:	5
Start Date:	1991-11-08 05:00:00
Finish Date:	2/1/1992 5:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	3
Start Date:	1996-01-01 05:00:00
Finish Date:	12/30/1999 5:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	03
Action Code:	LV
Action Name:	FF RV
SEQ:	2
Start Date:	2001-12-21 05:00:00
Finish Date:	2/4/2003 5:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	NH
Action Name:	FF RI
SEQ:	5
Start Date:	1990-07-01 04:00:00
Finish Date:	7/1/1990 4:00:00 AM

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	25
Start Date:	2000-03-09 05:00:00
Finish Date:	5/19/2000 4:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	26
Start Date:	2000-02-15 05:00:00
Finish Date:	3/24/2001 5:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	02
Action Code:	LV
Action Name:	FF RV
SEQ:	27
Start Date:	2000-02-07 05:00:00
Finish Date:	4/6/2000 4:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

SEQ:	28
Start Date:	1999-12-16 05:00:00
Finish Date:	3/1/2000 5:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	00
Action Code:	EE
Action Name:	EE/CA
SEQ:	1
Start Date:	2001-06-01 04:00:00
Finish Date:	6/1/2001 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	EE
Action Name:	EE/CA
SEQ:	3
Start Date:	2001-07-19 04:00:00
Finish Date:	7/19/2001 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	18
Start Date:	2002-02-12 05:00:00
Finish Date:	5/29/2002 4:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	17
Start Date:	2002-02-11 05:00:00
Finish Date:	6/27/2002 4:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	14
Start Date:	2000-07-25 04:00:00
Finish Date:	10/2/2000 4:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	15
Start Date:	2000-02-24 05:00:00
Finish Date:	5/23/2000 4:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	16
Start Date:	2002-02-01 05:00:00
Finish Date:	3/15/2002 5:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	39
Start Date:	1995-06-14 04:00:00
Finish Date:	7/5/1995 4:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	03
Action Code:	EE
Action Name:	EE/CA
SEQ:	2
Start Date:	2002-08-01 04:00:00
Finish Date:	9/20/2002 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	23
Start Date:	2002-02-12 05:00:00
Finish Date:	5/29/2002 4:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	24
Start Date:	2001-11-27 05:00:00
Finish Date:	8/22/2002 4:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	03
Action Code:	LV
Action Name:	FF RV
SEQ:	40
Start Date:	2002-09-01 04:00:00
Finish Date:	12/10/2003 5:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	03
Action Code:	LV
Action Name:	FF RV
SEQ:	38
Start Date:	2001-01-12 05:00:00
Finish Date:	12/10/2003 5:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	36
Start Date:	2000-02-07 05:00:00
Finish Date:	4/5/2000 4:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	03
Action Code:	LV
Action Name:	FF RV
SEQ:	37
Start Date:	1997-09-15 04:00:00
Finish Date:	9/17/1997 4:00:00 AM

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	33
Start Date:	1993-10-29 04:00:00
Finish Date:	10/29/1993 4:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	34
Start Date:	1991-01-02 05:00:00
Finish Date:	12/31/1991 5:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	35
Start Date:	1995-07-05 04:00:00
Finish Date:	7/28/1995 4:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

SEQ: 32
Start Date: 2003-01-27 05:00:00
Finish Date: 1/31/2003 5:00:00 AM
Qual: C
Current Action Lead: Fed Fac

Region: 07
Site ID: 0701793
EPA ID: MO9571824292
Site Name: RICHARDS GEBAUR AIR FORCE BASE
NPL: N
FF: Y
OU: 01
Action Code: NH
Action Name: FF RI
SEQ: 3
Start Date: 2003-11-03 05:00:00
Finish Date: 11/3/2003 5:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 07
Site ID: 0701793
EPA ID: MO9571824292
Site Name: RICHARDS GEBAUR AIR FORCE BASE
NPL: N
FF: Y
OU: 00
Action Code: LZ
Action Name: FF CR
SEQ: 3
Start Date: 1983-03-31 05:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: Fed Fac

Region: 07
Site ID: 0701793
EPA ID: MO9571824292
Site Name: RICHARDS GEBAUR AIR FORCE BASE
NPL: N
FF: Y
OU: 01
Action Code: LV
Action Name: FF RV
SEQ: 19
Start Date: 2002-02-15 05:00:00
Finish Date: 3/21/2002 5:00:00 AM
Qual: C
Current Action Lead: Fed Fac

Region: 07
Site ID: 0701793
EPA ID: MO9571824292
Site Name: RICHARDS GEBAUR AIR FORCE BASE
NPL: N
FF: Y

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	41
Start Date:	1995-09-21 04:00:00
Finish Date:	9/29/1995 4:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	6
Start Date:	2001-07-17 04:00:00
Finish Date:	12/19/2001 5:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	7
Start Date:	2001-11-09 05:00:00
Finish Date:	6/21/2002 4:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	02
Action Code:	LV
Action Name:	FF RV
SEQ:	8
Start Date:	2002-02-28 05:00:00
Finish Date:	3/16/2002 5:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	02
Action Code:	LV
Action Name:	FF RV
SEQ:	9
Start Date:	1993-06-17 04:00:00
Finish Date:	10/4/1993 4:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	02
Action Code:	LV
Action Name:	FF RV
SEQ:	10
Start Date:	1993-01-02 05:00:00
Finish Date:	12/31/1993 5:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	02
Action Code:	LV
Action Name:	FF RV
SEQ:	11
Start Date:	1988-01-02 05:00:00
Finish Date:	12/31/1995 5:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	12
Start Date:	2002-02-08 05:00:00
Finish Date:	2/26/2002 5:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	13
Start Date:	2000-01-17 05:00:00
Finish Date:	9/19/2000 4:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	20
Start Date:	2002-08-16 04:00:00
Finish Date:	9/16/2002 4:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	02
Action Code:	LV
Action Name:	FF RV
SEQ:	31
Start Date:	2001-11-06 05:00:00
Finish Date:	5/29/2002 4:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	00
Action Code:	AE
Action Name:	RE-USE P
SEQ:	1
Start Date:	1994-09-23 04:00:00
Finish Date:	9/23/1994 4:00:00 AM

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	NH
Action Name:	FF RI
SEQ:	1
Start Date:	1991-10-01 04:00:00
Finish Date:	10/1/1991 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	00
Action Code:	LZ
Action Name:	FF CR
SEQ:	1
Start Date:	1994-03-01 05:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	03
Action Code:	NH
Action Name:	FF RI
SEQ:	2
Start Date:	1997-07-01 04:00:00
Finish Date:	11/1/1998 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

SEQ: 1
Start Date: 2001-09-10 04:00:00
Finish Date: 8/30/2002 4:00:00 AM
Qual: C
Current Action Lead: Fed Fac

Region: 07
Site ID: 0701793
EPA ID: MO9571824292
Site Name: RICHARDS GEBAUR AIR FORCE BASE
NPL: N
FF: Y
OU: 01
Action Code: LY
Action Name: FF RA
SEQ: 1
Start Date: 2002-08-01 04:00:00
Finish Date: 9/19/2007 4:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 07
Site ID: 0701793
EPA ID: MO9571824292
Site Name: RICHARDS GEBAUR AIR FORCE BASE
NPL: N
FF: Y
OU: 01
Action Code: LV
Action Name: FF RV
SEQ: 42
Start Date: 2004-08-10 04:00:00
Finish Date: 9/28/2004 4:00:00 AM
Qual: C
Current Action Lead: Fed Fac

Region: 07
Site ID: 0701793
EPA ID: MO9571824292
Site Name: RICHARDS GEBAUR AIR FORCE BASE
NPL: N
FF: Y
OU: 01
Action Code: LV
Action Name: FF RV
SEQ: 21
Start Date: 2002-02-26 05:00:00
Finish Date: 2/26/2003 5:00:00 AM
Qual: C
Current Action Lead: Fed Fac

Region: 07
Site ID: 0701793
EPA ID: MO9571824292
Site Name: RICHARDS GEBAUR AIR FORCE BASE
NPL: N
FF: Y

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	22
Start Date:	1999-12-03 05:00:00
Finish Date:	8/15/2000 4:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	02
Action Code:	LY
Action Name:	FF RA
SEQ:	2
Start Date:	2002-08-01 04:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	02
Action Code:	NI
Action Name:	FF FS
SEQ:	1
Start Date:	2002-08-30 04:00:00
Finish Date:	9/23/2004 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LW
Action Name:	FF RI/FS
SEQ:	1
Start Date:	2002-08-30 04:00:00
Finish Date:	9/23/2004 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	02
Action Code:	GM
Action Name:	GWTRMON
SEQ:	1
Start Date:	2004-09-23 04:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	00
Action Code:	SI
Action Name:	SI
SEQ:	1
Start Date:	1988-03-01 05:00:00
Finish Date:	12/19/1989 5:00:00 AM
Qual:	W
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	RO
Action Name:	ROD
SEQ:	1
Start Date:	2004-09-23 04:00:00
Finish Date:	9/23/2004 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	1984-09-01 05:00:00
Finish Date:	9/30/1984 5:00:00 AM
Qual:	L
Current Action Lead:	Fed Fac

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	2
Start Date:	1984-07-19 05:00:00
Finish Date:	7/19/1984 5:00:00 AM
Qual:	L
Current Action Lead:	St Perf

SIte:

Name:	RICHARDS GEBAUR AIR FORCE BASE
Address:	HWY 150 & US 71 HWY
Address 2:	Not reported
City,State,Zip:	BELTON, MO 64012
Event Code:	Not reported
Action Taken Date:	08/31/2007
EPA ID:	MO9571824292
Site ID:	0701793
Action Name:	Explanation Of Significant Differences
Action ID:	001
Operable Unit:	01
Action Completion Date:	09/19/2007
Contaminated Media:	Soil
Engineering Control:	No Further Action
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported

Media:

Engineering Control:	No Further Action
EPA ID:	MO9571824292
Contaminated Media:	Soil
Site ID:	0701793
Action ID:	001
Action Completion Date:	09/19/2007
Operable Unit:	01
Action Name:	Explanation Of Significant Differences
Action Taken Date:	08/31/2007
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported

Engineering Control:	Monitoring
EPA ID:	MO9571824292
Contaminated Media:	Groundwater
Site ID:	0701793
Action ID:	001
Action Completion Date:	09/23/2004
Operable Unit:	01

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

Action Name:	RECORD OF DECISION
Action Taken Date:	09/30/2004
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Engineering Control:	Cap
EPA ID:	MO9571824292
Contaminated Media:	Soil
Site ID:	0701793
Action ID:	002
Action Completion Date:	Not reported
Operable Unit:	03
Action Name:	RECORD OF DECISION
Action Taken Date:	Not reported
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Engineering Control:	Monitoring
EPA ID:	MO9571824292
Contaminated Media:	Groundwater
Site ID:	0701793
Action ID:	003
Action Completion Date:	09/23/2004
Operable Unit:	02
Action Name:	RECORD OF DECISION
Action Taken Date:	Not reported
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported

US INST CONTROL:

Name:	RICHARDS GEBAUR AIR FORCE BASE
Address:	HWY 150 & US 71 HWY
Address 2:	Not reported
City,State,Zip:	BELTON, MO 64012
EPA ID:	MO9571824292
Site ID:	0701793
Action Name:	RECORD OF DECISION
Action ID:	001
Operable Unit:	01
Action Completion Date:	09/23/2004
Actual Date:	09/30/2004
Contaminated Media:	Groundwater
Institutional Control:	Covenant
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Name:	RICHARDS GEBAUR AIR FORCE BASE
Address:	HWY 150 & US 71 HWY

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

Address 2:	Not reported
City,State,Zip:	BELTON, MO 64012
EPA ID:	MO9571824292
Site ID:	0701793
Action Name:	RECORD OF DECISION
Action ID:	001
Operable Unit:	01
Action Completion Date:	09/23/2004
Actual Date:	09/30/2004
Contaminated Media:	Soil
Institutional Control:	Covenant
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported

Name:	RICHARDS GEBAUR AIR FORCE BASE
Address:	HWY 150 & US 71 HWY
Address 2:	Not reported
City,State,Zip:	BELTON, MO 64012
EPA ID:	MO9571824292
Site ID:	0701793
Action Name:	RECORD OF DECISION
Action ID:	003
Operable Unit:	02
Action Completion Date:	09/23/2004
Actual Date:	Not reported
Contaminated Media:	Groundwater
Institutional Control:	Covenant
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported

ROD:

Name:	RICHARDS GEBAUR AIR FORCE BASE
Address:	HWY 150 & US 71 HWY
City,State,Zip:	BELTON, MO 64012
EPA ID:	MO9571824292
RG:	7
Site ID:	701793
Action:	FF ESD
Operable Unit Number:	SOIL REMEDIATION
SEQ ID:	1
Action Completion:	2007-09-19 00:00:00
NPL Status:	Not on the NPL
Non NPL Status:	Referred to Removal - NFRAP

Name:	RICHARDS GEBAUR AIR FORCE BASE
Address:	HWY 150 & US 71 HWY
City,State,Zip:	BELTON, MO 64012
EPA ID:	MO9571824292
RG:	7
Site ID:	701793
Action:	FF ROD (RCRA Statement of Basis/RTC)
Operable Unit Number:	SOIL REMEDIATION
SEQ ID:	1

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

Action Completion:	2004-09-23 00:00:00
NPL Status:	Not on the NPL
Non NPL Status:	Referred to Removal - NFRAP
Name:	RICHARDS GEBAUR AIR FORCE BASE
Address:	HWY 150 & US 71 HWY
City,State,Zip:	BELTON, MO 64012
EPA ID:	MO9571824292
RG:	7
Site ID:	701793
Action:	FF ROD (RCRA Statement of Basis/RTC)
Operable Unit Number:	GROUNDWATER SITE SPECIFIC
SEQ ID:	3
Action Completion:	2004-09-23 00:00:00
NPL Status:	Not on the NPL
Non NPL Status:	Referred to Removal - NFRAP

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5 **TRUE VALUE COMPANY** **RCRA-SQG** **1000631621**
SE **14900 S HWY 71** **LUST** **MOD985808427**
1/4-1/2 **KANSAS CITY, MO 64147** **UST**
0.343 mi. **SPILLS**
1810 ft.

Relative:
Higher

Actual:
964 ft.

RCRA-SQG:

Date form received by agency:	2019-12-13 00:00:00.0
Facility name:	TRUE VALUE COMPANY
Facility address:	14900 S HWY 71 KANSAS CITY, MO 64147-1014
EPA ID:	MOD985808427
Mailing address:	14900 S 71 HWY KANSAS CITY, MO 64147-1014
Contact:	RICHARD PREWITT
Contact address:	14900 S 71 HWY KANSAS CITY, MO 64147-1014
Contact country:	US
Contact telephone:	816-348-6304
Contact email:	Not reported
EPA Region:	07
Land type:	Private
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	TRUE VALUE COMPANY
Owner/operator address:	8600 W BRYN MAWR AVE CHICAGO, IL 60631
Owner/operator country:	US
Owner/operator telephone:	773-695-5000
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner

TRUE VALUE COMPANY (Continued) **1000631621**

Owner/Op start date: 2002-12-26 00:00:00.
Owner/Op end date: Not reported

Owner/operator name: TRUE VALUE COMPANY
Owner/operator address: 8600 W BRYN MAWR AVE
CHICAGO, IL 60631
Owner/operator country: US
Owner/operator telephone: 773-695-5000
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 2002-12-26 00:00:00.
Owner/Op end date: Not reported

Owner/operator name: TRUSERV
Owner/operator address: 14900 S HWY 71
KANSAS CITY, MO 64147
Owner/operator country: Not reported
Owner/operator telephone: 816-331-7000
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): Not reported
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 2019-11-25 00:00:00.0
Site name: TRUE VALUE COMPANY
Classification: Small Quantity Generator

Date form received by agency: 2009-07-06 00:00:00.0
Site name: TRUE VALUE CO
Classification: Small Quantity Generator

Date form received by agency: 2006-08-28 00:00:00.0

TRUE VALUE COMPANY (Continued) **1000631621**

Site name: TRUE VALUE
Classification: Small Quantity Generator

Date form received by agency: 1999-03-17 00:00:00.0
Site name: TRUSERV
Classification: Small Quantity Generator

Hazardous Waste Summary:

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D005
. Waste name: BARIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

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

. Waste code: D018
. Waste name: BENZENE

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

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: D040
. Waste name: TRICHLORETHYLENE

. Waste code: F001
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2,

TRUE VALUE COMPANY (Continued) **1000631621**

TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Facility Has Received Notices of Violations:

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 2019-11-14 00:00:00.0
Date achieved compliance: 2019-11-15 00:00:00.0
Violation lead agency: State
Enforcement action: COMPLIANCE EVALUATION INSPECTION ON-SITE
Enforcement action date: 2019-11-25 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 2019-11-14 00:00:00.0
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: COMPLIANCE EVALUATION INSPECTION ON-SITE
Enforcement action date: 2019-11-25 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported

TRUE VALUE COMPANY (Continued) **1000631621**

Area of violation: Universal Waste - Small Quantity Handlers
Date violation determined: 2019-11-14 00:00:00.0
Date achieved compliance: 2019-11-14 00:00:00.0
Violation lead agency: State
Enforcement action: COMPLIANCE EVALUATION INSPECTION ON-SITE
Enforcement action date: 2019-11-25 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Used Oil - Generators
Date violation determined: 2019-11-14 00:00:00.0
Date achieved compliance: 2019-11-15 00:00:00.0
Violation lead agency: State
Enforcement action: COMPLIANCE EVALUATION INSPECTION ON-SITE
Enforcement action date: 2019-11-25 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 2019-11-14 00:00:00.0
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: COMPLIANCE EVALUATION INSPECTION ON-SITE
Enforcement action date: 2019-11-25 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: LDR - General
Date violation determined: 2009-05-21 00:00:00.0
Date achieved compliance: 2009-07-20 00:00:00.0
Violation lead agency: State
Enforcement action: COMPLIANCE EVALUATION INSPECTION ON-SITE
Enforcement action date: 2009-06-09 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Pre-transport

TRUE VALUE COMPANY (Continued) **1000631621**

Date violation determined: 2009-05-21 00:00:00.0
Date achieved compliance: 2009-07-20 00:00:00.0
Violation lead agency: State
Enforcement action: COMPLIANCE EVALUATION INSPECTION ON-SITE
Enforcement action date: 2009-06-09 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 2009-05-21 00:00:00.0
Date achieved compliance: 2009-07-20 00:00:00.0
Violation lead agency: State
Enforcement action: COMPLIANCE EVALUATION INSPECTION ON-SITE
Enforcement action date: 2009-06-09 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Manifest
Date violation determined: 2009-05-21 00:00:00.0
Date achieved compliance: 2009-07-20 00:00:00.0
Violation lead agency: State
Enforcement action: COMPLIANCE EVALUATION INSPECTION ON-SITE
Enforcement action date: 2009-06-09 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: State Statute or Regulation
Date violation determined: 2009-05-21 00:00:00.0
Date achieved compliance: 2009-07-20 00:00:00.0
Violation lead agency: State
Enforcement action: COMPLIANCE EVALUATION INSPECTION ON-SITE
Enforcement action date: 2009-06-09 00:00:00.0
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

LUST:
Name: TRU SERV KANSAS CITY FACILITY
Address: 14900 US HWY 71
City,State,Zip: KANSAS CITY, MO 64147

TRUE VALUE COMPANY (Continued) **1000631621**

Facility ID:	ST0001980
Region:	KC - Kansas City Regional Office
Lat/Long (dms):	Not reported
Spill Number:	980603-1330-EEG
Release Date:	06/03/1998
Release Type:	UNDERGROUND STORAGE TANK
Date Cleanup Started:	06/01/1998
Date Cleanup Finished:	09/11/2000
Expedited:	No
Expedited Date:	Not reported
Expenditures From The American Recovery and Reinvestment Act of 2009	No
Reopened Date:	Not reported
Number Of Remediation Monitoring Wells:	0
Active:	No
Date Of NFA Letter From DNR:	**2000-09-11 00:00:00**
Date Record Meets Archive Criteria:	Not reported
Remediation ID:	R006086
Rank:	Not reported
Emergeny Response Date:	06/03/1998
Emergency Cleanup Start:	06/03/1998
Referred To DGLS for Investigation:	Not reported
Contractor Performing Clean Up:	270
RBCA NFA:	No
Project Manager:	L
Next Correspondence/Update With Fac:	Not reported
Date Added:	06/09/1998
Date Record Edited:	09/11/2000
Person Adding Or Editing Record:	KOON, K
Facility Sent To State Archive:	Yes
Date Remediation Unit Closed The File:	Not reported
Site Affectd By Funding Level From PSTIF:	No
General Comments:	2/8/2000 JP approved work plan to gwm and further characterize extent of contamination. 9/11/2000 rev site characterization report and gw monitoring report (6/2/00). Analytical results indicate that contamination is not migrating and cannot be excavated due to buildings. Issued NoFA with stipulation that contamination should be cleaned up during any future development.

UST:

Facility ID:	ST0001980
Region:	KC
Easting:	367227.44
Northing:	4301860.54
Owner Of Geospatial Data:	Hazardous Waste Program
Geospatial Data Collected By:	VANCE, S
Date GIS Data Collected:	08/27/2013
Lat/Long:	38.84827 / -94.54586
Lat/Long (dms):	Not reported

Tanks:

Owner:

Owner ID:	OW01724
Owner Name:	COTTER & COMPANY
Owner Address:	2740 N CLYBOURN AVE
Owner City,St,Zip:	CHICAGO, IL 60614
Owner County Code:	Not reported

TRUE VALUE COMPANY (Continued) **1000631621**

Owner Phone:	9752700
Mail Was Not Deliverable:	No
Is Owner Active?:	No
Date Registration Received:	Not reported
Date Record Added:	1995-06-30 00:00:00
Date Record Edited:	Not reported
Name of Person Editing Record:	Not reported

Tank ID:	1
Tank Double Wall:	0
Tank Type:	Below Ground
Tank Status:	**Removed**
Meet 98 Update Requirements:	Not reported
Date Tank Installed:	Not reported
Tank Material:	Fiberglass
Code for Tank Material Manufacturer:	Not reported
Code for Tank Installer:	Not reported
Other Type Of Tank Material:	Not reported
Tank Internal Protection:	Not reported
Other Tank Internal Protection:	I Lining SW1856
Tank Internal Protection Date:	Not reported
Tank External Protection:	Not reported
Other Type Tank Extrn Protec:	Not reported
Tank External Protec Date:	Not reported
Date Tank Last Used:	05/02/1998
Date Tank Permanently Closed/ Removed:	06/04/1998
Dt Tk Exp Brought InUse/Internal Tracking:	Not reported
Tank Fees Waived:	No
Expedite Closure On Tank?:	No
Responsible Person Expediting Closure:	Not reported
Temporary Status Verified Date:	Not reported
Admin Fee 585:	Not reported
Date Administratively Closed:	Not reported
Date Record Added:	06/30/1995
Date Record Edited:	Not reported
Person Adding/Editing Record:	Not reported
Date Of NFA Letter:	09/14/2000
Is Tank Used For Emergency Generator:	No
Date Closure Notice Received:	04/27/1998
Date Of Aprroval Letter:	04/29/1998
Firm Closing Tank:	MH ENVIRONMENTAL INC
Date Closure Report Received:	08/17/1998
Registration End Date:	Not reported
LockOut Flag:	No
Comments:	Removed 2-10,000, 750, 300. NFA letter issued 9/14/2000 by K. Koon. JS Not reported

Tank Compartment:

Tanks Use:	False
Compartment No:	1
Tank Compartment PK:	4937
Tank PK:	4937
Case Number:	Not reported
Compartment Status:	Removed
Compartment Temp Verified Dt:	Not reported
Capacity:	10000
Substance:	Diesel

TRUE VALUE COMPANY (Continued) **1000631621**

Substance Other:	Not reported
Hazardous Substance:	Not reported
Mixture:	False
Date of Last Use:	1998-05-02 00:00:00
Pipe Installation Date:	Not reported
Pipe System:	Not reported
Pipe Material:	1
Pipe Material Other:	Not reported
Pipe Protection:	Not reported
Pipe Protection Date:	Not reported
Pipe Double Wall:	0
Spill Protection:	False

Owner:

Owner ID:	OW01724
Owner Name:	COTTER & COMPANY
Owner Address:	2740 N CLYBOURN AVE
Owner City,St,Zip:	CHICAGO, IL 60614
Owner County Code:	Not reported
Owner Phone:	9752700
Mail Was Not Deliverable:	No
Is Owner Active?:	No
Date Registration Received:	Not reported
Date Record Added:	1995-06-30 00:00:00
Date Record Edited:	Not reported
Name of Person Editing Record:	Not reported

Tank ID:	2
Tank Double Wall:	0
Tank Type:	Below Ground
Tank Status:	**Removed**
Meet 98 Update Requirements:	Not reported
Date Tank Installed:	Not reported
Tank Material:	Fiberglass
Code for Tank Material Manufacturer:	Not reported
Code for Tank Installer:	Not reported
Other Type Of Tank Material:	Not reported
Tank Internal Protection:	Not reported
Other Tank Internal Protection:	Not reported
Tank Internal Protection Date:	Not reported
Tank External Protection:	Not reported
Other Type Tank Extrn Protec:	Not reported
Tank External Protec Date:	Not reported
Date Tank Last Used:	05/02/1998
Date Tank Permanently Closed/ Removed:	06/04/1998
Dt Tk Exp Brought InUse/Internal Tracking:	Not reported
Tank Fees Waived:	No
Expedite Closure On Tank?:	No
Responsible Person Expediting Closure:	Not reported
Temporary Status Verified Date:	Not reported
Admin Fee 585:	Not reported
Date Administratively Closed:	Not reported
Date Record Added:	06/30/1995
Date Record Edited:	Not reported
Person Adding/Editing Record:	Not reported

TRUE VALUE COMPANY (Continued) **1000631621**

Date Of NFA Letter:	09/14/2000
Is Tank Used For Emergency Generator:	No
Date Closure Notice Received:	04/27/1998
Date Of Aprroval Letter:	04/29/1998
Firm Closing Tank:	MH ENVIRONMENTAL INC
Date Closure Report Received:	08/17/1998
Registration End Date:	Not reported
LockOut Flag:	No
Comments:	Removed 2-10,000, 750, 300. NFA letter issued 9/14/2000 by K. Koon. JS Not reported

Tank Compartment:

Tanks Use:	False
Compartment No:	1
Tank Compartment PK:	4938
Tank PK:	4938
Case Number:	Not reported
Compartment Status:	Removed
Compartment Temp Verified Dt:	Not reported
Capacity:	10000
Substance:	Diesel
Substance Other:	Not reported
Hazardous Substance:	Not reported
Mixture:	False
Date of Last Use:	1998-05-02 00:00:00
Pipe Installation Date:	Not reported
Pipe System:	Not reported
Pipe Material:	2
Pipe Material Other:	Not reported
Pipe Protection:	Not reported
Pipe Protection Date:	Not reported
Pipe Double Wall:	0
Spill Protection:	False

Owner:

Owner ID:	OW01724
Owner Name:	COTTER & COMPANY
Owner Address:	2740 N CLYBOURN AVE
Owner City,St,Zip:	CHICAGO, IL 60614
Owner County Code:	Not reported
Owner Phone:	9752700
Mail Was Not Deliverable:	No
Is Owner Active?:	No
Date Registration Received:	Not reported
Date Record Added:	1995-06-30 00:00:00
Date Record Edited:	Not reported
Name of Person Editing Record:	Not reported

Tank ID:	3
Tank Double Wall:	0
Tank Type:	Below Ground
Tank Status:	**Removed**
Meet 98 Update Requirements:	Not reported
Date Tank Installed:	Not reported
Tank Material:	Steel

TRUE VALUE COMPANY (Continued) **1000631621**

Code for Tank Material Manufacturer:	Not reported	
Code for Tank Installer:	Not reported	
Other Type Of Tank Material:	Not reported	
Tank Internal Protection:	Not reported	
Other Tank Internal Protection:	Not reported	
Tank Internal Protection Date:	Not reported	
Tank External Protection:	Not reported	
Other Type Tank Extrn Protec:	Not reported	
Tank External Protec Date:	Not reported	
Date Tank Last Used:	01/01/1991	
Date Tank Permanently Closed/ Removed:	06/04/1998	
Dt Tk Exp Brought InUse/Internal Tracking:		Not reported
Tank Fees Waived:	No	
Expedite Closure On Tank?:	No	
Responsible Person Expediting Closure:	Not reported	
Temporary Status Verified Date:	Not reported	
Admin Fee 585:	Not reported	
Date Administratively Closed:	Not reported	
Date Record Added:	06/30/1995	
Date Record Edited:	04/28/1998	
Person Adding/Editing Record:	N$PERRT	
Date Of NFA Letter:	09/14/2000	
Is Tank Used For Emergency Generator:	No	
Date Closure Notice Received:	04/27/1998	
Date Of Aprroval Letter:	04/29/1998	
Firm Closing Tank:	MH ENVIRONMENTAL INC	
Date Closure Report Received:	08/17/1998	
Registration End Date:	Not reported	
LockOut Flag:	No	
Comments:	Removed 2-10,000, 750, 300. NFA letter issued 9/14/2000 by K. Koon. JS	
	Not reported	

Tank Compartment:

Tanks Use:	False
Compartment No:	1
Tank Compartment PK:	4939
Tank PK:	4939
Case Number:	Not reported
Compartment Status:	Removed
Compartment Temp Verified Dt:	Not reported
Capacity:	750
Substance:	Other
Substance Other:	P.NEW OIL
Hazardous Substance:	Not reported
Mixture:	False
Date of Last Use:	1991-01-01 00:00:00
Pipe Installation Date:	Not reported
Pipe System:	Not reported
Pipe Material:	1
Pipe Material Other:	Not reported
Pipe Protection:	Not reported
Pipe Protection Date:	Not reported
Pipe Double Wall:	0
Spill Protection:	False

Owner:

TRUE VALUE COMPANY (Continued) **1000631621**

Owner ID:	OW01724
Owner Name:	COTTER & COMPANY
Owner Address:	2740 N CLYBOURN AVE
Owner City,St,Zip:	CHICAGO, IL 60614
Owner County Code:	Not reported
Owner Phone:	9752700
Mail Was Not Deliverable:	No
Is Owner Active?:	No
Date Registration Received:	Not reported
Date Record Added:	1995-06-30 00:00:00
Date Record Edited:	Not reported
Name of Person Editing Record:	Not reported

Tank ID:	4
Tank Double Wall:	0
Tank Type:	Below Ground
Tank Status:	**Removed**
Meet 98 Update Requirements:	Not reported
Date Tank Installed:	Not reported
Tank Material:	Steel
Code for Tank Material Manufacturer:	Not reported
Code for Tank Installer:	Not reported
Other Type Of Tank Material:	Not reported
Tank Internal Protection:	Not reported
Other Tank Internal Protection:	Not reported
Tank Internal Protection Date:	Not reported
Tank External Protection:	Not reported
Other Type Tank Extrn Protec:	Not reported
Tank External Protec Date:	Not reported
Date Tank Last Used:	01/01/1991
Date Tank Permanently Closed/ Removed:	06/04/1998
Dt Tk Exp Brought InUse/Internal Tracking:	Not reported
Tank Fees Waived:	No
Expedite Closure On Tank?:	No
Responsible Person Expediting Closure:	Not reported
Temporary Status Verified Date:	Not reported
Admin Fee 585:	Not reported
Date Administratively Closed:	Not reported
Date Record Added:	06/30/1995
Date Record Edited:	04/28/1998
Person Adding/Editing Record:	N$PERRT
Date Of NFA Letter:	09/14/2000
Is Tank Used For Emergency Generator:	No
Date Closure Notice Received:	04/27/1998
Date Of Aprroval Letter:	04/29/1998
Firm Closing Tank:	MH ENVIRONMENTAL INC
Date Closure Report Received:	08/17/1998
Registration End Date:	Not reported
LockOut Flag:	No
Comments:	Removed 2-10,000, 750, 300. NFA letter issued 9/14/2000 by K. Koon. JS
	Not reported

Tank Compartment:

Tanks Use:	False
Compartment No:	1
Tank Compartment PK:	4940
Tank PK:	4940

TRUE VALUE COMPANY (Continued) **1000631621**

Case Number:	Not reported
Compartment Status:	Removed
Compartment Temp Verified Dt:	Not reported
Capacity:	300
Substance:	Used Oil
Substance Other:	Not reported
Hazardous Substance:	Not reported
Mixture:	False
Date of Last Use:	1991-01-01 00:00:00
Pipe Installation Date:	Not reported
Pipe System:	4
Pipe Material:	1
Pipe Material Other:	Not reported
Pipe Protection:	Not reported
Pipe Protection Date:	Not reported
Pipe Double Wall:	0
Spill Protection:	False

Tank Aug 2011:

Facility Id:	ST0001980
Tank Id:	2
Site Usage:	Not reported
Risk Type:	Not reported
Soil Type:	Not reported
GW Flow:	Not reported
Offsite Impact:	Not reported
Free Product:	Not reported
Drinking Water:	Not reported
Closed Under:	Not reported
No Drinking Wells:	No
No Buildings:	No
Vapor Barrier:	0
St Louis Mo:	No
Special Well Area:	No
Surface Cap:	No
No Excavation:	No

Facility Id:	ST0001980
Tank Id:	3
Site Usage:	Not reported
Risk Type:	Not reported
Soil Type:	Not reported
GW Flow:	Not reported
Offsite Impact:	Not reported
Free Product:	Not reported
Drinking Water:	Not reported
Closed Under:	Not reported
No Drinking Wells:	No
No Buildings:	No
Vapor Barrier:	0
St Louis Mo:	No
Special Well Area:	No
Surface Cap:	No
No Excavation:	No

Facility Id:	ST0001980

TRUE VALUE COMPANY (Continued) **1000631621**

Tank Id:	4
Site Usage:	Not reported
Risk Type:	Not reported
Soil Type:	Not reported
GW Flow:	Not reported
Offsite Impact:	Not reported
Free Product:	Not reported
Drinking Water:	Not reported
Closed Under:	Not reported
No Drinking Wells:	No
No Buildings:	No
Vapor Barrier:	0
St Louis Mo:	No
Special Well Area:	No
Surface Cap:	No
No Excavation:	No

Facility Id:	ST0001980
Tank Id:	1
Site Usage:	Not reported
Risk Type:	Not reported
Soil Type:	Not reported
GW Flow:	Not reported
Offsite Impact:	Not reported
Free Product:	Not reported
Drinking Water:	Not reported
Closed Under:	Not reported
No Drinking Wells:	No
No Buildings:	No
Vapor Barrier:	0
St Louis Mo:	No
Special Well Area:	No
Surface Cap:	No
No Excavation:	No

SPILLS:

Name:	Not reported
Address:	14900 HIGHWAY 71
City,State,Zip:	KANSAS CITY, MO
Facility ID:	9806031330EEG
Spill Number:	9806031330EEG
Reported Date:	06/03/1998
Reported Time:	13:30:00
Regional Office:	KCRO
Latitude:	Not reported
Property Code:	8
Property Sub Category:	Not reported
Longitude:	Not reported
UTM Zone For GPS:	Not reported
Cause Sub Category:	4
Email:	False
Ongoing:	False
Is A Chemical Pickup Needed?:	False
Cause:	10
Contact Name:	Doug Goodman
Contact Phone #:	8163317000
Contact Id:	7820

TRUE VALUE COMPANY (Continued) **1000631621**

Organization Name:	Tru Server KC Facility
Organization Address1:	Not reported
Discovery Date:	06/02/1998
Organization Address2:	Not reported
Discovery Time:	Not reported
Organization City:	Not reported
Incident Date:	06/02/1998
Organization State:	Not reported
Incident Time:	Not reported
Organization Zip:	Not reported
GPS Code:	Not reported
Date Of Incident Search:	06/02/1998
UTM North:	Not reported
UTM East:	Not reported
Cause Description:	Leaking Tank System
Cause Sub Category:	Not reported
Report Origin:	69
Lead Agency:	Private - Responsible Party Contractor
Additional Information:	Spill Summary: CALLER REPORTS FINDING CONTAMINATION DURING THE REMOVAL OF UNDERGROUND STORAGE TANK'S. Response Summary: CALLER WILL COORDINATE A CLEAN UP WITH HWP/TANKS SECTION. Additional Information: UT - 0001980 NEW OIL - 1000 GALLON WASTE OIL - 500 GALLON
Entity Telephone:	8163317000
Property Code Description:	Distribution Facility
Property Sub Category:	Not reported
Description:	Not reported
Job Code:	Not reported

Cleanup Actions:

Spill Number:	9806031330EEG
Incident ID:	7820
Cleanup Action Code:	14
Cleanup Action Description:	Pending

Report Distribution:

Spill Number:	9806031330EEG
Incident ID:	7820
Agent Code:	13
Agency:	DNR - ERP - Leaking Underground ST Section

Count: 1 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
GRANDVIEW	U004248771	ROSE AUTO REPAIR	12630 US-71 FRONTAGE	64030	LUST, UST

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

Federal NPL site list

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: 01/30/2020
Date Data Arrived at EDR: 02/05/2020
Date Made Active in Reports: 02/14/2020
Number of Days to Update: 9

Source: EPA
Telephone: N/A
Last EDR Contact: 02/05/2020
Next Scheduled EDR Contact: 04/13/2020
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 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: 01/30/2020
Date Data Arrived at EDR: 02/05/2020
Date Made Active in Reports: 02/14/2020
Number of Days to Update: 9

Source: EPA
Telephone: N/A
Last EDR Contact: 02/05/2020
Next Scheduled EDR Contact: 04/13/2020
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

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: 01/30/2020
Date Data Arrived at EDR: 02/05/2020
Date Made Active in Reports: 02/14/2020
Number of Days to Update: 9

Source: EPA
Telephone: N/A
Last EDR Contact: 02/05/2020
Next Scheduled EDR Contact: 04/13/2020
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 04/03/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 04/05/2019
Next Scheduled EDR Contact: 04/13/2020
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 01/30/2020
Date Data Arrived at EDR: 02/05/2020
Date Made Active in Reports: 02/14/2020
Number of Days to Update: 9

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 02/05/2020
Next Scheduled EDR Contact: 04/27/2020
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 01/30/2020
Date Data Arrived at EDR: 02/05/2020
Date Made Active in Reports: 02/14/2020
Number of Days to Update: 9

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 02/05/2020
Next Scheduled EDR Contact: 04/27/2020
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/16/2019
Date Data Arrived at EDR: 12/16/2019
Date Made Active in Reports: 12/20/2019
Number of Days to Update: 4

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 12/16/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

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: 12/16/2019
Date Data Arrived at EDR: 12/16/2019
Date Made Active in Reports: 12/20/2019
Number of Days to Update: 4

Source: Environmental Protection Agency
Telephone: 913-551-7003
Last EDR Contact: 12/16/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Quarterly

Federal RCRA generators list

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: 12/16/2019
Date Data Arrived at EDR: 12/16/2019
Date Made Active in Reports: 12/20/2019
Number of Days to Update: 4

Source: Environmental Protection Agency
Telephone: 913-551-7003
Last EDR Contact: 12/16/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 12/16/2019
Date Data Arrived at EDR: 12/16/2019
Date Made Active in Reports: 12/20/2019
Number of Days to Update: 4

Source: Environmental Protection Agency
Telephone: 913-551-7003
Last EDR Contact: 12/16/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Quarterly

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

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/16/2019
Date Data Arrived at EDR: 12/16/2019
Date Made Active in Reports: 12/20/2019
Number of Days to Update: 4

Source: Environmental Protection Agency
Telephone: 913-551-7003
Last EDR Contact: 12/16/2019
Next Scheduled EDR Contact: 04/06/2020
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: 11/04/2019
Date Data Arrived at EDR: 11/13/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 76

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 02/10/2020
Next Scheduled EDR Contact: 05/25/2020
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 11/22/2019
Date Data Arrived at EDR: 11/22/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 67

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/22/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 11/22/2019
Date Data Arrived at EDR: 11/22/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 67

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/22/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Varies

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: 09/09/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 14

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 12/19/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

HWS DETAIL: Registry Annual Report

Each site is described in detail in this annual report and includeds the following information: a general description of the site; a summary of any significant environmental problems at and near the site; a summary of any serious health problems in the immediate vicinity of the site; the status of any testing, monitoring or remedial actions in progress or recommended by the department.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 02/28/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 75

Source: Department of Natural Resources
Telephone: 573-751-3176
Last EDR Contact: 11/27/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Annually

SHWS: Registry of Confirmed Abandoned or Uncontrolled Hazardous Waste Disposal Sites

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 09/24/2019
Date Data Arrived at EDR: 09/27/2019
Date Made Active in Reports: 11/08/2019
Number of Days to Update: 42

Source: Department of Natural Resources
Telephone: 573-751-1990
Last EDR Contact: 12/05/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Annually

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

SWF/LF: Solid Waste Facility List

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 09/10/2019
Date Data Arrived at EDR: 09/12/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 60

Source: Department of Natural Resources
Telephone: 573-751-5401
Last EDR Contact: 02/20/2020
Next Scheduled EDR Contact: 05/25/2020
Data Release Frequency: Varies

State and tribal leaking storage tank lists

LAST: Leaking Aboveground Storage Tanks

A listing of leaking aboveground storage tanks.

Date of Government Version: 09/04/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/08/2019
Number of Days to Update: 60

Source: Department of Natural Resources
Telephone: 573-751-6822
Last EDR Contact: 12/11/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Quarterly

LUST: Leaking Underground Storage Tanks

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: 09/04/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/08/2019
Number of Days to Update: 60

Source: Department of Natural Resources
Telephone: 573-751-0135
Last EDR Contact: 12/11/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Quarterly

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 10/10/2019
Date Data Arrived at EDR: 12/05/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 67

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
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: 10/03/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/14/2020
Number of Days to Update: 72

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
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: 04/08/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
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: 10/11/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 68

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
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.

Date of Government Version: 10/01/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 68

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
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: 10/02/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 68

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
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: 10/01/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 68
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

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

Date of Government Version: 10/15/2019
Date Data Arrived at EDR: 12/17/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 55
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 12/16/2019
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

State and tribal registered storage tank lists

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

Date of Government Version: 08/27/2019
Date Data Arrived at EDR: 08/28/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 75
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 01/21/2020
Next Scheduled EDR Contact: 04/20/2020
Data Release Frequency: Varies

UST: Petroleum Storage Tanks
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: 09/04/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 11/08/2019
Number of Days to Update: 60
Source: Department of Natural Resources
Telephone: 573-751-0135
Last EDR Contact: 12/11/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Quarterly

AST: Aboveground Petroleum Storage Tanks
Registered Aboveground Storage Tanks.

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 09/03/2019
Date Made Active in Reports: 11/08/2019
Number of Days to Update: 66
Source: Department of Agriculture
Telephone: 573-751-7062
Last EDR Contact: 12/02/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Semi-Annually

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: 04/08/2019
Date Data Arrived at EDR: 07/29/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 80
Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
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: 10/01/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 68

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
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: 10/11/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 68

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
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: 10/02/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 68

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
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: 10/11/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 68

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
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: 10/03/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/14/2020
Number of Days to Update: 72

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
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: 10/01/2019
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 68

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
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: 10/10/2019
Date Data Arrived at EDR: 12/05/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 67

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

AUL: Sites with Controls

Activity and use limitations include both engineering controls and institutional controls.

Date of Government Version: 10/03/2019
Date Data Arrived at EDR: 11/12/2019
Date Made Active in Reports: 01/17/2020
Number of Days to Update: 66

Source: Department of Natural Resources
Telephone: 573-751-3176
Last EDR Contact: 02/12/2020
Next Scheduled EDR Contact: 05/25/2020
Data Release Frequency: Quarterly

State and tribal voluntary cleanup sites

VCP: Sites Participating in the Voluntary Cleanup Program

Sites participating in the Voluntary Cleanup Program.

Date of Government Version: 10/03/2019
Date Data Arrived at EDR: 11/12/2019
Date Made Active in Reports: 01/17/2020
Number of Days to Update: 66

Source: Department of Natural Resources
Telephone: 573-526-8913
Last EDR Contact: 02/12/2020
Next Scheduled EDR Contact: 05/25/2020
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
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 12/17/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

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

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Site List

Brownfields are sites where redevelopment and reuse is hampered by known or suspected contamination with hazardous substances. While many brownfield sites are minimally contaminated, potential environmental liability can be a problem for owners, operators, prospective buyers and financial institutions. Because of the large number of these sites, their economic impact especially in heavily industrial areas is substantial.

Date of Government Version: 10/03/2019
Date Data Arrived at EDR: 11/12/2019
Date Made Active in Reports: 01/17/2020
Number of Days to Update: 66

Source: Department of Natural Resources
Telephone: 573-526-8913
Last EDR Contact: 02/12/2020
Next Scheduled EDR Contact: 05/25/2020
Data Release Frequency: Quarterly

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: 06/03/2019
Date Data Arrived at EDR: 06/04/2019
Date Made Active in Reports: 08/26/2019
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 12/16/2019
Next Scheduled EDR Contact: 03/30/2020
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: Solid Waste Recycling Facilities

A listing of recycling center locations.

Date of Government Version: 12/06/2019
Date Data Arrived at EDR: 12/09/2019
Date Made Active in Reports: 02/07/2020
Number of Days to Update: 60

Source: Department of Natural Resources
Telephone: 573-526-3944
Last EDR Contact: 02/05/2020
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Varies

HIST LF: Solid Waste Facility Database List

This database contains detailed information per site. It is no longer maintained by the Department of Natural Resources. For current information on solid waste facilities/landfills see the SWF/LF database.

Date of Government Version: 04/12/2005
Date Data Arrived at EDR: 07/19/2006
Date Made Active in Reports: 08/18/2006
Number of Days to Update: 30

Source: Department of Natural Resources
Telephone: 573-751-5401
Last EDR Contact: 01/12/2009
Next Scheduled EDR Contact: 04/13/2009
Data Release Frequency: No Update Planned

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: 01/27/2020
Next Scheduled EDR Contact: 05/11/2020
Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 01/17/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 01/31/2020
Next Scheduled EDR Contact: 05/11/2020
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: 06/11/2019
Date Data Arrived at EDR: 06/13/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 82

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/20/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: No Update Planned

CDL: Environmental Emergency Response System

Incidents reported to the Department of Natural Resources where drug lab materials were involved.

Date of Government Version: 08/01/2019
Date Data Arrived at EDR: 08/16/2019
Date Made Active in Reports: 08/19/2019
Number of Days to Update: 3

Source: Department of Natural Resources
Telephone: 573-751-3443
Last EDR Contact: 12/11/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Quarterly

DEL SHWS: Registry Sites Withdrawn or Deleted

A list of sites that were removed from the Registry or for which Registry action was suspended due to cleanup.

Date of Government Version: 09/24/2019
Date Data Arrived at EDR: 09/27/2019
Date Made Active in Reports: 11/08/2019
Number of Days to Update: 42

Source: Department of Natural Resources
Telephone: 573-522-3710
Last EDR Contact: 12/05/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Annually

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 06/11/2019
Date Data Arrived at EDR: 06/13/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 82

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/20/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Quarterly

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.

Date of Government Version: 01/30/2020
Date Data Arrived at EDR: 02/05/2020
Date Made Active in Reports: 02/14/2020
Number of Days to Update: 9

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 02/05/2020
Next Scheduled EDR Contact: 04/13/2020
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: 12/05/2019
Date Data Arrived at EDR: 12/06/2019
Date Made Active in Reports: 02/14/2020
Number of Days to Update: 70

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 12/06/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Quarterly

SPILLS: Environmental Response Tracking Database

Releases of hazardous substances reported to the department's Environmental Emergency Response (EER) section.

Date of Government Version: 08/01/2019
Date Data Arrived at EDR: 08/16/2019
Date Made Active in Reports: 08/19/2019
Number of Days to Update: 3

Source: Department of Natural Resources
Telephone: 573-526-3349
Last EDR Contact: 12/11/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/27/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

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: 12/16/2019
Date Data Arrived at EDR: 12/16/2019
Date Made Active in Reports: 12/20/2019
Number of Days to Update: 4

Source: Environmental Protection Agency
Telephone: 913-551-7003
Last EDR Contact: 12/16/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 11/12/2019
Date Data Arrived at EDR: 11/19/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 70

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 11/19/2019
Next Scheduled EDR Contact: 03/02/2020
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: 01/10/2020
Next Scheduled EDR Contact: 04/20/2020
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 01/09/2020
Next Scheduled EDR Contact: 04/20/2020
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 02/13/2020
Next Scheduled EDR Contact: 05/25/2020
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 09/23/2019
Date Data Arrived at EDR: 09/24/2019
Date Made Active in Reports: 12/20/2019
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 12/19/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 02/03/2020
Next Scheduled EDR Contact: 05/18/2020
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 02/07/2020
Next Scheduled EDR Contact: 05/18/2020
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/21/2017
Date Made Active in Reports: 01/05/2018
Number of Days to Update: 198

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 12/20/2019
Next Scheduled EDR Contact: 03/30/2020
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: 12/31/2017
Date Data Arrived at EDR: 11/16/2018
Date Made Active in Reports: 11/21/2019
Number of Days to Update: 370

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 02/05/2020
Next Scheduled EDR Contact: 03/02/2020
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: 05/01/2019
Date Data Arrived at EDR: 10/23/2019
Date Made Active in Reports: 01/15/2020
Number of Days to Update: 84

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 01/24/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 01/30/2020
Date Data Arrived at EDR: 02/05/2020
Date Made Active in Reports: 02/14/2020
Number of Days to Update: 9

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 02/05/2020
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 04/25/2019
Date Data Arrived at EDR: 05/02/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 01/21/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 01/30/2020
Date Data Arrived at EDR: 02/06/2020
Date Made Active in Reports: 02/14/2020
Number of Days to Update: 8

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 02/06/2020
Next Scheduled EDR Contact: 05/18/2020
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 10/09/2019
Date Data Arrived at EDR: 10/11/2019
Date Made Active in Reports: 12/20/2019
Number of Days to Update: 70

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 01/10/2020
Next Scheduled EDR Contact: 04/20/2020
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 01/06/2020
Next Scheduled EDR Contact: 04/20/2020
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

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

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 10/25/2019
Date Data Arrived at EDR: 10/25/2019
Date Made Active in Reports: 01/15/2020
Number of Days to Update: 82

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 01/21/2020
Next Scheduled EDR Contact: 05/04/2020
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 01/15/2020
Number of Days to Update: 42

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 11/25/2019
Next Scheduled EDR Contact: 03/16/2020
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
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 02/07/2020
Next Scheduled EDR Contact: 05/18/2020
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 12/20/2019
Next Scheduled EDR Contact: 04/13/2020
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 Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 10/01/2019
Date Data Arrived at EDR: 10/29/2019
Date Made Active in Reports: 01/15/2020
Number of Days to Update: 78
Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 01/28/2020
Next Scheduled EDR Contact: 05/11/2020
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees
Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 09/30/2019
Date Data Arrived at EDR: 10/09/2019
Date Made Active in Reports: 12/20/2019
Number of Days to Update: 72

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 01/06/2020
Next Scheduled EDR Contact: 04/20/2020
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 09/28/2017
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 12/16/2019
Next Scheduled EDR Contact: 04/06/2020
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 01/07/2020
Next Scheduled EDR Contact: 04/20/2020
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 01/31/2020
Next Scheduled EDR Contact: 05/18/2020
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 11/15/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 01/30/2020
Date Data Arrived at EDR: 02/05/2020
Date Made Active in Reports: 02/14/2020
Number of Days to Update: 9

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 02/05/2020
Next Scheduled EDR Contact: 04/13/2020
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 1931and 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
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
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.

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: 11/06/2019
Date Data Arrived at EDR: 11/25/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 64

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 11/25/2019
Next Scheduled EDR Contact: 03/09/2020
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: 12/03/2019
Date Data Arrived at EDR: 12/03/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 56

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 12/02/2019
Next Scheduled EDR Contact: 03/16/2020
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: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 11/22/2019
Next Scheduled EDR Contact: 03/09/2020
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: 11/22/2019
Next Scheduled EDR Contact: 03/09/2020
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 09/10/2019
Date Data Arrived at EDR: 09/10/2019
Date Made Active in Reports: 10/17/2019
Number of Days to Update: 37

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 03/23/2020
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: 08/12/2019
Date Data Arrived at EDR: 09/04/2019
Date Made Active in Reports: 12/03/2019
Number of Days to Update: 90

Source: EPA
Telephone: (913) 551-7003
Last EDR Contact: 12/04/2019
Next Scheduled EDR Contact: 03/16/2020
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: 10/06/2019
Date Data Arrived at EDR: 10/08/2019
Date Made Active in Reports: 01/02/2020
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 01/07/2020
Next Scheduled EDR Contact: 04/20/2020
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 01/17/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 74

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 01/13/2020
Next Scheduled EDR Contact: 04/27/2020
Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 07/26/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 71

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 11/20/2019
Next Scheduled EDR Contact: 03/09/2020
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: 11/18/2019
Date Data Arrived at EDR: 11/19/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 70

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 11/19/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Quarterly

AIRS: Permit Facility Listing

A listing of Air Pollution Control Program permits.

Date of Government Version: 10/01/2019
Date Data Arrived at EDR: 10/02/2019
Date Made Active in Reports: 12/04/2019
Number of Days to Update: 63

Source: Department of Natural Resources
Telephone: 573-751-4817
Last EDR Contact: 02/03/2020
Next Scheduled EDR Contact: 05/18/2020
Data Release Frequency: Varies

ASBESTOS: Asbestos Notification Listing

The department requires notification of demolitions and abatement projects involving regulated structures at least 10 working days before crews begin a project.

Date of Government Version: 10/07/2019
Date Data Arrived at EDR: 10/08/2019
Date Made Active in Reports: 12/05/2019
Number of Days to Update: 58

Source: Department of Natural Resources
Telephone: 573-751-4817
Last EDR Contact: 01/08/2020
Next Scheduled EDR Contact: 04/20/2020
Data Release Frequency: Varies

COAL ASH: Coal Ash Disposal Sites

A listing of power plants with coal ash ponds.

Date of Government Version: 01/03/2018
Date Data Arrived at EDR: 02/01/2018
Date Made Active in Reports: 03/22/2018
Number of Days to Update: 49

Source: Department of Natural Resources
Telephone: 573-526-1825
Last EDR Contact: 12/20/2019
Next Scheduled EDR Contact: 04/13/2020
Data Release Frequency: No Update Planned

DRYCLEANERS: Drycleaners in Missouri Listing

A listing of drycleaner facilities that are potentially eligible for reimbursement of department approved cleanup costs under the Drycleaning Environmental Response Trust Fund.

Date of Government Version: 11/30/2017
Date Data Arrived at EDR: 12/13/2017
Date Made Active in Reports: 01/18/2018
Number of Days to Update: 36

Source: Department of Natural Resources
Telephone: 573-526-8913
Last EDR Contact: 12/05/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Quarterly

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information.

Date of Government Version: 09/03/2019
Date Data Arrived at EDR: 09/10/2019
Date Made Active in Reports: 11/08/2019
Number of Days to Update: 59

Source: Department of Natural Resources
Telephone: 573-751-3553
Last EDR Contact: 12/12/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Annually

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: 11/21/2019
Date Data Arrived at EDR: 12/05/2019
Date Made Active in Reports: 02/06/2020
Number of Days to Update: 63

Source: Department of Natural Resources
Telephone: 573-751-5401
Last EDR Contact: 12/05/2019
Next Scheduled EDR Contact: 03/16/2020
Data Release Frequency: Quarterly

MINES: Industrial Mineral Mines Database

This data set contains names, locations and additional data for active Industrial Mineral Mines permitted with the Missouri Department of Natural Resources, Division of Environmental Quality, Land Reclamation Program. Industrial Mineral Mines permitted are rock quarries, clay pits, sand and gravel pits, or in-stream sand and gravel operations.

Date of Government Version: 01/18/2019
Date Data Arrived at EDR: 04/17/2019
Date Made Active in Reports: 05/15/2019
Number of Days to Update: 28

Source: Department of Natural Resources
Telephone: 573-751-4041
Last EDR Contact: 01/17/2020
Next Scheduled EDR Contact: 04/27/2020
Data Release Frequency: Varies

NPDES: Permitted Facility Listing

A listing of permitted facilities from the Water Pollution Branch.

Date of Government Version: 09/26/2019
Date Data Arrived at EDR: 09/27/2019
Date Made Active in Reports: 11/08/2019
Number of Days to Update: 42

Source: Department of Natural Resources
Telephone: 573-751-7023
Last EDR Contact: 12/20/2019
Next Scheduled EDR Contact: 04/13/2020
Data Release Frequency: Quarterly

RRC: Certified Hazardous Waste Resource Recovery Facilities

Facilities that take hazardous waste material, either from on-site or off-site, and make it re-usable.

Date of Government Version: 07/16/2019
Date Data Arrived at EDR: 10/22/2019
Date Made Active in Reports: 12/12/2019
Number of Days to Update: 51

Source: Department of Natural Resources
Telephone: 573-751-3176
Last EDR Contact: 12/05/2019
Next Scheduled EDR Contact: 03/23/2020
Data Release Frequency: Annually

SMARS: Site Management and Reporting System

SMARS currently houses information for Superfund, Federal Facility, Brownfields Voluntary Cleanup Program and Missouri's other state response programs.

Date of Government Version: 10/03/2019
Date Data Arrived at EDR: 10/29/2019
Date Made Active in Reports: 12/16/2019
Number of Days to Update: 48

Source: Department of Natural Resources
Telephone: 573-751-3043
Last EDR Contact: 01/28/2020
Next Scheduled EDR Contact: 05/11/2020
Data Release Frequency: Quarterly

UIC: Underground Injection Wells Database

A listing of underground injection well locations. The UIC Program is responsible for regulating the construction, operation, permitting, and closure of injection wells that place fluids underground for storage or disposal.

Date of Government Version: 06/30/2019
Date Data Arrived at EDR: 11/19/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 70

Source: Department of Natural Resources
Telephone: 573-368-2183
Last EDR Contact: 11/19/2019
Next Scheduled EDR Contact: 03/02/2020
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: 11/22/2019
Next Scheduled EDR Contact: 03/09/2020
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.

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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 Natural Resources in Missouri.

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 Natural Resources
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 Natural Resources in Missouri.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/15/2014
Number of Days to Update: 198

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

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 Department of Natural Resources in Missouri.

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

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

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: 05/14/2019
Date Data Arrived at EDR: 12/05/2019
Date Made Active in Reports: 02/03/2020
Number of Days to Update: 60

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 01/30/2020
Next Scheduled EDR Contact: 05/25/2020
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
Date Data Arrived at EDR: 05/01/2019
Date Made Active in Reports: 06/21/2019
Number of Days to Update: 51

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 01/31/2020
Next Scheduled EDR Contact: 05/11/2020
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 01/14/2020
Next Scheduled EDR Contact: 04/07/2020
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 10/02/2019
Date Made Active in Reports: 12/10/2019
Number of Days to Update: 69

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 11/14/2019
Next Scheduled EDR Contact: 03/02/2020
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 12/18/2019
Next Scheduled EDR Contact: 03/23/2020
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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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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: Licensed Child Care Facilities
Source: Department of Health & Senior Services
Telephone: 573-751-2450

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.

State Wetlands Data: National Wetland Inventory of Missouri
Source: Department of Natural Resources
Telephone: 573-751-5110

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

BOTTS ROAD GIBLIN PROPERTY
BOTTS ROAD/MISSOURI 150
GRANDVIEW, MO 64030

TARGET PROPERTY COORDINATES

Latitude (North):	38.863031 - 38° 51' 46.91''
Longitude (West):	94.536709 - 94° 32' 12.15''
Universal Tranverse Mercator:	Zone 15
UTM X (Meters):	366670.7
UTM Y (Meters):	4302491.5
Elevation:	954 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	6726087 BELTON, MO
Version Date:	2015
North Map:	6726091 GRANDVIEW, MO
Version Date:	2015

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).

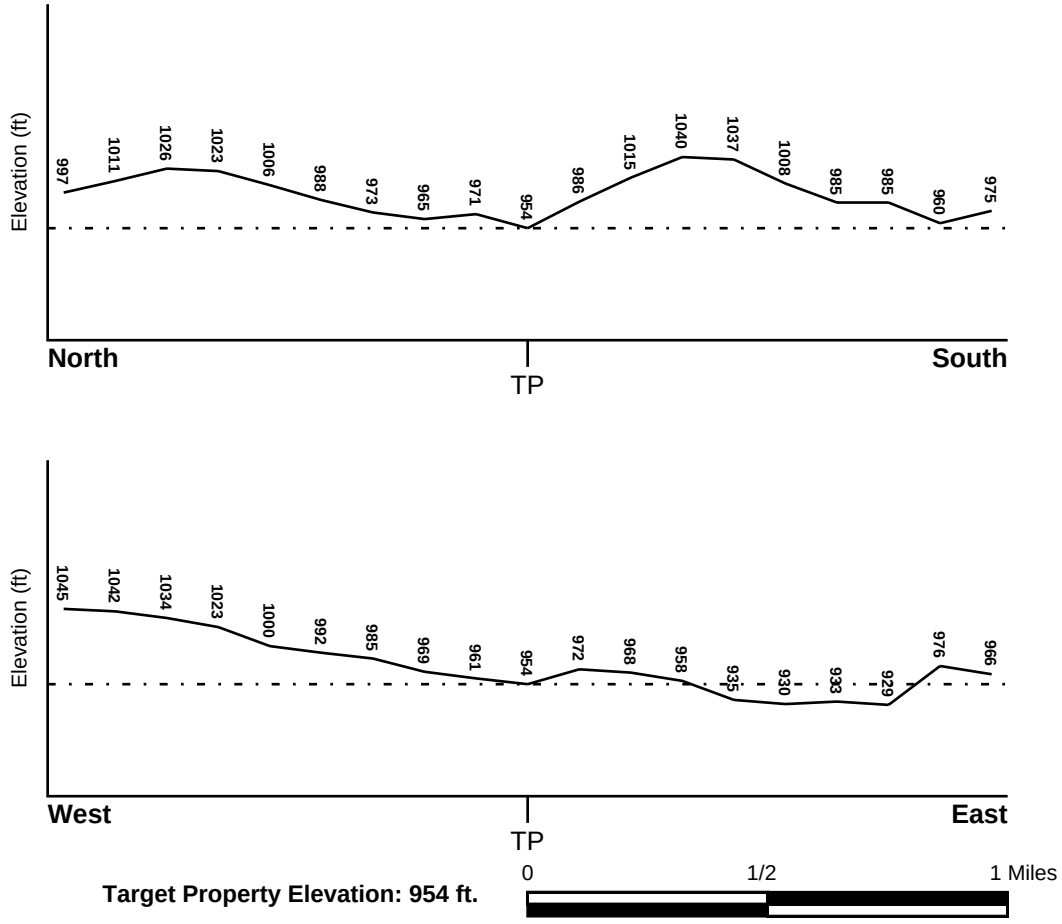
TOPOGRAPHIC INFORMATION

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 NNE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 954 ft.

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

Flood Plain Panel at Target Property	FEMA Source Type
29095C0385F	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
29095C0270F	FEMA FIRM Flood data
29095C0382F	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
BELTON	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.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
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

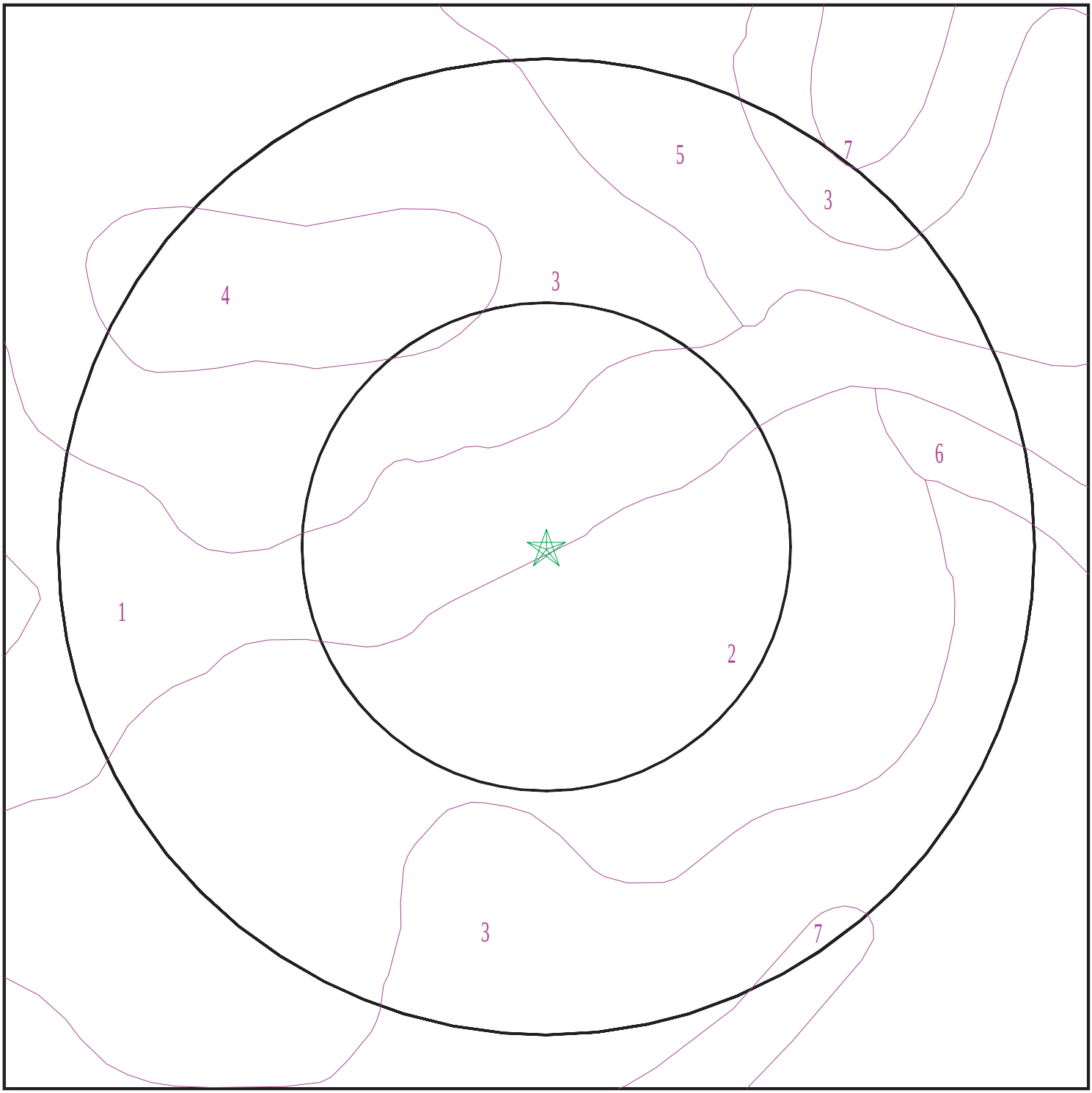
Era:	Paleozoic
System:	Pennsylvanian
Series:	Missourian Series
Code:	PP3 *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed 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 - 5974466.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	Botts Road Giblin Property	CLIENT:	Olsson
ADDRESS:	Botts Road/Missouri 150 Grandview MO 64030	CONTACT:	Rachael Reis
		INQUIRY #:	5974466.2s
LAT/LONG:	38.863031 / 94.536709	DATE:	February 18, 2020 10:53 am

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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: Kennebec

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 122 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	18 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 7.3 Min: 6.1
2	18 inches	59 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 7.3 Min: 6.1

Soil Map ID: 2

Soil Component Name: Sampsel

Soil Surface Texture: silty clay 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: Poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 23 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 7.8 Min: 5.6
2	5 inches	59 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 7.8 Min: 5.6

Soil Map ID: 3

Soil Component Name: Greenton

Soil Surface Texture: silty clay 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: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	16 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 7.8 Min: 6.6
2	16 inches	25 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 7.8 Min: 6.6
3	25 inches	59 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 7.8 Min: 6.6

Soil Map ID: 4

Soil Component Name: Sharpsburg

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	12 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 6.5 Min: 6.1
2	12 inches	20 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 6.5 Min: 6.1
3	20 inches	35 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 6.5 Min: 6.1
4	35 inches	46 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 6.5 Min: 6.1
5	46 inches	59 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 6.5 Min: 6.1

Soil Map ID: 5

Soil Component Name: Sampsel

Soil Surface Texture: silty clay 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: Poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 23 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 7.8 Min: 5.6
2	7 inches	59 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 7.8 Min: 5.6

Soil Map ID: 6

Soil Component Name: Snead

Soil Surface Texture: flaggy silty clay 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: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 76 inches

Depth to Watertable Min: > 76 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches	flaggy silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0.11 Min: 0	Max: Min:

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	11 inches	31 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0.11 Min: 0	Max: Min:
3	31 inches	40 inches	bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0.11 Min: 0	Max: Min:

Soil Map ID: 7

Soil Component Name: Macksburg

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse 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: > 92 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	16 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 6.5 Min: 5.6

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	16 inches	42 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 6.5 Min: 5.6
3	42 inches	53 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 6.5 Min: 5.6
4	53 inches	59 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 6.5 Min: 5.6

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

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	USGS40000696617	1/2 - 1 Mile SSE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

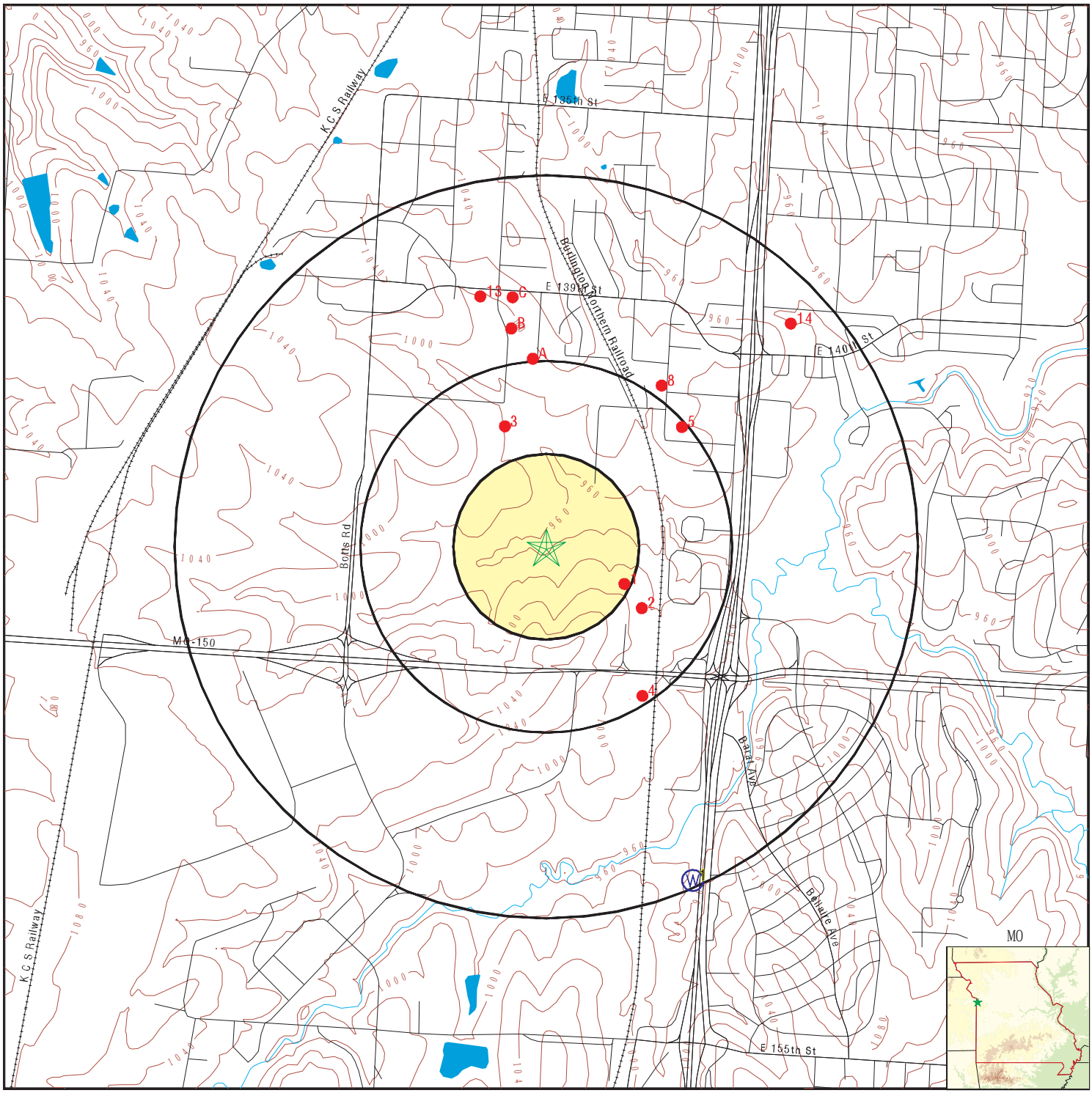
MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	MOOG60000006311	1/8 - 1/4 Mile ESE
2	MOOG60000006309	1/4 - 1/2 Mile ESE
3	MOOG60000004468	1/4 - 1/2 Mile NNW
4	MOOG60000004484	1/4 - 1/2 Mile SSE
5	MOOG60000006295	1/4 - 1/2 Mile NE
A6	MOOG60000005958	1/2 - 1 Mile North
A7	MOOG60000005957	1/2 - 1 Mile North
8	MOOG60000005775	1/2 - 1 Mile NE
B9	MOOG60000005956	1/2 - 1 Mile North
B10	MOOG60000005744	1/2 - 1 Mile North
C11	MOOG60000005760	1/2 - 1 Mile North
C12	MOOG60000005762	1/2 - 1 Mile North
13	MOOG60000005761	1/2 - 1 Mile NNW
14	MOOG60000005792	1/2 - 1 Mile NE

PHYSICAL SETTING SOURCE MAP - 5974466.2s



- 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
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- Oil, gas or related wells

SITE NAME:	Botts Road Giblin Property	CLIENT:	Olsson
ADDRESS:	Botts Road/Missouri 150 Grandview MO 64030	CONTACT:	Rachael Reis
		INQUIRY #:	5974466.2s
LAT/LONG:	38.863031 / 94.536709	DATE:	February 18, 2020 10:53 am

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
1 **SSE** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000696617**

Organization ID:	USGS-MO	Organization Name:	USGS Missouri Water Science Center
Monitor Location:	T47N R33W 35	Type:	Well
Description:	Not Reported	HUC:	10300101
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Other aquifers	Formation Type:	Labette Shale
Aquifer Type:	Confined multiple aquifer	Construction Date:	Not Reported
Well Depth:	433	Well Depth Units:	ft
Well Hole Depth:	433	Well Hole Depth Units:	ft

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

1
ESE **OIL_GAS** **MOOG60000006311**
1/8 - 1/4 Mile

API:	095-21488	Operator:	BARBARA A GIBLIN REVOKABLE TRUST
Lease:	SAINT BARBARA	Well Name:	3
Well Type:	Oil	Well Status:	Active Well
Current Permit Date:	09-MAY-14	Spud Date:	29-MAY-14
Elevation:	978	Total Depth:	800
Plug Back Depth:	Not Reported	Directionally Drilled:	Not Reported
Measured Vertical Depth:	Not Reported	Top Perf Depth:	Not Reported
Bottom Perf Depth:	Not Reported	Max Approved PSI:	Not Reported
SPL Log:	0	1st Production Date:	Not Reported
Hours Tested:	Not Reported	Test-Oil Produced:	Not Reported
Oil Gravity:	Not Reported	Test-Gas Produced:	Not Reported
Test-Water Produced:	Not Reported		
Well Status Comments:	Not Reported		
Comments:	Plugged back to 506.95 feet.		

2
ESE **OIL_GAS** **MOOG60000006309**
1/4 - 1/2 Mile

API:	095-21461	Operator:	BARBARA A GIBLIN REVOKABLE TRUST
Lease:	SAINT BARBARA	Well Name:	1
Well Type:	Oil	Well Status:	Active Well
Current Permit Date:	30-SEP-13	Spud Date:	02-DEC-13
Elevation:	985	Total Depth:	0
Plug Back Depth:	Not Reported	Directionally Drilled:	Not Reported
Measured Vertical Depth:	Not Reported	Top Perf Depth:	Not Reported
Bottom Perf Depth:	Not Reported	Max Approved PSI:	Not Reported
SPL Log:	0	1st Production Date:	Not Reported
Hours Tested:	Not Reported	Test-Oil Produced:	Not Reported
Oil Gravity:	Not Reported	Test-Gas Produced:	Not Reported
Test-Water Produced:	Not Reported		
Well Status Comments:	Not Reported		
Comments:	Not Reported		

3
NNW **OIL_GAS** **MOOG60000004468**
1/4 - 1/2 Mile

API:	095-00816	Operator:	KNOCHE
Lease:	CRUTCHER, E. W.	Well Name:	Not Reported
Well Type:	Dry Hole	Well Status:	Abandoned
Current Permit Date:	30-DEC-99	Spud Date:	30-DEC-99
Elevation:	988	Total Depth:	475
Plug Back Depth:	Not Reported	Directionally Drilled:	Not Reported
Measured Vertical Depth:	Not Reported	Top Perf Depth:	Not Reported
Bottom Perf Depth:	Not Reported	Max Approved PSI:	Not Reported
SPL Log:	0	1st Production Date:	Not Reported
Hours Tested:	Not Reported	Test-Oil Produced:	Not Reported
Oil Gravity:	Not Reported	Test-Gas Produced:	Not Reported
Test-Water Produced:	Not Reported		

Well Status Comments:	Not Reported
Comments:	DRY

4
SSE **OIL_GAS** **MOOG60000004484**
1/4 - 1/2 Mile

API:	095-00832	Operator:	BROWNING
Lease:	FEE	Well Name:	Not Reported
Well Type:	Dry Hole	Well Status:	Abandoned
Current Permit Date:	30-DEC-99	Spud Date:	30-DEC-99
Elevation:	989	Total Depth:	370
Plug Back Depth:	Not Reported	Directionally Drilled:	Not Reported
Measured Vertical Depth:	Not Reported	Top Perf Depth:	Not Reported
Bottom Perf Depth:	Not Reported	Max Approved PSI:	Not Reported
SPL Log:	0	1st Production Date:	Not Reported
Hours Tested:	Not Reported	Test-Oil Produced:	Not Reported
Oil Gravity:	Not Reported	Test-Gas Produced:	500
Test-Water Produced:	Not Reported		
Well Status Comments:	Not Reported		
Comments:	DRY		

5
NE **OIL_GAS** **MOOG60000006295**
1/4 - 1/2 Mile

API:	095-21425	Operator:	MCCLUNG, PETER
Lease:	MCCLUNG, PETER	Well Name:	1
Well Type:	Gas(Private Use)	Well Status:	Under Construction
Current Permit Date:	06-OCT-11	Spud Date:	30-DEC-99
Elevation:	990	Total Depth:	0
Plug Back Depth:	Not Reported	Directionally Drilled:	Not Reported
Measured Vertical Depth:	Not Reported	Top Perf Depth:	Not Reported
Bottom Perf Depth:	Not Reported	Max Approved PSI:	Not Reported
SPL Log:	0	1st Production Date:	Not Reported
Hours Tested:	Not Reported	Test-Oil Produced:	Not Reported
Oil Gravity:	Not Reported	Test-Gas Produced:	Not Reported
Test-Water Produced:	Not Reported		
Well Status Comments:	Not Reported		
Comments:	Not Reported		

A6
North **OIL_GAS** **MOOG60000005958**
1/2 - 1 Mile

API:	095-20721	Operator:	REYNOLDS EXPLORATION CO.
Lease:	CENTURY ENT., INC.	Well Name:	11
Well Type:	Dry Hole	Well Status:	Plugged - Approved
Current Permit Date:	14-SEP-83	Spud Date:	30-DEC-99
Elevation:	995	Total Depth:	568
Plug Back Depth:	Not Reported	Directionally Drilled:	Not Reported
Measured Vertical Depth:	Not Reported	Top Perf Depth:	Not Reported
Bottom Perf Depth:	Not Reported	Max Approved PSI:	Not Reported

SPL Log:	0	1st Production Date:	Not Reported
Hours Tested:	Not Reported	Test-Oil Produced:	Not Reported
Oil Gravity:	Not Reported	Test-Gas Produced:	Not Reported
Test-Water Produced:	Not Reported		
Well Status Comments:	Not Reported		
Comments:	Not Reported		

A7
North
1/2 - 1 Mile

OIL_GAS **MOOG60000005957**

API:	095-20720	Operator:	REYNOLDS EXPLORATION CO.
Lease:	CENTURY ENT., INC.	Well Name:	10
Well Type:	Dry Hole	Well Status:	Plugged - Approved
Current Permit Date:	14-SEP-83	Spud Date:	30-DEC-99
Elevation:	995	Total Depth:	569
Plug Back Depth:	Not Reported	Directionally Drilled:	Not Reported
Measured Vertical Depth:	Not Reported	Top Perf Depth:	Not Reported
Bottom Perf Depth:	Not Reported	Max Approved PSI:	Not Reported
SPL Log:	0	1st Production Date:	Not Reported
Hours Tested:	Not Reported	Test-Oil Produced:	Not Reported
Oil Gravity:	Not Reported	Test-Gas Produced:	Not Reported
Test-Water Produced:	Not Reported		
Well Status Comments:	Not Reported		
Comments:	Not Reported		

8
NE
1/2 - 1 Mile

OIL_GAS **MOOG60000005775**

API:	095-20429	Operator:	BYOUS OIL CO.
Lease:	BYOUS OIL CO.	Well Name:	1
Well Type:	Oil	Well Status:	Plugged - Approved
Current Permit Date:	09-DEC-81	Spud Date:	30-DEC-99
Elevation:	995	Total Depth:	534
Plug Back Depth:	Not Reported	Directionally Drilled:	Not Reported
Measured Vertical Depth:	Not Reported	Top Perf Depth:	Not Reported
Bottom Perf Depth:	Not Reported	Max Approved PSI:	Not Reported
SPL Log:	0	1st Production Date:	Not Reported
Hours Tested:	Not Reported	Test-Oil Produced:	Not Reported
Oil Gravity:	Not Reported	Test-Gas Produced:	Not Reported
Test-Water Produced:	Not Reported		
Well Status Comments:	Not Reported		
Comments:	Not Reported		

B9
North
1/2 - 1 Mile

OIL_GAS **MOOG60000005956**

API:	095-20719	Operator:	CENTURY ENTERPRISES, INC.
Lease:	CENTURY	Well Name:	7
Well Type:	Oil	Well Status:	Plugged - Approved
Current Permit Date:	14-SEP-83	Spud Date:	13-OCT-83

Elevation:	995	Total Depth:	580
Plug Back Depth:	Not Reported	Directionally Drilled:	Not Reported
Measured Vertical Depth:	Not Reported	Top Perf Depth:	460
Bottom Perf Depth:	524	Max Approved PSI:	Not Reported
SPL Log:	0	1st Production Date:	Not Reported
Hours Tested:	24	Test-Oil Produced:	9
Oil Gravity:	23	Test-Gas Produced:	Not Reported
Test-Water Produced:	Not Reported		
Well Status Comments:	Not Reported		
Comments:	Not Reported		

B10
North
1/2 - 1 Mile

OIL_GAS **MOOG60000005744**

API:	095-20390	Operator:	CENTURY ENTERPRISES, INC.
Lease:	CENTURY	Well Name:	1
Well Type:	Oil	Well Status:	Plugged - Approved
Current Permit Date:	28-SEP-81	Spud Date:	28-SEP-81
Elevation:	1000	Total Depth:	635
Plug Back Depth:	635	Directionally Drilled:	Not Reported
Measured Vertical Depth:	Not Reported	Top Perf Depth:	464
Bottom Perf Depth:	470	Max Approved PSI:	Not Reported
SPL Log:	0	1st Production Date:	Not Reported
Hours Tested:	24	Test-Oil Produced:	2.5
Oil Gravity:	19.55	Test-Gas Produced:	Not Reported
Test-Water Produced:	Not Reported		
Well Status Comments:	Not Reported		
Comments:	Not Reported		

C11
North
1/2 - 1 Mile

OIL_GAS **MOOG60000005760**

API:	095-20409	Operator:	CENTURY ENTERPRISES, INC.
Lease:	CENTURY	Well Name:	2
Well Type:	Oil	Well Status:	Plugged - Approved
Current Permit Date:	20-NOV-81	Spud Date:	25-NOV-81
Elevation:	1010	Total Depth:	620
Plug Back Depth:	620	Directionally Drilled:	Not Reported
Measured Vertical Depth:	Not Reported	Top Perf Depth:	537
Bottom Perf Depth:	544	Max Approved PSI:	Not Reported
SPL Log:	0	1st Production Date:	Not Reported
Hours Tested:	24	Test-Oil Produced:	1.5
Oil Gravity:	19.55	Test-Gas Produced:	Not Reported
Test-Water Produced:	Not Reported		
Well Status Comments:	Not Reported		
Comments:	Not Reported		

Map ID
Direction
Distance

Database EDR ID Number

C12
North
1/2 - 1 Mile

OIL_GAS **MOOG60000005762**

API:	095-20411	Operator:	CENTURY ENTERPRISES, INC.
Lease:	CENTURY	Well Name:	4
Well Type:	Oil	Well Status:	Plugged - Approved
Current Permit Date:	20-NOV-81	Spud Date:	30-NOV-81
Elevation:	1000	Total Depth:	600
Plug Back Depth:	578	Directionally Drilled:	Not Reported
Measured Vertical Depth:	Not Reported	Top Perf Depth:	524
Bottom Perf Depth:	533	Max Approved PSI:	Not Reported
SPL Log:	0	1st Production Date:	Not Reported
Hours Tested:	24	Test-Oil Produced:	1
Oil Gravity:	Not Reported	Test-Gas Produced:	Not Reported
Test-Water Produced:	Not Reported		
Well Status Comments:	Not Reported		
Comments:	Not Reported		

13
NNW
1/2 - 1 Mile

OIL_GAS **MOOG60000005761**

API:	095-20410	Operator:	CENTURY ENTERPRISES, INC.
Lease:	CENTURY	Well Name:	5
Well Type:	Oil	Well Status:	Plugged - Approved
Current Permit Date:	20-NOV-81	Spud Date:	01-DEC-82
Elevation:	996	Total Depth:	590
Plug Back Depth:	590	Directionally Drilled:	Not Reported
Measured Vertical Depth:	Not Reported	Top Perf Depth:	520
Bottom Perf Depth:	530	Max Approved PSI:	Not Reported
SPL Log:	0	1st Production Date:	Not Reported
Hours Tested:	24	Test-Oil Produced:	0.5
Oil Gravity:	19.55	Test-Gas Produced:	Not Reported
Test-Water Produced:	Not Reported		
Well Status Comments:	Not Reported		
Comments:	Not Reported		

14
NE
1/2 - 1 Mile

OIL_GAS **MOOG60000005792**

API:	095-20456	Operator:	HOME SAVINGS ASSOC.
Lease:	FEE	Well Name:	6
Well Type:	Dry Hole	Well Status:	Plugged - Approved
Current Permit Date:	04-JAN-82	Spud Date:	17-DEC-81
Elevation:	952	Total Depth:	660
Plug Back Depth:	Not Reported	Directionally Drilled:	Not Reported
Measured Vertical Depth:	Not Reported	Top Perf Depth:	Not Reported
Bottom Perf Depth:	Not Reported	Max Approved PSI:	Not Reported
SPL Log:	0	1st Production Date:	Not Reported
Hours Tested:	Not Reported	Test-Oil Produced:	Not Reported
Oil Gravity:	Not Reported	Test-Gas Produced:	Not Reported
Test-Water Produced:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well Status Comments: Not Reported
Comments: Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: MO Radon

Radon Test Results

Zipcode	Test Date	Result
64030	02/20/09	4.3
64030	02/01/08	7.7
64030	02/08/08	0.6
64030	02/09/09	1.1
64030	03/23/09	2.2
64030	02/25/08	0.6
64030	03/06/08	1.9
64030	05/29/08	????
64030	06/07/08	1.3
64030	06/07/08	2.4
64030	06/13/08	0.6
64030	08/29/08	????
64030	06/16/08	3.9
64030	06/20/08	1.2
64030	06/21/08	0.7
64030	11/04/08	1.4

Federal EPA Radon Zone for JACKSON County: 1

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 64030

Number of sites tested: 11

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.550 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	2.045 pCi/L	91%	9%	0%

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.

State Wetlands Data: National Wetland Inventory of Missouri
Source: Department of Natural Resources
Telephone: 573-751-5110

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} 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

Missouri Public Drinking Water Wells
Source: Department of Natural Resources
Telephone: 573-526-5448

Missouri Geologic Well Log Database
Source: Department of Natural Resources
Telephone: 573-526-5448

OTHER STATE DATABASE INFORMATION

Oil and Gas Well Database
Source: Department of Natural Resources
Telephone: 573-368-2143

RADON

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.

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

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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APPENDIX E

Reconnaissance Photographs



Photo No. 1	Photo Dir. N

Description: View looking north from the west-central portion of the Property.



Photo No. 2	Photo Dir. NE

Description: View looking northeast from the west-central portion of the Property.



Photo No. 3	Photo Dir. S

Description: View looking south from the west-central portion of the Property.



Photo No. 4	Photo Dir. SE

Description: View looking southeast from the west-central portion of the Property.



Photo No. 5	Photo Dir.

Description: ASTs associated with the two oil wells on the Property.



Photo No. 6	Photo Dir. SE

Description: Trash pile located near the southeast corner of the Property.



Photo No. 7	Photo Dir. E

Description: Oil well located in the southeast corner of the Property.



Photo No. 8	Photo Dir. S

Description: Oil well located in the southeast quadrant of the Property.



Photo No. 9	Photo Dir. N

Description: View looking north from the east-central portion of the Property.



Photo No. 10	Photo Dir. E

Description: View looking east from the east-central portion of the Property.

APPENDIX F

Environmental Professional Qualifications



RACHAEL REIS

Environmental Scientist

EXPERIENCE SUMMARY

As a passion driven environmentalist, Rachael shares her perspective and insight on projects that impact communities. Her ability to analyze sites, provide recommendations, and solutions that cause a positive lasting impact within a community—makes her daily tasks, lifelong gratifying rewards.

Rachael provides clients with the tools necessary to complete projects within their communities—helping them grow or redevelop and influence residents' lives in environmentally conscious ways. Using her project knowhow, experience, and insight, she conducts phase I and II environmental site assessments (ESAs), site remediation, National Environmental Policy Act (NEPA) studies, wetland delineations, and endangered species habitat restoration and permitting services.

Many of the projects Rachael is involved in she serves as the Project Manager and Scientist, and her knowledge and communication capabilities span from working alongside public and private clients. She is relied upon by clients and Olsson for her advice because everyone understands that she is eager to make all parties involved succeed—a trait that is highly encouraging when approaching a project.

EDUCATION

- BA, Environmental Studies, University of Missouri at Kansas City

CERTIFICATIONS/TRAINING

- Certified Wetland Delineator
- HAZWOPER Certification
- National Highway Institute (NHI) Introduction to NEPA and Transportation Decision Making Training
- National Highway Institute (NHI) Integrating Freight in the Transportation Planning Process
- Union Pacific Rail Road Safety
- BNSF Rail Road Safety

OLSSON EXPERIENCE

- 2012 to Present

OVERALL EXPERIENCE

- 2012 to Present

olsson

RACHAEL REIS

Environmental Scientist

COMMERCIAL

- City of Kansas City, ESAs for Midwest Motors Brownfields Site; Kansas City, MO
- Hunt Midwest, Hunt Midwest Hook Farms South Development Plan Phase I and II ESA; Lee's Summit, MO
- TranSpec Leasing Inc, TranSpec Underground Storage Tank Removal, Phase I and II ESA; Kansas City, MO
- Trammel Crow Company, Trammell Crow KCI Logistics Centre V, Phase I and II ESA; Kansas City, MO
- McDonalds USA LLC, McDonalds Phase I AND II ESAs; Various Locations, KS and MO
- Price Brothers, ESA for Bluhawk; Overland Park, KS
- Blue Beacon International, Phase I ESA and Due Diligence Assessments for Blue Beacon Green Lantern Convenience Store & Truck Wash; Various Locations, MO
- Brinshore Development LLC, Phase I ESA for Brinshore Neff Printing; Kansas City, MO
- Gateway Developers LLC, Phase I ESA for Mission Gateway Mall; Mission, KS
- Green Lantern Car Wash, LLC, Phase I ESA for Green Lantern Locations; Various Locations, MO and KS
- Hammerford Development Company, Phase I ESA for Corbin Park Pad Sites 3 & 3A; Overland Park, KS
- Merrill Companies, LLC, Prairiefire Development; Overland Park, Kansas
- NorthPoint Development, Phase I Assessment for 1321 Fairfax Trafficway; Kansas City, KS
- Polsinelli, Environmental Site Investigation for Woodside Limited; Westwood, KS
- Schlitterbahn Waterparks and Resorts, Phase I ESA for SVVI Schlitterbahn Vacation Village; Kansas City, KS
- KC Hotel Loews, KC Convention Center Hotel, Site Remediation; Kansas City, MO

EDUCATION

- Drumm Farm Center for Children, Environmental Services for Campus Expansion; Independence, MO
- University of Kansas Hospital Authority, Phase I ESA for Campus Expansion; Kansas City, KS
- Barstow School, Former Hy-Vee Soil Vapor Sampling Investigation; Leawood, KS

HEALTHCARE

- Mercy Health Systems, Mercy 2300 S Jackson ESA; Joplin, MO
- HWA, Environmental Site Assessment for St. Luke's Ambulatory Clinic; Blue Springs, MO
- JE Dunn, Environmental Site Assessment for Stigler Rural Community Hospital; Stigler, OK
- Mercy Health Systems, NEPA Compliance & Permitting for New Clinics; Lebanon & Carthage, MO

INDUSTRIAL

- ARCO National Construction, ARCO Grundfos Industrial Building ESA; Lenexa, KS
- NorthPoint, Environmental Site Assessment for Northland Industrial Park; North Kansas City, MO

RACHAEL REIS

Environmental Scientist

LOCAL

- City of Coffeyville, Environmental Investigations for Brownfields Assessment; Coffeyville, KS
- City of Kansas City, On-Call Environmental Services; Kansas City, MO
- City of Blue Springs MO, Blue Springs MO, Phase I ESA; Blue Springs, MO

RENEWABLE ENERGY

- Black Hills Energy, Phase I ESA; Siloam Springs, AR

RESIDENTIAL

- Summit Custom Homes, Clayton Properties West Village Phase I and II ESA; Lee's Summit, MO
- Price Brothers Construction, Price Bros Bluhawk Apartments Phase I and II ESA; Overland Park, KS
- AG Spanos Construction Inc., Environmental Assessment for Shoal Creek II Village, 5th Plat; Liberty, MO
- Briarcliff, Environmental Site Assessment for Riverfront Apartments; Kansas City, MO
- Housing Authority of Kansas City MO, KC Housing Authority Transaction Screenings; Statewide, MO

STATE

- Kansas Department of Health & Environment, Phase I and II ESA; Chanute, KS
- Kansas Department of Health & Environment Phase I and II ESA; Fort Scott, KS

SPORTS & RECREATION

- Kibo Holdings, Kibo Holdings Ozark Campground Rezoning, Phase I and II ESA; Branson, MO

WASTEWATER

- Jackson County, On-Call Geotechnical and Testing, Medical Examiner Office Wastewater Sampling; Kansas City, MO

PHASE I ENVIRONMENTAL SITE ASSESSMENT

Prepared for:

Platform Ventures

4220 Shawnee Mission Parkway, Suite 200B

Fairway, Kansas 66205

February 2022

Olsson Project No. 021-02810

olsson®

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
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
NGVD ..... National Geodetic Vertical Datum
NonGens..... No longer generates hazardous waste
NOV..... Notice of violation
NPL..... National priorities list
NRCS ..... U.S. Natural Resource Conservation Service
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
TSCA..... Toxic Substances Control Act
USGS ..... U.S. Geological Survey
UST ..... Underground storage tank
VCP ..... Voluntary cleanup program
VSQG……Very small quantity generator

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SUMMARY

Olsson, Inc. (Olsson) was retained by Platform Ventures to perform a Phase I Environmental Site Assessment (ESA) for the Ideker and Axtell Site located at Colorado Avenue and 150 Highway in Kansas City, Jackson County, Missouri (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). A summary of the ESA findings based on a review of historical records, regulatory databases, site reconnaissance, and interviews is as follows:

- There was one recognized environmental condition (REC) identified. The current use of the Property as a recycled asphalt plant has the potential for on-site contamination.

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

1. INTRODUCTION

The Property consists of mostly vacant and industrial, and the vicinity is generally characterized as agricultural and light industrial. 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		
Property Legal Description	Section 26, Township 47 North, Range 33 West	
Potable Water Provider	City of Kansas City	
Sanitary Sewer Provider	City of Kansas City	
Land Area	Approximately 32.3 acres	
PHYSICAL SETTING INFORMATION FOR SITE AND SURROUNDING AREA		**SOURCE**
Topography *(Refer to Appendix A for an excerpt of the USGS Topographic Map)*		
Property Elevation	1,024 feet above sea level	USGS 7.5-Minute Topographic Map, Belton, MO, 2015
Groundwater Flow Direction *	North-Northeast	
Surface Runoff/ Topographic Gradient	North-Northeast	

* 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 Platform Ventures (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 not considered recognized environmental conditions.

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 CRECs.

A controlled recognized environmental condition (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 March 5, 2021. 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 February 10, 2022, the date when the database report was generated. Platform Ventures may rely on the findings and conclusions of this report through the viability date of August 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 Mr. Corey Walker, 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 not provided by the User; however, the User stated that 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 aware of commonly known or reasonably ascertainable information within the local community about the Property that may be material to RECs in connection with the Property. Mr. Walker is aware that a portion of the Property is used as an asphalt plant and there might be an oil well on the Property. Mr. Walker is not aware of any spills or chemical releases at the Property, or of any environmental cleanups that have taken place at 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.

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 topographic maps: 1887, 1893, 1934, 1953/1957, 1970, 1975, 1995, and 2015;
- Historical aerial photographs: 1940, 1948, 1952, 1957, 1969, 1970, 1979, 1981, 1985, 1990, 1997, 2006, 2009, 2012, and 2016.
- Sanborn maps: there was no coverage identified for the Property.

The Property has been used as agricultural land since at least 1940. A road is present on the eastern portion of the Property on the 1979 aerial photograph. By 1985, a tower is shown near the south-central portion of the Property. The tower is no longer present on the 2006 aerial, only the concrete pad. By 2016, an asphalt plant is present on the western portion of the Property.

East

The adjacent property to the east was vacant from at least 1887 through 1934. By 1934, the San Francisco Railroad was present adjoining the Property boundary. By 1975, the topographic map depicts a large structure east of the railroad. In 1981, the aerial imagery depicts this structure as a possible distribution center. This area remains similar through 2009, when the highway located further east was redeveloped. This area remains similar through at least 2016.

South

A gravel road is present south of the Property, followed by vacant land since at least 1940. This area appears to be farmed in the 1957 aerial photograph. A portion of the Richards-Gebaur Air Force Base is shown southwest of the Property on the 1969 aerial photograph. This area remains similar through at least 2006, when a small concrete pad is present south of the Property. The 2009 aerial photograph depicts a new road development in this area. By 2016, a large warehouse and a distribution facility are present south of the Property.

West

According to the aerial imagery, the adjacent property to the west has been vacant since at least 1887 and used as agricultural land from at least 1940 through 2016.

North

The adjacent area to the north has been vacant farmland since at least 1887 through 2016. The 2016 aerial photograph depicts a small concrete pad and gravel road adjoining the Property.

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
Federal Databases		
NPL	1.0	0
Delisted NPL	0.5	0
CERCLIS/SEMS	0.5	1
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		1
RCRA-VSQG		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 (SHWS)	1.0	0
State/Tribal SEMS	0.5	0
State/Tribal Licensed Landfill List	0.5	0
LUST	0.5	1
LAST	Property/Adjoining Properties	0
USTs		1
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 (LQGs) 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 (VSQGs) facilities generate less than 100 kg of hazardous waste or 1 kg of acutely hazardous waste per month. 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 Missouri Department of Natural Resources (MDNR). 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

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

4.1.10 State/Tribal Storage Tanks

MDNR 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 MDNR maintains a listing of facilities assigned with State institutional controls.

4.1.12 State/Tribal Voluntary Cleanup Sites

MDNR 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

MDNR 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 four database listings within the prescribed ASTM E1527-13 search radii. The following sections discuss database listings pertaining to the Property and in the immediate vicinity.

4.2.1 Property Database Listings

The Property was identified in the database report as the following:

Ideker Inc. (South Plant), 14650 Colorado Avenue

This facility was identified within the US AIRS, FINDS, and ECHO databases. The US AIRS database files detail this facility as being registered within the Air Program and undergoing air monitoring. The FINDS and ECHO databases are in connection with the US AIRS database.

Ideker, Inc. – 150 HWY Plant, 5600 E HWY 150

The Ideker, Inc. facility was also identified in the FINDS and ECHO database for having a National Pollutant Dishcarge Elimination System (NPDES) permit for discharging pollutants.

Grandview Radio BEA AX 2

This facility is not associated with an address but was part of the former Richards-Gebaur Air Force Base operation that was located south of the Property and was identified in the Formerly Used Defense Sites (FUDS) database, a supplemental database. This radio tower was located (according to historical aerial imagery) on the Property. The database does not provide any details regarding this radio tower other than its FUDS ID number. The tower is no longer present and does not appear to represent a REC for the Property.

4.2.2 Vicinity Database Listings

The following sections summarize the upgradient off-site database report listings in order of closest proximity within approximately 1/3 mile of the Property. The remaining database listings were not considered RECs for the Property based on their distance, regulatory status, and/or location relative to the Property.

Frontier Bag Inc, 5720 E. Hwy 150

This facility is located approximately 979 feet southeast and upgradient from the Property and was identified in the RCRA-SQG and US AIRS databases. The database files detail this site as being a small quantity generator of hazardous waste. Several violations were reported; however, all achieved compliance. This site was also registered in the Air Compliance Monitoring program in February 1995 with yearly monitoring through 2014. Olsson does not believe this represents a REC for the Property.

5700 Highway 150

This facility is located approximately 985 feet east and cross-gradient from the Property and was identified in the SPILLS. The database files detail a transformer release occurring in October 2000. The responsible party provided cleanup of this release. The site is closed.

Richards-Gebaur Air

This facility is located approximately 1,982 feet southwest and cross-gradient from the Property. This closed facility is part of the DOD database. The database files do not provide any information regarding the site, other than being a Department of Defense site.

True Value Company, 14900 S HWY 71

This facility is located approximately 1,184 feet southeast and upgradient from the Property and was identified in the RCRA-SQG, LUST, UST, and SPILLS databases. The database files detail this site as receiving several violations related to hazardous waste generation. Compliance was achieved. A site characterization took place for this site in 2000 to determine the extent of contamination from a UST release. Analytical results indicated that contamination had not migrated and could not be excavated due to buildings present. A No Further Action letter with stipulation that contamination should be cleaned up during any future development. Based on the status of this site and the distance from the Property, this site does not represent a REC for the Property.

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 one 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 vapor encroachment screening 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 Missouri Department of Natural Resources

The MDNR regulatory database (E-START) was accessed on February 14, 2022, to research environmental permits, citations, or violations for the Property. Review of the MDNR records did not identify listings of record for the Property or adjoining properties.

5. PROPERTY AND ADJOINING PROPERTY RECONNAISSANCE

The following sections describe the Property and adjoining property features noted during Olsson's site reconnaissance on February 10, 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 and throughout the Property. 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 be used as an asphalt recycling plant. The Property is accessed via vehicle off Missouri Highway 150.

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
Site Operations, Processes, and Equipment	Emergency generators	
	Elevators	
	Air compressors	
	Hydraulic lifts	
	Dry cleaning	
	Photo processing	
	Other processes or equipment	
Aboveground Petroleum or Chemical Storage	Aboveground storage tanks (AST)	X
	Drums, barrels and/or containers ≥ 5 gallons	

Category	Item or Feature	Observed
Underground Petroleum or Chemical Storage, or Waste and Drainage Collection Systems	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	
Equipment Containing Potential Polychlorinated Biphenyls (PCBs)	Pad or pole-mounted electrical transformers and/or capacitors	
	Other equipment	
Potential Release Sources and/or Indicators	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	X
	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)	
Other Notable Property Features	Pits, ponds, or lagoons	
	Pipeline markers	
	Wells – irrigation, dry, monitoring, or abandoned	
	Other features	

5.4.1 Aboveground Petroleum or Chemical Storage

Aboveground Storage Tanks (AST)

Two aboveground diesel storage tanks were observed on the south and central portion of the Property. These aboveground storage tanks are used for on-site truck and construction equipment. The Property reconnaissance did not observe any leaks or staining on or below the equipment.

Three drums were observed that contained oil. One drum containing antifreeze was also observed.

Three small ASTs containing oil were observed near the center of the Property.

Large black ASTs near the center of the Property containing AC Oil that is mixed with dry asphalt were present. Currently, this oil is in a solid state; however, when in use, it heats to approximately 360 degrees to create recycled asphalt. These tanks were located within secondary containment and no leaking or staining was present.

Based on observations, these ASTs do not represent a REC for the Property.

5.4.2 Potential Release Sources and/or Indicators

Dumped Trash, Construction or Demolition Debris, Fill Dirt, Artificial Fill, or Disposal Areas

Several piles of crushed asphalt and dry rock were stored on the Property. This material is used to mix with the AC Oil to create recycled asphalt. Currently, several piles were from a demolished highway. These piles have the potential to contain contaminants, therefore represent a REC.

5.5 Adjoining Property Reconnaissance

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

Direction	Description
North	The area north of the Property is vacant farmland.
East	Railroad tracks adjoin the eastern property boundary. To the east of the railroad tracks is Frontier Bag Inc. (5720 E State Route 150) and Stonehenge Outdoor (5620 E State Route 150).
South	Missouri Highway 150 adjoins the southern property boundary. To the south of Missouri 150 is Walmart Distribution Center #7183 (14900 Andrews Rd.) and Neovia (14900 Andrews Rd.).
West	The area west of the Property is vacant farmland. Botts Road adjoins the farmland to the west. To the west of Botts Road is the National Nuclear Security Administration Kansas City National Security Campus (14520 Botts Rd.).

6. INTERVIEWS

Mr. Corey Walker, User representative, completed the User Questionnaire and is referred to in Section 2.

7. EVALUATION AND CONCLUSIONS

The following paragraphs summarize the findings, opinions, and conclusions of the ESA. Olsson has evaluated the provided information for significant data gaps that, if present, are discussed in their respective report sections.

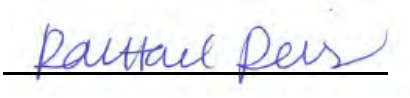
Conclusions

Olsson has performed this ESA in conformance with the scope and limitations of ASTM Practice E1527-13 for the Property. Any exceptions to, or deletions from, this practice are described as applicable this report. This assessment has revealed a REC related to the processes of the facility located on the Property. Olsson recommends further investigation prior to redeveloping the Property.

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.

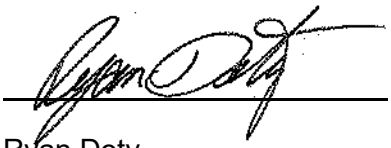


February 14, 2022

Rachael Reis

Date

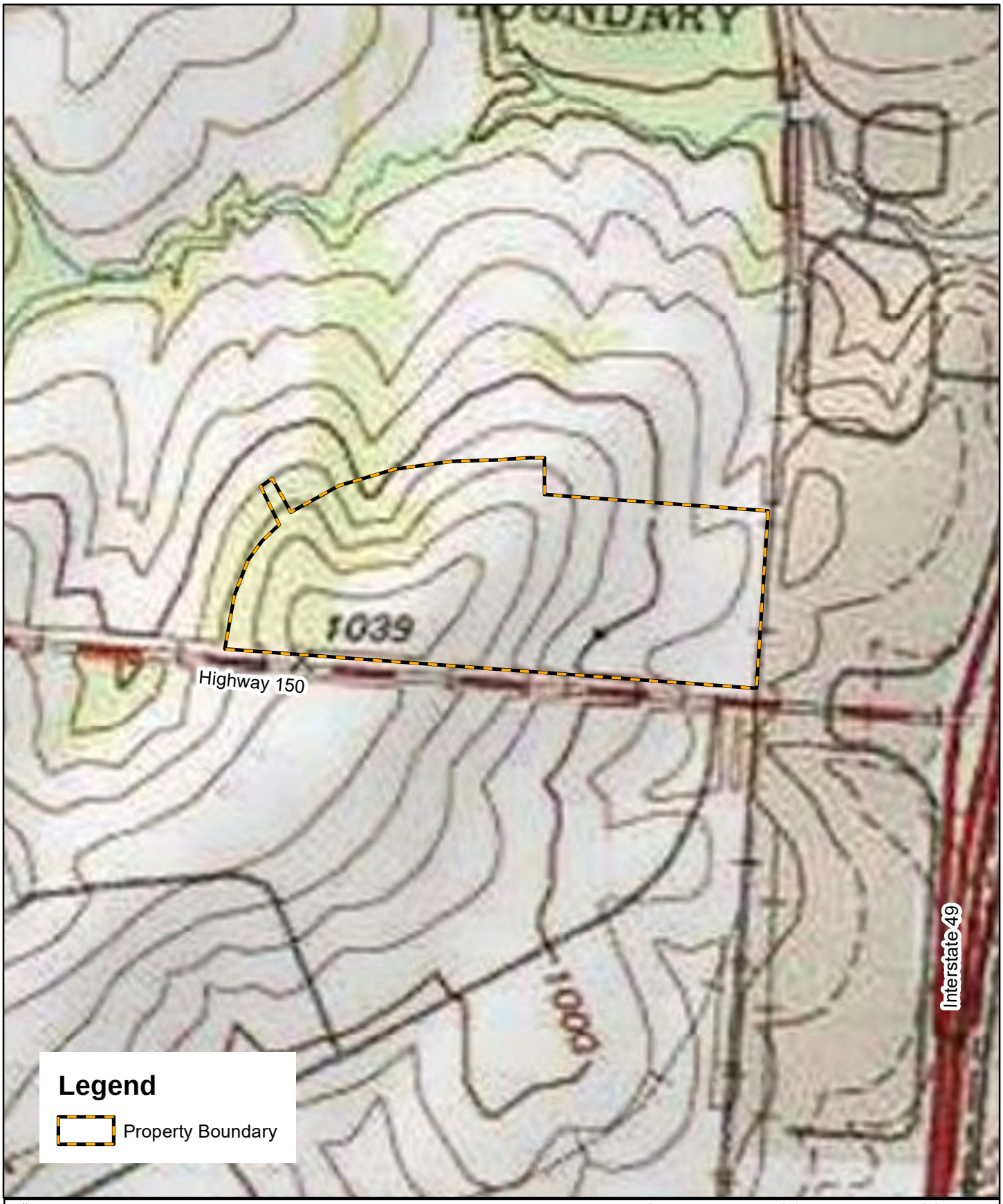
Environmental Professional



Ryan Doty

Reviewer

APPENDIX A
Figures



Project Number: 021-02810	**Topographic Map** Ideker and Axtell Colorado Ave	DISCLAIMER : This Geographic Information System (GIS) and its components are designed as a source of reference for answering inquiries, for planning and for modeling. GIS is not intended, nor does it replace legal description information in the chain of title and other information contained in official government records such as the County Clerk and Recorders office or the courts. In addition, the representations of locations in this GIS cannot be substituted for actual legal surveys.	olsson	Figure
Drawn By: RR			7301 West 133rd Street Suite 200 Overland Park, Kansas 66213 P: 913.381.1170 F: 913.381.1174	
Revision Date: 2/15/2022	Kansas City, Missouri			**2**

F:\2021\02501-03000\021-02810\40-Design\Reports\NRPL\Phase I ESA\GIS\MXD\Ex2_USGS_Topographic.mxd



N

0 0.1 0.2 Miles

Project Number: 021-02810	**Aerial Map** Ideker and Axtell Colorado Ave	DISCLAIMER : This Geographic Information System (GIS) and its components are designed as a source of reference for answering inquiries, for planning and for modeling. GIS is not intended, nor does it replace legal description information in the chain of title and other information contained in official government records such as the County Clerk and Recorders office or the courts. In addition, the representations of locations in this GIS cannot be substituted for actual legal surveys.	olsson 7301 West 133rd Street Suite 200 Overland Park, Kansas 66213 P: 913.381.1170 F: 913.381.1174	Figure
Drawn By: RR				
Revision Date: 2/15/2022	Kansas City, Missouri			**3**

F:\2021\02501-03000\021-02810\40-Design\Reports\NRPL\Phase I ESA\GIS\MXD\Ex3_aerial.mxd

APPENDIX B

User Questionnaire

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

Property Name: Ideker & Axtell Phase I
Property Address: ~~MEB~~ HWY 150 & Colorado Ave

Introduction

In order to qualify for one of the Landowner Liability Protections (LLPs)187 offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "Brownfields Amendments"),188 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.

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? Asphalt Plant, possible oil well

(b) Do you know of specific chemicals that are present or were once present at the property? possible oil well

(c) Do you know of spills or other chemical releases that have taken place at the property? No

(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.

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

Acquiring property

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

confirmed image in email

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

13. List any special Phase I ESA terms and conditions, and all parties who will be relying on the report.

N/A

14. Property contact name and information (telephone, email, etc.).

[redacted] [redacted] Paul Ideker paul@ideker.net

This questionnaire was completed by:

Corey Walker
Name

3/9/21
Date

2.10.2022 per CW

SVP
Title

Platform Ventures
Company Name

Buyer
Relationship to the property

816-918-3578
Telephone

APPENDIX C

Historical Information

Ideker & Axtell Site

Missouri Highway 150/Colorado Avenue

Grandview, MO 64030

Inquiry Number: 6420317.4

March 29, 2021

EDR Historical Topo Map Report

with QuadMatch™

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

EDR Historical Topo Map Report

03/29/21

Site Name:

Ideker & Axtell Site
Missouri Highway 150/Colorad
Grandview, MO 64030
EDR Inquiry # 6420317.4

Client Name:

Olsson
7301 West 133rd Street
Overland Park, KS 66213
Contact: Rachael Reis

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. EDRs 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:

P.O.# 021-02810
Project: Ideker & Axtell Site

Coordinates:

Latitude:	38.8596 38° 51' 35" North
Longitude:	-94.536169 -94° 32' 10" West
UTM Zone:	Zone 15 North
UTM X Meters:	366714.51
UTM Y Meters:	4302317.63
Elevation:	1022.72' above sea level

Maps Provided:

2015
1995
1975
1970
1953, 1957
1934
1893
1887

Disclaimer - Copyright and Trademark Notice

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

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Topo Sheet Key

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

2015 Source Sheets



Grandview
2015
7.5-minute, 24000



Belton
2015
7.5-minute, 24000

1995 Source Sheets



Belton
1995
7.5-minute, 24000
Aerial Photo Revised 1991



Grandview
1995
7.5-minute, 24000
Aerial Photo Revised 1991

1975 Source Sheets



Belton
1975
7.5-minute, 24000
Aerial Photo Revised 1975



Grandview
1975
7.5-minute, 24000
Aerial Photo Revised 1975

1970 Source Sheets



Belton
1970
7.5-minute, 24000
Aerial Photo Revised 1970



Grandview
1970
7.5-minute, 24000
Aerial Photo Revised 1970

Topo Sheet Key

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

1953, 1957 Source Sheets



Belton
1953
7.5-minute, 24000
Aerial Photo Revised 1948



Grandview
1957
7.5-minute, 24000
Aerial Photo Revised 1955

1934 Source Sheets



Belton
1934
7.5-minute, 24000

Grandview
1934
7.5-minute, 24000

1893 Source Sheets



Olathe
1893
30-minute, 125000

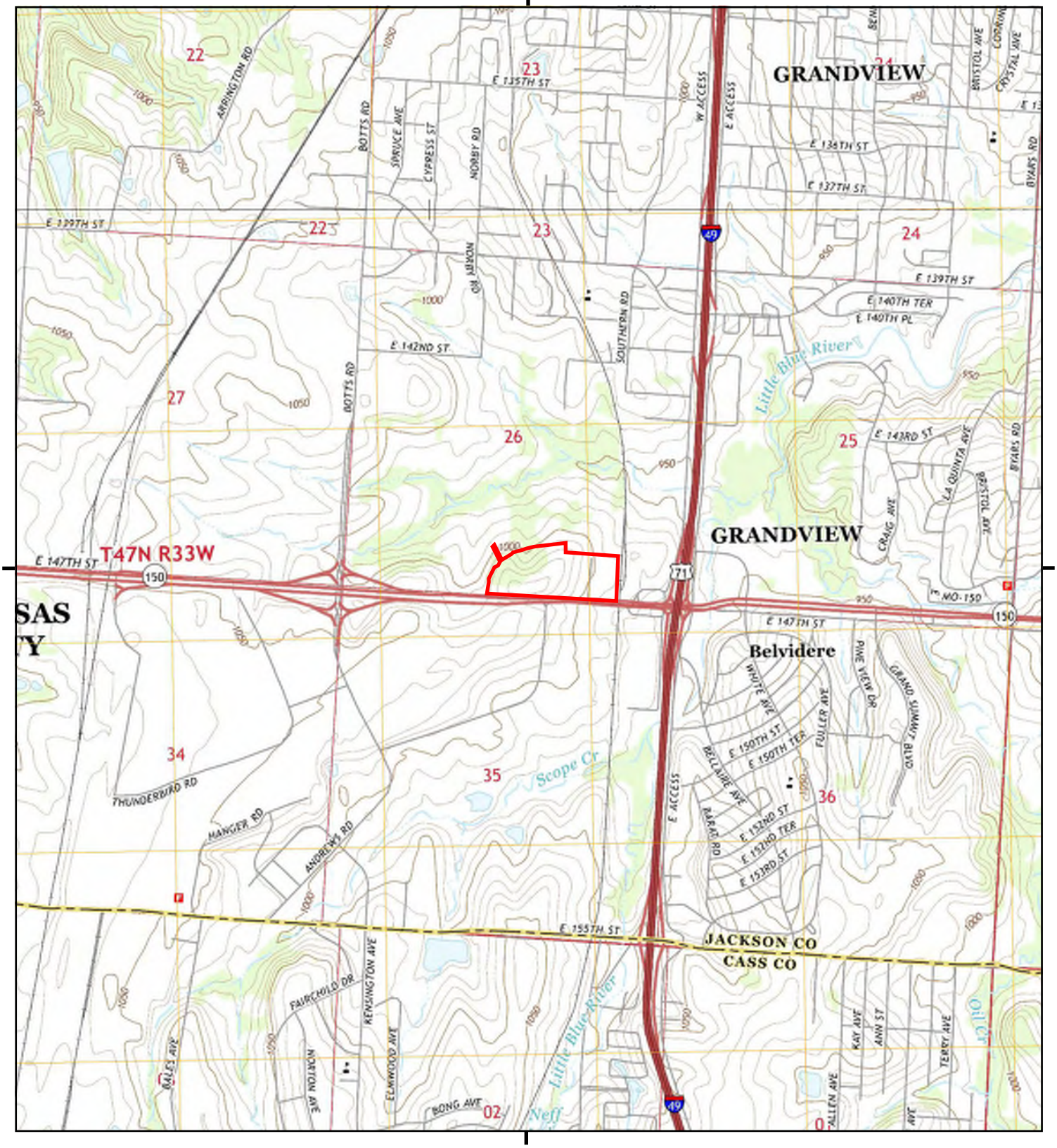
1887 Source Sheets



Olathe
1887
30-minute, 125000

Historical Topo Map

2015



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

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W E
SW S SE

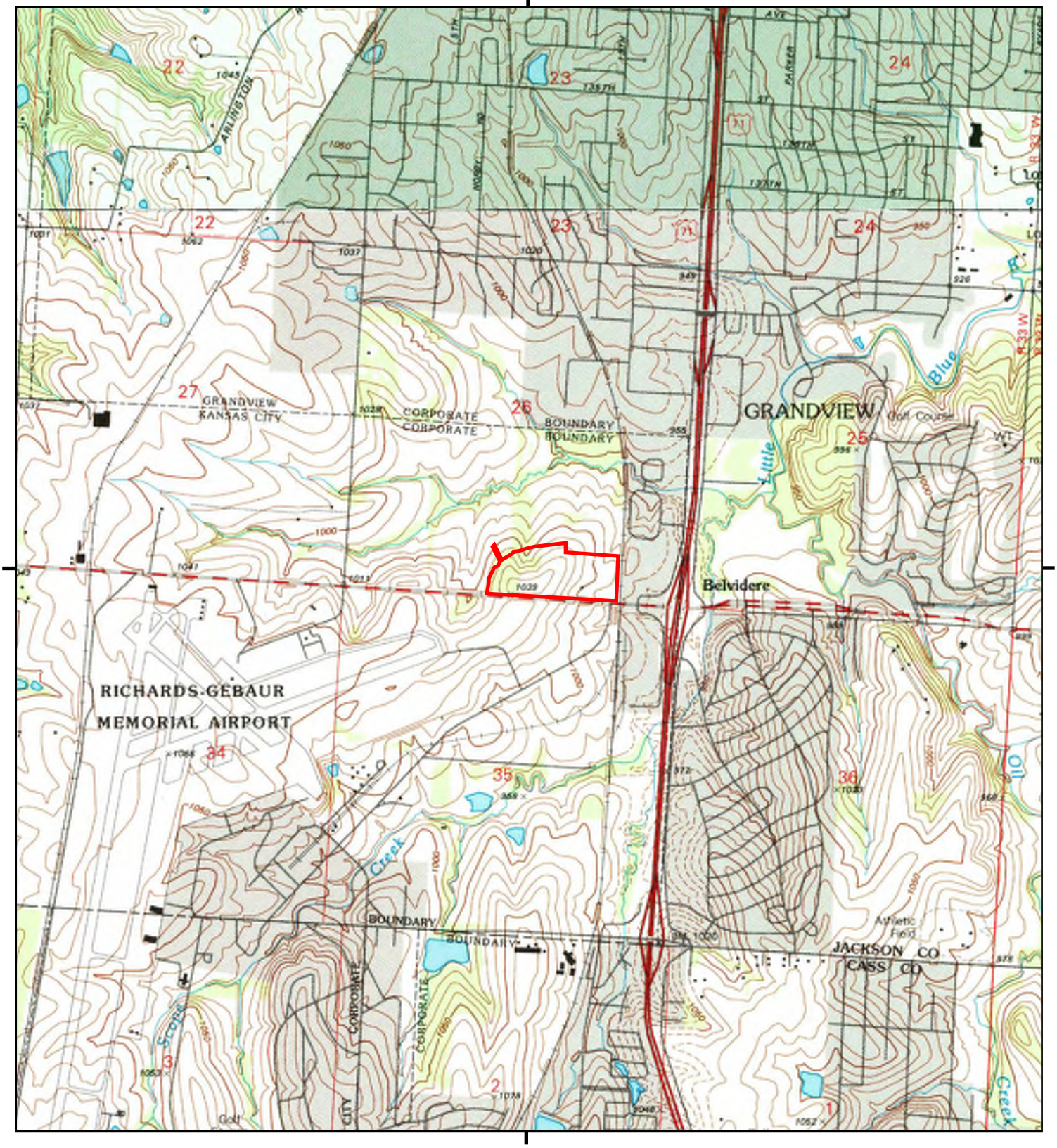
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N, Grandview, 2015, 7.5-minute

SITE NAME: Ideker & Axtell Site
ADDRESS: Missouri Highway 150/Colorado Avenue
Grandview, MO 64030
CLIENT: Olsson

N

Historical Topo Map

1995



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

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SW S SE

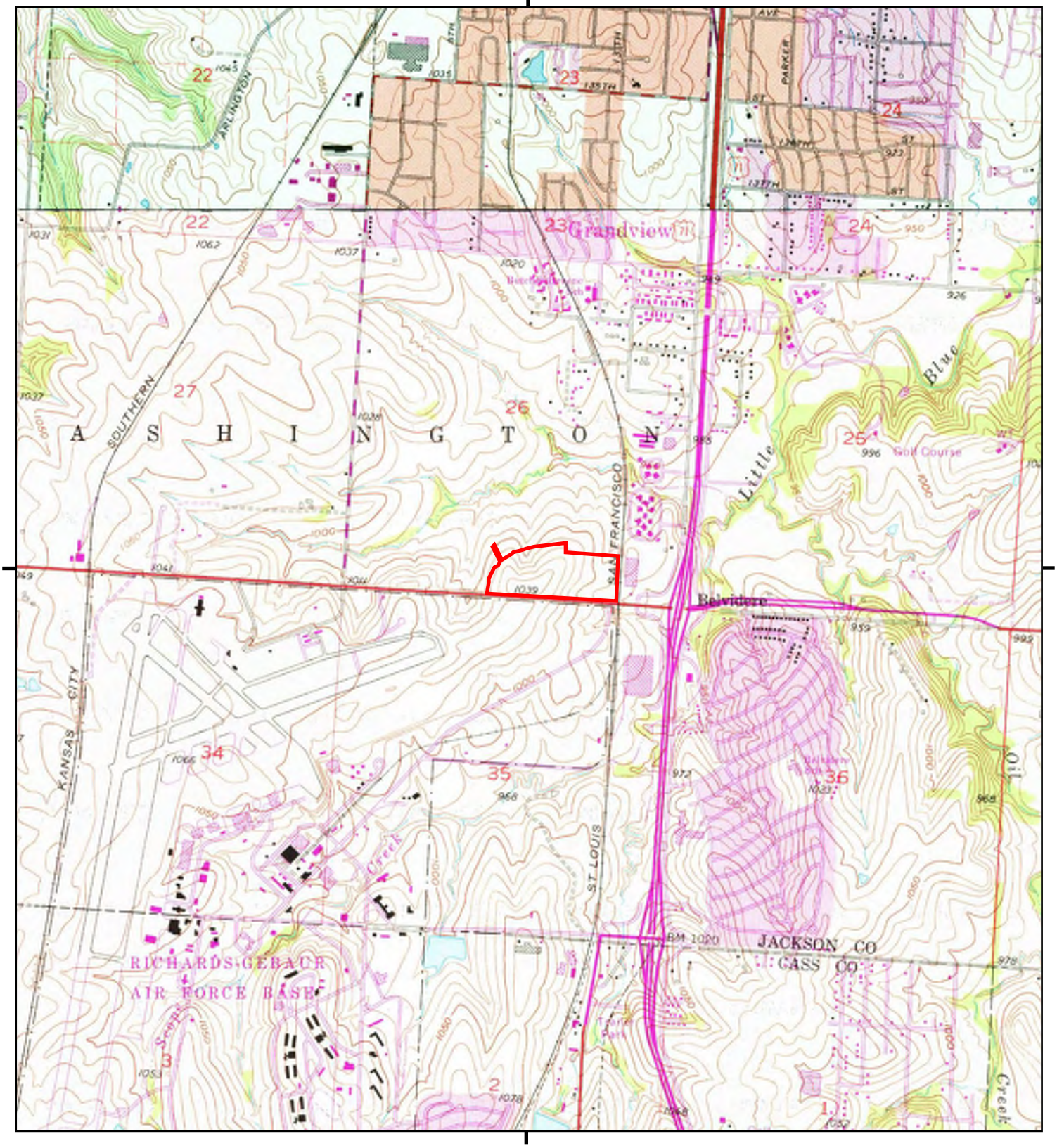
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N, Grandview, 1995, 7.5-minute

SITE NAME: Ideker & Axtell Site
ADDRESS: Missouri Highway 150/Colorado Avenue
Grandview, MO 64030
CLIENT: Olsson

N

Historical Topo Map

1975



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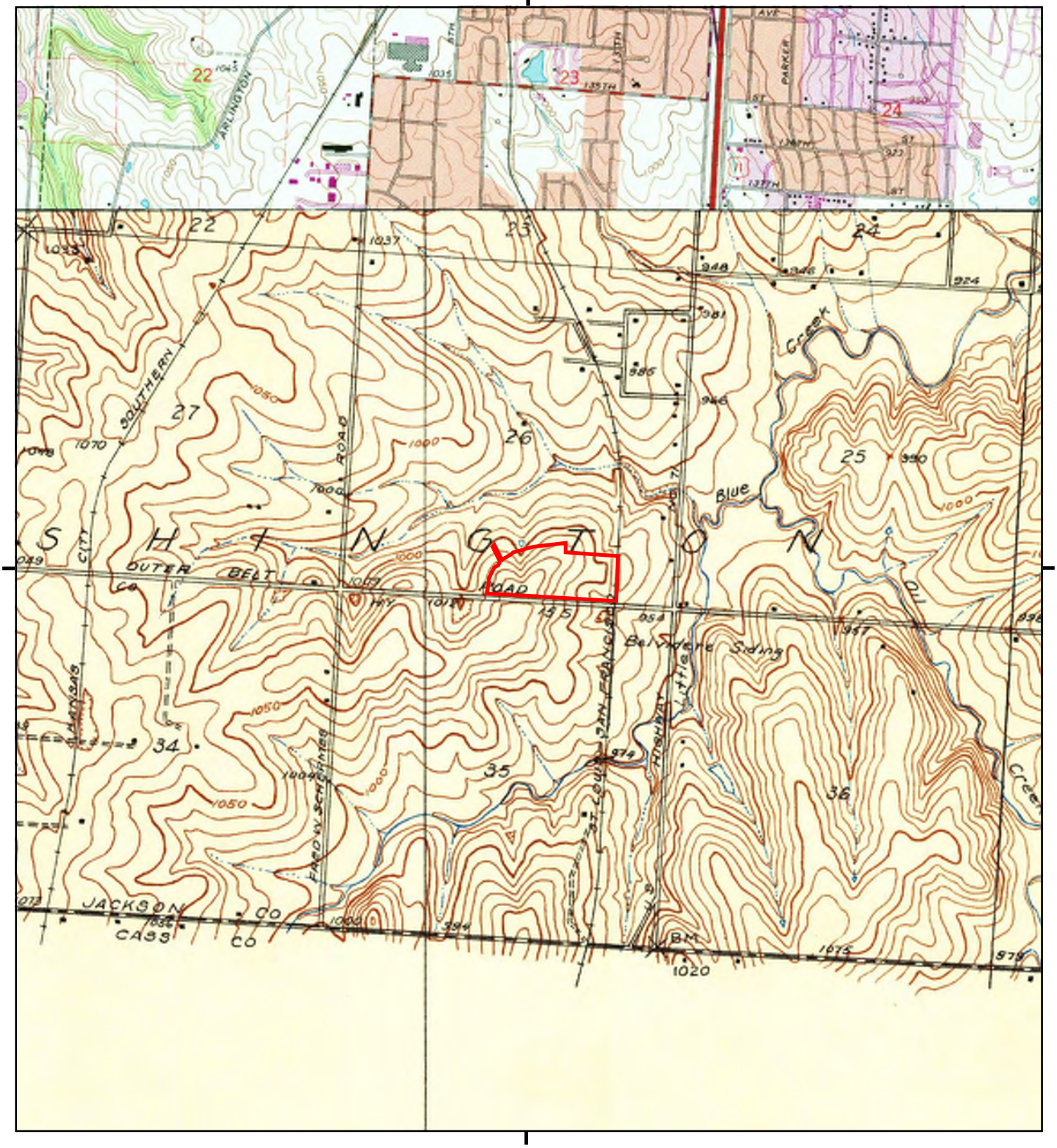
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SITE NAME: Ideker & Axtell Site
ADDRESS: Missouri Highway 150/Colorado Avenue
Grandview, MO 64030
CLIENT: Olsson

N

Historical Topo Map

1970



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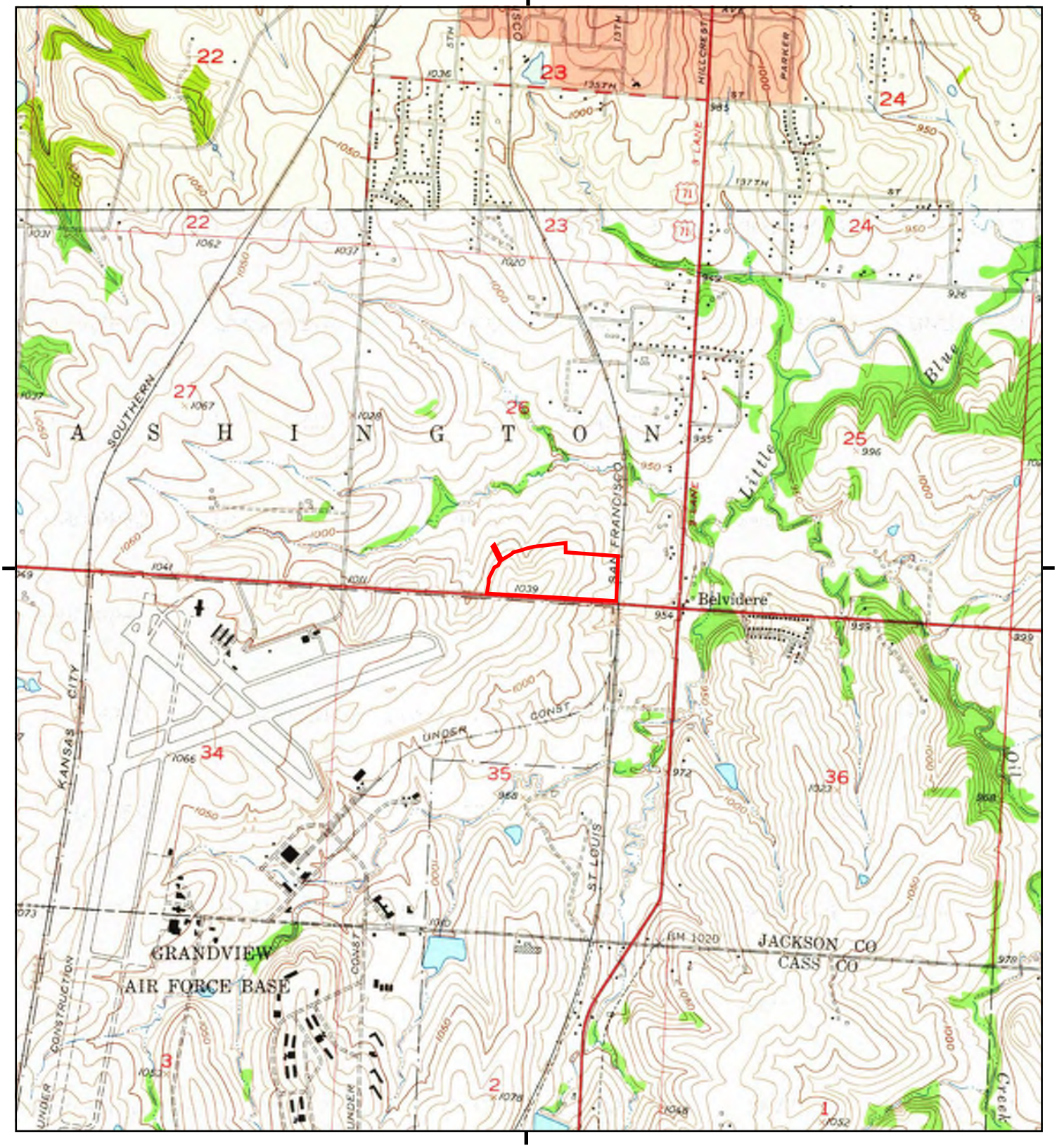
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W E
SW S SE

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N, Grandview, 1970, 7.5-minute

SITE NAME: Ideker & Axtell Site
ADDRESS: Missouri Highway 150/Colorado Avenue
Grandview, MO 64030
CLIENT: Olsson

N



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W E
SW S SE

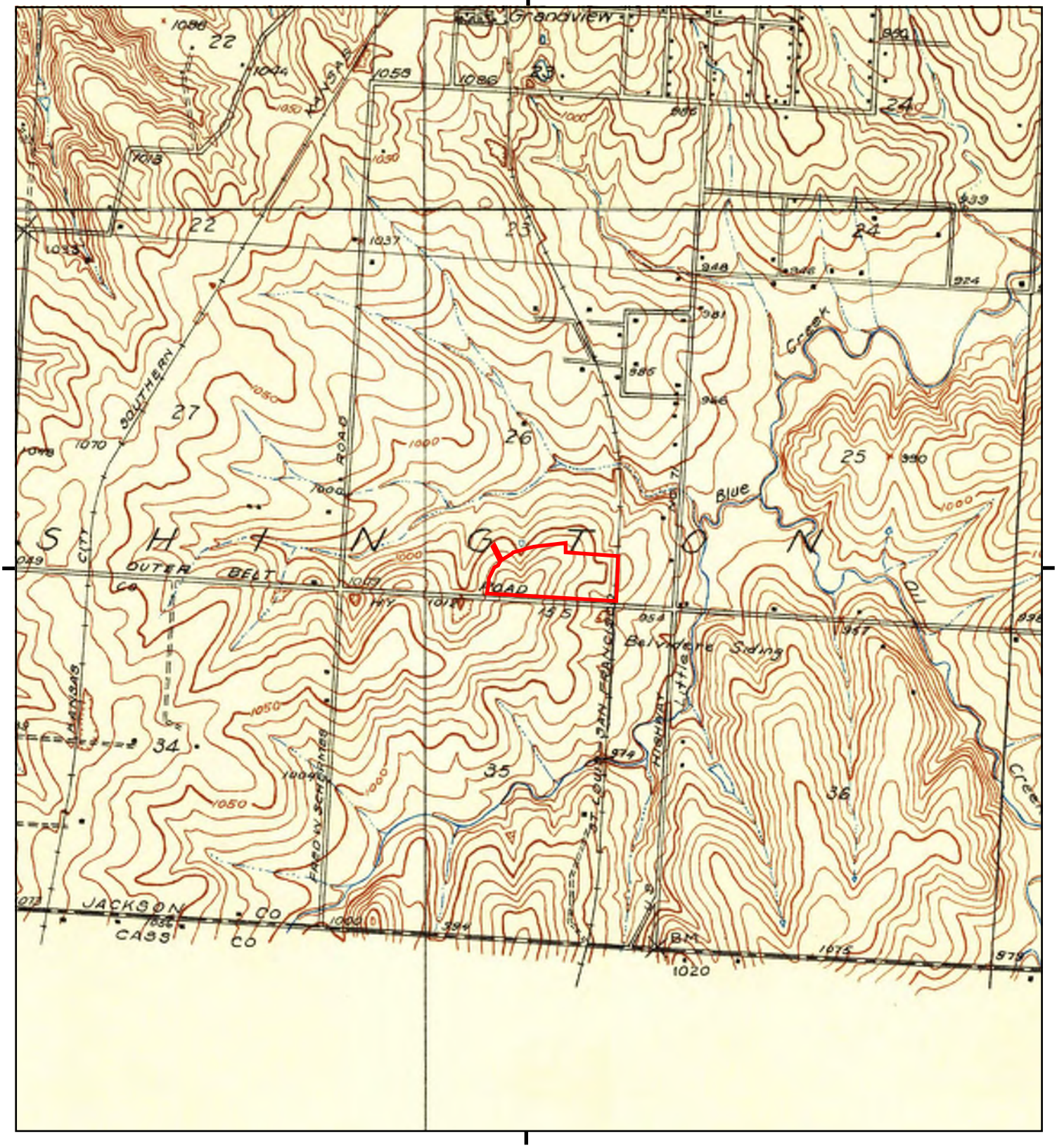
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SITE NAME: Ideker & Axtell Site
ADDRESS: Missouri Highway 150/Colorado Avenue
Grandview, MO 64030
CLIENT: Olsson

N

Historical Topo Map

1934



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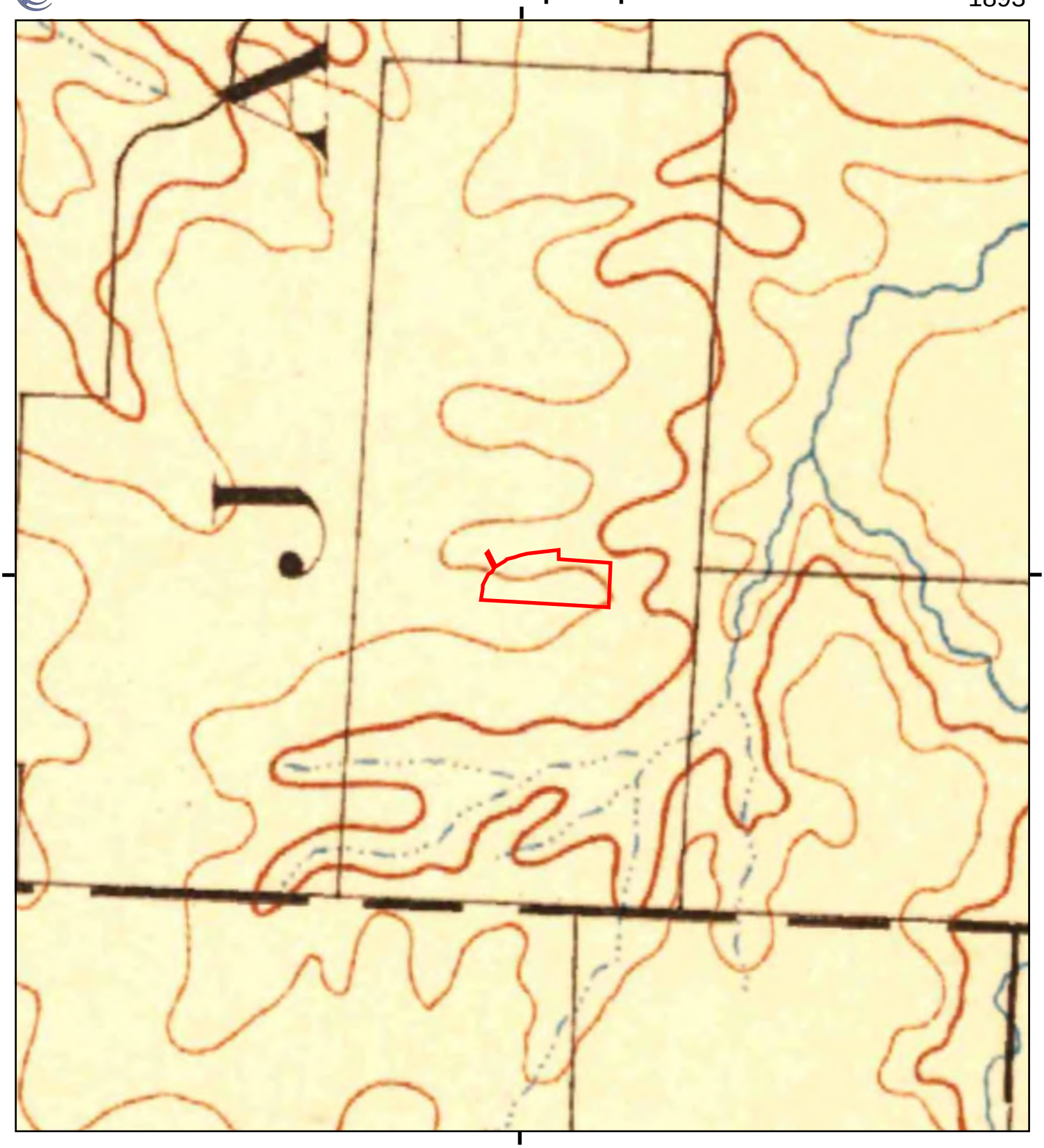
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NW N NE
W E
SW S SE

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N, Grandview, 1934, 7.5-minute

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ADDRESS: Missouri Highway 150/Colorado Avenue
Grandview, MO 64030
CLIENT: Olsson

N



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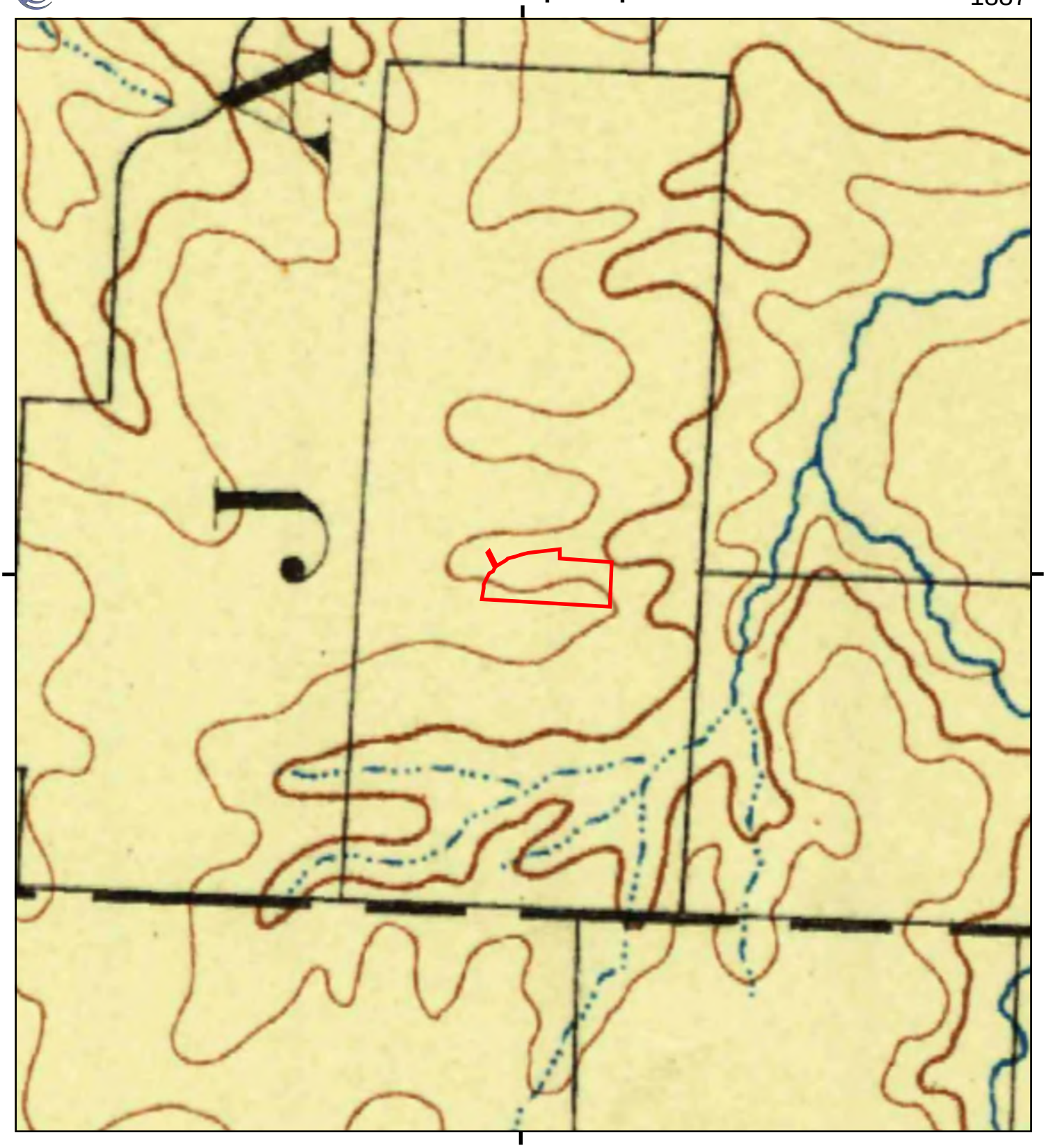
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NW N NE
W E
SW S SE

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SITE NAME: Ideker & Axtell Site
ADDRESS: Missouri Highway 150/Colorado Avenue
Grandview, MO 64030
CLIENT: Olsson

N



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

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NW N NE
W E
SW S SE

TP, Olathe, 1887, 30-minute

SITE NAME: Ideker & Axtell Site
ADDRESS: Missouri Highway 150/Colorado Avenue
Grandview, MO 64030
CLIENT: Olsson

N

Ideker & Axtell Site

Missouri Highway 150/Colorado Avenue

Grandview, MO 64030

Inquiry Number: 6420317.8

March 29, 2021

The EDR Aerial Photo Decade Package

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

EDR Aerial Photo Decade Package

03/29/21

Site Name:

Ideker & Axtell Site
Missouri Highway 150/Colorad
Grandview, MO 64030
EDR Inquiry # 6420317.8

Client Name:

Olsson
7301 West 133rd Street
Overland Park, KS 66213
Contact: Rachael Reis

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:

Year	Scale	Details	Source
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
1997	1"=500'	Acquisition Date: January 01, 1997	USGS/DOQQ
1990	1"=500'	Acquisition Date: February 07, 1990	USGS/DOQQ
1985	1"=500'	Flight Date: June 28, 1985	NHAP
1981	1"=500'	Flight Date: November 11, 1981	NHAP
1979	1"=500'	Flight Date: August 07, 1979	USDA
1970	1"=500'	Flight Date: October 02, 1970	USGS
1969	1"=500'	Flight Date: September 30, 1969	USDA
1957	1"=500'	Flight Date: June 10, 1957	USDA
1952	1"=500'	Flight Date: October 23, 1952	USDA
1948	1"=500'	Flight Date: September 11, 1948	USGS
1940	1"=500'	Flight Date: September 25, 1940	USDA

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INQUIRY #: 6420317.8
YEAR: 2016
= 500'
N
EDR


INQUIRY #: 6420317.8
YEAR: 2012
= 500'
N
EDR


INQUIRY #: 6420317.8
YEAR: 2009
= 500'
N
EDR


INQUIRY #: 6420317.8
YEAR: 2006
= 500'
N
EDR



INQUIRY #: 6420317.8

YEAR: 1997

= 500'

N

EDR

Subject boundary not shown because it exceeds image extent or image is not georeferenced.



INQUIRY #: 6420317.8

YEAR: 1990

= 500'

N

EDR

Subject boundary not shown because it exceeds image extent or image is not georeferenced.


INQUIRY #: 6420317.8
YEAR: 1985
= 500'
N
EDR


INQUIRY #: 6420317.8
YEAR: 1981
= 500'
N
EDR


INQUIRY #: 6420317.8
YEAR: 1979
= 500'
N
EDR



INQUIRY #: 6420317.8

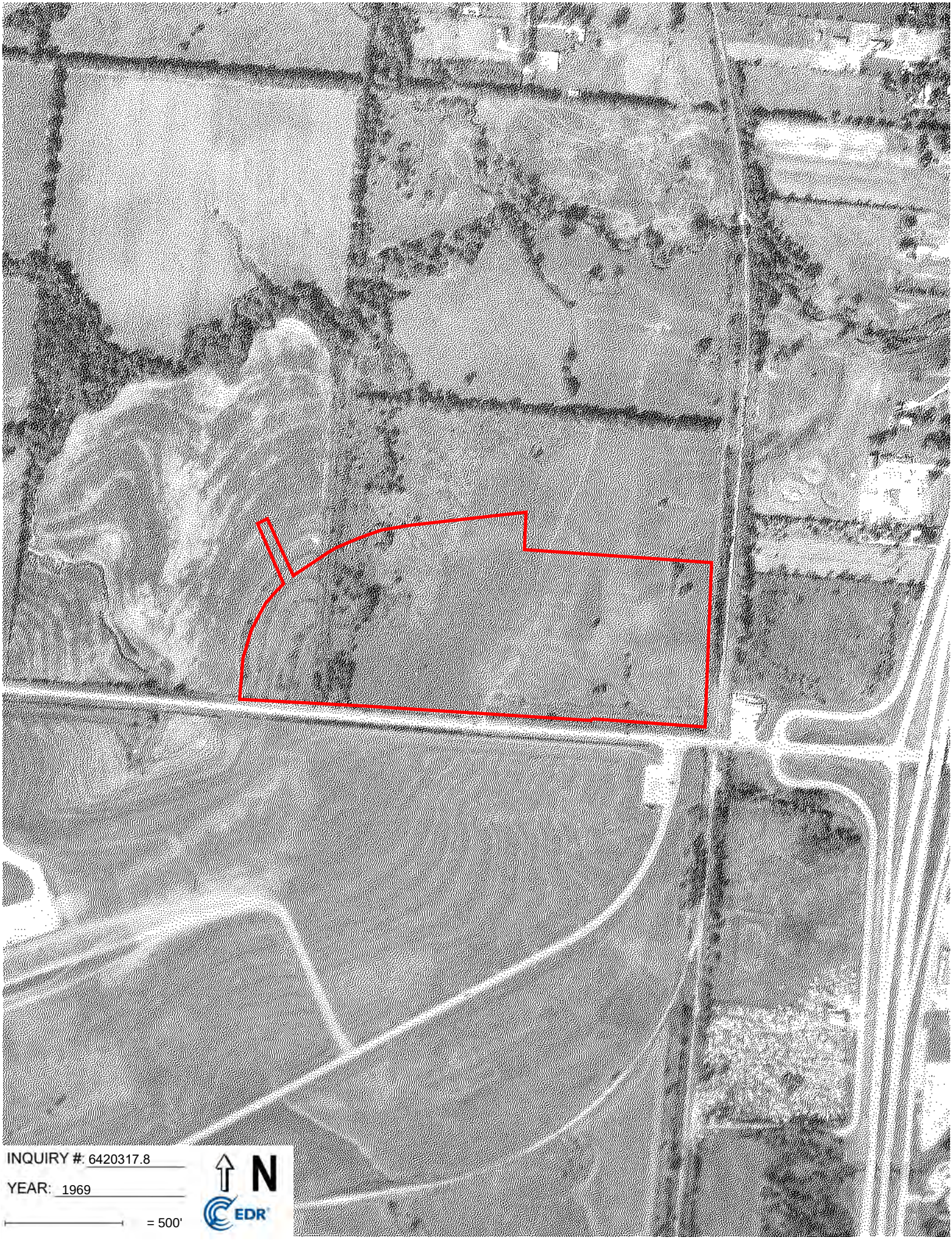
YEAR: 1970

= 500'

N

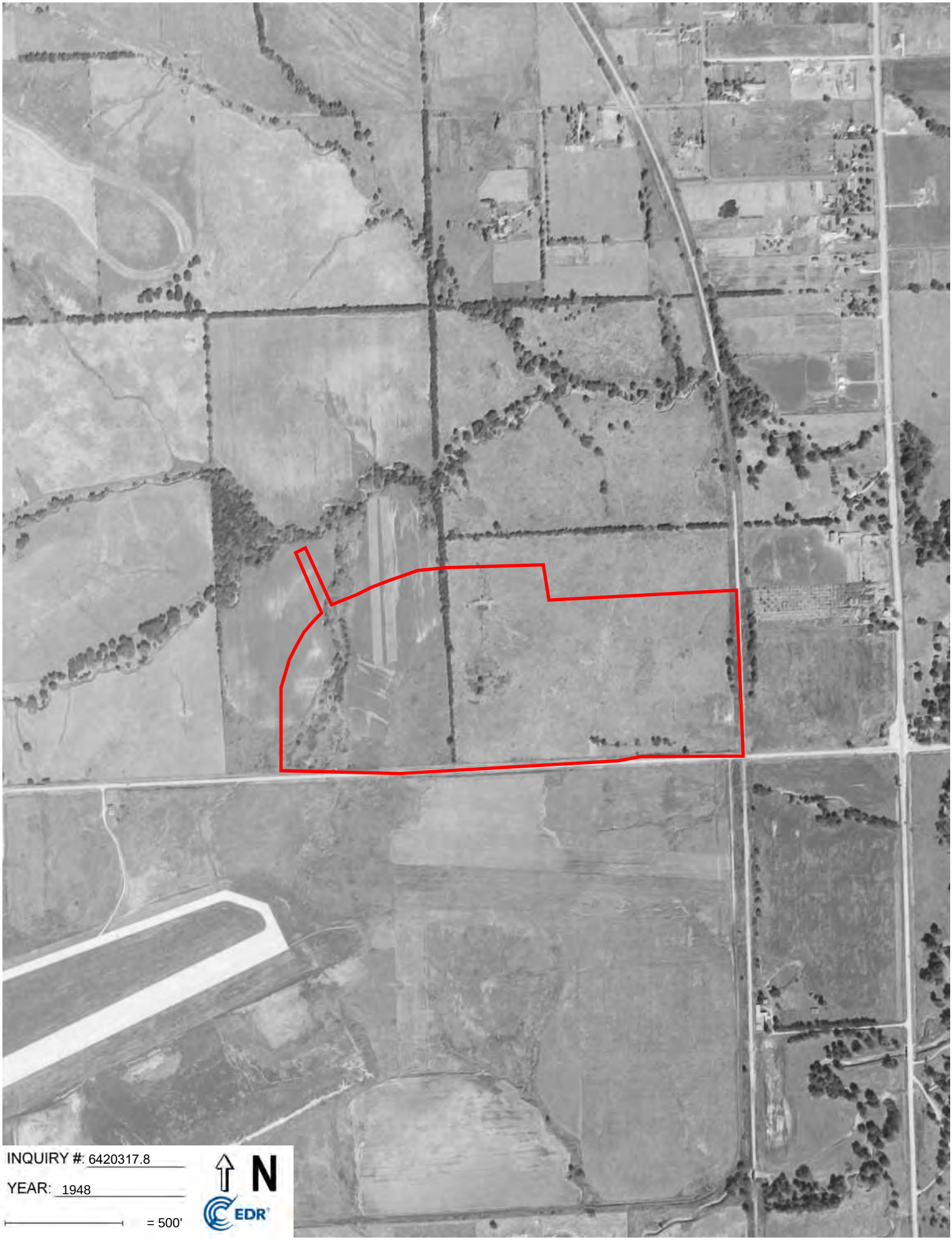
EDR

Subject boundary not shown because it exceeds image extent or image is not georeferenced.


INQUIRY #: 6420317.8
YEAR: 1969
= 500'
N
EDR


INQUIRY #: 6420317.8
YEAR: 1957
= 500'
N
EDR


INQUIRY #: 6420317.8
YEAR: 1952
= 500'
N
EDR


INQUIRY #: 6420317.8
YEAR: 1948
= 500'
N
EDR


INQUIRY #: 6420317.8
YEAR: 1940
= 500'
N
EDR

APPENDIX D

Environmental Database Report

Ideker Plant
14650 Colorado Avenue
Grandview, MO 64030

Inquiry Number: 6855042.2s
February 10, 2022

The EDR Radius Map™ Report

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

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Detail Map	3
Map Findings Summary	4
Map Findings	8
Orphan Summary	109
Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

GeoCheck - Not Requested

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

14650 COLORADO AVENUE
GRANDVIEW, MO 64030

COORDINATES

Latitude (North):	38.8596000 - 38ˆ 51' 34.56''
Longitude (West):	94.5361690 - 94ˆ 32' 10.20''
Universal Tranverse Mercator:	Zone 15
UTM X (Meters):	366711.1
UTM Y (Meters):	4302110.0
Elevation:	1024 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	10295987 BELTON, MO
Version Date:	2017
North Map:	10296011 GRANDVIEW, MO
Version Date:	2017

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140904
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
14650 COLORADO AVENUE
GRANDVIEW, MO 64030

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
Reg	RICHARDS-GEBAUR AIR		DOD	Same	3795, 0.719, WSW
1		5700 HIGHWAY 150	SPILLS	Lower	1 ft.
2	IDEKER INC. (SOUTH P	14650 COLORADO AVENU	US AIRS, FINDS, ECHO	Lower	1 ft.
3	GRANDVIEW RADIO BEA		FUDS	Lower	1 ft.
4	IDEKER, INC. - 150 H	5600 E 150 HIGHWAY	FINDS, ECHO	Lower	1 ft.
5	FRONTIER BAG INC	5720 E HWY 150	RCRA-SQG, US AIRS	Lower	181, 0.034, ESE
6	HOLISTIC INDUSTRIES	14600 S HWY 71	RCRA-SQG	Lower	499, 0.095, East
7	TRUE VALUE COMPANY	14900 S HWY 71	RCRA-SQG, LUST, UST, SPILLS	Lower	1184, 0.224, SE
8	RICHARDS GEBAUR AIR	HWY 150 & US 71 HWY	SEMS, ROD	Lower	1982, 0.375, West

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

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

Federal institutional controls / engineering controls registries

LUCIS ---------- Land Use Control Information System
US ENG CONTROLS ---------- Engineering Controls Sites List
US INST CONTROLS ---------- Institutional Controls Sites List

EXECUTIVE SUMMARY

Federal ERNS list

ERNS ---------- Emergency Response Notification System

Lists of state- and tribal hazardous waste facilities

SHWS ---------- Registry of Confirmed Abandoned or Uncontrolled Hazardous Waste Disposal Sites

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF ---------- Permitted Facility List

Lists of state and tribal leaking storage tanks

LAST ---------- Leaking Aboveground Storage Tanks
INDIAN LUST ---------- Leaking Underground Storage Tanks on Indian Land

Lists of state and tribal registered storage tanks

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

State and tribal institutional control / engineering control registries

AUL ---------- Sites with Controls

Lists of state and tribal voluntary cleanup sites

VCP ---------- Voluntary Cleanup Program Site Listing
INDIAN VCP ---------- Voluntary Cleanup Priority Listing

Lists of state and tribal brownfield sites

BROWNFIELDS ---------- Brownfields Site List

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---------- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

HIST LF ---------- Solid Waste Facility Database List
SWRCY ---------- Solid Waste 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

Local Lists of Hazardous waste / Contaminated Sites

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

CDL	Environmental Emergency Response System
DEL SHWS	Registry Sites Withdrawn or Deleted
US CDL	National Clandestine Laboratory Register
PFAS	PFAS Detections

Local Land Records

LIENS 2	CERCLA Lien Information

Records of Emergency Release Reports

HMIRS	Hazardous Materials Information Reporting System
SPILLS 90	SPILLS 90 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR	RCRA - Non Generators / No Longer Regulated
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
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 MINES	Mines Master Index File
ABANDONED MINES	Abandoned Mines
DOCKET HWC	Hazardous Waste Compliance Docket Listing
UXO	Unexploded Ordnance Sites
FUELS PROGRAM	EPA Fuels Program Registered Listing
AIRS	Permit Facility Listing
ASBESTOS	Asbestos Notification Listing
COAL ASH	Coal Ash Disposal Sites
DRYCLEANERS	Drycleaners in Missouri Listing
Financial Assurance	Financial Assurance Information Listing
MINES	Industrial Mineral Mines Database
NPDES	Permitted Facility Listing

MO RRC Certified Hazardous Waste Resource Recovery Facilities
SMARS Site Management and Reporting System
UIC Underground Injection Wells Database
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 identified in the following databases.

Elevations have been determined from the USGS 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. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

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

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

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal sites subject to CERCLA removals and CERCLA orders

SEMS: SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the SEMS list, as provided by EDR, and dated 10/20/2021 has revealed that there is 1 SEMS site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
RICHARDS GEBAUR AIR	***HWY 150 & US 71 HWY***	***W 1/4 - 1/2 (0.375 mi.)***	***8***	***90***

EXECUTIVE SUMMARY

Site ID: 0701793
EPA Id: MO9571824292

Lists of Federal RCRA generators

RCRA-SQG: 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.

A review of the RCRA-SQG list, as provided by EDR, and dated 09/13/2021 has revealed that there are 3 RCRA-SQG sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
FRONTIER BAG INC	***5720 E HWY 150***	***ESE 0 - 1/8 (0.034 mi.)***	***5***	***11***
EPA ID:: MOD067928986				
HOLISTIC INDUSTRIES	14600 S HWY 71	E 0 - 1/8 (0.095 mi.)	6	49
TRUE VALUE COMPANY	***14900 S HWY 71***	***SE 1/8 - 1/4 (0.224 mi.)***	***7***	***52***
EPA ID:: MOD985808427				

Lists of state and tribal leaking storage tanks

LUST: Leaking Underground Storage Tanks.

A review of the LUST list, as provided by EDR, and dated 09/08/2021 has revealed that there is 1 LUST site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
TRUE VALUE COMPANY	***14900 S HWY 71***	***SE 1/8 - 1/4 (0.224 mi.)***	***7***	***52***
Facility Id: ST0001980				
Date Of NFA Letter From DNR: 2000-09-11 00:00:00				

Lists of state and tribal registered storage tanks

UST: Underground Storage Tank Information.

A review of the UST list, as provided by EDR, and dated 09/08/2021 has revealed that there is 1 UST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
TRUE VALUE COMPANY	***14900 S HWY 71***	***SE 1/8 - 1/4 (0.224 mi.)***	***7***	***52***
Facility Id: ST0001980				
Tank Status: Removed				

ADDITIONAL ENVIRONMENTAL RECORDS

Records of Emergency Release Reports

SPILLS: Environmental Response Tracking Database

A review of the SPILLS list, as provided by EDR, and dated 06/01/2021 has revealed that there is 1 SPILLS site within approximately 0.001 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported Facility Id: 0010232132BWH Spill Number: 0010232132BWH	5700 HIGHWAY 150	0 - 1/8 (0.000 mi.)	1	8

Other Ascertainable Records

FUDS: 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.

A review of the FUDS list, as provided by EDR, and dated 10/26/2021 has revealed that there is 1 FUDS site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
GRANDVIEW RADIO BEA		0 - 1/8 (0.000 mi.)	3	10

DOD: 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.

A review of the DOD list, as provided by EDR, and dated 12/31/2005 has revealed that there is 1 DOD site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RICHARDS-GEBAUR AIR		WSW 1/2 - 1 (0.719 mi.)	0	8

ROD: Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid the cleanup.

A review of the ROD list, as provided by EDR, and dated 10/20/2021 has revealed that there is 1 ROD site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
RICHARDS GEBAUR AIR EPA ID:: MO9571824292	***HWY 150 & US 71 HWY***	***W 1/4 - 1/2 (0.375 mi.)***	***8***	***90***

EXECUTIVE SUMMARY

US AIRS: 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.

A review of the US AIRS list, as provided by EDR, has revealed that there is 1 US AIRS site within approximately 0.001 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
IDEKER INC. (SOUTH P	***14650 COLORADO AVENU***	***0 - 1/8 (0.000 mi.)***	***2***	***9***
Database: US AIRS MINOR, Date of Government Version: 10/12/2016				

FINDS: The Facility Index System contains both facility information and "pointers" to other sources of information that contain more detail. These include: RCRIS; Permit Compliance System (PCS); Aerometric Information Retrieval System (AIRS); FATES (FIFRA [Federal Insecticide Fungicide Rodenticide Act] and TSCA Enforcement System, FTTS [FIFRA/TSCA Tracking System]; CERCLIS; DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes); Federal Underground Injection Control (FURS); Federal Reporting Data System (FRDS); Surface Impoundments (SIA); TSCA Chemicals in Commerce Information System (CICS); PADS; RCRA-J (medical waste transporters/disposers); TRIS; and TSCA. The source of this database is the U.S. EPA/NTIS.

A review of the FINDS list, as provided by EDR, and dated 05/05/2021 has revealed that there are 2 FINDS sites within approximately 0.001 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
IDEKER INC. (SOUTH P	***14650 COLORADO AVENU***	***0 - 1/8 (0.000 mi.)***	***2***	***9***
Registry ID:: 110063619437				
IDEKER, INC. - 150 H	***5600 E 150 HIGHWAY***	***0 - 1/8 (0.000 mi.)***	***4***	***11***
Registry ID:: 110054105696				

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

A review of the ECHO list, as provided by EDR, and dated 01/01/2022 has revealed that there are 2 ECHO sites within approximately 0.001 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
IDEKER INC. (SOUTH P	***14650 COLORADO AVENU***	***0 - 1/8 (0.000 mi.)***	***2***	***9***
Registry ID: 110063619437				
IDEKER, INC. - 150 H	***5600 E 150 HIGHWAY***	***0 - 1/8 (0.000 mi.)***	***4***	***11***
Registry ID: 110054105696				

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 1 records.

Site Name	Database(s)
ROSE AUTO REPAIR	LUST, UST

OVERVIEW MAP - 6855042.2S



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

0 1/4 1/2 1 Miles

Indian Reservations BIA

County Boundary

Power transmission lines

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

State Wetlands

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:	Ideker Plant	CLIENT:	Olsson
ADDRESS:	14650 Colorado Avenue Grandview MO 64030	CONTACT:	Rachael Reis
LAT/LONG:	38.8596 / 94.536169	INQUIRY #:	6855042.2s
		DATE:	February 10, 2022 2:15 pm

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DETAIL MAP - 6855042.2S



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

0 1/16 1/8 1/4 Miles

Indian Reservations BIA

Power transmission lines

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

State Wetlands

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:	Ideker Plant	CLIENT:	Olsson
ADDRESS:	14650 Colorado Avenue Grandview MO 64030	CONTACT:	Rachael Reis
LAT/LONG:	38.8596 / 94.536169	INQUIRY #:	6855042.2s
		DATE:	February 10, 2022 2:16 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Lists of Federal NPL (Superfund) sites								
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
Lists of Federal Delisted NPL sites								
Delisted NPL	1.000		0	0	0	0	NR	0
Lists of Federal sites subject to CERCLA removals and CERCLA orders								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	1	NR	NR	1
Lists of Federal CERCLA sites with NFRAP								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA facilities undergoing Corrective Action								
CORRACTS	1.000		0	0	0	0	NR	0
Lists of Federal RCRA TSD facilities								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA generators								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		2	1	NR	NR	NR	3
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
Lists of state- and tribal hazardous waste facilities								
SHWS	1.000		0	0	0	0	NR	0
Lists of state and tribal landfills and solid waste disposal facilities								
SWF/LF	0.500		0	0	0	NR	NR	0
Lists of state and tribal leaking storage tanks								
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	1	0	NR	NR	1
INDIAN LUST	0.500		0	0	0	NR	NR	0
Lists of state and tribal registered storage tanks								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	1	NR	NR	NR	1
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
AUL	0.500		0	0	0	NR	NR	0
Lists of state and tribal voluntary cleanup sites								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
Lists of state and tribal brownfield sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
HIST LF	0.500		0	0	0	NR	NR	0
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
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
DEL SHWS	1.000		0	0	0	0	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
PFAS	0.500		0	0	0	NR	NR	0
Local Land Records								
LIENS 2	0.001		0	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
SPILLS	0.001		1	NR	NR	NR	NR	1
SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
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		1	0	0	0	NR	1
DOD	1.000		0	0	0	1	NR	1
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	1	0	NR	1
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		1	NR	NR	NR	NR	1
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	0.001		2	NR	NR	NR	NR	2
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
ECHO	0.001		2	NR	NR	NR	NR	2
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
AIRS	0.001		0	NR	NR	NR	NR	0
ASBESTOS	0.001		0	NR	NR	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
NPDES	0.001		0	NR	NR	NR	NR	0
MO RRC	0.001		0	NR	NR	NR	NR	0
SMARS	0.500		0	0	0	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

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 Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
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	9	3	2	1	0	15

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

DOD **RICHARDS-GEBAUR AIR FORCE BASE (CLOSED)** **DOD** **CUSA133969**
Region **N/A**
WSW **RICHARDS-GEBAUR AIR FORCE (County), MO**
1/2-1
3795 ft.

DOD:

Feature 1:	Air Force DOD
Feature 2:	Not reported
Feature 3:	Not reported
URL:	Not reported
Name 1:	Richards-Gebaur Air Force Base (Closed)
Name 2:	Not reported
Name 3:	Not reported
State:	MO
DOD Site:	Yes
Tile name:	MOJACKSON

---

1 **SPILLS** **S105358983**
5700 HIGHWAY 150 **N/A**
< 1/8 **GRANDVIEW, MO**
1 ft.

SPILLS:

Relative: **Lower**
Actual: **985 ft.**

Name:	Not reported
Address:	5700 HIGHWAY 150
City,State,Zip:	GRANDVIEW, MO
Facility ID:	0010232132BWH
Spill Number:	0010232132BWH
Reported Date:	10/23/2000
Reported Time:	21:32:00
Regional Office:	KCRO
Latitude:	38.8833999
Property Code:	25
Property Sub Category:	Not reported
Longitude:	-94.521697
UTM Zone For GPS:	15
Cause Sub Category:	Not reported
Email:	False
Ongoing:	False
Is A Chemical Pickup Needed?:	False
Cause:	6
Contact Name:	Frank Weaver
Contact Phone #:	8167377477
Contact Id:	13752
Organization Name:	Missouri Public Service
Organization Address1:	10700 East Highway 350
Discovery Date:	10/23/2000
Organization Address2:	Not reported
Discovery Time:	19:30:00
Organization City:	Kansas City
Incident Date:	Not reported
Organization State:	MO
Incident Time:	Not reported
Organization Zip:	64138
GPS Code:	UN
Date Of Incident Search:	10/23/2000
UTM North:	4304937.8497444103
UTM East:	368014.18660215399
Cause Description:	Fire/Explosion

(Continued) **S105358983**

Cause Sub Category: Not reported
Report Origin: 68
Lead Agency: Private - Responsible Party
Additional Information: Spill Summary: THE CALLER REPORTS A FIRE AT A TRANSFORMER RESULTED IN A RELEASE OF TRANSFORMER OIL TO THE SURROUNDING AREA. Response Summary: THE RESPONSIBLE PARTY IS CONDUCTING A CLEANUP.

Entity Telephone: 8167377477
Property Code Description: Transformer/Substation
Property Sub Category: Not reported
Description: Other - Unknown
Job Code: Not reported

Cleanup Actions:
Spill Number: 0010232132BWH
Incident ID: 13752
Cleanup Action Code: 16
Cleanup Action Description: Removed/Recovered

Report Distribution:
Spill Number: 0010232132BWH
Incident ID: 13752
Agent Code: 19
Agency: DNR - Kansas City Regional Office

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2 **IDEKER INC. (SOUTH PLANT)** **US AIRS** **1017425808**
14650 COLORADO AVENUE **FINDS** **N/A**
< 1/8 **CITY OF KANSAS CITY, MO 64147** **ECHO**
1 ft.

Relative: **Lower**
Actual: **1002 ft.**

US AIRS MINOR:
Envid: 1017425808
Region Code: 07
Programmatic ID: AIR MO0002909502473
Facility Registry ID: 110063619437
D and B Number: Not reported
Primary SIC Code: 2951
NAICS Code: 324121
Default Air Classification Code: MIN
Facility Type of Ownership Code: POF
Air CMS Category Code: Not reported
HPV Status: Not reported

US AIRS MINOR:
Region Code: 07
Programmatic ID: AIR MO0002909502473
Facility Registry ID: 110063619437
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: New Source Performance Standards
Activity Date: 2014-08-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07

IDEKER INC. (SOUTH PLANT) (Continued) **1017425808**

Programmatic ID:	AIR MO0002909502473
Facility Registry ID:	110063619437
Air Operating Status Code:	OPR
Default Air Classification Code:	MIN
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2014-08-25 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported

FINDS:
Registry ID: 110063619437

Click Here:

Environmental Interest/Information System:
AIR MINOR

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

ECHO:

Envid:	1017425808
Registry ID:	110063619437
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110063619437
Name:	IDEKER INC. (SOUTH PLANT)
Address:	14650 COLORADO AVENUE
City,State,Zip:	CITY OF KANSAS CITY, MO 64147

---

3 **GRANDVIEW RADIO BEA AX 2** **FUDS** **1024898657**
N/A

< 1/8 **GRANDVIEW, MO**
1 ft.

FUDS:

Relative: **Lower**
Actual: **1005 ft.**

EPA Region:	7
Installation ID:	MO79799F040800
Congressional District Number:	5
Name:	GRANDVIEW RADIO BEA AX 2
FUDS Number:	B07MO0970
City:	GRANDVIEW
State:	MO
County:	JACKSON
Object ID:	3937
USACE Division:	NWD
USACE District:	Kansas City District (NWK)
Status:	Properties without projects
Current Owner:	Not reported
EMS Map Link:	https://fudsportal.usace.army.mil/ems/ems/inventory/map/map?id=58667
Eligibility:	Eligible
Has Projects:	No
NPL Status:	Not on the NPL
Property History:	The Air Force constructed a navigational radio beacon antenna and support utilities. Later, the antenna was removed and a ceilometer system was installed as weather aid for pilots and controllers.

GRANDVIEW RADIO BEA AX 2 (Continued) **1024898657**

Project Required: No
Feature Description: Not reported
Latitude: 38.86027778
Longitude: -94.53666667

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4 **IDEKER, INC. - 150 HWY PLANT** **FINDS** **1016002205**
5600 E 150 HIGHWAY **ECHO** **N/A**
< 1/8 **KANSAS CITY, MO 64147**
1 ft.

Relative:
Lower

Actual:
1022 ft.

FINDS:
Registry ID: 110054105696

Click Here:

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

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

ECHO:
Envid: 1016002205
Registry ID: 110054105696
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110054105696
Name: IDEKER, INC. - 150 HWY PLANT
Address: 5600 E 150 HIGHWAY
City,State,Zip: KANSAS CITY, MO 64147

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5 **FRONTIER BAG INC** **RCRA-SQG** **1000322304**
ESE **5720 E HWY 150** **US AIRS** **MOD067928986**
< 1/8 **KANSAS CITY, MO 64147**
0.034 mi.
181 ft.

Relative:
Lower

Actual:
979 ft.

RCRA-SQG:
Date Form Received by Agency: 20170622
Handler Name: FRONTIER BAG INC
Handler Address: 5720 E HWY 150
Handler City,State,Zip: KANSAS CITY, MO 64147-1003
EPA ID: MOD067928986
Contact Name: RON AVERY
Contact Address: BOX 200
Contact City,State,Zip: GRANDVIEW, MO 64030-0200
Contact Telephone: 816-765-4811
Contact Fax: Not reported
Contact Email: RAVERY@FRONTIERBAG.COM
Contact Title: VP PRODUCTIONS
EPA Region: 07
Land Type: Private

FRONTIER BAG INC (Continued) **1000322304**

Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	BOX 200
Mailing City,State,Zip:	GRANDVIEW, MO 64030-0200
Owner Name:	FRONTIER BAG INC
Owner Type:	Private
Operator Name:	FRONTIER BAG INC
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No

FRONTIER BAG INC (Continued) **1000322304**

Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20170622
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D002
Waste Description:	CORROSIVE WASTE
Waste Code:	D005
Waste Description:	BARIUM
Waste Code:	D007
Waste Description:	CHROMIUM
Waste Code:	D008
Waste Description:	LEAD
Waste Code:	D009
Waste Description:	MERCURY
Waste Code:	F003
Waste Description:	THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Waste Code:	F005
Waste Description:	THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	RON GURLEY

FRONTIER BAG INC (Continued) **1000322304**

Legal Status:	Private
Date Became Current:	20040823
Date Ended Current:	Not reported
Owner/Operator Address:	BOX 200
Owner/Operator City,State,Zip:	GRANDVIEW, MO 64030
Owner/Operator Telephone:	816-765-4811
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	FRONTIER BAG INC
Legal Status:	Private
Date Became Current:	20071019
Date Ended Current:	Not reported
Owner/Operator Address:	5720 E HWY 150
Owner/Operator City,State,Zip:	KANSAS CITY, MO 64116
Owner/Operator Telephone:	816-765-4811
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	FRONTIER BAG INC
Legal Status:	Private
Date Became Current:	20071019
Date Ended Current:	Not reported
Owner/Operator Address:	BOX 200
Owner/Operator City,State,Zip:	GRANDVIEW, MO 64030-0200
Owner/Operator Telephone:	816-765-4811
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	RON GURLEY
Legal Status:	Private
Date Became Current:	20040823
Date Ended Current:	Not reported
Owner/Operator Address:	BOX 200
Owner/Operator City,State,Zip:	GRANDVIEW, MO 64030
Owner/Operator Telephone:	816-765-4811
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	GURLEY, RONALD
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	BOX 200
Owner/Operator City,State,Zip:	GRANDVIEW, MO 64030
Owner/Operator Telephone:	816-765-4811
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

FRONTIER BAG INC (Continued) **1000322304**

Owner/Operator Indicator:	Operator
Owner/Operator Name:	FRONTIER BAG INC
Legal Status:	Private
Date Became Current:	20071019
Date Ended Current:	Not reported
Owner/Operator Address:	BOX 200
Owner/Operator City,State,Zip:	GRANDVIEW, MO 64030
Owner/Operator Telephone:	816-765-4811
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	FRONTIER BAG INC
Legal Status:	Private
Date Became Current:	20071019
Date Ended Current:	Not reported
Owner/Operator Address:	BOX 200
Owner/Operator City,State,Zip:	GRANDVIEW, MO 64030-0200
Owner/Operator Telephone:	816-765-4811
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	RON GURLEY
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	BOX 200
Owner/Operator City,State,Zip:	GRANDVIEW, MO 64030
Owner/Operator Telephone:	816-765-4811
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	RON GURLEY
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	BOX 200
Owner/Operator City,State,Zip:	GRANDVIEW, MO 64030
Owner/Operator Telephone:	816-765-4811
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	FRONTIER BAG INC
Legal Status:	Private
Date Became Current:	20071019
Date Ended Current:	Not reported
Owner/Operator Address:	BOX 200
Owner/Operator City,State,Zip:	GRANDVIEW, MO 64030
Owner/Operator Telephone:	816-765-4811
Owner/Operator Telephone Ext:	Not reported

FRONTIER BAG INC (Continued) **1000322304**

Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: FRONTIER BAG INC
Legal Status: Private
Date Became Current: 20071019
Date Ended Current: Not reported
Owner/Operator Address: 5720 E HWY 150
Owner/Operator City,State,Zip: KANSAS CITY, MO 64116
Owner/Operator Telephone: 816-765-4811
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20110609
Handler Name: FRONTIER BAG INC
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20170622
Handler Name: FRONTIER BAG INC
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19970818
Handler Name: FRONTIER BAG INC
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20020125
Handler Name: FRONTIER BAG INC

FRONTIER BAG INC (Continued) **1000322304**

Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20040823
Handler Name: FRONTIER BAG INC
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20070727
Handler Name: FRONTIER BAG INC
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20071019
Handler Name: FRONTIER BAG INC
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 323111
NAICS Description: COMMERCIAL GRAVURE PRINTING

NAICS Code: 326111
NAICS Description: PLASTICS BAG AND POUCH MANUFACTURING

FRONTIER BAG INC (Continued) **1000322304**

Facility Has Received Notices of Violation:

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20170718
Actual Return to Compliance Date:	20170728
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	2
Date of Enforcement Action:	20170801
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	MO-SA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20070516
Actual Return to Compliance Date:	20070731
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported

FRONTIER BAG INC (Continued) **1000322304**

Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20011009
Actual Return to Compliance Date:	20011009
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

FRONTIER BAG INC (Continued) **1000322304**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20170718
Actual Return to Compliance Date:	20170718
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	2
Date of Enforcement Action:	20170801
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	MO-SA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20070516
Actual Return to Compliance Date:	20070731
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

FRONTIER BAG INC (Continued) **1000322304**

Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Manifest
Date Violation was Determined:	20070516
Actual Return to Compliance Date:	20070731
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

FRONTIER BAG INC (Continued) **1000322304**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20170718
Actual Return to Compliance Date:	20170725
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	2
Date of Enforcement Action:	20170801
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	MO-SA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Used Oil - Generators
Date Violation was Determined:	20070516
Actual Return to Compliance Date:	20070731
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

FRONTIER BAG INC (Continued) **1000322304**

Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Listing - General
Date Violation was Determined:	20070516
Actual Return to Compliance Date:	20070731
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

FRONTIER BAG INC (Continued) **1000322304**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19890609
Actual Return to Compliance Date:	19890623
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19890626
Enforcement Identifier:	001
Date of Enforcement Action:	19890609
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20070516
Actual Return to Compliance Date:	20070731
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

FRONTIER BAG INC (Continued) **1000322304**

Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20070516
Actual Return to Compliance Date:	20070731
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

FRONTIER BAG INC (Continued) **1000322304**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20011009
Actual Return to Compliance Date:	20011009
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20011009
Actual Return to Compliance Date:	20011009
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

FRONTIER BAG INC (Continued) **1000322304**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 20011009
Actual Return to Compliance Date: 20011009
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

FRONTIER BAG INC (Continued) **1000322304**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20170718
Actual Return to Compliance Date:	20170718
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	2
Date of Enforcement Action:	20170801
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	MO-SA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20170718
Actual Return to Compliance Date:	20170718
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	2
Date of Enforcement Action:	20170801
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

FRONTIER BAG INC (Continued) **1000322304**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: MO-SA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 20070516
Actual Return to Compliance Date: 20070731
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

FRONTIER BAG INC (Continued) **1000322304**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20070516
Actual Return to Compliance Date:	20070731
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19890609
Actual Return to Compliance Date:	19890623
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19890626
Enforcement Identifier:	001
Date of Enforcement Action:	19890609
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

FRONTIER BAG INC (Continued) **1000322304**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 20070516
Actual Return to Compliance Date: 20070731
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

FRONTIER BAG INC (Continued) **1000322304**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20170718
Actual Return to Compliance Date:	20170724
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	2
Date of Enforcement Action:	20170801
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	MO-SA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Listing - General
Date Violation was Determined:	20170718
Actual Return to Compliance Date:	20170718
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	2
Date of Enforcement Action:	20170801
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

FRONTIER BAG INC (Continued) **1000322304**

Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	MO-SA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20070516
Actual Return to Compliance Date:	20070731
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

FRONTIER BAG INC (Continued) **1000322304**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Universal Waste - Small Quantity Handlers
Date Violation was Determined:	20170718
Actual Return to Compliance Date:	20170725
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	2
Date of Enforcement Action:	20170801
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	MO-SA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20070516
Actual Return to Compliance Date:	20070731
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

FRONTIER BAG INC (Continued) **1000322304**

Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20011009
Actual Return to Compliance Date:	20011009
Return to Compliance Qualifier:	Unverifiable
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

FRONTIER BAG INC (Continued) **1000322304**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19890609
Actual Return to Compliance Date:	19890623
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19890626
Enforcement Identifier:	001
Date of Enforcement Action:	19890609
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20070516
Actual Return to Compliance Date:	20070731
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

FRONTIER BAG INC (Continued) **1000322304**

Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20170718
Actual Return to Compliance Date:	20170718
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	2
Date of Enforcement Action:	20170801
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	MO-SA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

FRONTIER BAG INC (Continued) **1000322304**

Evaluation Action Summary:

Evaluation Date:	20170718
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-SA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20170728
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20070516
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20070731
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20011009
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MOJMK
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20011009
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20170718
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-SA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20170718
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20070516
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE

FRONTIER BAG INC (Continued) **1000322304**

Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20070731
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20070516
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20070731
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20170718
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-SA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20170725
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20070516
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20070731
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20070516
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20070731
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported

FRONTIER BAG INC (Continued) **1000322304**

Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19890609
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MOKG
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19890623
Scheduled Compliance Date:	19890626
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20070516
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20070731
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20070516
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20070731
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20011009
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MOJMK
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20011009
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20011009

FRONTIER BAG INC (Continued) **1000322304**

Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MOJMK
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20011009
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20011009
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MOJMK
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20011009
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20170718
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-SA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20170718
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20170718
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-SA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20170718
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20070516
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	ENF

FRONTIER BAG INC (Continued) **1000322304**

Actual Return to Compliance Date:	20070731
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20070516
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20070731
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19890609
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MOKG
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19890623
Scheduled Compliance Date:	19890626
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20070516
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20070731
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20170718
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-SA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20170724
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported

FRONTIER BAG INC (Continued) **1000322304**

Former Citation:	Not reported
Evaluation Date:	20170718
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-SA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20170718
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20070516
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20070731
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20170718
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-SA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20170725
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20070516
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20070731
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20011009
Evaluation Responsible Agency:	State
Found Violation:	Yes

FRONTIER BAG INC (Continued) **1000322304**

Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MOJMK
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20011009
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19890609
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MOKG
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19890623
Scheduled Compliance Date:	19890626
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20070516
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20070731
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20170718
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-SA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20170718
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

US AIRS MINOR:

Envid:	1000322304
Region Code:	07
Programmatic ID:	AIR MO0000002909502063
Facility Registry ID:	110018002212
D and B Number:	Not reported
Primary SIC Code:	2759

FRONTIER BAG INC (Continued) **1000322304**

NAICS Code: 323112
Default Air Classification Code: MIN
Facility Type of Ownership Code: POF
Air CMS Category Code: Not reported
HPV Status: Not reported

US AIRS MINOR:
Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1993-10-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1995-02-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1995-11-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1996-12-11 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212

FRONTIER BAG INC (Continued) **1000322304**

Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1997-11-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1998-09-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1999-11-08 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2000-08-01 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2001-09-04 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

FRONTIER BAG INC (Continued) **1000322304**

Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2003-01-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2004-03-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2004-11-17 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-11-21 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2006-01-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

FRONTIER BAG INC (Continued) **1000322304**

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2007-01-11 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-02-04 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-02-17 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-11-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 07
Programmatic ID: AIR MO0000002909502063
Facility Registry ID: 110018002212
Air Operating Status Code: OPR
Default Air Classification Code: MIN
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards

FRONTIER BAG INC (Continued) **1000322304**

Activity Date:	2012-10-24 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	07
Programmatic ID:	AIR MO0000002909502063
Facility Registry ID:	110018002212
Air Operating Status Code:	OPR
Default Air Classification Code:	MIN
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2014-08-25 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported

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6 **HOLISTIC INDUSTRIES** **RCRA-SQG** **1026833068**
East **14600 S HWY 71** **MOR000566208**
< 1/8 **KANSAS CITY, MO 64147**
0.095 mi.
499 ft.

Relative: **Lower**

Actual: **971 ft.**

RCRA-SQG:

Date Form Received by Agency:		20210826
Handler Name:	HOLISTIC INDUSTRIES	
Handler Address:		14600 S HWY 71
Handler City,State,Zip:		KANSAS CITY, MO 64147-1006
EPA ID:		MOR000566208
Contact Name:		GAREN STEPHENS
Contact Address:		14600 S HWY 71
Contact City,State,Zip:		KANSAS CITY, MO 64147-1006
Contact Telephone:		336-324-4316
Contact Fax:		Not reported
Contact Email:		GAREN.STEPHENS@HOLISTICINDUSTRIES.COM
Contact Title:		NATIONAL DIRECTOR OF OPERATIONS
EPA Region:		07
Land Type:		Private
Federal Waste Generator Description:		Small Quantity Generator
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		14600 S HWY 71
Mailing City,State,Zip:		KANSAS CITY, MO 64147-1006
Owner Name:		JOSH GENDERSON
Owner Type:		Private
Operator Name:		JOSH GENDERSON
Operator Type:		Private
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No

HOLISTIC INDUSTRIES (Continued) **1026833068**

Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20210912
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D002

HOLISTIC INDUSTRIES (Continued) **1026833068**

Waste Description: CORROSIVE WASTE

Waste Code: D003
Waste Description: REACTIVE WASTE

Waste Code: D022
Waste Description: CHLOROFORM

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	JOSH GENDERSON
Legal Status:	Private
Date Became Current:	20200801
Date Ended Current:	Not reported
Owner/Operator Address:	1900 W PARK DR SUITE 280
Owner/Operator City,State,Zip:	WESTBORO, MA 01581-3919
Owner/Operator Telephone:	336-324-4316
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	JOSH GENDERSON
Legal Status:	Private
Date Became Current:	20200801
Date Ended Current:	Not reported
Owner/Operator Address:	1900 W PARK DR SUITE 280
Owner/Operator City,State,Zip:	WESTBORO, MA 01581-3919
Owner/Operator Telephone:	336-324-4316
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	JOSH GENDERSON
Legal Status:	Private
Date Became Current:	20200801
Date Ended Current:	Not reported
Owner/Operator Address:	1900 W PARK DR SUITE 280
Owner/Operator City,State,Zip:	WESTBORO, MA 01581-3919
Owner/Operator Telephone:	336-324-4316
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	JOSH GENDERSON
Legal Status:	Private
Date Became Current:	20200801
Date Ended Current:	Not reported
Owner/Operator Address:	1900 W PARK DR SUITE 280
Owner/Operator City,State,Zip:	WESTBORO, MA 01581-3919
Owner/Operator Telephone:	336-324-4316
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

HOLISTIC INDUSTRIES (Continued) **1026833068**

Historic Generators:

Receive Date:		20210816
Handler Name:	HOLISTIC INDUSTRIES	
Federal Waste Generator Description:		Small Quantity Generator
State District Owner:		Not reported
Large Quantity Handler of Universal Waste:		No
Recognized Trader Importer:		No
Recognized Trader Exporter:		No
Spent Lead Acid Battery Importer:		No
Spent Lead Acid Battery Exporter:		No
Current Record:		No
Non Storage Recycler Activity:		No
Electronic Manifest Broker:		No

Receive Date:		20210826
Handler Name:	HOLISTIC INDUSTRIES	
Federal Waste Generator Description:		Small Quantity Generator
State District Owner:		Not reported
Large Quantity Handler of Universal Waste:		No
Recognized Trader Importer:		No
Recognized Trader Exporter:		No
Spent Lead Acid Battery Importer:		No
Spent Lead Acid Battery Exporter:		No
Current Record:		Yes
Non Storage Recycler Activity:		No
Electronic Manifest Broker:		No

List of NAICS Codes and Descriptions:

NAICS Code:	111419
NAICS Description:	OTHER FOOD CROPS GROWN UNDER COVER

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

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7 **TRUE VALUE COMPANY** **RCRA-SQG** **1000631621**
SE **14900 S HWY 71** **LUST** **MOD985808427**
1/8-1/4 **KANSAS CITY, MO 64147** **UST**
0.224 mi. **SPILLS**
1184 ft.

Relative:
Lower

Actual:
964 ft.

RCRA-SQG:

Date Form Received by Agency:		20191213
Handler Name:	TRUE VALUE COMPANY	
Handler Address:		14900 S HWY 71
Handler City,State,Zip:		KANSAS CITY, MO 64147-1014
EPA ID:		MOD985808427
Contact Name:		RICHARD PREWITT
Contact Address:		14900 S 71 HWY
Contact City,State,Zip:		KANSAS CITY, MO 64147-1014
Contact Telephone:		816-348-6304
Contact Fax:		Not reported
Contact Email:		Not reported

TRUE VALUE COMPANY (Continued) **1000631621**

Contact Title:	OFFICE MANAGER
EPA Region:	07
Land Type:	Private
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	14900 S 71 HWY
Mailing City,State,Zip:	KANSAS CITY, MO 64147-1014
Owner Name:	TRUE VALUE COMPANY
Owner Type:	Private
Operator Name:	TRUE VALUE COMPANY
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported

TRUE VALUE COMPANY (Continued) **1000631621**

Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20200101
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D002
Waste Description:	CORROSIVE WASTE
Waste Code:	D005
Waste Description:	BARIUM
Waste Code:	D007
Waste Description:	CHROMIUM
Waste Code:	D008
Waste Description:	LEAD
Waste Code:	D009
Waste Description:	MERCURY
Waste Code:	D016
Waste Description:	2,4-D (2,4-DICHLOROPHENOXYACETIC ACID)
Waste Code:	D018
Waste Description:	BENZENE
Waste Code:	D035
Waste Description:	METHYL ETHYL KETONE
Waste Code:	D039
Waste Description:	TETRACHLOROETHYLENE
Waste Code:	D040
Waste Description:	TRICHLORETHYLENE
Waste Code:	F001
Waste Description:	THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED

TRUE VALUE COMPANY (Continued) **1000631621**

IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F002
Waste Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F003
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F005
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: TRUE VALUE COMPANY
Legal Status: Private
Date Became Current: 20021226
Date Ended Current: Not reported
Owner/Operator Address: 8600 W BRYN MAWR AVE
Owner/Operator City,State,Zip: CHICAGO, IL 60631-3505
Owner/Operator Telephone: 773-695-5000
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: TRUSERV
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 14900 S HWY 71
Owner/Operator City,State,Zip: KANSAS CITY, MO 64147
Owner/Operator Telephone: 816-331-7000
Owner/Operator Telephone Ext: Not reported

TRUE VALUE COMPANY (Continued) **1000631621**

Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	TRUE VALUE COMPANY
Legal Status:	Private
Date Became Current:	20021226
Date Ended Current:	Not reported
Owner/Operator Address:	8600 W BRYN MAWR AVE
Owner/Operator City,State,Zip:	CHICAGO, IL 60631-3505
Owner/Operator Telephone:	773-695-5000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	TRUE VALUE CO
Legal Status:	Private
Date Became Current:	20090706
Date Ended Current:	Not reported
Owner/Operator Address:	8600 W BRYN MAWR AVE
Owner/Operator City,State,Zip:	CHICAGO, IL 60631-3505
Owner/Operator Telephone:	773-695-5000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	TRUE VALUE COMPANY
Legal Status:	Private
Date Became Current:	20021226
Date Ended Current:	Not reported
Owner/Operator Address:	8600 W BRYN MAWR AVE
Owner/Operator City,State,Zip:	CHICAGO, IL 60631-3505
Owner/Operator Telephone:	773-695-5000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	TRUE VALUE
Legal Status:	Private
Date Became Current:	20050101
Date Ended Current:	Not reported
Owner/Operator Address:	14900 S HWY 71
Owner/Operator City,State,Zip:	KANSAS CITY, MO 64147
Owner/Operator Telephone:	816-331-7000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	TRUE VALUE CO
Legal Status:	Private
Date Became Current:	20090706
Date Ended Current:	Not reported
Owner/Operator Address:	8600 W BRYN MAWR AVE

TRUE VALUE COMPANY (Continued) **1000631621**

Owner/Operator City,State,Zip: CHICAGO, IL 60631-3505
Owner/Operator Telephone: 773-695-5000
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: TRUE VALUE COMPANY
Legal Status: Private
Date Became Current: 20021226
Date Ended Current: Not reported
Owner/Operator Address: 8600 W BRYN MAWR AVE
Owner/Operator City,State,Zip: CHICAGO, IL 60631-3505
Owner/Operator Telephone: 773-695-5000
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: TRUSERV
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 14900 S HWY 71
Owner/Operator City,State,Zip: KANSAS CITY, MO 64147
Owner/Operator Telephone: 816-331-7000
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: TRUE VALUE
Legal Status: Private
Date Became Current: 20050101
Date Ended Current: Not reported
Owner/Operator Address: 14900 S HWY 71
Owner/Operator City,State,Zip: KANSAS CITY, MO 64147
Owner/Operator Telephone: 816-331-7000
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20191213
Handler Name: TRUE VALUE COMPANY
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19990317

TRUE VALUE COMPANY (Continued) **1000631621**

Handler Name: TRUSERV
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20060828
Handler Name: TRUE VALUE
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20090706
Handler Name: TRUE VALUE CO
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20191125
Handler Name: TRUE VALUE COMPANY
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 44413
NAICS Description: HARDWARE STORES

NAICS Code: 49311
NAICS Description: GENERAL WAREHOUSING AND STORAGE

TRUE VALUE COMPANY (Continued) **1000631621**

Facility Has Received Notices of Violation:

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20090521
Actual Return to Compliance Date:	20090720
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	20090609
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	MOCS
Enforcement Responsible Sub-Organization:	ENF
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20090521
Actual Return to Compliance Date:	20090720
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	20090609
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported

TRUE VALUE COMPANY (Continued) **1000631621**

Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	MOCS
Enforcement Responsible Sub-Organization:	ENF
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

TRUE VALUE COMPANY (Continued) **1000631621**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20090521
Actual Return to Compliance Date:	20090720
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	20090609
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	MOCS
Enforcement Responsible Sub-Organization:	ENF
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20090521
Actual Return to Compliance Date:	20090720
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	20090609
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

TRUE VALUE COMPANY (Continued) **1000631621**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: MOCS
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 20191114
Actual Return to Compliance Date: 20191126
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 1
Date of Enforcement Action: 20191125
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: MO-UM
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

TRUE VALUE COMPANY (Continued) **1000631621**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20191114
Actual Return to Compliance Date:	20191126
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	1
Date of Enforcement Action:	20191125
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	MO-UM
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20090521
Actual Return to Compliance Date:	20090720
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	20090609
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

TRUE VALUE COMPANY (Continued) **1000631621**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: MOCS
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 20090521
Actual Return to Compliance Date: 20090720
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 20090609
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: MOCS
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

TRUE VALUE COMPANY (Continued) **1000631621**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20090521
Actual Return to Compliance Date:	20090720
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	20090609
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	MOCS
Enforcement Responsible Sub-Organization:	ENF
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Manifest
Date Violation was Determined:	20090521
Actual Return to Compliance Date:	20090720
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	20090609
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

TRUE VALUE COMPANY (Continued) **1000631621**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: MOCS
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 20191114
Actual Return to Compliance Date: 20191126
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 1
Date of Enforcement Action: 20191125
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: MO-UM
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

TRUE VALUE COMPANY (Continued) **1000631621**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Used Oil - Generators
Date Violation was Determined:	20191114
Actual Return to Compliance Date:	20191115
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	1
Date of Enforcement Action:	20191125
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	MO-UM
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20090521
Actual Return to Compliance Date:	20090720
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	20090609
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

TRUE VALUE COMPANY (Continued) **1000631621**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: MOCS
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 20090521
Actual Return to Compliance Date: 20090720
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 20090609
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: MOCS
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

TRUE VALUE COMPANY (Continued) **1000631621**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20090521
Actual Return to Compliance Date:	20090720
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	20090609
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	MOCS
Enforcement Responsible Sub-Organization:	ENF
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	20090521
Actual Return to Compliance Date:	20090720
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	20090609
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

TRUE VALUE COMPANY (Continued) **1000631621**

Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	MOCS
Enforcement Responsible Sub-Organization:	ENF
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20090521
Actual Return to Compliance Date:	20090720
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	20090609
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	MOCS
Enforcement Responsible Sub-Organization:	ENF
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

TRUE VALUE COMPANY (Continued) **1000631621**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Universal Waste - Small Quantity Handlers
Date Violation was Determined:	20191114
Actual Return to Compliance Date:	20191114
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	1
Date of Enforcement Action:	20191125
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	MO-UM
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

TRUE VALUE COMPANY (Continued) **1000631621**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 20191114
Actual Return to Compliance Date: 20191126
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 1
Date of Enforcement Action: 20191125
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: MO-UM
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

TRUE VALUE COMPANY (Continued) **1000631621**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	LDR - General
Date Violation was Determined:	20090521
Actual Return to Compliance Date:	20090720
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	20090609
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	MOCS
Enforcement Responsible Sub-Organization:	ENF
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20090521
Actual Return to Compliance Date:	20090720
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	20090609
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported

TRUE VALUE COMPANY (Continued) **1000631621**

Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: MOCS
Enforcement Responsible Sub-Organization: ENF
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 20191114
Actual Return to Compliance Date: 20191126
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 1
Date of Enforcement Action: 20191125
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: MO-UM
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

TRUE VALUE COMPANY (Continued) **1000631621**

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20191114
Actual Return to Compliance Date:	20191115
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	1
Date of Enforcement Action:	20191125
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	MO-UM
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	20090521
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MOCS
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20090720
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20090521
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MOCS

TRUE VALUE COMPANY (Continued) **1000631621**

Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20090720
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20061128
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE ASSISTANCE VISIT
Evaluation Responsible Person Identifier:	MO AS
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20090521
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MOCS
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20090720
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20090521
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MOCS
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20090720
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20191114
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-UM
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20191126
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

TRUE VALUE COMPANY (Continued) **1000631621**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20191114
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-UM
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20191126
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20090521
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MOCS
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20090720
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20090521
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MOCS
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20090720
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20090521
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MOCS
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20090720
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20090521
Evaluation Responsible Agency:	State

TRUE VALUE COMPANY (Continued) **1000631621**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MOCS
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20090720
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20191114
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-UM
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20191126
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20191114
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-UM
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20191115
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20090521
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MOCS
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20090720
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20090521
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MOCS
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20090720

TRUE VALUE COMPANY (Continued) **1000631621**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20090521
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MOCS
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20090720
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20090521
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MOCS
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20090720
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20090521
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MOCS
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20090720
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20191114
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-UM
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20191114
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

TRUE VALUE COMPANY (Continued) **1000631621**

Evaluation Date:	20081023
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MOJC
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20191114
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-UM
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20191126
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20090521
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MOCS
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20090720
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20090521
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MOCS
Evaluation Responsible Sub-Organization:	ENF
Actual Return to Compliance Date:	20090720
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20191114
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-UM

TRUE VALUE COMPANY (Continued) **1000631621**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20191126
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20191114
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MO-UM
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20191115
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

LUST:

Name:	TRU SERV KANSAS CITY FACILITY
Address:	14900 US HWY 71
City,State,Zip:	KANSAS CITY, MO 64147
Facility ID:	ST0001980
Region:	KC - Kansas City Regional Office
Lat/Long (dms):	Not reported
Spill Number:	980603-1330-EEG
Release Date:	06/03/1998
Release Type:	UNDERGROUND STORAGE TANK
Date Cleanup Started:	06/01/1998
Date Cleanup Finished:	09/11/2000
Expedited:	No
Expedited Date:	Not reported
Expenditures From The American Recovery and Reinvestment Act of 2009	No
Reopened Date:	Not reported
Number Of Remediation Monitoring Wells:	0
Active:	No
Date Of NFA Letter From DNR:	**2000-09-11 00:00:00**
Date Record Meets Archive Criteria:	Not reported
Remediation ID:	R006086
Rank:	Not reported
Emergeny Response Date:	06/03/1998
Emergency Cleanup Start:	06/03/1998
Referred To DGLS for Investigation:	Not reported
Contractor Performing Clean Up:	270
RBCA NFA:	No
Project Manager:	L
Next Correspondence/Update With Fac:	Not reported
Date Added:	06/09/1998
Date Record Edited:	09/11/2000
Person Adding Or Editing Record:	KOON, K
Facility Sent To State Archive:	Yes
Date Remediation Unit Closed The File:	Not reported
Site Affectd By Funding Level From PSTIF:	No

TRUE VALUE COMPANY (Continued) **1000631621**

General Comments: 2/8/2000 JP approved work plan to gwm and further characterize extent of contamination. 9/11/2000 rev site characterization report and gw monitoring report (6/2/00). Analytical results indicate that contamination is not migrating and cannot be excavated due to buildings. Issued NoFA with stipulation that contamination should be cleaned up during any future development.

UST:

Facility ID:	ST0001980
Region:	KC
Easting:	367227.44
Northing:	4301860.54
Owner Of Geospatial Data:	Hazardous Waste Program
Geospatial Data Collected By:	VANCE, S
Date GIS Data Collected:	08/27/2013
Lat/Long:	38.84827 / -94.54586
Lat/Long (dms):	Not reported

Tanks:

Owner:

Owner ID:	OW01724
Owner Name:	COTTER & COMPANY
Owner Address:	2740 N CLYBOURN AVE
Owner City,St,Zip:	CHICAGO, IL 60614
Owner County Code:	Not reported
Owner Phone:	9752700
Mail Was Not Deliverable:	No
Is Owner Active?:	No
Date Registration Received:	Not reported
Date Record Added:	1995-06-30 00:00:00
Date Record Edited:	Not reported
Name of Person Editing Record:	Not reported

Tank ID:	1
Tank Double Wall:	0
Tank Type:	Below Ground
Tank Status:	**Removed**
Meet 98 Update Requirements:	Not reported
Date Tank Installed:	Not reported
Tank Material:	Fiberglass
Code for Tank Material Manufacturer:	Not reported
Code for Tank Installer:	Not reported
Other Type Of Tank Material:	Not reported
Tank Internal Protection:	Not reported
Other Tank Internal Protection:	I Lining SW1856
Tank Internal Protection Date:	Not reported
Tank External Protection:	Not reported
Other Type Tank Extrn Protec:	Not reported
Tank External Protec Date:	Not reported
Date Tank Last Used:	05/02/1998
Date Tank Permanently Closed/ Removed:	06/04/1998
Dt Tk Exp Brought InUse/Internal Tracking:	Not reported
Tank Fees Waived:	No
Expedite Closure On Tank?:	No
Responsible Person Expediting Closure:	Not reported

TRUE VALUE COMPANY (Continued) **1000631621**

Temporary Status Verified Date:	Not reported
Admin Fee 585:	Not reported
Date Administratively Closed:	Not reported
Date Record Added:	06/30/1995
Date Record Edited:	Not reported
Person Adding/Editing Record:	Not reported
Date Of NFA Letter:	09/14/2000
Is Tank Used For Emergency Generator:	No
Date Closure Notice Received:	04/27/1998
Date Of Aprroval Letter:	04/29/1998
Firm Closing Tank:	MH ENVIRONMENTAL INC
Date Closure Report Received:	08/17/1998
Registration End Date:	Not reported
LockOut Flag:	No
Comments:	Removed 2-10,000, 750, 300. NFA letter issued 9/14/2000 by K. Koon. JS Not reported

Tank Compartment:

Tanks Use:	False
Compartment No:	1
Tank Compartment PK:	4937
Tank PK:	4937
Case Number:	Not reported
Compartment Status:	Removed
Compartment Temp Verified Dt:	Not reported
Capacity:	10000
Substance:	Diesel
Substance Other:	Not reported
Hazardous Substance:	Not reported
Mixture:	False
Date of Last Use:	1998-05-02 00:00:00
Pipe Installation Date:	Not reported
Pipe System:	Not reported
Pipe Material:	1
Pipe Material Other:	Not reported
Pipe Protection:	Not reported
Pipe Protection Date:	Not reported
Pipe Double Wall:	0
Spill Protection:	False

Owner:

Owner ID:	OW01724
Owner Name:	COTTER & COMPANY
Owner Address:	2740 N CLYBOURN AVE
Owner City,St,Zip:	CHICAGO, IL 60614
Owner County Code:	Not reported
Owner Phone:	9752700
Mail Was Not Deliverable:	No
Is Owner Active?:	No
Date Registration Received:	Not reported
Date Record Added:	1995-06-30 00:00:00
Date Record Edited:	Not reported
Name of Person Editing Record:	Not reported

Tank ID: 2

TRUE VALUE COMPANY (Continued) **1000631621**

Tank Double Wall:	0	
Tank Type:	Below Ground	
Tank Status:	**Removed**	
Meet 98 Update Requirements:	Not reported	
Date Tank Installed:	Not reported	
Tank Material:	Fiberglass	
Code for Tank Material Manufacturer:	Not reported	
Code for Tank Installer:	Not reported	
Other Type Of Tank Material:	Not reported	
Tank Internal Protection:	Not reported	
Other Tank Internal Protection:	Not reported	
Tank Internal Protection Date:	Not reported	
Tank External Protection:	Not reported	
Other Type Tank Extrn Protec:	Not reported	
Tank External Protec Date:	Not reported	
Date Tank Last Used:	05/02/1998	
Date Tank Permanently Closed/ Removed:	06/04/1998	
Dt Tk Exp Brought InUse/Internal Tracking:		Not reported
Tank Fees Waived:	No	
Expedite Closure On Tank?:	No	
Responsible Person Expediting Closure:	Not reported	
Temporary Status Verified Date:	Not reported	
Admin Fee 585:	Not reported	
Date Administratively Closed:	Not reported	
Date Record Added:	06/30/1995	
Date Record Edited:	Not reported	
Person Adding/Editing Record:	Not reported	
Date Of NFA Letter:	09/14/2000	
Is Tank Used For Emergency Generator:	No	
Date Closure Notice Received:	04/27/1998	
Date Of Aprroval Letter:	04/29/1998	
Firm Closing Tank:	MH ENVIRONMENTAL INC	
Date Closure Report Received:	08/17/1998	
Registration End Date:	Not reported	
LockOut Flag:	No	
Comments:	Removed 2-10,000, 750, 300. NFA letter issued 9/14/2000 by K. Koon. JS	
	Not reported	

Tank Compartment:

Tanks Use:	False
Compartment No:	1
Tank Compartment PK:	4938
Tank PK:	4938
Case Number:	Not reported
Compartment Status:	Removed
Compartment Temp Verified Dt:	Not reported
Capacity:	10000
Substance:	Diesel
Substance Other:	Not reported
Hazardous Substance:	Not reported
Mixture:	False
Date of Last Use:	1998-05-02 00:00:00
Pipe Installation Date:	Not reported
Pipe System:	Not reported
Pipe Material:	2
Pipe Material Other:	Not reported
Pipe Protection:	Not reported
Pipe Protection Date:	Not reported

TRUE VALUE COMPANY (Continued) **1000631621**

Pipe Double Wall: 0
Spill Protection: False

Owner:
Owner ID: OW01724
Owner Name: COTTER & COMPANY
Owner Address: 2740 N CLYBOURN AVE
Owner City,St,Zip: CHICAGO, IL 60614
Owner County Code: Not reported
Owner Phone: 9752700
Mail Was Not Deliverable: No
Is Owner Active?: No
Date Registration Received: Not reported
Date Record Added: 1995-06-30 00:00:00
Date Record Edited: Not reported
Name of Person Editing Record: Not reported

Tank ID: 3
Tank Double Wall: 0
Tank Type: Below Ground
Tank Status: **Removed**
Meet 98 Update Requirements: Not reported
Date Tank Installed: Not reported
Tank Material: Steel
Code for Tank Material Manufacturer: Not reported
Code for Tank Installer: Not reported
Other Type Of Tank Material: Not reported
Tank Internal Protection: Not reported
Other Tank Internal Protection: Not reported
Tank Internal Protection Date: Not reported
Tank External Protection: Not reported
Other Type Tank Extrn Protec: Not reported
Tank External Protec Date: Not reported
Date Tank Last Used: 01/01/1991
Date Tank Permanently Closed/ Removed: 06/04/1998
Dt Tk Exp Brought InUse/Internal Tracking: Not reported
Tank Fees Waived: No
Expedite Closure On Tank?: No
Responsible Person Expediting Closure: Not reported
Temporary Status Verified Date: Not reported
Admin Fee 585: Not reported
Date Administratively Closed: Not reported
Date Record Added: 06/30/1995
Date Record Edited: 04/28/1998
Person Adding/Editing Record: N$PERRT
Date Of NFA Letter: 09/14/2000
Is Tank Used For Emergency Generator: No
Date Closure Notice Received: 04/27/1998
Date Of Aprroval Letter: 04/29/1998
Firm Closing Tank: MH ENVIRONMENTAL INC
Date Closure Report Received: 08/17/1998
Registration End Date: Not reported
LockOut Flag: No
Comments: Removed 2-10,000, 750, 300. NFA letter issued 9/14/2000 by K. Koon. JS
Not reported

TRUE VALUE COMPANY (Continued) **1000631621**

Tank Compartment:

Tanks Use:	False
Compartment No:	1
Tank Compartment PK:	4939
Tank PK:	4939
Case Number:	Not reported
Compartment Status:	Removed
Compartment Temp Verified Dt:	Not reported
Capacity:	750
Substance:	Other
Substance Other:	P.NEW OIL
Hazardous Substance:	Not reported
Mixture:	False
Date of Last Use:	1991-01-01 00:00:00
Pipe Installation Date:	Not reported
Pipe System:	Not reported
Pipe Material:	1
Pipe Material Other:	Not reported
Pipe Protection:	Not reported
Pipe Protection Date:	Not reported
Pipe Double Wall:	0
Spill Protection:	False

Owner:

Owner ID:	OW01724
Owner Name:	COTTER & COMPANY
Owner Address:	2740 N CLYBOURN AVE
Owner City,St,Zip:	CHICAGO, IL 60614
Owner County Code:	Not reported
Owner Phone:	9752700
Mail Was Not Deliverable:	No
Is Owner Active?:	No
Date Registration Received:	Not reported
Date Record Added:	1995-06-30 00:00:00
Date Record Edited:	Not reported
Name of Person Editing Record:	Not reported

Tank ID:	4
Tank Double Wall:	0
Tank Type:	Below Ground
Tank Status:	**Removed**
Meet 98 Update Requirements:	Not reported
Date Tank Installed:	Not reported
Tank Material:	Steel
Code for Tank Material Manufacturer:	Not reported
Code for Tank Installer:	Not reported
Other Type Of Tank Material:	Not reported
Tank Internal Protection:	Not reported
Other Tank Internal Protection:	Not reported
Tank Internal Protection Date:	Not reported
Tank External Protection:	Not reported
Other Type Tank Extrn Protec:	Not reported
Tank External Protec Date:	Not reported
Date Tank Last Used:	01/01/1991

TRUE VALUE COMPANY (Continued) **1000631621**

Date Tank Permanently Closed/ Removed: 06/04/1998
Dt Tk Exp Brought InUse/Internal Tracking: Not reported
Tank Fees Waived: No
Expedite Closure On Tank?: No
Responsible Person Expediting Closure: Not reported
Temporary Status Verified Date: Not reported
Admin Fee 585: Not reported
Date Administratively Closed: Not reported
Date Record Added: 06/30/1995
Date Record Edited: 04/28/1998
Person Adding/Editing Record: N$PERRT
Date Of NFA Letter: 09/14/2000
Is Tank Used For Emergency Generator: No
Date Closure Notice Received: 04/27/1998
Date Of Aprroval Letter: 04/29/1998
Firm Closing Tank: MH ENVIRONMENTAL INC
Date Closure Report Received: 08/17/1998
Registration End Date: Not reported
LockOut Flag: No
Comments: Removed 2-10,000, 750, 300. NFA letter issued 9/14/2000 by K. Koon. JS
Not reported

Tank Compartment:
Tanks Use: False
Compartment No: 1
Tank Compartment PK: 4940
Tank PK: 4940
Case Number: Not reported
Compartment Status: Removed
Compartment Temp Verified Dt: Not reported
Capacity: 300
Substance: Used Oil
Substance Other: Not reported
Hazardous Substance: Not reported
Mixture: False
Date of Last Use: 1991-01-01 00:00:00
Pipe Installation Date: Not reported
Pipe System: 4
Pipe Material: 1
Pipe Material Other: Not reported
Pipe Protection: Not reported
Pipe Protection Date: Not reported
Pipe Double Wall: 0
Spill Protection: False

Tank Aug 2011:
Facility Id: ST0001980
Tank Id: 2
Site Usage: Not reported
Risk Type: Not reported
Soil Type: Not reported
GW Flow: Not reported
Offsite Impact: Not reported
Free Product: Not reported
Drinking Water: Not reported
Closed Under: Not reported

TRUE VALUE COMPANY (Continued) **1000631621**

No Drinking Wells:	No
No Buildings:	No
Vapor Barrier:	0
St Louis Mo:	No
Special Well Area:	No
Surface Cap:	No
No Excavation:	No
Facility Id:	ST0001980
Tank Id:	3
Site Usage:	Not reported
Risk Type:	Not reported
Soil Type:	Not reported
GW Flow:	Not reported
Offsite Impact:	Not reported
Free Product:	Not reported
Drinking Water:	Not reported
Closed Under:	Not reported
No Drinking Wells:	No
No Buildings:	No
Vapor Barrier:	0
St Louis Mo:	No
Special Well Area:	No
Surface Cap:	No
No Excavation:	No
Facility Id:	ST0001980
Tank Id:	4
Site Usage:	Not reported
Risk Type:	Not reported
Soil Type:	Not reported
GW Flow:	Not reported
Offsite Impact:	Not reported
Free Product:	Not reported
Drinking Water:	Not reported
Closed Under:	Not reported
No Drinking Wells:	No
No Buildings:	No
Vapor Barrier:	0
St Louis Mo:	No
Special Well Area:	No
Surface Cap:	No
No Excavation:	No
Facility Id:	ST0001980
Tank Id:	1
Site Usage:	Not reported
Risk Type:	Not reported
Soil Type:	Not reported
GW Flow:	Not reported
Offsite Impact:	Not reported
Free Product:	Not reported
Drinking Water:	Not reported
Closed Under:	Not reported
No Drinking Wells:	No
No Buildings:	No
Vapor Barrier:	0

TRUE VALUE COMPANY (Continued) **1000631621**

St Louis Mo:	No
Special Well Area:	No
Surface Cap:	No
No Excavation:	No

SPILLS:

Name:	Not reported
Address:	14900 HIGHWAY 71
City,State,Zip:	KANSAS CITY, MO
Facility ID:	9806031330EEG
Spill Number:	9806031330EEG
Reported Date:	06/03/1998
Reported Time:	13:30:00
Regional Office:	KCRO
Latitude:	Not reported
Property Code:	8
Property Sub Category:	Not reported
Longitude:	Not reported
UTM Zone For GPS:	Not reported
Cause Sub Category:	4
Email:	False
Ongoing:	False
Is A Chemical Pickup Needed?:	False
Cause:	10
Contact Name:	Doug Goodman
Contact Phone #:	8163317000
Contact Id:	7820
Organization Name:	Tru Server KC Facility
Organization Address1:	Not reported
Discovery Date:	06/02/1998
Organization Address2:	Not reported
Discovery Time:	Not reported
Organization City:	Not reported
Incident Date:	06/02/1998
Organization State:	Not reported
Incident Time:	Not reported
Organization Zip:	Not reported
GPS Code:	Not reported
Date Of Incident Search:	06/02/1998
UTM North:	Not reported
UTM East:	Not reported
Cause Description:	Leaking Tank System
Cause Sub Category:	Not reported
Report Origin:	69
Lead Agency:	Private - Responsible Party Contractor
Additional Information:	Spill Summary: CALLER REPORTS FINDING CONTAMINATION DURING THE REMOVAL OF UNDERGROUND STORAGE TANK'S. Response Summary: CALLER WILL COORDINATE A CLEAN UP WITH HWP/TANKS SECTION. Additional Information: UT - 0001980 NEW OIL - 1000 GALLON WASTE OIL - 500 GALLON
Entity Telephone:	8163317000
Property Code Description:	Distribution Facility
Property Sub Category:	Not reported
Description:	Not reported
Job Code:	Not reported

Cleanup Actions:

TRUE VALUE COMPANY (Continued) **1000631621**

Spill Number: 9806031330EEG
Incident ID: 7820
Cleanup Action Code: 14
Cleanup Action Description: Pending

Report Distribution:
Spill Number: 9806031330EEG
Incident ID: 7820
Agent Code: 13
Agency: DNR - ERP - Leaking Underground ST Section

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8 **RICHARDS GEBAUR AIR FORCE BASE** **SEMS** **1000481425**
West **HWY 150 & US 71 HWY** **ROD** **MO9571824292**
1/4-1/2 **BELTON, MO 64012**
0.375 mi.
1982 ft.

Relative:
Lower

Actual:
1005 ft.

SEMS:
Site ID: 0701793
EPA ID: MO9571824292
Name: RICHARDS GEBAUR AIR FORCE BASE
Address: HWY 150 & US 71 HWY
Address 2: Not reported
City,State,Zip: BELTON, MO 64012
Cong District: 04
FIPS Code: 29037
Latitude: Not reported
Longitude: Not reported
FF: Y
NPL: Not on the NPL
Non NPL Status: Referred to Removal - NFRAP

SEMS Detail:
Region: 07
Site ID: 0701793
EPA ID: MO9571824292
Site Name: RICHARDS GEBAUR AIR FORCE BASE
NPL: N
FF: Y
OU: 00
Action Code: TY
Action Name: FF SI REV
SEQ: 1
Start Date: 1996-11-01 05:00:00
Finish Date: 11/1/1996 5:00:00 AM
Qual: N
Current Action Lead: EPA Perf In-Hse

Region: 07
Site ID: 0701793
EPA ID: MO9571824292
Site Name: RICHARDS GEBAUR AIR FORCE BASE
NPL: N
FF: Y
OU: 00
Action Code: SI
Action Name: SI

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

SEQ:	2
Start Date:	1998-01-23 05:00:00
Finish Date:	1/23/1998 5:00:00 AM
Qual:	W
Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	03
Action Code:	RS
Action Name:	RV ASSESS
SEQ:	1
Start Date:	1998-01-13 05:00:00
Finish Date:	1/13/1998 5:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	00
Action Code:	DS
Action Name:	DISCVRY
SEQ:	1
Start Date:	1981-07-22 04:00:00
Finish Date:	7/22/1981 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	00
Action Code:	MA
Action Name:	ST COOP
SEQ:	1
Start Date:	1997-10-01 04:00:00
Finish Date:	9/30/2001 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

OU:	01
Action Code:	NH
Action Name:	FF RI
SEQ:	5
Start Date:	1990-07-01 04:00:00
Finish Date:	7/1/1990 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	02
Action Code:	LV
Action Name:	FF RV
SEQ:	5
Start Date:	1991-11-08 05:00:00
Finish Date:	2/1/1992 5:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	18
Start Date:	2002-02-12 05:00:00
Finish Date:	5/29/2002 4:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	15
Start Date:	2000-02-24 05:00:00
Finish Date:	5/23/2000 4:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	03
Action Code:	EE
Action Name:	EE/CA
SEQ:	2
Start Date:	2002-08-01 04:00:00
Finish Date:	9/20/2002 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	16
Start Date:	2002-02-01 05:00:00
Finish Date:	3/15/2002 5:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	25
Start Date:	2000-03-09 05:00:00
Finish Date:	5/19/2000 4:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	26
Start Date:	2000-02-15 05:00:00
Finish Date:	3/24/2001 5:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	02
Action Code:	LV
Action Name:	FF RV
SEQ:	27
Start Date:	2000-02-07 05:00:00
Finish Date:	4/6/2000 4:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	28
Start Date:	1999-12-16 05:00:00
Finish Date:	3/1/2000 5:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	14
Start Date:	2000-07-25 04:00:00
Finish Date:	10/2/2000 4:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	02
Action Code:	LV
Action Name:	FF RV
SEQ:	10
Start Date:	1993-01-02 05:00:00
Finish Date:	12/31/1993 5:00:00 AM

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	02
Action Code:	LV
Action Name:	FF RV
SEQ:	11
Start Date:	1988-01-02 05:00:00
Finish Date:	12/31/1995 5:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	42
Start Date:	2004-08-10 04:00:00
Finish Date:	9/28/2004 4:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	00
Action Code:	EE
Action Name:	EE/CA
SEQ:	1
Start Date:	2001-06-01 04:00:00
Finish Date:	6/1/2001 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	03
Action Code:	LV
Action Name:	FF RV

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

SEQ: 37
Start Date: 1997-09-15 04:00:00
Finish Date: 9/17/1997 4:00:00 AM
Qual: C
Current Action Lead: Fed Fac

Region: 07
Site ID: 0701793
EPA ID: MO9571824292
Site Name: RICHARDS GEBAUR AIR FORCE BASE
NPL: N
FF: Y
OU: 01
Action Code: LV
Action Name: FF RV
SEQ: 17
Start Date: 2002-02-11 05:00:00
Finish Date: 6/27/2002 4:00:00 AM
Qual: C
Current Action Lead: Fed Fac

Region: 07
Site ID: 0701793
EPA ID: MO9571824292
Site Name: RICHARDS GEBAUR AIR FORCE BASE
NPL: N
FF: Y
OU: 01
Action Code: EE
Action Name: EE/CA
SEQ: 3
Start Date: 2001-07-19 04:00:00
Finish Date: 7/19/2001 4:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 07
Site ID: 0701793
EPA ID: MO9571824292
Site Name: RICHARDS GEBAUR AIR FORCE BASE
NPL: N
FF: Y
OU: 01
Action Code: LV
Action Name: FF RV
SEQ: 6
Start Date: 2001-07-17 04:00:00
Finish Date: 12/19/2001 5:00:00 AM
Qual: C
Current Action Lead: Fed Fac

Region: 07
Site ID: 0701793
EPA ID: MO9571824292
Site Name: RICHARDS GEBAUR AIR FORCE BASE
NPL: N
FF: Y

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	13
Start Date:	2000-01-17 05:00:00
Finish Date:	9/19/2000 4:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	20
Start Date:	2002-08-16 04:00:00
Finish Date:	9/16/2002 4:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	00
Action Code:	AE
Action Name:	RE-USE P
SEQ:	1
Start Date:	1994-09-23 04:00:00
Finish Date:	9/23/1994 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	35
Start Date:	1995-07-05 04:00:00
Finish Date:	7/28/1995 4:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	34
Start Date:	1991-01-02 05:00:00
Finish Date:	12/31/1991 5:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	02
Action Code:	LV
Action Name:	FF RV
SEQ:	8
Start Date:	2002-02-28 05:00:00
Finish Date:	3/16/2002 5:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	32
Start Date:	2003-01-27 05:00:00
Finish Date:	1/31/2003 5:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	41
Start Date:	1995-09-21 04:00:00
Finish Date:	9/29/1995 4:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	03
Action Code:	LV
Action Name:	FF RV
SEQ:	40
Start Date:	2002-09-01 04:00:00
Finish Date:	12/10/2003 5:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	24
Start Date:	2001-11-27 05:00:00
Finish Date:	8/22/2002 4:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	33
Start Date:	1993-10-29 04:00:00
Finish Date:	10/29/1993 4:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	23
Start Date:	2002-02-12 05:00:00
Finish Date:	5/29/2002 4:00:00 AM

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	19
Start Date:	2002-02-15 05:00:00
Finish Date:	3/21/2002 5:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	4
Start Date:	1999-12-28 05:00:00
Finish Date:	12/28/1999 5:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	NH
Action Name:	FF RI
SEQ:	1
Start Date:	1991-10-01 04:00:00
Finish Date:	10/1/1991 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LY
Action Name:	FF RA

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

SEQ:	1
Start Date:	2002-08-01 04:00:00
Finish Date:	9/19/2007 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	03
Action Code:	NH
Action Name:	FF RI
SEQ:	2
Start Date:	1997-07-01 04:00:00
Finish Date:	11/1/1998 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	1
Start Date:	2001-09-10 04:00:00
Finish Date:	8/30/2002 4:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	02
Action Code:	LY
Action Name:	FF RA
SEQ:	2
Start Date:	2002-08-01 04:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

OU:	02
Action Code:	GM
Action Name:	GWTRMON
SEQ:	1
Start Date:	2004-09-23 04:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	00
Action Code:	LZ
Action Name:	FF CR
SEQ:	1
Start Date:	1994-03-01 05:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	03
Action Code:	LV
Action Name:	FF RV
SEQ:	2
Start Date:	2001-12-21 05:00:00
Finish Date:	2/4/2003 5:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	RO
Action Name:	ROD
SEQ:	1
Start Date:	2004-09-23 04:00:00
Finish Date:	9/23/2004 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	00
Action Code:	SI
Action Name:	SI
SEQ:	1
Start Date:	1988-03-01 05:00:00
Finish Date:	12/19/1989 5:00:00 AM
Qual:	W
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	3
Start Date:	1996-01-01 05:00:00
Finish Date:	12/30/1999 5:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	03
Action Code:	LV
Action Name:	FF RV
SEQ:	38
Start Date:	2001-01-12 05:00:00
Finish Date:	12/10/2003 5:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	1984-09-01 05:00:00
Finish Date:	9/30/1984 5:00:00 AM
Qual:	L
Current Action Lead:	Fed Fac

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	02
Action Code:	LV
Action Name:	FF RV
SEQ:	31
Start Date:	2001-11-06 05:00:00
Finish Date:	5/29/2002 4:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	7
Start Date:	2001-11-09 05:00:00
Finish Date:	6/21/2002 4:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	12
Start Date:	2002-02-08 05:00:00
Finish Date:	2/26/2002 5:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac

Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	21
Start Date:	2002-02-26 05:00:00
Finish Date:	2/26/2003 5:00:00 AM

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV
SEQ:	30
Start Date:	2002-04-02 05:00:00
Finish Date:	8/22/2002 4:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	02
Action Code:	NI
Action Name:	FF FS
SEQ:	1
Start Date:	2002-08-30 04:00:00
Finish Date:	9/23/2004 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LW
Action Name:	FF RI/FS
SEQ:	1
Start Date:	2002-08-30 04:00:00
Finish Date:	9/23/2004 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	01
Action Code:	LV
Action Name:	FF RV

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

SEQ: 36
Start Date: 2000-02-07 05:00:00
Finish Date: 4/5/2000 4:00:00 AM
Qual: C
Current Action Lead: Fed Fac

Region: 07
Site ID: 0701793
EPA ID: MO9571824292
Site Name: RICHARDS GEBAUR AIR FORCE BASE
NPL: N
FF: Y
OU: 00
Action Code: LZ
Action Name: FF CR
SEQ: 3
Start Date: 1983-03-31 05:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: Fed Fac

Region: 07
Site ID: 0701793
EPA ID: MO9571824292
Site Name: RICHARDS GEBAUR AIR FORCE BASE
NPL: N
FF: Y
OU: 01
Action Code: LV
Action Name: FF RV
SEQ: 39
Start Date: 1995-06-14 04:00:00
Finish Date: 7/5/1995 4:00:00 AM
Qual: C
Current Action Lead: Fed Fac

Region: 07
Site ID: 0701793
EPA ID: MO9571824292
Site Name: RICHARDS GEBAUR AIR FORCE BASE
NPL: N
FF: Y
OU: 01
Action Code: LV
Action Name: FF RV
SEQ: 22
Start Date: 1999-12-03 05:00:00
Finish Date: 8/15/2000 4:00:00 AM
Qual: C
Current Action Lead: Fed Fac

Region: 07
Site ID: 0701793
EPA ID: MO9571824292
Site Name: RICHARDS GEBAUR AIR FORCE BASE
NPL: N
FF: Y

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

OU:	01
Action Code:	NH
Action Name:	FF RI
SEQ:	3
Start Date:	2003-11-03 05:00:00
Finish Date:	11/3/2003 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	02
Action Code:	LV
Action Name:	FF RV
SEQ:	9
Start Date:	1993-06-17 04:00:00
Finish Date:	10/4/1993 4:00:00 AM
Qual:	C
Current Action Lead:	Fed Fac
Region:	07
Site ID:	0701793
EPA ID:	MO9571824292
Site Name:	RICHARDS GEBAUR AIR FORCE BASE
NPL:	N
FF:	Y
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	2
Start Date:	1984-07-19 05:00:00
Finish Date:	7/19/1984 5:00:00 AM
Qual:	L
Current Action Lead:	St Perf

ROD:

Name:	RICHARDS GEBAUR AIR FORCE BASE
Address:	HWY 150 & US 71 HWY
City,State,Zip:	BELTON, MO 64012
EPA ID:	MO9571824292
RG:	7
Site ID:	701793
Action:	FF ESD
Operable Unit Number:	SOIL REMEDIATION
SEQ ID:	1
Action Completion:	2007-09-19 00:00:00
NPL Status:	Not on the NPL
Non NPL Status:	Referred to Removal - NFRAP
Name:	RICHARDS GEBAUR AIR FORCE BASE
Address:	HWY 150 & US 71 HWY
City,State,Zip:	BELTON, MO 64012

RICHARDS GEBAUR AIR FORCE BASE (Continued) **1000481425**

EPA ID:	MO9571824292
RG:	7
Site ID:	701793
Action:	FF ROD (RCRA Statement of Basis/RTC)
Operable Unit Number:	SOIL REMEDIATION
SEQ ID:	1
Action Completion:	2004-09-23 00:00:00
NPL Status:	Not on the NPL
Non NPL Status:	Referred to Removal - NFRAP

Name:	RICHARDS GEBAUR AIR FORCE BASE
Address:	HWY 150 & US 71 HWY
City,State,Zip:	BELTON, MO 64012
EPA ID:	MO9571824292
RG:	7
Site ID:	701793
Action:	FF ROD (RCRA Statement of Basis/RTC)
Operable Unit Number:	GROUNDWATER SITE SPECIFIC
SEQ ID:	3
Action Completion:	2004-09-23 00:00:00
NPL Status:	Not on the NPL
Non NPL Status:	Referred to Removal - NFRAP

Count: 1 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
GRANDVIEW	U004248771	ROSE AUTO REPAIR	12630 US-71 FRONTAGE	64030	LUST, UST

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
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: 02/03/2022
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 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 5
Telephone 312-886-6686

EPA Region 10
Telephone 206-553-8665

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6774

EPA Region 9
Telephone: 415-947-4246

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
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: 02/03/2022
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.

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: 02/03/2022
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 know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 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: 02/03/2022
Next Scheduled EDR Contact: 04/25/2022
Data Release Frequency: Quarterly

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 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: 02/03/2022
Next Scheduled EDR Contact: 04/25/2022
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
Date Data Arrived at EDR: 09/15/2021
Date Made Active in Reports: 10/12/2021
Number of Days to Update: 27

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 12/17/2021
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
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: 913-551-7003
Last EDR Contact: 12/17/2021
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
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: 913-551-7003
Last EDR Contact: 12/17/2021
Next Scheduled EDR Contact: 04/04/2022
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 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: 913-551-7003
Last EDR Contact: 12/17/2021
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
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: 913-551-7003
Last EDR Contact: 12/17/2021
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: 11/15/2021
Date Data Arrived at EDR: 11/16/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 84

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 02/07/2022
Next Scheduled EDR Contact: 05/23/2022
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
Date Data Arrived at EDR: 08/23/2021
Date Made Active in Reports: 11/12/2021
Number of Days to Update: 81

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/18/2021
Next Scheduled EDR Contact: 03/07/2022
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
Date Data Arrived at EDR: 08/23/2021
Date Made Active in Reports: 11/12/2021
Number of Days to Update: 81

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/19/2021
Next Scheduled EDR Contact: 03/07/2022
Data Release Frequency: Varies

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
Date Data Arrived at EDR: 09/21/2021
Date Made Active in Reports: 12/15/2021
Number of Days to Update: 85

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 12/16/2021
Next Scheduled EDR Contact: 04/04/2022
Data Release Frequency: Quarterly

Lists of state- and tribal hazardous waste facilities

SHWS: Registry of Confirmed Abandoned or Uncontrolled Hazardous Waste Disposal Sites

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 09/21/2020
Date Data Arrived at EDR: 09/23/2020
Date Made Active in Reports: 12/15/2020
Number of Days to Update: 83

Source: Department of Natural Resources
Telephone: 573-751-1990
Last EDR Contact: 12/02/2021
Next Scheduled EDR Contact: 03/21/2022
Data Release Frequency: Annually

HWS DETAIL: Registry Annual Report

Each site is described in detail in this annual report and includeds the following information: a general description of the site; a summary of any significant environmental problems at and near the site; a summary of any serious health problems in the immediate vicinity of the site; the status of any testing, monitoring or remedial actions in progress or recommended by the department.

Date of Government Version: 06/30/2020
Date Data Arrived at EDR: 02/25/2021
Date Made Active in Reports: 05/18/2021
Number of Days to Update: 82

Source: Department of Natural Resources
Telephone: 573-751-3176
Last EDR Contact: 11/23/2021
Next Scheduled EDR Contact: 03/07/2022
Data Release Frequency: Annually

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF: Solid Waste Facility List

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 04/23/2021
Date Data Arrived at EDR: 04/23/2021
Date Made Active in Reports: 08/09/2021
Number of Days to Update: 108

Source: Department of Natural Resources
Telephone: 573-751-5401
Last EDR Contact: 02/07/2022
Next Scheduled EDR Contact: 05/23/2022
Data Release Frequency: Varies

Lists of state and tribal leaking storage tanks

LAST: Leaking Aboveground Storage Tanks

A listing of leaking aboveground storage tanks.

Date of Government Version: 09/08/2021
Date Data Arrived at EDR: 09/10/2021
Date Made Active in Reports: 12/07/2021
Number of Days to Update: 88

Source: Department of Natural Resources
Telephone: 573-751-6822
Last EDR Contact: 12/08/2021
Next Scheduled EDR Contact: 03/21/2022
Data Release Frequency: Quarterly

LUST: Leaking Underground Storage Tanks

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: 09/08/2021
Date Data Arrived at EDR: 09/10/2021
Date Made Active in Reports: 12/07/2021
Number of Days to Update: 88

Source: Department of Natural Resources
Telephone: 573-751-0135
Last EDR Contact: 12/08/2021
Next Scheduled EDR Contact: 03/21/2022
Data Release Frequency: Quarterly

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

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

Date of Government Version: 04/28/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
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: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
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
Date Data Arrived at EDR: 06/22/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 90

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
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: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
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: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
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: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
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: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
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: 10/14/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 02/01/2022
Number of Days to Update: 88
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 02/07/2022
Next Scheduled EDR Contact: 04/18/2022
Data Release Frequency: Varies

UST: Petroleum Storage Tanks
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: 09/08/2021
Date Data Arrived at EDR: 09/10/2021
Date Made Active in Reports: 12/07/2021
Number of Days to Update: 88
Source: Department of Natural Resources
Telephone: 573-751-0135
Last EDR Contact: 12/08/2021
Next Scheduled EDR Contact: 03/21/2022
Data Release Frequency: Quarterly

AST: Aboveground Petroleum Storage Tanks
Registered Aboveground Storage Tanks.

Date of Government Version: 09/02/2021
Date Data Arrived at EDR: 09/07/2021
Date Made Active in Reports: 09/14/2021
Number of Days to Update: 7
Source: Department of Agriculture
Telephone: 573-751-7062
Last EDR Contact: 11/24/2021
Next Scheduled EDR Contact: 03/14/2022
Data Release Frequency: Semi-Annually

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: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
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: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
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: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
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
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 02/09/2022
Next Scheduled EDR Contact: 05/02/2022
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
Date Data Arrived at EDR: 06/22/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 90

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
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: 10/14/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

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: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
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: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

AUL: Sites with Controls

Activity and use limitations include both engineering controls and institutional controls.

Date of Government Version: 11/01/2021
Date Data Arrived at EDR: 11/10/2021
Date Made Active in Reports: 01/31/2022
Number of Days to Update: 82

Source: Department of Natural Resources
Telephone: 573-751-3176
Last EDR Contact: 02/08/2022
Next Scheduled EDR Contact: 05/23/2022
Data Release Frequency: Quarterly

Lists of state and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

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

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 07/08/2021
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

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
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 12/14/2021
Next Scheduled EDR Contact: 04/04/2022
Data Release Frequency: Varies

VCP: Sites Participating in the Voluntary Cleanup Program

Sites participating in the Voluntary Cleanup Program.

Date of Government Version: 11/01/2021
Date Data Arrived at EDR: 11/10/2021
Date Made Active in Reports: 01/31/2022
Number of Days to Update: 82

Source: Department of Natural Resources
Telephone: 573-526-8913
Last EDR Contact: 02/08/2022
Next Scheduled EDR Contact: 05/23/2022
Data Release Frequency: Quarterly

Lists of state and tribal brownfield sites

BROWNFIELDS: Brownfields Site List

Brownfields are sites where redevelopment and reuse is hampered by known or suspected contamination with hazardous substances. While many brownfield sites are minimally contaminated, potential environmental liability can be a problem for owners, operators, prospective buyers and financial institutions. Because of the large number of these sites, their economic impact especially in heavily industrial areas is substantial.

Date of Government Version: 11/01/2021
Date Data Arrived at EDR: 11/10/2021
Date Made Active in Reports: 01/31/2022
Number of Days to Update: 82

Source: Department of Natural Resources
Telephone: 573-526-8913
Last EDR Contact: 02/08/2022
Next Scheduled EDR Contact: 05/23/2022
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

HIST LF: Solid Waste Facility Database List

This database contains detailed information per site. It is no longer maintained by the Department of Natural Resources. For current information on solid waste facilities/landfills see the SWF/LF database.

Date of Government Version: 04/12/2005
Date Data Arrived at EDR: 07/19/2006
Date Made Active in Reports: 08/18/2006
Number of Days to Update: 30

Source: Department of Natural Resources
Telephone: 573-751-5401
Last EDR Contact: 01/12/2009
Next Scheduled EDR Contact: 04/13/2009
Data Release Frequency: No Update Planned

SWRCY: Solid Waste Recycling Facilities

A listing of recycling center locations.

Date of Government Version: 05/18/2021
Date Data Arrived at EDR: 05/18/2021
Date Made Active in Reports: 08/04/2021
Number of Days to Update: 78

Source: Department of Natural Resources
Telephone: 573-526-3944
Last EDR Contact: 11/18/2021
Next Scheduled EDR Contact: 03/07/2022
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: 01/24/2022
Next Scheduled EDR Contact: 05/09/2022
Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

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: 01/13/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176
Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 01/28/2022
Next Scheduled EDR Contact: 05/09/2022
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: 11/16/2021
Date Data Arrived at EDR: 11/18/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 82
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

CDL: Environmental Emergency Response System
Incidents reported to the Department of Natural Resources where drug lab materials were involved.

Date of Government Version: 06/01/2021
Date Data Arrived at EDR: 06/07/2021
Date Made Active in Reports: 09/01/2021
Number of Days to Update: 86
Source: Department of Natural Resources
Telephone: 573-751-3443
Last EDR Contact: 12/10/2021
Next Scheduled EDR Contact: 03/21/2022
Data Release Frequency: Quarterly

DEL SHWS: Registry Sites Withdrawn or Deleted
A list of sites that were removed from the Registry or for which Registry action was suspended due to cleanup.

Date of Government Version: 09/21/2020
Date Data Arrived at EDR: 09/23/2020
Date Made Active in Reports: 12/15/2020
Number of Days to Update: 83
Source: Department of Natural Resources
Telephone: 573-522-3710
Last EDR Contact: 12/02/2021
Next Scheduled EDR Contact: 03/21/2022
Data Release Frequency: Annually

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: 11/16/2021
Date Data Arrived at EDR: 11/18/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 82
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

PFAS: PFAS Detections
PFAS detection list

Date of Government Version: 04/05/2021
Date Data Arrived at EDR: 05/25/2021
Date Made Active in Reports: 08/16/2021
Number of Days to Update: 83

Source: Department of Natural Resources
Telephone: 517-751-9857
Last EDR Contact: 01/03/2022
Next Scheduled EDR Contact: 04/18/2022
Data Release Frequency: Varies

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.

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: 02/03/2022
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

SPILLS: Environmental Response Tracking Database
Releases of hazardous substances reported to the department's Environmental Emergency Response (EER) section.

Date of Government Version: 06/01/2021
Date Data Arrived at EDR: 06/07/2021
Date Made Active in Reports: 09/01/2021
Number of Days to Update: 86

Source: Department of Natural Resources
Telephone: 573-526-3349
Last EDR Contact: 12/10/2021
Next Scheduled EDR Contact: 03/21/2022
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch
Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/27/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

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: 913-551-7003
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: 10/26/2021
Date Data Arrived at EDR: 11/16/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 84

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: 01/14/2022
Next Scheduled EDR Contact: 04/25/2022
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 01/07/2022
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
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 02/08/2022
Next Scheduled EDR Contact: 05/23/2022
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
Date Data Arrived at EDR: 09/15/2021
Date Made Active in Reports: 09/28/2021
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 12/17/2021
Next Scheduled EDR Contact: 04/04/2022
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 02/01/2022
Next Scheduled EDR Contact: 05/16/2022
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
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 02/03/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/17/2020
Date Made Active in Reports: 09/10/2020
Number of Days to Update: 85

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 12/17/2021
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
Date Data Arrived at EDR: 08/14/2020
Date Made Active in Reports: 11/04/2020
Number of Days to Update: 82

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 11/16/2021
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: 10/18/2021
Date Data Arrived at EDR: 10/20/2021
Date Made Active in Reports: 01/10/2022
Number of Days to Update: 82

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 01/19/2022
Next Scheduled EDR Contact: 05/02/2022
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
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: 703-416-0223
Last EDR Contact: 02/03/2022
Next Scheduled EDR Contact: 03/14/2022
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 10/20/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 11/12/2021
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
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
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/20/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 12/15/2021
Number of Days to Update: 40

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 02/03/2022
Next Scheduled EDR Contact: 05/16/2022
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
Date Data Arrived at EDR: 01/08/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 73

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 01/07/2022
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
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/29/2021
Next Scheduled EDR Contact: 04/18/2022
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

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

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/29/2021
Date Data Arrived at EDR: 08/24/2021
Date Made Active in Reports: 11/19/2021
Number of Days to Update: 87

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
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
Date Data Arrived at EDR: 12/01/2020
Date Made Active in Reports: 02/09/2021
Number of Days to Update: 70

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 11/30/2021
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
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 12/02/2021
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
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 02/04/2022
Next Scheduled EDR Contact: 05/16/2022
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.

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 Transporation, 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 Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 01/24/2022
Next Scheduled EDR Contact: 05/08/2022
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: 09/30/2021
Date Data Arrived at EDR: 10/13/2021
Date Made Active in Reports: 01/10/2022
Number of Days to Update: 89

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

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 01/04/2022
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
Date Data Arrived at EDR: 07/27/2021
Date Made Active in Reports: 10/22/2021
Number of Days to Update: 87

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 01/31/2022
Next Scheduled EDR Contact: 05/16/2022
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
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 12/09/2021
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
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: 703-603-8787
Last EDR Contact: 05/03/2022
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 1931and 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
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
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.

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.

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: (913) 551-7003
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: 01/01/2022
Date Data Arrived at EDR: 01/04/2022
Date Made Active in Reports: 01/10/2022
Number of Days to Update: 6

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

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: 01/11/2022
Next Scheduled EDR Contact: 04/25/2022
Data Release Frequency: Varies

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

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: 11/15/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/01/2022
Number of Days to Update: 78
Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 11/15/2021
Next Scheduled EDR Contact: 02/28/2022
Data Release Frequency: Quarterly

AIRS: Permit Facility Listing

A listing of Air Pollution Control Program permits.

Date of Government Version: 11/01/2021
Date Data Arrived at EDR: 11/02/2021
Date Made Active in Reports: 11/18/2021
Number of Days to Update: 16
Source: Department of Natural Resources
Telephone: 573-751-4817
Last EDR Contact: 01/31/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Varies

ASBESTOS: Asbestos Notification Listing

The department requires notification of demolitions and abatement projects involving regulated structures at least 10 working days before crews begin a project.

Date of Government Version: 10/04/2021
Date Data Arrived at EDR: 10/05/2021
Date Made Active in Reports: 12/29/2021
Number of Days to Update: 85
Source: Department of Natural Resources
Telephone: 573-751-4817
Last EDR Contact: 01/05/2022
Next Scheduled EDR Contact: 04/18/2022
Data Release Frequency: Varies

COAL ASH: Coal Ash Disposal Sites

A listing of power plants with coal ash ponds.

Date of Government Version: 01/03/2018
Date Data Arrived at EDR: 02/01/2018
Date Made Active in Reports: 03/22/2018
Number of Days to Update: 49
Source: Department of Natural Resources
Telephone: 573-526-1825
Last EDR Contact: 12/20/2021
Next Scheduled EDR Contact: 04/11/2022
Data Release Frequency: No Update Planned

DRYCLEANERS: Drycleaners in Missouri Listing

A listing of drycleaner facilities that are potentially eligible for reimbursement of department approved cleanup costs under the Drycleaning Environmental Response Trust Fund.

Date of Government Version: 11/30/2017
Date Data Arrived at EDR: 12/13/2017
Date Made Active in Reports: 01/18/2018
Number of Days to Update: 36
Source: Department of Natural Resources
Telephone: 573-526-8913
Last EDR Contact: 12/02/2021
Next Scheduled EDR Contact: 03/21/2022
Data Release Frequency: Quarterly

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information.

Date of Government Version: 08/25/2021
Date Data Arrived at EDR: 08/26/2021
Date Made Active in Reports: 11/19/2021
Number of Days to Update: 85
Source: Department of Natural Resources
Telephone: 573-751-3553
Last EDR Contact: 11/24/2021
Next Scheduled EDR Contact: 03/14/2022
Data Release Frequency: Annually

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: 06/30/2021
Date Data Arrived at EDR: 09/01/2021
Date Made Active in Reports: 11/22/2021
Number of Days to Update: 82

Source: Department of Natural Resources
Telephone: 573-751-5401
Last EDR Contact: 12/02/2021
Next Scheduled EDR Contact: 03/14/2022
Data Release Frequency: Quarterly

MINES: Industrial Mineral Mines Database

This data set contains names, locations and additional data for active Industrial Mineral Mines permitted with the Missouri Department of Natural Resources, Division of Environmental Quality, Land Reclamation Program. Industrial Mineral Mines permitted are rock quarries, clay pits, sand and gravel pits, or in-stream sand and gravel operations.

Date of Government Version: 04/30/2021
Date Data Arrived at EDR: 07/14/2021
Date Made Active in Reports: 10/07/2021
Number of Days to Update: 85

Source: Department of Natural Resources
Telephone: 573-751-4041
Last EDR Contact: 01/14/2022
Next Scheduled EDR Contact: 04/25/2022
Data Release Frequency: Varies

NPDES: Permitted Facility Listing

A listing of permitted facilities from the Water Pollution Branch.

Date of Government Version: 04/08/2021
Date Data Arrived at EDR: 04/09/2021
Date Made Active in Reports: 06/28/2021
Number of Days to Update: 80

Source: Department of Natural Resources
Telephone: 573-751-7023
Last EDR Contact: 12/20/2021
Next Scheduled EDR Contact: 04/11/2022
Data Release Frequency: Quarterly

RRC: Certified Hazardous Waste Resource Recovery Facilities

Facilities that take hazardous waste material, either from on-site or off-site, and make it re-usable.

Date of Government Version: 09/30/2020
Date Data Arrived at EDR: 10/06/2020
Date Made Active in Reports: 12/28/2020
Number of Days to Update: 83

Source: Department of Natural Resources
Telephone: 573-751-3176
Last EDR Contact: 12/02/2021
Next Scheduled EDR Contact: 03/21/2022
Data Release Frequency: Annually

SMARS: Site Management and Reporting System

SMARS currently houses information for Superfund, Federal Facility, Brownfields Voluntary Cleanup Program and Missouri's other state response programs.

Date of Government Version: 10/05/2021
Date Data Arrived at EDR: 10/29/2021
Date Made Active in Reports: 01/18/2022
Number of Days to Update: 81

Source: Department of Natural Resources
Telephone: 573-751-3043
Last EDR Contact: 01/26/2022
Next Scheduled EDR Contact: 05/09/2022
Data Release Frequency: Quarterly

UIC: Underground Injection Wells Database

A listing of underground injection well locations. The UIC Program is responsible for regulating the construction, operation, permitting, and closure of injection wells that place fluids underground for storage or disposal.

Date of Government Version: 03/15/2021
Date Data Arrived at EDR: 05/17/2021
Date Made Active in Reports: 06/02/2021
Number of Days to Update: 16

Source: Department of Natural Resources
Telephone: 573-368-2183
Last EDR Contact: 11/19/2021
Next Scheduled EDR Contact: 02/28/2022
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 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

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

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

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.

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 Natural Resources in Missouri.

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 Natural Resources
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 Natural Resources in Missouri.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/15/2014
Number of Days to Update: 198

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

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 Department of Natural Resources in Missouri.

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

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

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: 11/11/2021
Date Data Arrived at EDR: 11/12/2021
Date Made Active in Reports: 02/01/2022
Number of Days to Update: 81

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 11/12/2021
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
Date Data Arrived at EDR: 10/29/2021
Date Made Active in Reports: 01/19/2022
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 01/28/2022
Next Scheduled EDR Contact: 05/09/2022
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 01/10/2022
Next Scheduled EDR Contact: 04/25/2022
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 02/24/2021
Number of Days to Update: 13

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 11/29/2021
Next Scheduled EDR Contact: 02/28/2022
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 12/06/2021
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: Licensed Child Care Facilities
Source: Department of Health & Senior Services
Telephone: 573-751-2450

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.

State Wetlands Data: National Wetland Inventory of Missouri
Source: Department of Natural Resources
Telephone: 573-751-5110

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STREET AND ADDRESS INFORMATION

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APPENDIX E

Reconnaissance Photographs



Photo 1:



Photo 2:



Photo 3:



Photo 4:



Photo 5:



Photo 6:



Photo 7:



Photo 8:



Photo 9:



Photo 10:



Photo 11:



Photo 12:



Photo 13:



Photo 14:



Photo 15:



Photo 16:

APPENDIX F

Environmental Professional Qualifications



RACHAEL REIS

Environmental Scientist

EXPERIENCE SUMMARY

As a passion driven environmentalist, Rachael shares her perspective and insight on projects that impact communities. Her ability to analyze sites, provide recommendations, and solutions that cause a positive lasting impact within a community—makes her daily tasks, lifelong gratifying rewards.

Rachael provides clients with the tools necessary to complete projects within their communities—helping them grow or redevelop and influence residents' lives in environmentally conscious ways. Using her project knowhow, experience, and insight, she conducts phase I and II environmental site assessments (ESAs), site remediation, National Environmental Policy Act (NEPA) studies, wetland delineations, and endangered species habitat restoration and permitting services.

Many of the projects Rachael is involved in she serves as the Project Manager and Scientist, and her knowledge and communication capabilities span from working alongside public and private clients. She is relied upon by clients and Olsson for her advice because everyone understands that she is eager to make all parties involved succeed—a trait that is highly encouraging when approaching a project.

EDUCATION

- BA, Environmental Studies, University of Missouri at Kansas City

CERTIFICATIONS/TRAINING

- Certified Wetland Delineator
- HAZWOPER Certification
- National Highway Institute (NHI) Introduction to NEPA and Transportation Decision Making Training
- National Highway Institute (NHI) Integrating Freight in the Transportation Planning Process
- Union Pacific Rail Road Safety
- BNSF Rail Road Safety

OLSSON EXPERIENCE

- 2012 to Present

OVERALL EXPERIENCE

- 2012 to Present

olsson

RACHAEL REIS

Environmental Scientist

COMMERCIAL

- City of Kansas City, ESAs for Midwest Motors Brownfields Site; Kansas City, MO
- Hunt Midwest, Hunt Midwest Hook Farms South Development Plan Phase I and II ESA; Lee's Summit, MO
- TranSpec Leasing Inc, TranSpec Underground Storage Tank Removal, Phase I and II ESA; Kansas City, MO
- Trammel Crow Company, Trammell Crow KCI Logistics Centre V, Phase I and II ESA; Kansas City, MO
- McDonalds USA LLC, McDonalds Phase I AND II ESAs; Various Locations, KS and MO
- Price Brothers, ESA for Bluhawk; Overland Park, KS
- Blue Beacon International, Phase I ESA and Due Diligence Assessments for Blue Beacon Green Lantern Convenience Store & Truck Wash; Various Locations, MO
- Brinshore Development LLC, Phase I ESA for Brinshore Neff Printing; Kansas City, MO
- Gateway Developers LLC, Phase I ESA for Mission Gateway Mall; Mission, KS
- Green Lantern Car Wash, LLC, Phase I ESA for Green Lantern Locations; Various Locations, MO and KS
- Hammerford Development Company, Phase I ESA for Corbin Park Pad Sites 3 & 3A; Overland Park, KS
- Merrill Companies, LLC, Prairiefire Development; Overland Park, Kansas
- NorthPoint Development, Phase I Assessment for 1321 Fairfax Trafficway; Kansas City, KS
- Polsinelli, Environmental Site Investigation for Woodside Limited; Westwood, KS
- Schlitterbahn Waterparks and Resorts, Phase I ESA for SVVI Schlitterbahn Vacation Village; Kansas City, KS
- KC Hotel Loews, KC Convention Center Hotel, Site Remediation; Kansas City, MO

EDUCATION

- Drumm Farm Center for Children, Environmental Services for Campus Expansion; Independence, MO
- University of Kansas Hospital Authority, Phase I ESA for Campus Expansion; Kansas City, KS
- Barstow School, Former Hy-Vee Soil Vapor Sampling Investigation; Leawood, KS

HEALTHCARE

- Mercy Health Systems, Mercy 2300 S Jackson ESA; Joplin, MO
- HWA, Environmental Site Assessment for St. Luke's Ambulatory Clinic; Blue Springs, MO
- JE Dunn, Environmental Site Assessment for Stigler Rural Community Hospital; Stigler, OK
- Mercy Health Systems, NEPA Compliance & Permitting for New Clinics; Lebanon & Carthage, MO

INDUSTRIAL

- ARCO National Construction, ARCO Grundfos Industrial Building ESA; Lenexa, KS
- NorthPoint, Environmental Site Assessment for Northland Industrial Park; North Kansas City, MO

RACHAEL REIS

Environmental Scientist

LOCAL

- City of Coffeyville, Environmental Investigations for Brownfields Assessment; Coffeyville, KS
- City of Kansas City, On-Call Environmental Services; Kansas City, MO
- City of Blue Springs MO, Blue Springs MO, Phase I ESA; Blue Springs, MO

RENEWABLE ENERGY

- Black Hills Energy, Phase I ESA; Siloam Springs, AR

RESIDENTIAL

- Summit Custom Homes, Clayton Properties West Village Phase I and II ESA; Lee's Summit, MO
- Price Brothers Construction, Price Bros Bluhawk Apartments Phase I and II ESA; Overland Park, KS
- AG Spanos Construction Inc., Environmental Assessment for Shoal Creek II Village, 5th Plat; Liberty, MO
- Briarcliff, Environmental Site Assessment for Riverfront Apartments; Kansas City, MO
- Housing Authority of Kansas City MO, KC Housing Authority Transaction Screenings; Statewide, MO

STATE

- Kansas Department of Health & Environment, Phase I and II ESA; Chanute, KS
- Kansas Department of Health & Environment Phase I and II ESA; Fort Scott, KS

SPORTS & RECREATION

- Kibo Holdings, Kibo Holdings Ozark Campground Rezoning, Phase I and II ESA; Branson, MO

WASTEWATER

- Jackson County, On-Call Geotechnical and Testing, Medical Examiner Office Wastewater Sampling; Kansas City, MO

S.S. PAPADOPULOS & ASSOCIATES, INC.
Environmental & Water-Resource Consultants

Memorandum

Date:	January 31, 2023
From:	Harvey Cohen, SSP&A
To:	Kevin Breslin, Richmond Breslin LLC
Project:	SSP-1835
Subject:	**Phase 2 Investigation - Former Ideker Site, Botts Road, Kansas City, MO**

On January 6, 2023, S.S. Papadopulos & Associates (SSP&A) provided a Work Plan to Kevin Breslin of Richmond Breslin LLC, to complete reconnaissance and sampling of soils at the former Ideker Inc. asphalt plant on Botts Road in Kansas City, Missouri. That work was completed on January 17th and 18th, 2023. On the 17th, two staff of SSP&A completed a reconnaissance of the property, looking for indications of possible soil contamination and marking sampling locations. Seven samples were collected for analysis on the 18th. Samples were collected from boreholes driven by direct-push equipment operated by Environmental Works Inc. (EW). The borehole material consisted primarily of clay overlying weathered bedrock (Table 1).

During sampling, no indications of volatile organic compounds were detected using a Photoionization Detector (PID) in the field. Consequently, samples were analyzed only for Total Petroleum Hydrocarbons (TPH) via method OA2.

As indicated in the analytical results, none of the samples reported detections of TPH consistent with the fingerprints of diesel, fuel oil, jet fuel, kerosene, mineral spirits, or motor oil; the maximum reporting limit for these ranges of compounds was 143 mg/kg. Minimal amounts of TPH were reported in 5 of the 7 samples, ranging from ND to 473 mg/kg. The maximum total TPH from the diesel tank containment was 68 mg/kg.

Two samples, both from the bitumen containment area, yielded higher values of total TPH with 2,590 to 4,330 mg/kg. A third sample from this area was ND. For comparison, the MDNR 2006 Risk-Based Corrective Action Levels, Tier 1 Default Target Levels (DTLs, MDNR Table B-7) were reviewed. These values are developed for gasoline, diesel, and oil-range organics, but not heavier asphaltic materials. All of these DTLs are greater than 4,330 mg/kg except for two gasoline-range organics (GRO) DTLs which are not relevant to bitumen source material.

The MNDR definition of clean fill (Publication 2045) states that "clean fill material is uncontaminated soil, rock, sand, gravel, concrete, asphaltic concrete…" and "Asphaltic concrete that is planned for use as fill should not be crushed or ground to minimize leaching of any chemicals and toxic metals from the material." There is no indication that soils from the former Ideker site are unacceptable for re-use as fill on-site.

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Attachments

Figure 1 Soil Sample Locations - January 18, 2023

Figure 2 Photographs of Soil Sample Collection

Table 1 Summary of Soil Sampling

Table 2 Excerpts from MDNR RBCA Table B-7

Attachment Analytical Results



Figure 1 Soil Sample Locations - January 18, 2023





Figure 2 Photographs of Soil Sample Collection a) Direct-push equipment in operation; b) direct-push core showing contact between red clay and weathered rock.

TABLE 1 Summary of Soil Samples

Sample #	Location	Location No.	Sample Time	Description	Northing (ft)	Easting (ft)	Total Petroleum Hydrocarbon Results (Diesel, Fuel Oil, Jet Fuel, Kerosene, Mineral Spirits, and Motor Oil)	Total Petroleum Hydrocarbon Results mg/kg
Idek01182023-01	Diesel Tank containment	1A	8:13	Moved 4' east from original mark. Total depth 4.9'. Top 6" some black stain. 4' recovery. Mainly red clay. Weathered stone bottom to refusal. PID=0	980,666.7	2,778,943.1	ND	68.3
Idek01182023-02	Diesel Tank containment	2A	8:28	Moved 4' east from original mark. Total depth 4.9'. Top 6" some black stain. 3' recovery. Mainly red clay. Weathered stone bottom to refusal PID=0	980,647.0	2,778,937.4	ND	34.2
	Diesel Tank containment	2B		Took a sample from middle of the containment area. Same as others. Composit sample with 2A	980,647.4	2,778,940.2	ND	
Idek01182023-03	Bitumen containment	3A	9:00	Refusal 2.2' at original location. Mainly rock and gravel. Moved to 14' west (3A). 5' deep full recovery. Red clay.	980,563.9	2,778,665.8	ND	4,330.0
Idek01182023-04	Bitumen containment	4	8:48	1.4' to refusal. Move hole 3' west. Moisture, soft	980,540.5	2,778,684.8	ND	54.7
Idek01182023-05	Mixing pad	5	9:16	1.6' deep, top 4" clay than weathered stone	980,590.3	2,778,695.7	ND	ND
Idek01182023-06	Bitumen containment	6	9:24	At 2.2' refusal move to 2' west. New hole about 2-3' west is 3' deep to refusal. Location is about 13' north of 3. Stain top few inches	980,574.0	2,778,689.0	ND	2,590.0
Idek01182023-07	Between two scale area	7	9:41	Total depth 5.5'. Refusal at the end. 2.5 ft recovery. Clay and grave,dark color on top	980,684.2	2,778,768.3	ND	473.0

TABLE 2 Excerpts from MDNR RBCA Table B-7
Tier 1 Risk-Based Target Levels Non-residential Land Use
Soil Type 3 (Clayey)

Chemicals of Concern	AIR		SURFICIAL SOIL								SUBSURFACE SOIL	
	Indoor	C/NC	Dermal Contact	C/NC	Ingestion	C/NC	Outdoor Inhalation	C/NC	Ingestion, Inhalation (Vapor Emissions and Particulates), and Dermal Contact	C/NC	Indoor Inhalation of Vapor Emissions	C/NC
	[mg/m^3-air]		[mg/kg]								[mg/kg]	
Total Petroleum Hydrocarbons												
TPH-GRO	39	NC	NA	--	5,250,000	NC	41,500,000	NC	4,650,000	NC	9,620	NC
Aliphatics - > C6-C8	36	NC	NA	--	5,110,000	NC	38,900,000	NC	4,520,000	NC	6,160	NC
Aliphatics - > C8-C10	2	NC	NA	--	102,000	NC	2,130,000	NC	97,500	NC	1,340	NC
Aromatics - >C8-C10	0	NC	NA	--	40,900	NC	419,000	NC	37,200	NC	2,110	NC
TPH-DRO	5	NC	3,570,000	NC	2,360,000	NC	5,100,000	NC	1,410,000	NC	109,000	NC
Aliphatics - >C10-C12	2	NC	155,000	NC	102,000	NC	2,130,000	NC	59,800	NC	6,760	NC
Aliphatics - >C12-C16	2	NC	155,000	NC	102,000	NC	2,130,000	NC	59,800	NC	30,800	NC
Aliphatics - >C16-C21	NA	--	3,100,000	NC	2,040,000	NC	NA	--	1,230,000	NC	NA	--
Aromatics - >C10-C12	0	NC	61,900	NC	40,900	NC	419,000	NC	23,300	NC	11,400	NC
Aromatics - >C12-C16	0	NC	61,900	NC	40,900	NC	419,000	NC	23,300	NC	59,500	NC
Aromatics - >C16-C21	NA	--	35,700	NC	30,700	NC	NA	--	16,500	NC	NA	--
TPH-ORO	NA	--	3,130,000	NC	2,070,000	NC	NA	--	1,250,000	NC	NA	--
Aliphatics - >C21-C35	NA	--	3,100,000	NC	2,040,000	NC	NA	--	1,230,000	NC	NA	--
Aromatics - >C21-C35	NA	--	35,700	NC	30,700	NC	NA	--	16,500	NC	NA	--

ATTACHMENT

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

January 26, 2023

Kevin P Breslin
WRHD Operations LLC
1700 East Lake Street
Suite 2500
Glenview, IL 60025

RE: Project: IDEKER SOILS
Pace Project No.: 60420191

Dear Kevin Breslin:

Enclosed are the analytical results for sample(s) received by the laboratory on January 18, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Kansas City

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angie Brown
angie.brown@pacelabs.com
1(913)563-1402
Project Manager

Enclosures

cc: Mr. Harvey Cohen, S.S Papadopulos
Onnik Sivaslian, SS Pappadopolis

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CERTIFICATIONS

Project: IDEKER SOILS
Pace Project No.: 60420191

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219
Missouri Inorganic Drinking Water Certification #: 10090
Arkansas Drinking Water
Arkansas Certification #: 22-031-0
Illinois Certification #: 2000302021-3
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212023-1
Oklahoma Certification #: 2022-057
Florida: Cert E871149 SEKS WET
Texas Certification #: T104704407-21-15
Utah Certification #: KS000212022-12
Illinois Certification #: 004592
Kansas Field Laboratory Accreditation: # E-92587
Missouri SEKS Micro Certification: 10070

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: IDEKER SOILS
Pace Project No.: 60420191

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60420191001	**IDEK01182023-01**	Solid	01/18/23 08:13	01/18/23 17:23
60420191002	**IDEK01182023-02**	Solid	01/18/23 08:28	01/18/23 17:23
60420191003	**IDEK01182023-04**	Solid	01/18/23 08:48	01/18/23 17:23
60420191004	**IDEK01182023-03**	Solid	01/18/23 09:00	01/18/23 17:23
60420191005	**IDEK01182023-05**	Solid	01/18/23 09:16	01/18/23 17:23
60420191006	**IDEK01182023-06**	Solid	01/18/23 09:24	01/18/23 17:23
60420191007	**IDEK01182023-07**	Solid	01/18/23 09:41	01/18/23 17:23
60420191008	**TB**	Solid	01/18/23 08:00	01/18/23 17:23

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SAMPLE ANALYTE COUNT

Project: IDEKER SOILS
Pace Project No.: 60420191

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60420191001	**IDEK01182023-01**	OA2	YGR	9	PASI-K
		ASTM D2974	DWC	1	PASI-K
60420191002	**IDEK01182023-02**	OA2	YGR	9	PASI-K
		ASTM D2974	DWC	1	PASI-K
60420191003	**IDEK01182023-04**	OA2	YGR	9	PASI-K
		ASTM D2974	DWC	1	PASI-K
60420191004	**IDEK01182023-03**	OA2	YGR	9	PASI-K
		ASTM D2974	DWC	1	PASI-K
60420191005	**IDEK01182023-05**	OA2	YGR	9	PASI-K
		ASTM D2974	DWC	1	PASI-K
60420191006	**IDEK01182023-06**	OA2	YGR	9	PASI-K
		ASTM D2974	DWC	1	PASI-K
60420191007	**IDEK01182023-07**	OA2	YGR	9	PASI-K
		ASTM D2974	DWC	1	PASI-K

PASI-K = Pace Analytical Services - Kansas City

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SUMMARY OF DETECTION

Project: IDEKER SOILS
Pace Project No.: 60420191

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
60420191001	**IDEK01182023-01**					
OA2	Total Petroleum Hydrocarbons	68.3	mg/kg	12.3	01/23/23 11:22	
ASTM D2974	Percent Moisture	20.8	%	0.50	01/19/23 11:48	
60420191002	**IDEK01182023-02**					
OA2	Total Petroleum Hydrocarbons	34.3	mg/kg	11.8	01/23/23 10:32	
ASTM D2974	Percent Moisture	20.0	%	0.50	01/19/23 11:49	
60420191003	**IDEK01182023-04**					
OA2	Total Petroleum Hydrocarbons	54.7	mg/kg	14.0	01/23/23 08:47	
ASTM D2974	Percent Moisture	30.2	%	0.50	01/19/23 11:49	
60420191004	**IDEK01182023-03**					
OA2	Total Petroleum Hydrocarbons	4330	mg/kg	143	01/23/23 09:27	
ASTM D2974	Percent Moisture	30.8	%	0.50	01/19/23 11:49	
60420191005	**IDEK01182023-05**					
ASTM D2974	Percent Moisture	36.7	%	0.50	01/19/23 11:49	
60420191006	**IDEK01182023-06**					
OA2	Total Petroleum Hydrocarbons	2590	mg/kg	123	01/23/23 09:51	
ASTM D2974	Percent Moisture	22.6	%	0.50	01/19/23 11:49	
60420191007	**IDEK01182023-07**					
OA2	Total Petroleum Hydrocarbons	423	mg/kg	105	01/23/23 12:38	
ASTM D2974	Percent Moisture	7.6	%	0.50	01/19/23 11:49	

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ANALYTICAL RESULTS

Project: IDEKER SOILS
Pace Project No.: 60420191

Sample: IDEK01182023-01 **Lab ID: 60420191001** Collected: 01/18/23 08:13 Received: 01/18/23 17:23 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: EPA 3546 Pace Analytical Services - Kansas City								
Diesel Fuel	ND	mg/kg	12.3	6.9	1	01/20/23 13:17	01/23/23 11:22	68334-30-5	M1
Fuel Oil	ND	mg/kg	12.3	6.9	1	01/20/23 13:17	01/23/23 11:22	68553-00-4	
Jet Fuel	ND	mg/kg	12.3	6.9	1	01/20/23 13:17	01/23/23 11:22	94114-58-6	
Kerosene	ND	mg/kg	12.3	6.9	1	01/20/23 13:17	01/23/23 11:22	8008-20-6	
Mineral Spirits	ND	mg/kg	12.3	6.9	1	01/20/23 13:17	01/23/23 11:22	8030-30-6	
Motor Oil	ND	mg/kg	12.3	6.9	1	01/20/23 13:17	01/23/23 11:22	64742-65-0	
Total Petroleum Hydrocarbons	**68.3**	mg/kg	12.3	6.9	1	01/20/23 13:17	01/23/23 11:22		
Surrogates									
n-Tetracosane (S)	85	%	10-154		1	01/20/23 13:17	01/23/23 11:22	646-31-1	
p-Terphenyl (S)	83	%	55-128		1	01/20/23 13:17	01/23/23 11:22	92-94-4	
Percent Moisture	Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City								
Percent Moisture	**20.8**	%	0.50	0.50	1		01/19/23 11:48		

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ANALYTICAL RESULTS

Project: IDEKER SOILS
Pace Project No.: 60420191

Sample: IDEK01182023-02 **Lab ID: 60420191002** Collected: 01/18/23 08:28 Received: 01/18/23 17:23 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: EPA 3546 Pace Analytical Services - Kansas City								
Diesel Fuel	ND	mg/kg	11.8	6.6	1	01/20/23 13:17	01/23/23 10:32	68334-30-5	
Fuel Oil	ND	mg/kg	11.8	6.6	1	01/20/23 13:17	01/23/23 10:32	68553-00-4	
Jet Fuel	ND	mg/kg	11.8	6.6	1	01/20/23 13:17	01/23/23 10:32	94114-58-6	
Kerosene	ND	mg/kg	11.8	6.6	1	01/20/23 13:17	01/23/23 10:32	8008-20-6	
Mineral Spirits	ND	mg/kg	11.8	6.6	1	01/20/23 13:17	01/23/23 10:32	8030-30-6	
Motor Oil	ND	mg/kg	11.8	6.6	1	01/20/23 13:17	01/23/23 10:32	64742-65-0	
Total Petroleum Hydrocarbons	**34.3**	mg/kg	11.8	6.6	1	01/20/23 13:17	01/23/23 10:32		
Surrogates									
n-Tetracosane (S)	68	%	10-154		1	01/20/23 13:17	01/23/23 10:32	646-31-1	CL
p-Terphenyl (S)	71	%	55-128		1	01/20/23 13:17	01/23/23 10:32	92-94-4	
Percent Moisture	Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City								
Percent Moisture	**20.0**	%	0.50	0.50	1		01/19/23 11:49		

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ANALYTICAL RESULTS

Project: IDEKER SOILS
Pace Project No.: 60420191

Sample: IDEK01182023-04 **Lab ID: 60420191003** Collected: 01/18/23 08:48 Received: 01/18/23 17:23 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: EPA 3546 Pace Analytical Services - Kansas City								
Diesel Fuel	ND	mg/kg	14.0	7.8	1	01/20/23 13:17	01/23/23 08:47	68334-30-5	
Fuel Oil	ND	mg/kg	14.0	7.8	1	01/20/23 13:17	01/23/23 08:47	68553-00-4	
Jet Fuel	ND	mg/kg	14.0	7.8	1	01/20/23 13:17	01/23/23 08:47	94114-58-6	
Kerosene	ND	mg/kg	14.0	7.8	1	01/20/23 13:17	01/23/23 08:47	8008-20-6	
Mineral Spirits	ND	mg/kg	14.0	7.8	1	01/20/23 13:17	01/23/23 08:47	8030-30-6	
Motor Oil	ND	mg/kg	14.0	7.8	1	01/20/23 13:17	01/23/23 08:47	64742-65-0	
Total Petroleum Hydrocarbons	**54.7**	mg/kg	14.0	7.8	1	01/20/23 13:17	01/23/23 08:47		
Surrogates									
n-Tetracosane (S)	48	%	10-154		1	01/20/23 13:17	01/23/23 08:47	646-31-1	CL
p-Terphenyl (S)	57	%	55-128		1	01/20/23 13:17	01/23/23 08:47	92-94-4	
Percent Moisture	Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City								
Percent Moisture	**30.2**	%	0.50	0.50	1		01/19/23 11:49		

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ANALYTICAL RESULTS

Project: IDEKER SOILS
Pace Project No.: 60420191

Sample: IDEK01182023-03 **Lab ID: 60420191004** Collected: 01/18/23 09:00 Received: 01/18/23 17:23 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: EPA 3546 Pace Analytical Services - Kansas City								
Diesel Fuel	ND	mg/kg	143	79.9	10	01/20/23 13:17	01/23/23 09:27	68334-30-5	
Fuel Oil	ND	mg/kg	143	79.9	10	01/20/23 13:17	01/23/23 09:27	68553-00-4	
Jet Fuel	ND	mg/kg	143	79.9	10	01/20/23 13:17	01/23/23 09:27	94114-58-6	
Kerosene	ND	mg/kg	143	79.9	10	01/20/23 13:17	01/23/23 09:27	8008-20-6	
Mineral Spirits	ND	mg/kg	143	79.9	10	01/20/23 13:17	01/23/23 09:27	8030-30-6	
Motor Oil	ND	mg/kg	143	79.9	10	01/20/23 13:17	01/23/23 09:27	64742-65-0	
Total Petroleum Hydrocarbons	**4330**	mg/kg	143	79.9	10	01/20/23 13:17	01/23/23 09:27		
Surrogates									
n-Tetracosane (S)	0	%	10-154		10	01/20/23 13:17	01/23/23 09:27	646-31-1	CL,S4
p-Terphenyl (S)	0	%	55-128		10	01/20/23 13:17	01/23/23 09:27	92-94-4	S4
Percent Moisture	Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City								
Percent Moisture	**30.8**	%	0.50	0.50	1		01/19/23 11:49		

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ANALYTICAL RESULTS

Project: IDEKER SOILS
Pace Project No.: 60420191

Sample: IDEK01182023-05 **Lab ID: 60420191005** Collected: 01/18/23 09:16 Received: 01/18/23 17:23 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: EPA 3546 Pace Analytical Services - Kansas City								
Diesel Fuel	ND	mg/kg	15.1	8.4	1	01/20/23 13:17	01/23/23 10:24	68334-30-5	
Fuel Oil	ND	mg/kg	15.1	8.4	1	01/20/23 13:17	01/23/23 10:24	68553-00-4	
Jet Fuel	ND	mg/kg	15.1	8.4	1	01/20/23 13:17	01/23/23 10:24	94114-58-6	
Kerosene	ND	mg/kg	15.1	8.4	1	01/20/23 13:17	01/23/23 10:24	8008-20-6	
Mineral Spirits	ND	mg/kg	15.1	8.4	1	01/20/23 13:17	01/23/23 10:24	8030-30-6	
Motor Oil	ND	mg/kg	15.1	8.4	1	01/20/23 13:17	01/23/23 10:24	64742-65-0	
Total Petroleum Hydrocarbons	ND	mg/kg	15.1	8.4	1	01/20/23 13:17	01/23/23 10:24		
Surrogates									
n-Tetracosane (S)	50	%	10-154		1	01/20/23 13:17	01/23/23 10:24	646-31-1	CL
p-Terphenyl (S)	58	%	55-128		1	01/20/23 13:17	01/23/23 10:24	92-94-4	
Percent Moisture	Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City								
Percent Moisture	**36.7**	%	0.50	0.50	1		01/19/23 11:49		

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ANALYTICAL RESULTS

Project: IDEKER SOILS
Pace Project No.: 60420191

Sample: IDEK01182023-06 **Lab ID: 60420191006** Collected: 01/18/23 09:24 Received: 01/18/23 17:23 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: EPA 3546 Pace Analytical Services - Kansas City								
Diesel Fuel	ND	mg/kg	123	68.9	10	01/20/23 13:17	01/23/23 09:51	68334-30-5	
Fuel Oil	ND	mg/kg	123	68.9	10	01/20/23 13:17	01/23/23 09:51	68553-00-4	
Jet Fuel	ND	mg/kg	123	68.9	10	01/20/23 13:17	01/23/23 09:51	94114-58-6	
Kerosene	ND	mg/kg	123	68.9	10	01/20/23 13:17	01/23/23 09:51	8008-20-6	
Mineral Spirits	ND	mg/kg	123	68.9	10	01/20/23 13:17	01/23/23 09:51	8030-30-6	
Motor Oil	ND	mg/kg	123	68.9	10	01/20/23 13:17	01/23/23 09:51	64742-65-0	
Total Petroleum Hydrocarbons	**2590**	mg/kg	123	68.9	10	01/20/23 13:17	01/23/23 09:51		
Surrogates									
n-Tetracosane (S)	0	%	10-154		10	01/20/23 13:17	01/23/23 09:51	646-31-1	CL,S4
p-Terphenyl (S)	0	%	55-128		10	01/20/23 13:17	01/23/23 09:51	92-94-4	S4
Percent Moisture	Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City								
Percent Moisture	**22.6**	%	0.50	0.50	1		01/19/23 11:49		

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ANALYTICAL RESULTS

Project: IDEKER SOILS
Pace Project No.: 60420191

Sample: IDEK01182023-07 **Lab ID: 60420191007** Collected: 01/18/23 09:41 Received: 01/18/23 17:23 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: EPA 3546 Pace Analytical Services - Kansas City								
Diesel Fuel	ND	mg/kg	105	59.0	10	01/20/23 13:17	01/23/23 12:38	68334-30-5	
Fuel Oil	ND	mg/kg	105	59.0	10	01/20/23 13:17	01/23/23 12:38	68553-00-4	
Jet Fuel	ND	mg/kg	105	59.0	10	01/20/23 13:17	01/23/23 12:38	94114-58-6	
Kerosene	ND	mg/kg	105	59.0	10	01/20/23 13:17	01/23/23 12:38	8008-20-6	
Mineral Spirits	ND	mg/kg	105	59.0	10	01/20/23 13:17	01/23/23 12:38	8030-30-6	
Motor Oil	ND	mg/kg	105	59.0	10	01/20/23 13:17	01/23/23 12:38	64742-65-0	
Total Petroleum Hydrocarbons	**423**	mg/kg	105	59.0	10	01/20/23 13:17	01/23/23 12:38		
Surrogates									
n-Tetracosane (S)	0	%	10-154		10	01/20/23 13:17	01/23/23 12:38	646-31-1	S4
p-Terphenyl (S)	0	%	55-128		10	01/20/23 13:17	01/23/23 12:38	92-94-4	S4
Percent Moisture	Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City								
Percent Moisture	**7.6**	%	0.50	0.50	1		01/19/23 11:49		

REPORT OF LABORATORY ANALYSIS

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Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: IDEKER SOILS
Pace Project No.: 60420191

QC Batch: 828357
QC Batch Method: EPA 3546
Analysis Method: OA2
Analysis Description: OA2 GCS
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60420191001, 60420191002, 60420191003, 60420191004, 60420191005, 60420191006, 60420191007

METHOD BLANK: 3289570 Matrix: Solid
Associated Lab Samples: 60420191001, 60420191002, 60420191003, 60420191004, 60420191005, 60420191006, 60420191007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Diesel Fuel	mg/kg	ND	9.9	5.6	01/23/23 08:22	
Fuel Oil	mg/kg	ND	9.9	5.6	01/23/23 08:22	
Jet Fuel	mg/kg	ND	9.9	5.6	01/23/23 08:22	
Kerosene	mg/kg	ND	9.9	5.6	01/23/23 08:22	
Mineral Spirits	mg/kg	ND	9.9	5.6	01/23/23 08:22	
Motor Oil	mg/kg	ND	9.9	5.6	01/23/23 08:22	
Total Petroleum Hydrocarbons	mg/kg	ND	9.9	5.6	01/23/23 08:22	
n-Tetracosane (S)	%	48	10-154		01/23/23 08:22	CL
p-Terphenyl (S)	%	56	55-128		01/23/23 08:22	

LABORATORY CONTROL SAMPLE: 3289571

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Fuel	mg/kg	82	69.5	85	72-123	
n-Tetracosane (S)	%			34	10-154	CL
p-Terphenyl (S)	%			59	55-128	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3289572 3289573

Parameter	Units	60420191001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Diesel Fuel	mg/kg	ND	103	103	ND	ND	0	0	60-140		39	M1
Fuel Oil	mg/kg	ND			ND	ND						
Jet Fuel	mg/kg	ND			ND	ND						
Kerosene	mg/kg	ND			ND	ND						
Mineral Spirits	mg/kg	ND			ND	ND						
Motor Oil	mg/kg	ND			ND	ND						
Total Petroleum Hydrocarbons	mg/kg	68.3	103	103	163	143	91	72		13		
n-Tetracosane (S)	%						92	80	10-154			
p-Terphenyl (S)	%						97	85	55-128			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: IDEKER SOILS
Pace Project No.: 60420191

QC Batch: 828249 Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60420191001, 60420191002, 60420191003, 60420191004, 60420191005, 60420191006, 60420191007

METHOD BLANK: 3289008 Matrix: Solid
Associated Lab Samples: 60420191001, 60420191002, 60420191003, 60420191004, 60420191005, 60420191006, 60420191007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	0.50	01/19/23 11:48	

SAMPLE DUPLICATE: 3289009

Parameter	Units	60420188021 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	18.2	19.1	5	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: IDEKER SOILS
Pace Project No.: 60420191

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: IDEKER SOILS
Pace Project No.: 60420191

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60420191001	**IDEK01182023-01**	EPA 3546	828357	OA2	828563
60420191002	**IDEK01182023-02**	EPA 3546	828357	OA2	828563
60420191003	**IDEK01182023-04**	EPA 3546	828357	OA2	828563
60420191004	**IDEK01182023-03**	EPA 3546	828357	OA2	828563
60420191005	**IDEK01182023-05**	EPA 3546	828357	OA2	828563
60420191006	**IDEK01182023-06**	EPA 3546	828357	OA2	828563
60420191007	**IDEK01182023-07**	EPA 3546	828357	OA2	828563
60420191001	**IDEK01182023-01**	ASTM D2974	828249		
60420191002	**IDEK01182023-02**	ASTM D2974	828249		
60420191003	**IDEK01182023-04**	ASTM D2974	828249		
60420191004	**IDEK01182023-03**	ASTM D2974	828249		
60420191005	**IDEK01182023-05**	ASTM D2974	828249		
60420191006	**IDEK01182023-06**	ASTM D2974	828249		
60420191007	**IDEK01182023-07**	ASTM D2974	828249		

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WO# : 60420191

60420191

DC#_Title: ENV-FRM-LENE-0009_Sample		
Revision: 2	Effective Date: 01/12/2022	Issued By: Lenexa

Client Name: SS PAPPADOPOLIS

Courier: FedEx ☐ UPS ☐ VIA ☐ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Xroads ☐ Client ☒ Other ☐

Tracking #: _____ Pace Shipping Label Used? Yes ☒ No ☐

Custody Seal on Cooler/Box Present: Yes ☐ No ☒ Seals intact: Yes ☐ No ☐

Packing Material: Bubble Wrap ☒ Bubble Bags ☒ Foam ☐ None ☐ Other ☐

Thermometer Used: T-296 **Type of Ice:** (Wet) Blue None

Cooler Temperature (°C): **As-read** 4.7 **Corr. Factor** -0.1 **Corrected** 4.6

Date and initials of person examining contents: VF 1/19

Temperature should be above freezing to 6°C

Chain of Custody present:	☒Yes ☐No ☐N/A	
Chain of Custody relinquished:	☒Yes ☐No ☐N/A	
Samples arrived within holding time:	☒Yes ☐No ☐N/A	
Short Hold Time analyses (<72hr):	☐Yes ☒No ☐N/A	
Rush Turn Around Time requested:	☐Yes ☒No ☐N/A	
Sufficient volume:	☒Yes ☐No ☐N/A	
Correct containers used:	☒Yes ☐No ☐N/A	
Pace containers used:	☒Yes ☐No ☐N/A	
Containers intact:	☒Yes ☐No ☐N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	☐Yes ☐No ☒N/A	
Filtered volume received for dissolved tests?	☐Yes ☐No ☒N/A	
Sample labels match COC: Date / time / ID / analyses	☒Yes ☐No ☐N/A	
Samples contain multiple phases? Matrix: SL	☐Yes ☒No ☐N/A	
Containers requiring pH preservation in compliance? (HNO_3, H_2SO_4, HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) LOT#:	☐Yes ☐No ☒N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks: Lead acetate strip turns dark? (Record only)	☐Yes ☐No	
Potassium iodide test strip turns blue/purple? (Preserve)	☐Yes ☐No	
Trip Blank present:	☒Yes ☐No ☐N/A	
Headspace in VOA vials (>6mm):	☐Yes ☐No ☒N/A	
Samples from USDA Regulated Area: State: MD	☐Yes ☒No ☐N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	☐Yes ☐No ☐N/A	

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

Qualtrax Document ID: 30468

Page 1 of 1

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf.

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Pappadopolis	Report To:	Onnik Sivaslian	Attention:	Kevin Bristow
Address:	1801 Rockville Suite 220	Copy To:	Harvey Cohen	Company Name:	~~BED~~ BTD
	Rockville, MD 20852			Address:	1900 E. Bannister, KCMO 64131
Email:	onnik@sspa.com	Purchase Order #:	SSP-1835 Ideker	Pace Quote:	
Phone:	301-906-0771 Fax:	Project Name:	Ideker Soils	Pace Project Manager:	angie.brown@pacelabs.com
Requested Due Date:		Project #:	SSP-1835	Pace Profile #:	x

Regulatory Agency

State / Location: MO

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	OA2	VOC by 8260	Trip Blank	Residual Chlorine (Y/N)	
1	Idek.01182023-01	SL	G	1/18	8:13				1	X									X				
2	Idek01182023-02	"	"	1/18	8:28				1	X									X				
3	Idek01182023-04			1/18	8:48				1	X									X				
4	Idek01182023-03			1/18	9:00				1	X									X				
5	Idek01182023-05			1/18	9:16				1	X									X				
6	Idek01182023-06			1/18	9:24				1	X									X				
7	Idek01182023-07	↓	↓	1/18	9:41				1	X									X				
8																							
9																							
10																							
11																							
12																							

Requested Analysis Filtered (Y/N)

Residual Chlorine (Y/N): 01-120191

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Hamed Saeedi SSPA	1/18	8:20	[illegible]	1/18/23	1723	4.7	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Client: SS PAPPADOPOLIS Profile #: 13032-1

Site: ITEKER SOILS Notes

COC Line Item	Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3C	BP3Z	WPDU	ZPLC	Other		
1																1																
2																1																
3																1																
4																1																
5																1																
6																1																
7																1																
8																																
9																																
10																																
11																																
12																																

Container Codes

Glass			
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar
DG9H	40mL HCl amber voa vial	WGFU	4oz clear soil jar
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass
		AG5U	100mL unpres amber glass

Plastic	
BP1C	1L NAOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn Acetate
BP2C	500mL NAOH plastic
BP2N	500mL HNO3 plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Acetate
BP3C	250mL NaOH plastic
BP3F	250mL HNO3 plastic - field filtered
BP3N	250mL HNO3 plastic
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Acetate
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic
WPDU	16oz unpresserved pistic

Misc.	
I	Wipe/Swab
SP5T	120mL Coliform Na Thiosulfate
ZPLC	Ziploc Bag
AF	Air Filter
C	Air Cassettes
R	Terracore Kit
U	Summa Can

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	Oil
WP	Wipe
DW	Drinking Water

Work Order Number: 60420191

APPENDIX E – NNSA Cultural Resources Background Review Memorandum

Memorandum

Date: August 1, 2023

To: Shari Cannon-Mackey, CEP, ENV SP; Burns & McDonnell

From: Andrew Gottsfield, Cultural Resources Section Manager, Burns & McDonnell

Subject: Cultural Resources Background Review for KCNExT

INTRODUCTION

This cultural resources background review memorandum was conducted for the U.S. Department of Energy (DOE), National Nuclear Security Administration (NNSA), Kansas City National Security Campus (KCNSC) Kansas City Non-Nuclear Component Expansion Transformation (KCNExT) (Project Area) to support development of an Environmental Assessment (EA). The Project Area is in the southern portion of Section 26, Township 47N and Range 33W, adjacent to the existing KCNSC Botts Campus in Kansas City, Missouri (MO-150 and Botts Road). This memorandum provides a summary of historical and archaeological resources known to exist within a 1-mile buffer around the Project Area (Study Area) to provide context for the types of resources that have been previously found in the area and the archaeological potential of the Project Area. This preliminary review includes archaeological and historical databases housed by the Missouri Department of Natural Resources (MDNR) and the State Historical Society of Missouri.

Additional research included the following sources:

- U.S. Geological Survey (USGS) Map Locator and Downloader (https://ngmdb.usgs.gov/topoview/)
- National Register of Historic Places (NRHP) online database
- Bureau of Land Management General Land Office (GLO) plat maps for Township 47N, Range 33W
- Soil Conservation Service - County Soil Surveys for Jackson County
- Aerial photography from 1948 to the present (GoogleEarth 2023; NetrOnline 2023).
- USGS Historical Topographic Map Explorer (https://livingatlas.arcgis.com/topoexplorer/index.html)
- The State Historical Society of Missouri's County plat atlases and books (Plat Maps of Missouri - Digital Collections (shsmo.org)

RESULTS

Based on a desktop review using the MDNR Archaeological Viewer, one prehistoric lithic scatter archaeological site (23JA1845) has been recorded within the southeastern portion of the Project Area. James Roberts with the Missouri Archaeological Society recorded the site in 1990 and completed the site form for the Project in 2020. This site assemblage included a "grab sample" of lithic items including 7 fragments of shatter, 1 drill, 3 scrapers, and 1 utilized flake. The items were recovered and collected (private collection) during a pedestrian survey for construction or renovations apparently related to a former UMB Bank (constructed in the mid-1980s and removed in 2000). No further information could be gleaned about the site from the site form.

Within the Study Area, there are four additional previously recorded sites (23JA575, 23JA517, 23JA263, and 23JA227). In total, 20 cultural resources surveys have been completed within the 1-mile buffer of the Project Area. Three of the surveys intersect with the Project Area (CS-31, JA-383, JA-853) (Tables 1 and 2; Figure 2). A **Bold** entry in the tables denote surveys within the Project Area.

Table 1: Archaeological Sites within the Study Area

Site ID	Site Type	Component	Construction/ Occupation	Notes	NRHP Status
23JA575	Habitation	Historic	Unknown	Found during survey ID JA-213	Unevaluated
23JA517	Unknown	Unknown	Unknown	Found during survey IDs CS-31 or JA-161	Unknown
23JA263	Habitation	Historic	Unknown	Found during survey ID JA-63	Not eligible
23JA227	Unknown	Unknown	Unknown	Unknown	Unknown
23JA1845	**Unknown**	**Prehistoric**	**Unknown**	**Recorded by James Roberts with Missouri Archaeological Society on 2020-08 (Recorded the site in 1990 but did not submit a site form until 2020)**	**Unevaluated**

Table 2: Previous Archaeological Surveys Conducted Within the One-Mile Study Area

Report Title	Submitted To	Report Author	Report Date	Report Number
Cultural Resources Inventory and Evaluation of the Richards-Gebaur Air Force Base, Cass and Jackson Counties, Missouri	U.S Air Force	Donald E. Weston	1983	CS-4
An Intensive Survey of Archaeological, Historic, and Historic Architectural Resources, City of Grandview Park and Development, Jackson County, Missouri.	Land and Water Conservation Fund	Larry J. Grantham	1981	JA-54
Interchange Revisions to the Intersection of Routes 71 and 150 MoDOT Job No. J4P1429	**Federal Highway Administration**	**James P. Harcourt**	**2006**	**JA-383**
An Archaeological and Historical Survey of the Proposed River Oaks Park in the City of Grandview, Jackson County, Missouri	Land and Water Conservation Fund	Jim D. Feagins	1993	JA-125
Proposal for Archaeological, Historical and Architectural Survey of Richards-Gebaur AB, MO	U.S Air Force	Larry J. Scmits	1982	CS-47
Cultural Resource Assessment-Revised, GSA Kansas City Plant, Jackson County Missouri	General Services Administration	Kathryn A. Warner	2007	JA-395
Cultural Resources Investigations of the Proposed Route 150 Relocation, Kansas City, Jackson County	Federal Highway Administration	Robert J. Hoard	1995	JA-146

Report Title	Submitted To	Report Author	Report Date	Report Number
Cultural Resource Assessment-Revised, GSA Kansas City Plant, Jackson County	General Services Administration	Kathryn A. Warner	2007	JA-309
Interstate 49 Outer Roads, Grandview, Job Nos. J4P2237/STP-3322(410)	Federal Highway Administration	Kathryn Wilkins	2021	JA-875
Phase I Cultural Resources Study of Revisions to the Proposed KN Interstate Gas Transmission Company Riverside Natural Gas Pipeline Project, Jackson County	Federal Energy Regulatory Commission	Don L. Dycus	1997	JA-161
A Cultural Resource Survey of Belvidere Park, City of Grandview, Jackson County	Land and Water Conservation Fund	Larry J. Grantham	1983	JA-63
Report on the Results of a Cultural Resources Survey in the Vicinity of Belton, Cass County	Environmental Protection Agency	Christopher A. Wright	1980	CS-36
A Cultural Resource Survey of John Anderson Park in the City of Grandview, Jackson County	Missouri Department of Natural Resources	Jim D. Feagins	1986	JA-80
Cultural Resource Investigations Phase I Survey Bott's Road Industrial Project	**Terra Technologies Inc.**	**Craig Sturdevant**	**2021**	**JA-853**
Phase I Cultural Resource Investigations of the Proposed Kansas Pipeline Operating Company (KPOC) Natural Gas Pipeline (700 Line) Jackson and Cass Counties	**Federal Energy Regulatory Commission**	**Mark W. Kelly**	**1996**	**CS-31**
A (Phase I) Archaeological and Historical Survey of the Proposed Project for Widening Botts Road, Within the City of Grandview, Jackson County	Federal Highway Administration	Jim D. Feagins	2000	JA-213
Research Design for Archaeological, Historical and Historic Architectural Survey of Richards-Gebaur AFB, Cass and Jackson Counties	US Army Corps of Engineers	Larry J. Scmits	1982	CS-38
Archaeological Survey of Select US Army Reserve Centers in Missouri, Buchanan, Cass, Franklin, Jasper, and St. Francois counties	US Army Corps of Engineers	Brockington and Associates Inc.	2016	BN-104
Phase I Cultural Resources Survey: Route I-49, Jackson County, MoDOT Job No. J4I3217	Federal Highway Administration	Brianne Greenwood	2019	JA-791
Phase One Cultural Resource Survey, Proposed PCS Cellular Tower: Mullies (KC13XC297-D), Jackson County	Federal Communications Commission	Babcook, Nathan Jr.	1999	JA-200

Based on review of the available county and GLO plat maps, historic topographic maps and aerials, the Project Area has not contained any farmsteads or homesteads since the 1840s. In addition, there are no NRHP-listed historic properties within the Study Area.

SUMMARY AND RECOMENDATIONS

Based on the results of the cultural resources data review, one prehistoric lithic scatter (23JA1845) has been recorded within the southeastern portion of the Project Area. This site is unevaluated for eligibility for NRHP listing. It is recommended that this site either be evaluated through additional fieldwork and documentation or avoided. The entire Project Area was surveyed in 2021 (JA-853) and portions of the Project Area were surveyed in 2006 (JA-383) and 1996 (CS-31). The previously conducted surveys were all negative for cultural resources. Therefore, the Project Area has a low potential to contain archaeological resources and does not contain built resources requiring NRHP assessment. If site 23JA1845 can be avoided or it is assessed as ineligible for NRHP inclusion by DOE and / or MO SHPO, it is recommended that the Project would have no effect on historic (NRHP-listed or eligible) properties as currently designed, and no further archaeological investigations are recommended.

Attachment A: Figures

Attachment A – Figures

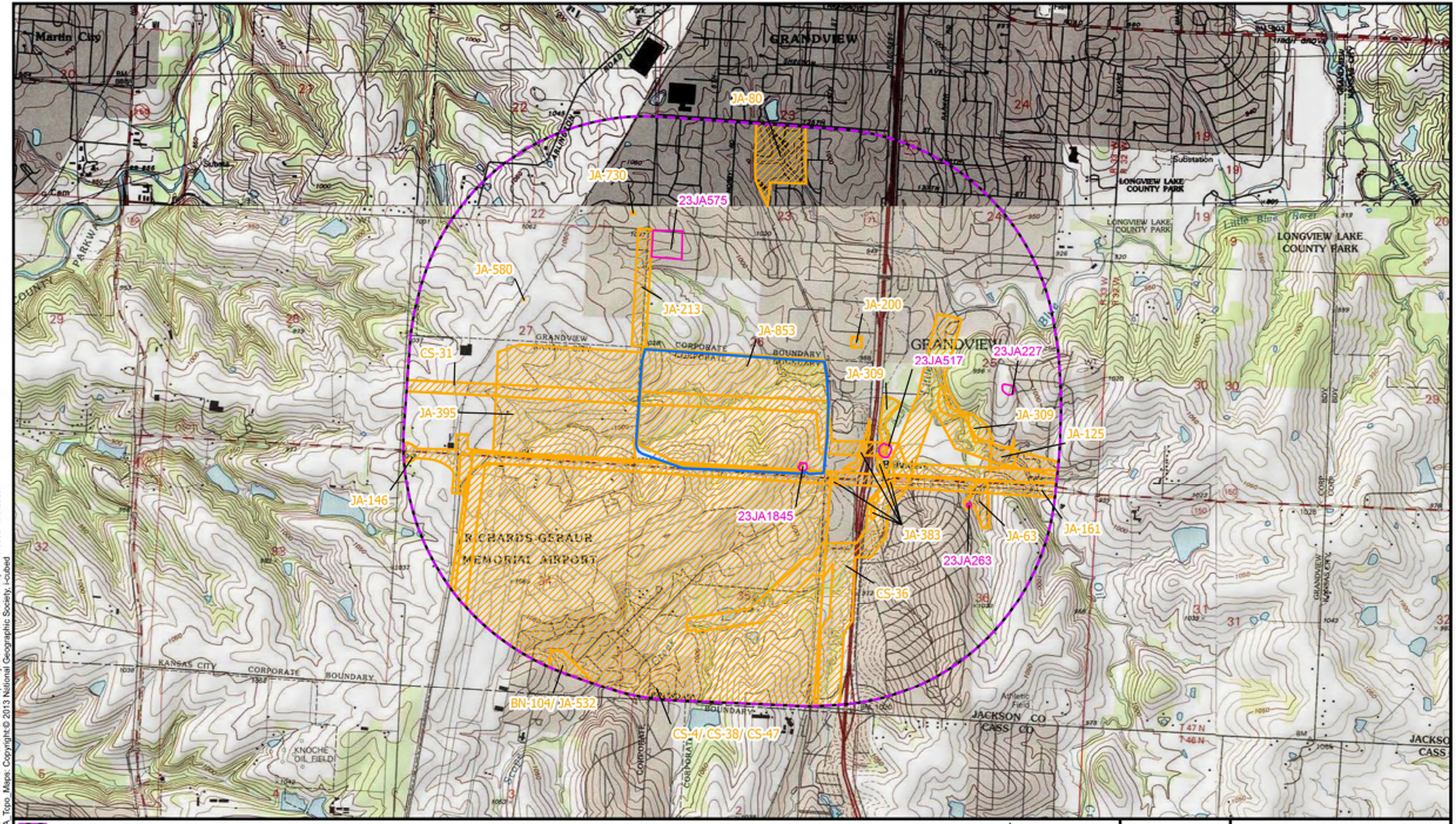
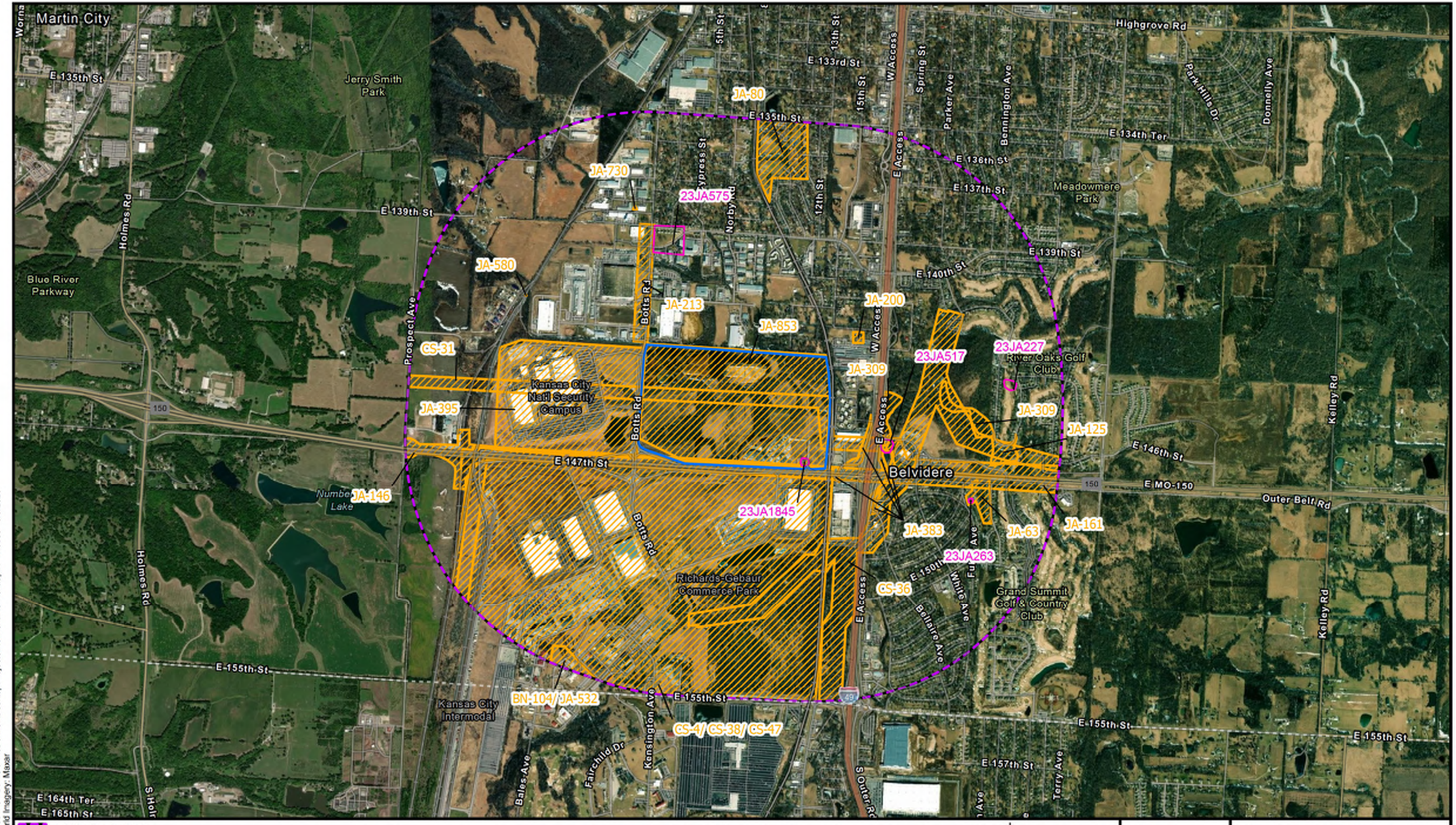


Figure 1
Cultural Resources Desktop Review
Topographic Map
KCNExT
NNSA/KCNSC
Jackson County, Missouri

Path: C:\Users\khouse\OneDrive - Burns & McDonnell\Desktop\Projects\KC Next\KC Next.aprx khouse 6/8/2023
Service Layer Credits: USA_Topo_Maps Copyright © 2013 National Geographic Society, i-cubed

Source: ESRI, MODNR, and Burns & McDonnell

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1-Mile Study Area
Project Area
Previously Identified Archaeological Site
Previous Cultural Resources Survey

NORTH

2,000 1,000 0 2,000

Scale in Feet

BURNS McDONNELL

Figure 2
Cultural Resources Desktop Review
Aerial Map
KCNExT
NNSA/KCNSC
Jackson County, Missouri

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Service Layer Credits: World Imagery: Maxar

Source: ESRI, MODNR, and Burns & McDonnell

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