

Phase I Environmental Site Assessment

Oldenburg Industrial Site

Highway 100

Washington, Franklin County, Missouri

July 1, 2025 | Terracon Project No. 15257202

Prepared for:

City of Washington MO
405 Jefferson Street
Washington, Missouri

Prepared by:

Terracon Consultants, Inc.
Lenexa, Kansas



Nationwide
[Terracon.com](https://www.terracon.com)

- Facilities
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15620 W 113th St
Lenexa 66219-5102
P 913-492-7777
F 913-492-7443
Terracon.com

July 1, 2025

City of Washington, MO
405 Jefferson Street
Washington, MO 63090

Attn: Mr. Aaron Griesheimer
P: (636) 390-1004
E: agriesheimer@washmo.gov

Re: Phase I Environmental Site Assessment
Oldenburg Industrial Site
Highway 100
Washington, Franklin County, Missouri
Terracon Project No. 15257202

Dear Mr. Griesheimer:

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 our proposal/work authorization P15257202 dated June 11, 2025.

We appreciate the opportunity to be of service to you on this project. In addition to ESA 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.

A handwritten signature in black ink, appearing to read "Nilisha Khadgi".

Nilisha Khadgi
Staff Scientist

A handwritten signature in red ink, appearing to read "Karen T. Rieken".

Karen T Rieken, P.E.
Regional Site Investigation Manager

Attachments

Explore with us

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Executive Summary

This Phase I Environmental Site Assessment (ESA) was performed in accordance with our proposal/work authorization P15257202 dated June 11, 2025, 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 Karen T. Rieken, P.E, Environmental Professional. Colleen Wittenberg performed the site reconnaissance on June 24, 2025.

Findings and Opinions

A summary of the 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

According to the Franklin County Tax Assessor, site observations, and information provided by the Client, the site consists of approximately 76.45 acres identified as parcel #10-4-18.1-0-099-012.100 located at Highway 100 in Washington, Missouri. The site consists of agricultural row crop land with wooded areas, grassed areas, a pond, and a playground.

. Please refer to Exhibit 2 in Appendix A for a diagram of the site.

Historical Information

Based on the review of available historical information, the site has consisted of vacant/agricultural land with scattered trees and a intermittent stream passing towards the west since at least 1890. A road was apparent on the eastern portion of the site passing towards the south and curving to the west in 1958 and a pond was apparent to the southcentral portion of the site in 1965. A second intermittent stream was apparent passing through the central portion of the site from the south to the north since 1973.

The area to the north consisted of vacant/agricultural land since at least 1890. Several residences were apparent farther to the north in 1945 and two ponds were apparent to the north in 1958. By 1980 several large sheds were apparent farther to the northwest; however, they were removed by 1980. The area to the east and west consisted of vacant/agricultural land since at least 1890 with a stream to the east. The area to the south also consisted of vacant/agricultural land since 1890 followed by a road in east-west orientation. A farmstead is apparent farther to the southwest area with several

sheds, followed by a road and a second farmstead to the southeast in 1945. By 1970, a large shed and pond were apparent to next to the southwestern farmstead; however, the shed was removed by 1978.

Previous Reports

SCI Engineering Inc performed a Cultural Resource Survey in 2023. According to the Cultural Resource Survey report dated June 7, 2023, a pedestrian survey was conducted at 5-meter intervals across the entire site, with a total of nine shovel tests to examine the subsurface conditions. Shovel tests demonstrated that the elevated areas of the site had been impacted by agricultural practices and two pre-contact isolated finds located on southern boundary of the site and the eastern portion of the site were identified; however, these two areas did not warrant site designation in the State of Missouri and were not considered eligible for inclusion on the National Register.

Records Review

Selected federal and state environmental regulatory databases as well as responses from state and local regulatory agencies were reviewed. The site was not identified in any regulatory database. Facilities were not identified within 1 mile radius of the site.

Site Reconnaissance

During the site reconnaissance, the site primarily consisted of agricultural row crop land. Terracon observed a natural gas emergency generator and a pad-mounted transformer associated with a sanitary sewer lift station located in the southeast corner of the site. Water valve markers and sanitary sewer system manhole covers were observed in the northeastern portion of the site.

Debris consisting of general plastic debris and plywood was observed in a drainage ditch on the southwestern side of the site. A metal pipe that had been previously used as a culvert was observed in the northwestern corner of the site. Two ponds, drainage ditches with culverts, intermittent streams, and a detention pond were observed in various locations throughout the site.

Indications of significant staining, noxious odors, chemical sheens, or hazardous waste material was not observed during the site reconnaissance.

RECs associated with the site were not observed during the site reconnaissance.

Adjoining Properties

The site is bordered by the following:

- To the north: Averbeck Drive and Watermann Drive followed by agricultural row crop land, farmstead (7056 and 7066 Highway 100), and AZZ Precoat Metals (901 Watermann Drive)
- To the east: Agricultural row crop land
- To the south: Wooded and agricultural row crop land
- To the west: Wooded and agricultural row crop land

During the site reconnaissance, gas pipeline markers were observed extending east to west along the north side of Averbeck Drive, approximately 80 feet north of the site. Terracon's review of NPMS Online Map did not reveal any oil, gas, or abandoned pipelines in the vicinity of the site. Based on the gaseous nature of the pipeline contents under standard temperature and pressure, this natural gas pipeline is not a REC to the site. Indications of staining, releases, or noxious odors were not observed.

RECs associated with the site originating from current off-site operations were not identified.

Significant Data Gaps

Significant data gaps (SDGs) were not identified.

Additional Services

Per the agreed scope of services, additional services as outlined in the proposal, including items described in Section 13.0 (Non-Scope Considerations) of ASTM E1527-21, were not conducted.

Conclusions

We have performed a Phase I ESA consistent with the procedures included in ASTM Practice E1527-21 at Highway 100, Washington, Franklin County, Missouri, the site. RECs, Controlled RECs (CRECs) and/or SDGs were not identified in connection with the site.

1.0 Introduction

1.1 Site Description

Site Name	Oldenburg Industrial Site
Site Location/Address	Highway 100, Washington, Franklin County, Missouri
Parcel Number	Parcel #10-4-18.1-0-099-012.100
Land Area	Approximately 76.45 acres
Site Improvements	Vacant land
Anticipated Future Site Use	Industrial Development
Reason for the ESA	Assist the client in certification for Missouri Certified Sites Program

The location of the site is depicted on Exhibit 1 of Appendix A, which was reproduced from a portion of the United States Geological Survey (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.

1.2 Scope of Services

This Phase I Environmental Site Assessment (ESA) was performed in accordance with our proposal/work authorization P15257202 dated June 11, 2025, 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." This ESA includes consideration of the movement of hazardous substances and petroleum products in any form, including migration of vapor in the subsurface. 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.

Review of Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS)

PFAS are a family of compounds which are considered emerging contaminants of concern due to their mobility and longevity in the environment. PFAS has been used in many products, including but not limited to fire-fighting foam, anti-stick coatings, stain and water-repellent coatings, electroplating, and paper products, among others. On July 8, 2024, US EPA designated two PFAS compounds, perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS), including their salts and structural isomers, as hazardous substances under CERCLA; accordingly, PFOA and PFOS was evaluated within the scope of E1527-21. Please note that PFAS compounds are ubiquitous in the environment and this limited review is not to be construed as confirmation that PFAS compounds are not present in, at or under the site.

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, the 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:

- At the issuance of this report, a response had not been received from the Washington, Missouri City Clerk's Office and Volunteer Fire Company. However, based on the information (historical reviews, database reviews, and online resources) utilized in the preparation of this report, this limitation is not anticipated to alter the conclusions of this report, or prevent the EP's ability to identify RECs, and therefore is 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 City of Washington MO. Use or reliance by any other party is prohibited without the written authorization of City of Washington MO 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 Terracon's Agreement for Services. The limitation of liability defined in the Agreement for Services 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, Mr. Aaron Griesheimer, client's representative, was asked to provide the following user questionnaire information as described in ASTM E1527-21 Section 6.

Client Questionnaire Responses

Client Questionnaire Item	Client Did Not Respond	Client's Response		
		N/A*	Yes	No
Actual Knowledge of Environmental Liens that may encumber the site.				X
Actual Knowledge of Activity Use Limitations (AULs) that may encumber the site.				X
Specialized Knowledge or Experience that is material to a REC in connection with 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

*N/A = Not Applicable

Terracon's consideration of the client-provided information did not identify RECs. A copy of the questionnaire is included in Appendix C.

The client did not provide the requested User's information as of the issuance date of the report, which represents a data gap. Terracon assumes the client is evaluating the questionnaire information outside the context of Terracon's Phase I ESA scope of work and report.

2.0 Physical Setting

Physical Setting Information		Source
Topography		
Site Elevation	Approximately 520 feet above sea level	USGS Topographic Maps, Washington West, Missouri 2021 Appendix A
Topographic Gradient	Sloping towards the south	
Closest Surface Water	Two intermittent streams and a pond on the site	
Soil Characteristics		
Soil Type	Haymond silt loam, 0 to 3 percent slopes, frequently flooded	Franklin County, MO USDA-NRCS Web Soil Survey viewed June 18, 2025
Description	Haymond silt loam are formed from alluvium parent materials in flood plains and are well drained.	
Geology/Hydrogeology		
Formation	Cotter Dolomite	MDNR GeoSTRAT Online Map, viewed June 19, 2025
Description	Primarily consists of dolostone, with two main types: a fine-grained, cotton rock variety and a more massive, medium-grained type	
Estimated Depth to First Occurrence of Groundwater	Approximately 8 to 13 feet below ground surface (bgs)	Client provided Geotech Boring Log dated May 9, 2023
*Hydrogeologic Gradient	Not known - may be inferred to be parallel to topographic gradient (primarily to the south).	

Physical Setting Information	Source
<p>* 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.</p>	

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. 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, selected historical aerial photographs (at approximately 10-to-15-year intervals) and historical fire insurance maps produced by the Sanborn Map Company were reviewed to evaluate land development and obtain information concerning the history of development on and near the site. Reviewed historical topographic maps, aerial photographs, and Sanborn maps 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.

■ Topographic maps:

- Washington West, Missouri, dated **2021, 2017, 2015, 1985, and 1973** (1:24,000)
- Washington, Missouri, dated **1949 and 1948** (1:62,500)
- Hermann, Missouri, dated **1890** (1:125,000)

■ Aerial photographs: USDA/NAIP, **2018, 2014, 2010, and 2007** (1" = 500'); USGS/DOQQ, **1995** (1" = 500'); USDA, **1985** (1" = 500'); USGS, **1980, 1978, 1970, 1965, 1958, and 1945** (1" = 500')

Historical Maps and Aerial Photographs

Direction	Description
Site	<p>1890: The site appears to be vacant land with a stream or creek passing through the southern portion of the site towards the west.</p> <p>1945-1949: The site appears to be agricultural land with scattered trees.</p> <p>1958: A road passes to the south from the eastern portion of the site and curves towards the west.</p> <p>1965-1970: Similar to the previous maps. A pond is apparent on the southcentral portion of the site.</p> <p>1973-2021: Similar to the previous maps. A second stream or creek passes through the central portion of the site from the south to the north.</p>
North	<p>1890: The area to the north appears to be vacant land.</p> <p>1945-1949: The area to the north appears to be agricultural land. Several residences are apparent farther to the east followed by a road.</p> <p>1958-1978: Similar to the previous maps. A pond is apparent to the northeast and a second pond farther to the northwest</p> <p>1980-2021: The area to the north appears to be similar to the previous maps. Several large sheds are apparent farther to the northwest area. The sheds are removed by 2007.</p>
East	<p>1890: The area to the east appears to be vacant land with a stream passing towards the west.</p> <p>1945-2021: The area to the east appears to be agricultural land.</p>
South	<p>1890: The area to the south appears to be vacant land followed by a road in east-west orientation.</p> <p>1945-1965: The area to the south appears to be agricultural land with scattered trees. A farmstead is apparent farther to the southwest area with several sheds, followed by a road and a second farmstead to the southeast.</p> <p>1970-2021: Similar to the previous maps. A large shed and a pond are apparent next to the previously mentioned farmstead to the southwest. By 1978, the large shed is no longer apparent.</p>
West	<p>1890: The area to the west appears to be vacant land.</p> <p>1945-2021: The area to the west appears to be agricultural land with scattered trees.</p>

Terracon reviewed the above historical sources for indications of RECs associated with the site. RECs associated with the site were not identified through a review of available historical resources.

3.2 Historical City Directories

The Polk's City Directory, Cole Information, and EDR Digital Archive city directories used in this study were made available through EDR (selected years reviewed: 1963 through 2020) and were reviewed at approximate five-year intervals, if readily available. A current street address for the site was not identified for the site

Historical City Directories

Direction	Description
Site	No listing
North	901 Watermann Dr: No listing 7056-7066 Highway 100: Residential (2005, 2010, 2014, 2017) 901 Melton Dr: Melton Machine & Control Co (2020)
East	6675 Highway KK: Unknown Occupant (2000); Residential (2005, 2010, 2014)
South	6821 Highway KK: No listing 6959 Highway KK: Residential (2000, 2005, 2010)
West	9 Lakeside Dr: Residential (2005, 2010, 2014, 2017, 2020) 7 Lakeside Dr: Residential (2010, 2014, 2017, 2020)

Terracon reviewed the above historical city directories for indications of RECs associated with the site. RECs associated with the site were not identified through a review of available historical city directories.

3.3 Site Ownership

Based on a review of information obtained from the Franklin County, Missouri Camavision GIS website, the current site owner is Washington Missouri Development Corp.

3.4 Title Search

At the direction of the client, a title search was not included as part of the scope of services. Unless notified otherwise, we assume that the client is evaluating this information outside the scope of this report.

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.

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 / Phone #	Title	Date/Time
Colleen Wittenberg	Mr. Aaron Griesheimer / 636-266-9214	Site Owner Representative	June 23, 2025/ 9:00AM

On June 23, 2025, Terracon interviewed Mr. Aaron Griesheimer, representative of the site owner. Mr. Griesheimer indicated that the City of Washington has owned the site since approximately 2021. Mr. Griesheimer indicated that the site consisted of agricultural row crop land before they acquired the site. Currently Lots 2 and 3 of the site (the western portion of the site) have not been graded and consist of agricultural row crop land. Lots 4 and 5 of the site (eastern portion of the site) have been graded and are currently vacant. Mr. Griesheimer was unaware of fill dirt being brought onto the site. A pond and playset consisting of swings and a slide are located generally on the southwest portion of the site for recreational use by the previous owners. Mr. Griesheimer indicated that utilities have been installed at the site for future development and a sanitary sewer lift station is located in the southeast corner of the site, that was installed approximately three years ago.

Mr. Griesheimer was not aware of environmental liens and activity and use limitations (AULs) or other environmental concerns at the site.

3.7 Prior Report Review

Terracon requested the client provide any previous environmental reports they are aware of for the site. The following previous reports were provided by the client to Terracon for review.

- Phase I Cultural Resource Survey Report dated July 25, 2023
Oldenburg Industrial Park, Franklin County, Missouri
Prepared by: SCI Engineering Inc
Prepared for: Cochran Engineering

According to the Cultural Resource Survey report, a pedestrian survey was conducted at 5-meter intervals across the entire site, with a total of nine shovel tests to examine the subsurface conditions. Shovel tests demonstrated that the elevated areas of the site had been impacted by agricultural practices and two pre-contact isolated finds located on southern boundary of the site and the eastern portion of the site were identified; however, these two areas did not warrant site designation in the State of Missouri and were not considered eligible for inclusion on the National Register.

4.0 Records Review

Regulatory database information was provided by EDR, a contract information services company in a report dated June 18, 2025. 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

Terracon reviewed standard federal, state, and tribal environmental record sources within the approximate minimum search distances as required by ASTM E1527-21 and presented in Table 2 of Section 8.0 of The Standard (Types of Government Records to be Reviewed). Further, to enhance and supplement the standard environmental record sources, Terracon reviewed additional federal, state, tribal, local, and proprietary environmental record sources, provided by the database firm, if potentially useful and reasonably ascertainable. Please refer to Appendix D (the environmental regulatory database report) for the number of listings within each database reviewed and database definitions and descriptions.

Due to conversion of address data to location coordinates and the accuracy of government records, the facility locations depicted in the environmental regulatory database report may not match actual physical locations. As such, Terracon attempted to field-verify the actual distances of facilities of concern from the site. Facilities were not identified within 1 mile radius of the site.

4.2 Local Agency Inquiries

Agency Contacted/ Contact Method	Response
Washington, MO City Clerk www.washmo.gov/page/records-request	At the issuance of this report, a response had not been received from the City Clerk.
Washington, MO Volunteer Fire Company www.washmofire.org/contact	At the issuance of this report, a response had not been received from the Fire Department.
Missouri Department of Natural Resources (MDNR) GeoSTRAT Online Map https://modnr.maps.arcgis.com/apps/webappviewer/index.html?id=3ac3a61da4af4834811503a24a3cb935	Terracon's review of MDNR GeoSTRAT Online Map did not reveal water, oil, or gas wells on the site.
Missouri Department of Natural Resources (MDNR) E-START Online Map https://apps5.mo.gov/ESTARTMAP/map/init_map.action	Terracon's review of MDNR ESTART Online Map did not identify any regulatory facilities on the site.
National Pipeline Mapping System (NPMS) / Online map https://pvnpm.phmsa.dot.gov/PublicViewer/	Terracon's review of NPMS Online Map did not reveal any oil, gas, or abandoned pipelines on the site.

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	Colleen Wittenberg
Reconnaissance Date	June 24, 2025

Site Reconnaissance	
Weather Conditions	Sunny 78° Fahrenheit
Site Contact/Title	Terracon was not escorted during the site reconnaissance.
Site Utilities	
Drinking Water	City of Washington
Wastewater	City of Washington
Electric	Ameren
Natural Gas	Spire

5.2 Overview of Current Site Occupants

The site is currently agricultural row crop land with wooded areas, grassed areas, a pond, and a playground.

5.3 Overview of Current Site Operations

According to the Franklin Tax Assessor, site observations, and information provided by the Client, the site consists of approximately 76.45 acres identified as parcel #10-4-18.1-0-099-012.100 located at Highway 100 in Washington, Missouri. The site consists of vacant land. Please refer to Exhibit 2 in Appendix A for a diagram of the site.

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	X
	Elevators	
	Air compressors	
	Hydraulic lifts	
	Dry cleaning	
	Photo processing	
	Ventilation hoods and/or incinerators	
	Waste treatment systems and/or water treatment	X

Category	Item or Feature	Observed or Identified
	systems	
	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	X
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	

Category	Item or Feature	Observed or Identified
	Trash, debris, and/or other waste materials	X
	Dumping or disposal areas	
	Construction/demolition debris and/or dumped fill dirt	
	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	

Site Operations, Processes, and Equipment

Emergency generators

A natural gas emergency generator was observed in the southeast corner of the site, associated with the sanitary sewer lift station. According to Mr. Aaron Griesheimer, the representative of the site owner, the lift station was installed approximately three years ago. The generator appeared to be in good condition. Indications of staining or releases were not observed.

Waste treatment systems and/or water treatment systems

A sanitary sewer lift station was observed in the southeast corner of the site. The lift station was surrounded by metal wire fencing and appeared to be in good condition. According to Mr. Griesheimer, the lift station was installed approximately three years ago. Indications of staining or releases were not observed.

Other processes or equipment

Terracon observed sanitary sewer system manhole covers in the northeastern portion of the site. The sanitary sewer system appeared to be constructed in preparation for the future use of the site. The areas of the sanitary sewer system that were visible appeared to be in good condition. Indications of staining or releases were not observed.

Underground Chemical or Waste Storage, Drainage or Collection Systems

Pipeline markers

Water valve pipeline markers were observed in the northeastern portion of the site along

Averbeck Drive and Waterman Drive.

Electrical Transformers/PCBs

Transformers and/or capacitors

A pad-mounted transformer was observed in the southeast corner of the site, associated with the sanitary sewer lift station. The transformer appeared to be in good condition with no damage or leaking observed. However, no information regarding PCB content of the transformer fluids was observed. Some transformers contain mineral oil which may contain PCBs.

Ameren maintains responsibility for the transformers, and if the transformers were "PCB contaminated," Ameren 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

Debris consisting of general plastic debris and plywood was observed in a drainage ditch on the southwestern side of the site. The debris materials did not appear to be hazardous in nature. Significant staining, noxious odors, or hazardous waste material was not observed in the vicinity of the debris.

A metal pipe was observed in the northwestern corner of the site. According to Mr. Griesheimer, the pipe was used as a culvert and was pulled out of the ground by the previous landowner. Significant staining, noxious odors, or hazardous waste material was not observed in the vicinity of the metal pipe.

Other Notable Site Features

Surface water bodies

Terracon observed ponds in the southeastern and southwestern portion of the sites. Drainage ditches with culverts were observed in the northeastern corner of the site that joins an intermittent stream that extends generally north to southwest through the site. An additional intermittent stream was observed along the southern border of the site. A detention pond with drainage areas were observed in the southeastern portion of the site.

Chemical sheens or noxious odors were not observed around the ponds, drainage ditches, or intermittent streams.

6.0 Adjoining Property Reconnaissance

Visual observations of adjoining properties (from site boundaries) are summarized below.

Adjoining Properties

Direction	Description
North	Averbeck Drive and Watermann Drive followed by agricultural row crop land, farmstead (7056 and 7066 Highway 100), and AZZ Precoat Metals (901 Watermann Drive)
East	Agricultural row crop land
South	Wooded and agricultural row crop land
West	Wooded and agricultural row crop land

During the site reconnaissance, gas pipeline markers were observed extending east to west along the north side of Averbeck Drive, approximately 80 feet north of the site. Terracon's review of NPMS Online Map did not reveal any oil, gas, or abandoned pipelines in the vicinity of the site. Based on the gaseous nature of the pipeline contents under standard temperature and pressure, this natural gas pipeline is not a REC to the site. Indications of staining, releases, or noxious odors were not observed.

RECs associated with the site originating from current off-site operations were not identified.

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, Karen T. Rieken, P.E., 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.

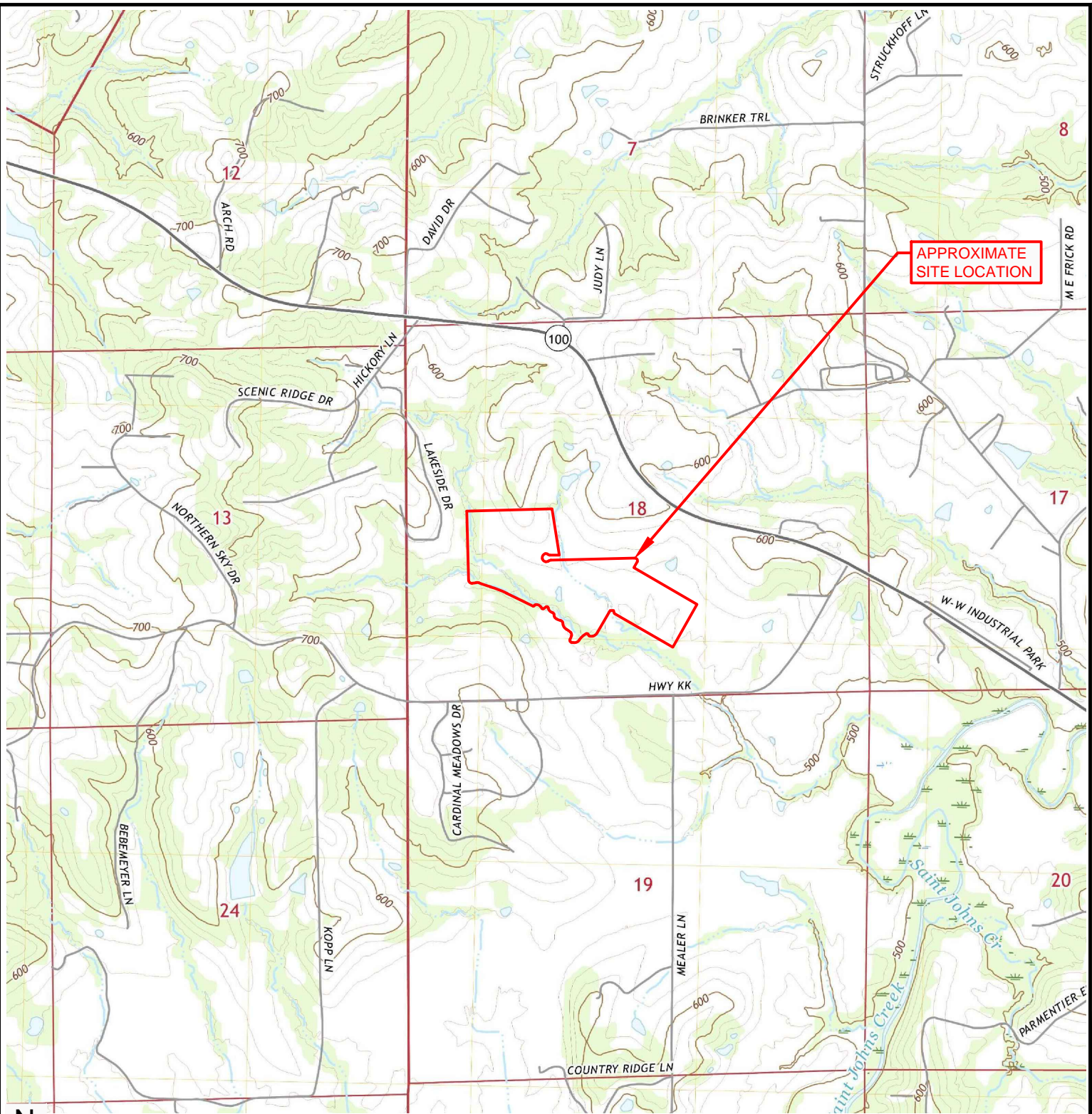
A handwritten signature in red ink, reading 'Karen T. Rieken', is positioned above a horizontal line.

Karen T. Rieken, P.E.
Regional Site Investigation Manager

APPENDIX A

EXHIBIT 1: USGS TOPO BASE LAYER

EXHIBIT 2: SITE DIAGRAM



U.S.G.S. 7.5 MINUTE SERIES TOPOGRAPHIC MAP

STATE OF MISSOURI QUADRANGLE
WASHINGTON WEST 2021

0 1,000' 2,000' 4,000'

DIAGRAM IS INTENDED FOR GENERAL USE ONLY, AND IS NOT
FOR CONSTRUCTION PURPOSES. LOCATIONS ARE APPROXIMATE.

Project Mngr:	CEW
Approved By:	CEW
Checked By:	CEW
Drawn By:	DBM

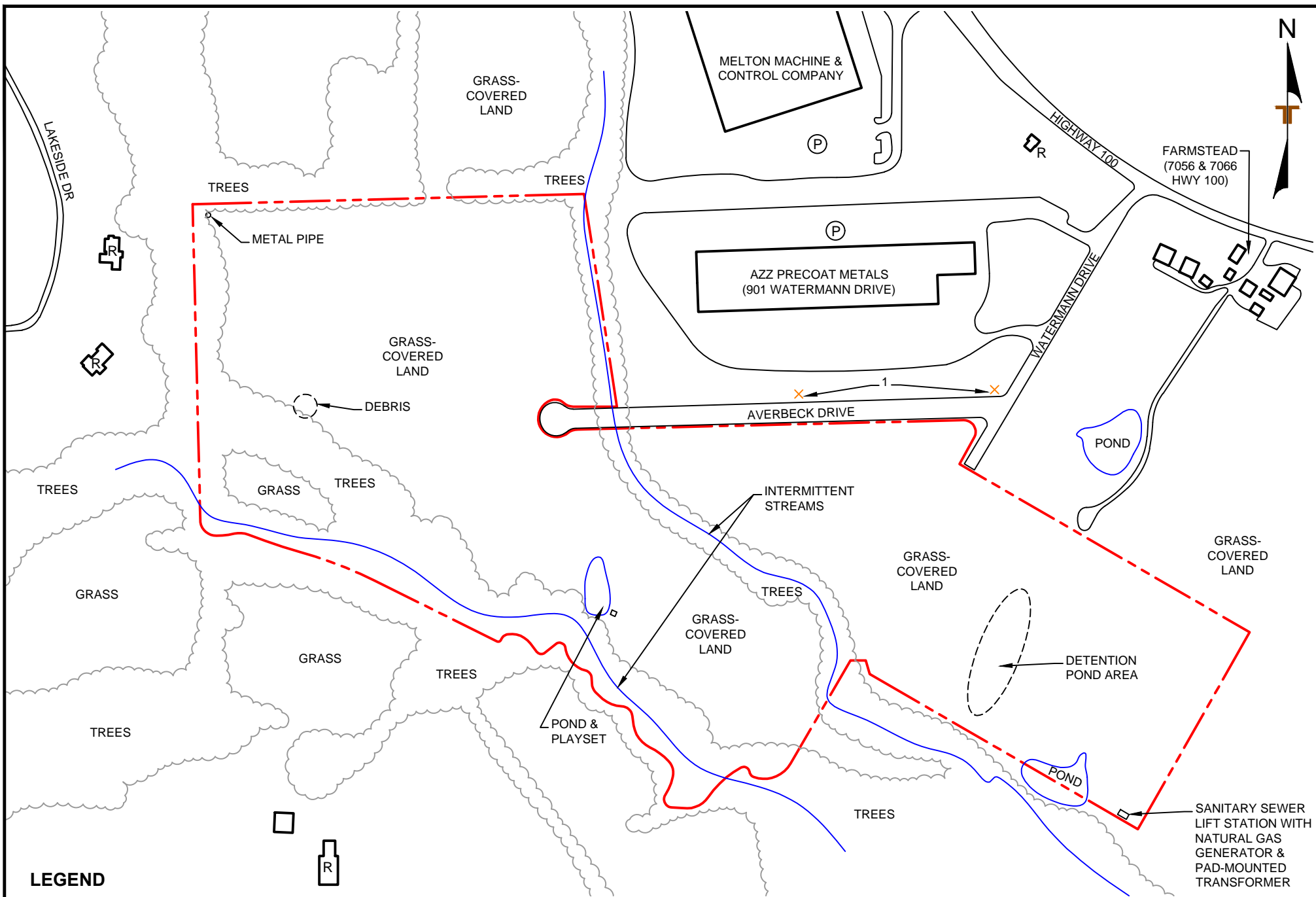
Project No.	15257202
Scale:	1" = 2000'
Date:	06/25/2025
File No.	15257202E1.DWG

Terracon
Consulting Engineers and Scientists
11600 LILBURN PARK ROAD ST. LOUIS, MO 63146
PH. (314) 692-8811

TOPOGRAPHIC MAP
OLDENBURG INDUSTRIAL SITE
HIGHWAY 100
WASHINGTON, FRANKLIN COUNTY, MISSOURI

EXHIBIT

1



LEGEND

(P)

APPROXIMATE SITE BOUNDARY
PARKING AREA

1

GAS PIPELINE MARKER

R

RESIDENTIAL



Project Mng'r: CEW
Approved By: CEW
Checked By: CEW
Drawn By: DBM

Project No. 15257202
Scale: 1" = 400'
Date: 06/25/2025
File No. 15257202E2.DWG

Terracon
Consulting Engineers and Scientists
11600 LILBURN PARK ROAD ST. LOUIS, MO 63146
PH. (314) 692-8811

SITE DIAGRAM

OLDENBURG INDUSTRIAL SITE
HIGHWAY 100
WASHINGTON, FRANKLIN COUNTY, MISSOURI

EXHIBIT

2

APPENDIX B
SITE PHOTOGRAPHS

	
Photo 1 - View of the site, facing south with water valve markers	Photo 2 - View of the site, facing west
	
Photo 3 - View of the site, facing south	Photo 4 - View of the site, facing east
	
Photo 5 - View of the site, facing north	Photo 6 - View of the site, facing west



	
<p>Photo 7 - View of the site with a culvert, facing south</p>	<p>Photo 8 - View of the site, facing west</p>
	
<p>Photo 9 - Pond and playset on the southern portion of the site</p>	<p>Photo 10 - Intermittent stream along the southern border of the site with debris, facing southeast</p>
	
<p>Photo 11 - Detention pond drainage in the southeastern portion of the site, facing north</p>	<p>Photo 12 - Detention pond drainage in the southeastern portion of the site, facing south</p>



Photo 13 - Pond in the southeast corner of the site



Photo 14 - Sanitary sewer lift station in the southeast corner of the site



Photo 15 - Sanitary sewer lift station with natural gas emergency generator



Photo 16 - Pad-mounted transformer associated with the sanitary sewer lift station



Photo 17 - Sanitary sewer system observed in the northeastern portion of the site



Photo 18 - Debris in drainage ditch along southwest portion of the site



Photo 19 - Metal pipe in the northwestern corner of the site

Photo 20 - Metal pipe in the northwestern corner of the site



Photo 21 - Culverts in the northeastern corner of the site

Photo 22 - Intermittent stream along the northern portion of the site

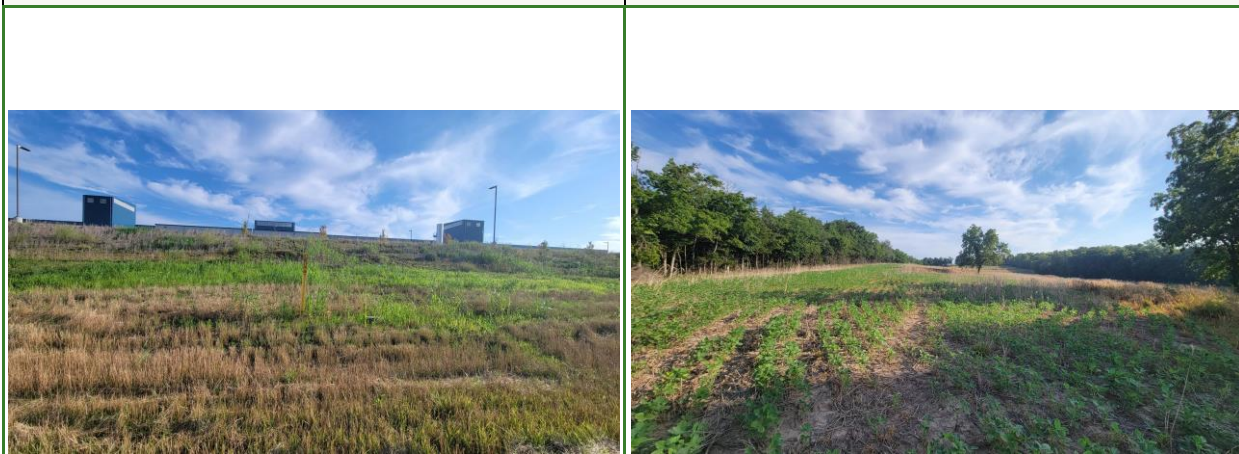







Photo 23 - North adjoining property with a gas pipeline marker along Averbek Drive

Photo 24 - North adjoining property

	
Photo 25 - North adjoining property with culvert	Photo 26 - East adjoining property
	
Photo 27 - East adjoining property	Photo 28 - South adjoining property
	
Photo 29 - West adjoining property	

APPENDIX C

HISTORICAL DOCUMENTATION AND USER
QUESTIONNAIRE

ASTM E1527-21 User Questionnaire



Date Completed:	June 16, 2025	
Person Completing Questionnaire	Name: Aaron Griesheimer Company: City of Washington	Phone: 636-266-9214 Email: agriesheimer@washmo.gov
Site Name	Oldenburg Industrial Site Lot 2, 3, 4, and 5	
Site Address	Highway 100, Washington, Franklin County, Missouri 63090	
Point of Contact for Access	Name: same as above Company:	Phone: same as above Email:
Access Restrictions or Special Site Requirements?	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (If yes, please explain)	
Confidentiality Requirements?	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (If yes, please explain)	
Current Site Owner	Name: Company: same as above	Phone: Email: same as above
Current Site Operator	Name: Company: same as above	Phone: Email: same as above
Reasons for ESA (e.g., financing, acquisition, lease, etc.)	Certification for "Missouri Certified Sites" Program	
Anticipated Future Site Use	industrial development	
Relevant Documents?	Please provide Terracon copies of prior Phase I or II ESAs, Asbestos Surveys, Environmental Permits or Audit documents, Underground Storage Tank documents, Geotechnical Investigations, Site Surveys, Diagrams or Maps, or other relevant reports or documents.	
<p align="center">ASTM User Questionnaire</p> <p>To qualify for one of the <i>Landowner Liability Protections (LLPs)</i> offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "<i>Brownfields Amendments</i>"), the <i>user</i> must respond to the following inquiries required by 40 C.F.R. §§ 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 <i>user</i> should provide the following information to the <i>environmental professional</i>. Failure to conduct these inquiries could result in a determination that "<i>all appropriate inquiries</i>" is not complete.</p>		
<p>1) Did a search of land title records (or judicial records where appropriate) identify any environmental liens filed or recorded against the site under federal, tribal, state, or local law (40 CFR 312.25)?</p> <p><input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (If yes, explain below and send Terracon a copy of the title records or judicial records reviewed.)</p>		
<p>2) Did a search of land title records (or judicial records where appropriate) identify any activity and use limitations (AULs), such as engineering controls, land use restrictions, or institutional controls that are in place at the site and/or have been filed or recorded against the site under federal, tribal, state, or local law (40 CFR 312.26)?</p> <p><input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (If yes, explain below and send Terracon a copy of the title records or judicial records reviewed.)</p>		
<p>3) Do you have any specialized knowledge or experience related to the site or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the site or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business (40 CFR 312.28)?</p> <p><input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (If yes, explain below)</p>		
<p>4) Does the purchase price being paid for this site 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 site?</p> <p><input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not applicable (If yes or Not applicable, explain below)</p>		
<p>5) Are you aware of commonly known or reasonably ascertainable information about the site that would help the environmental professional to identify conditions indicative of releases or threatened releases (40 CFR 312.30)? For example, (a.) Do you know the past uses of the site? (b.) Do you know of specific chemicals that are present or once were present at the site? (c.) Do you know of spills or other chemical releases that have taken place at the site? (d.) Do you know of any environmental cleanups that have taken place at the site?</p> <p><input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (If yes, explain below)</p>		
<p>6) Based on your knowledge and experience related to the site, are there any obvious indicators that point to the presence or likely presence of releases at the site (40 CFR 312.31)?</p> <p><input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (If yes, explain below)</p>		
<p>Comments or explanations:</p>		

Please return this form with the signed authorization to proceed.

Proposal No. P15257202



Oldenburg Industrial Site

Highway 100

Washington, MO 63090

Inquiry Number: 8023059.4

June 17, 2025

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

06/17/25

Site Name:

Oldenburg Industrial Site
Highway 100
Washington, MO 63090
EDR Inquiry # 8023059.4

Client Name:

Terracon
15620 W. 113th Street
Lenexa, KS 66219
Contact: Marci Brockett



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. EDR's Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:**Coordinates:**

P.O.#	NA	Latitude:	38.565124 38° 33' 54" North
Project:	15257202	Longitude:	-91.078506 -91° 4' 43" West
		UTM Zone:	Zone 15 North
		UTM X Meters:	667406.28
		UTM Y Meters:	4270270.05
		Elevation:	520.23' above sea level

Maps Provided:

2021
2017
2015
1985
1973
1949
1948
1890

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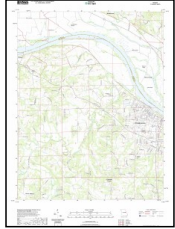
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Topo Sheet Key

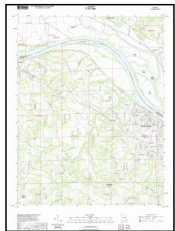
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2021 Source Sheets



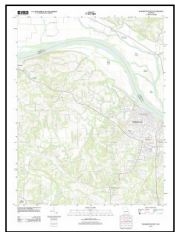
Washington West
2021
7.5-minute, 24000

2017 Source Sheets



Washington West
2017
7.5-minute, 24000

2015 Source Sheets



Washington West
2015
7.5-minute, 24000

1985 Source Sheets



Washington West
1985
7.5-minute, 24000
Aerial Photo Revised 1982

Topo Sheet Key

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

1973 Source Sheets



Washington West
1973
7.5-minute, 24000
Aerial Photo Revised 1970

1949 Source Sheets



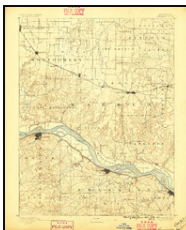
Washington
1949
15-minute, 62500
Aerial Photo Revised 1945

1948 Source Sheets

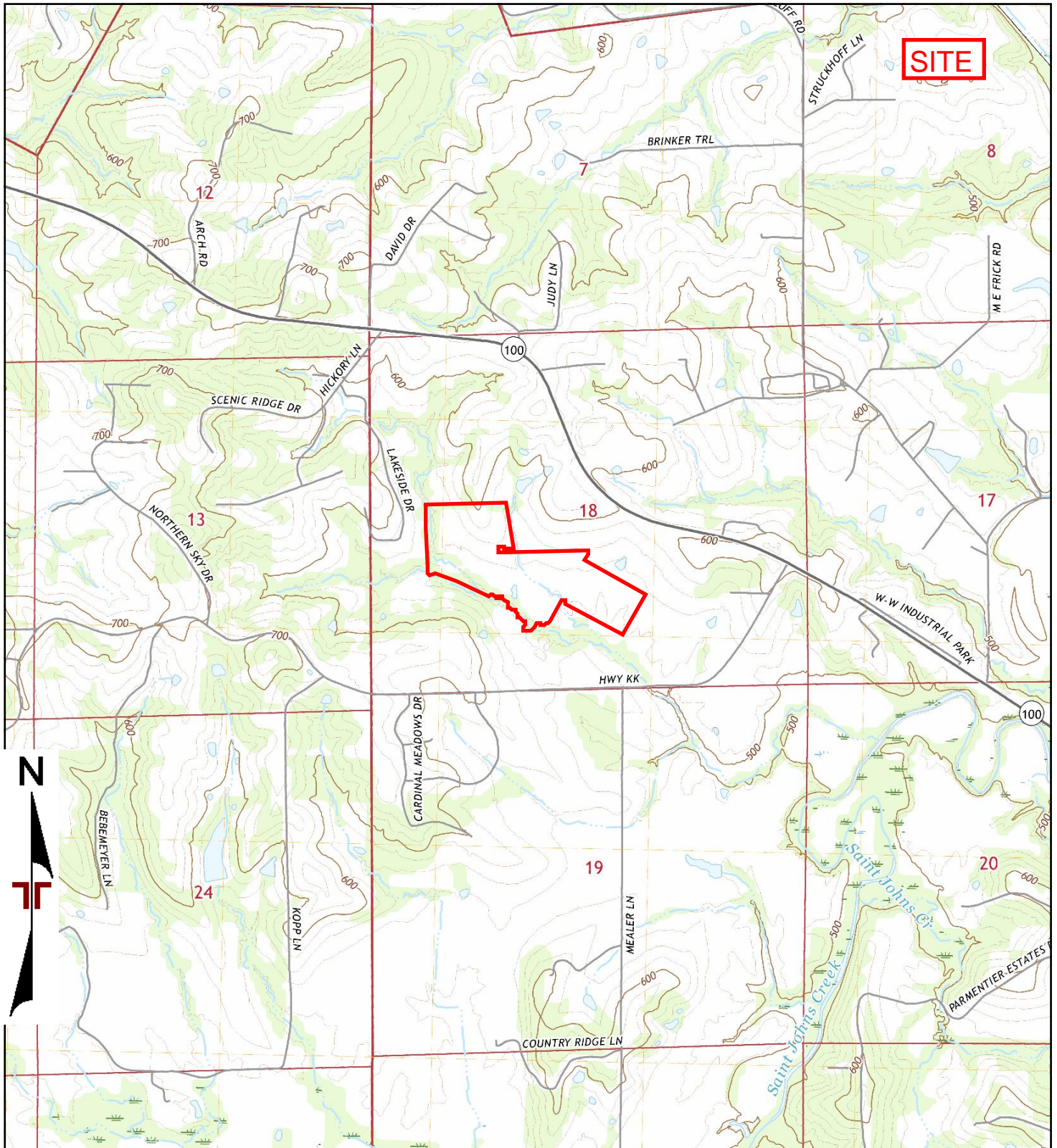


Washington
1948
15-minute, 62500
Aerial Photo Revised 1945

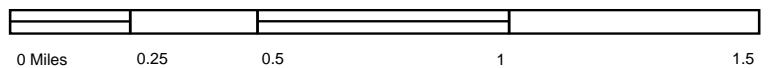
1890 Source Sheets



Hermann
1890
30-minute, 125000



TP, Washington West, 2021, 7.5-minute



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Drawn by:	Scale: As Shown
Checked by:	File Name:
Approved by:	Date: 2021



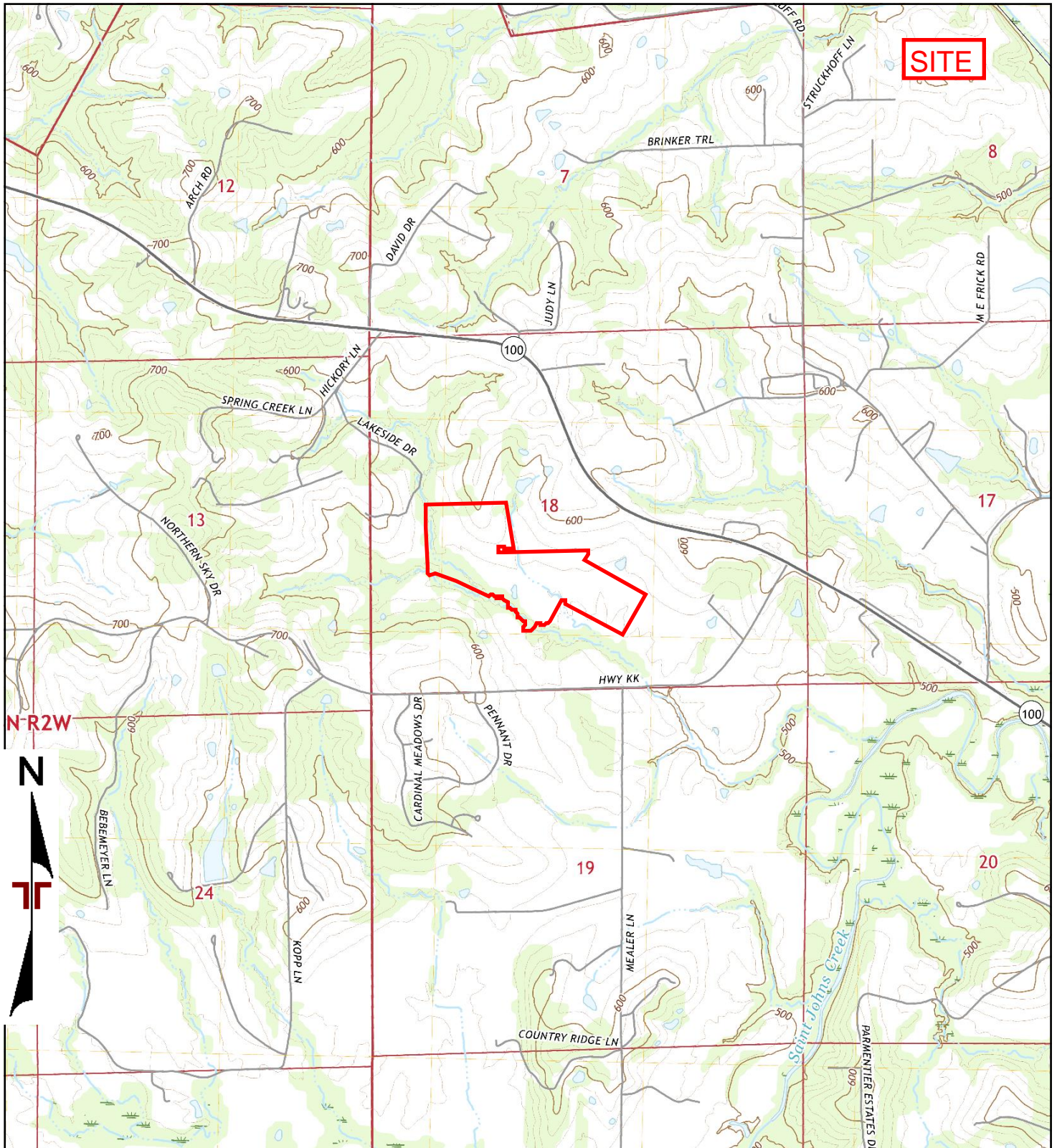
15620 W. 113th Street
Lenexa, KS 66219

2021 TOPOGRAPHIC MAP

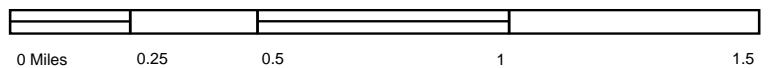
Oldenburg Industrial Site
Highway 100
Washington, MO 63090

Appendix

C



TP, Washington West, 2017, 7.5-minute



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Drawn by:	Scale: As Shown
Checked by:	File Name:
Approved by:	Date: 2017



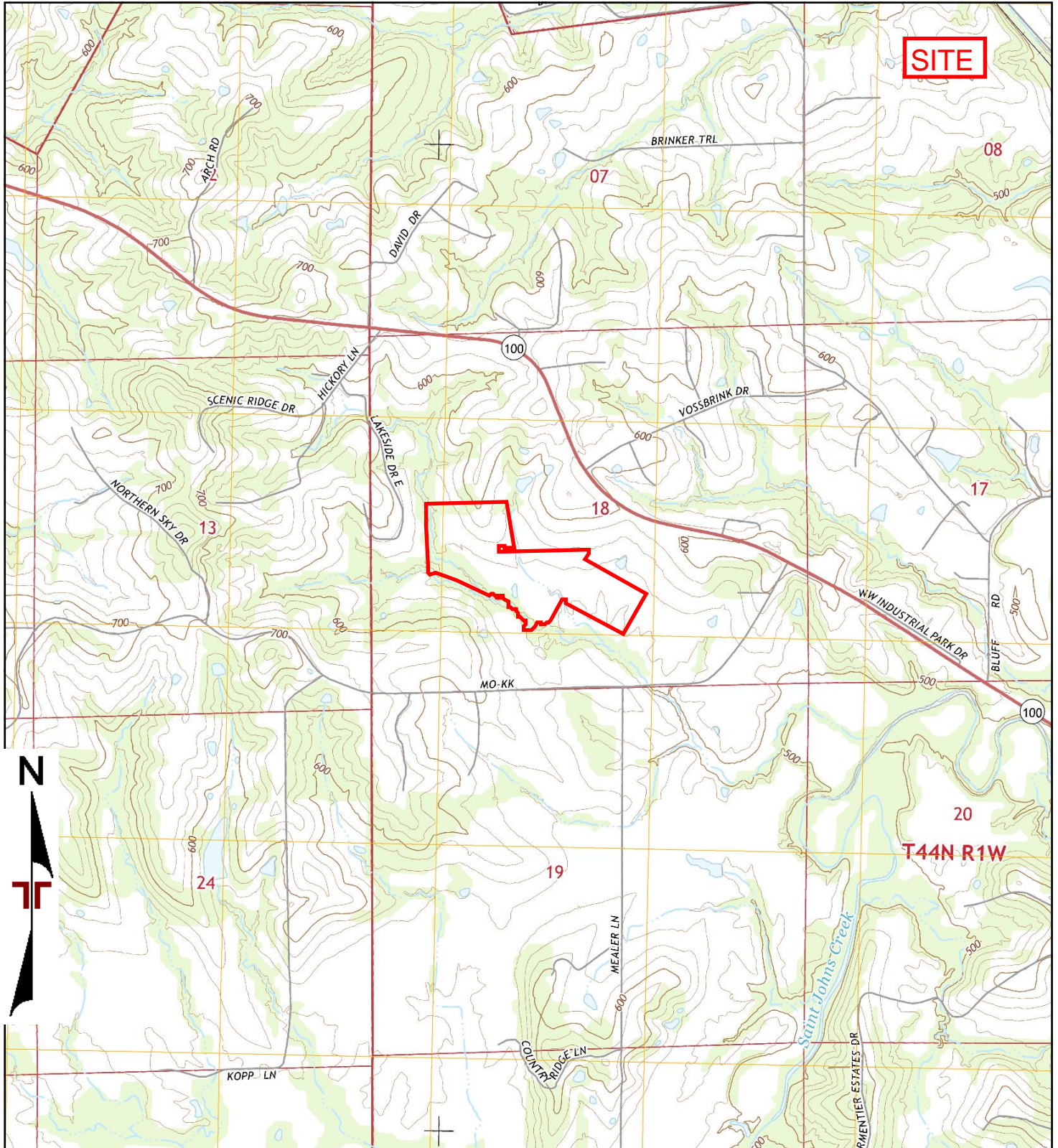
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Lenexa, KS 66219

2017 TOPOGRAPHIC MAP

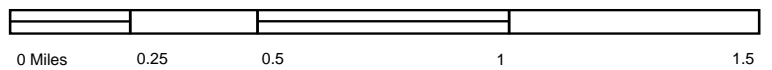
Oldenburg Industrial Site
Highway 100
Washington, MO 63090

Appendix

C



TP, Washington West, 2015, 7.5-minute



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Drawn by:	Scale: As Shown
Checked by:	File Name:
Approved by:	Date: 2015



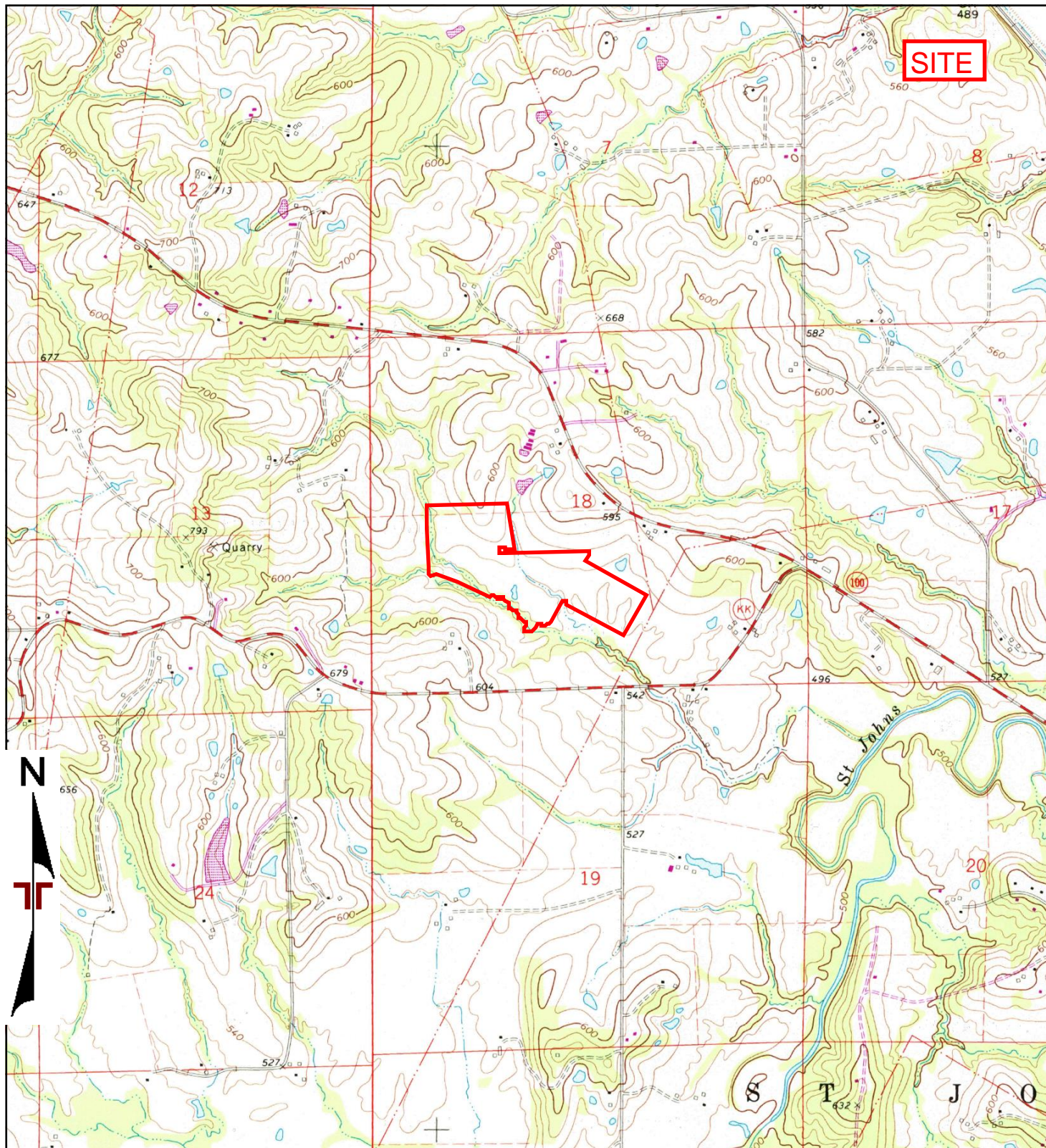
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Lenexa, KS 66219

2015 TOPOGRAPHIC MAP

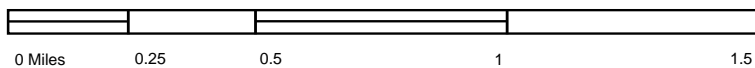
Oldenburg Industrial Site
Highway 100
Washington, MO 63090

Appendix

C



TP, Washington West, 1985, 7.5-minute



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Checked by:	File Name:
Approved by:	Date: 1985



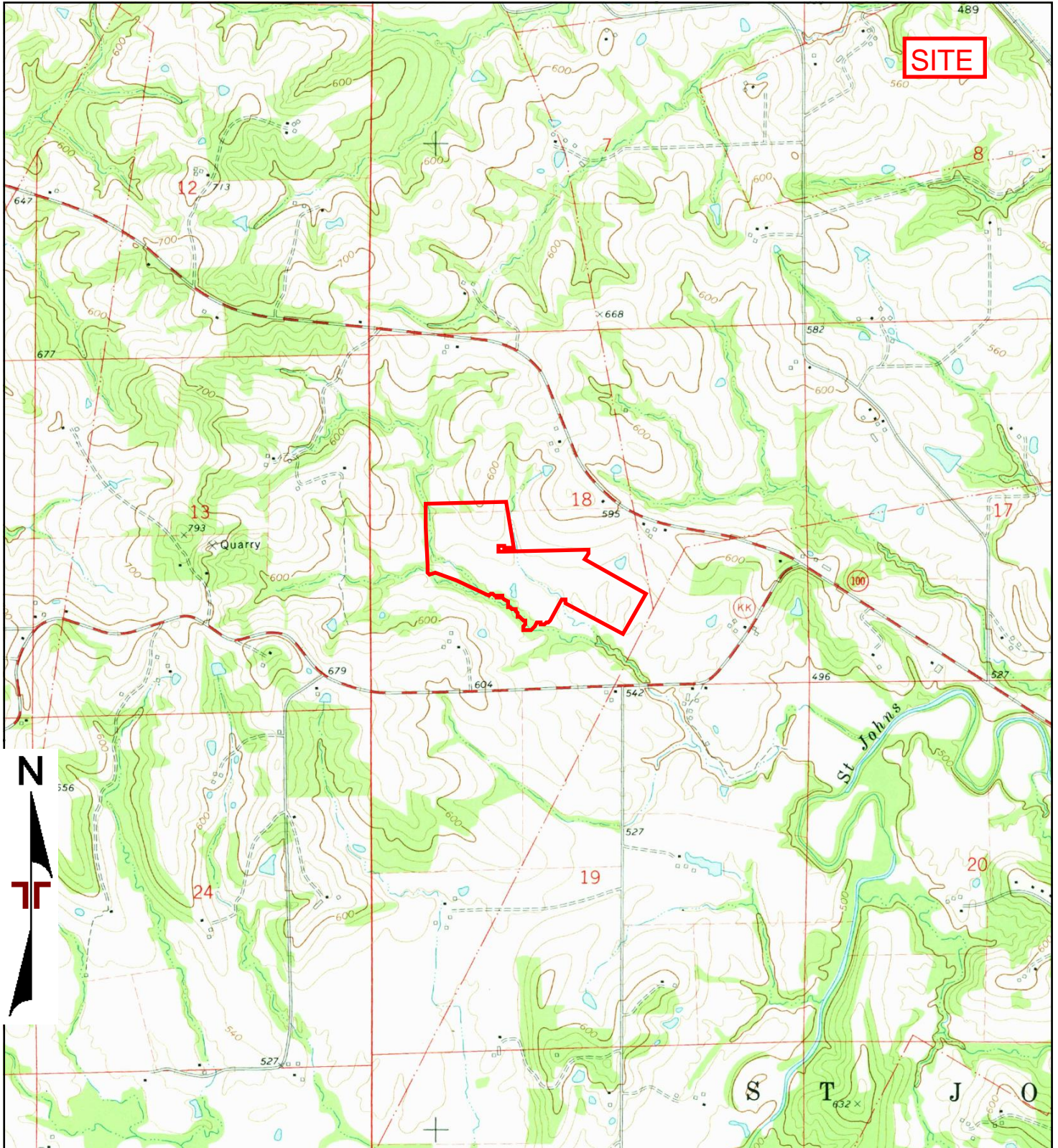
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Lenexa, KS 66219

1985 TOPOGRAPHIC MAP

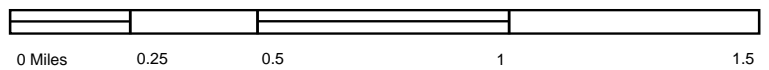
Oldenburg Industrial Site
Highway 100
Washington, MO 63090

Appendix

C



TP, Washington West, 1973, 7.5-minute



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Drawn by:	Scale: As Shown
Checked by:	File Name:
Approved by:	Date: 1973



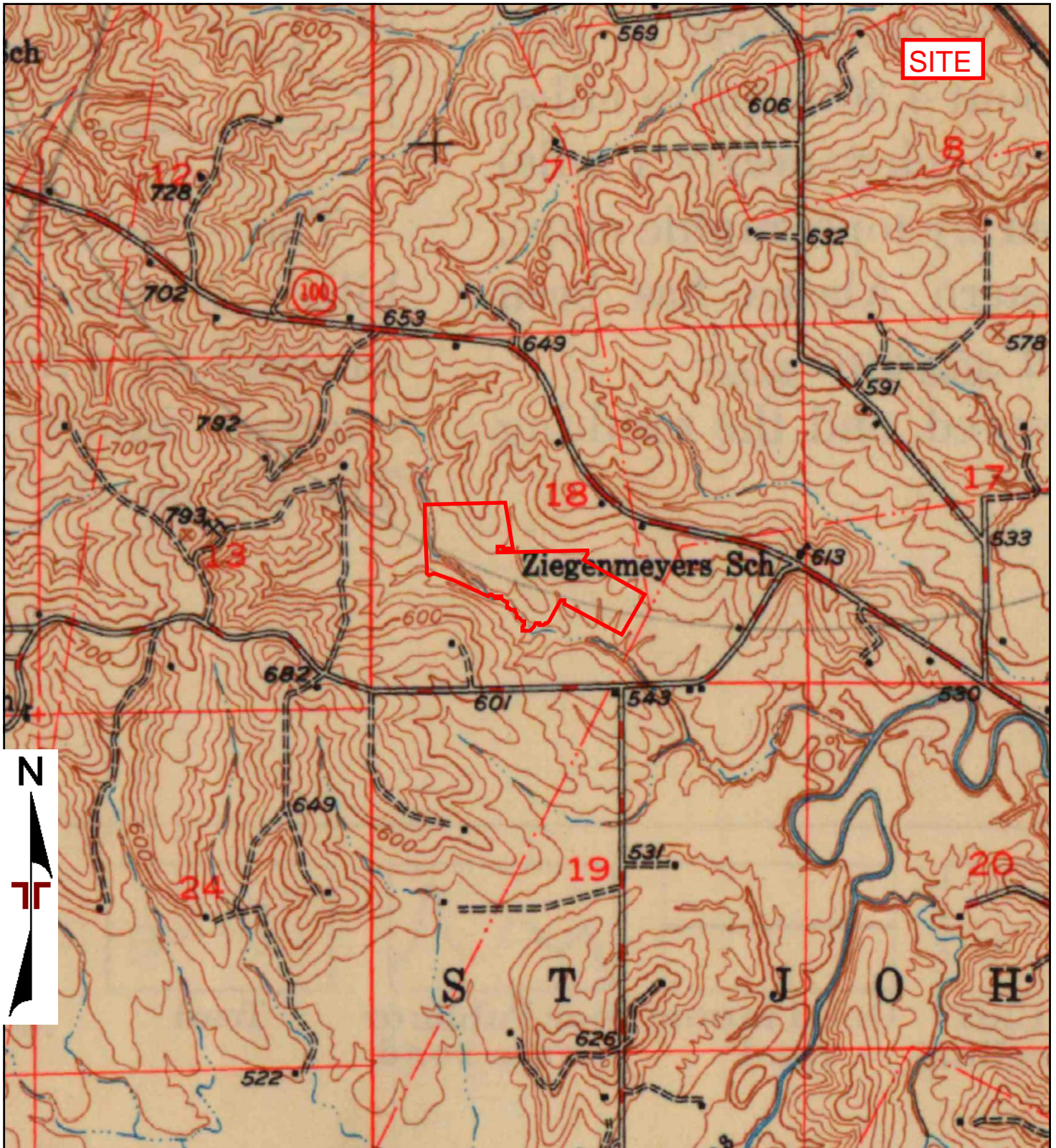
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Lenexa, KS 66219

1973 TOPOGRAPHIC MAP

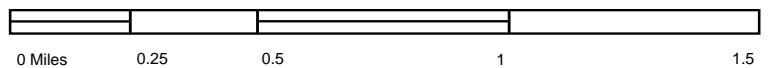
Oldenburg Industrial Site
Highway 100
Washington, MO 63090

Appendix

C



TP, Washington, 1949, 15-minute



Project Manager:	Project No. 15257202
Drawn by:	Scale: As Shown
Checked by:	File Name:
Approved by:	Date: 1949



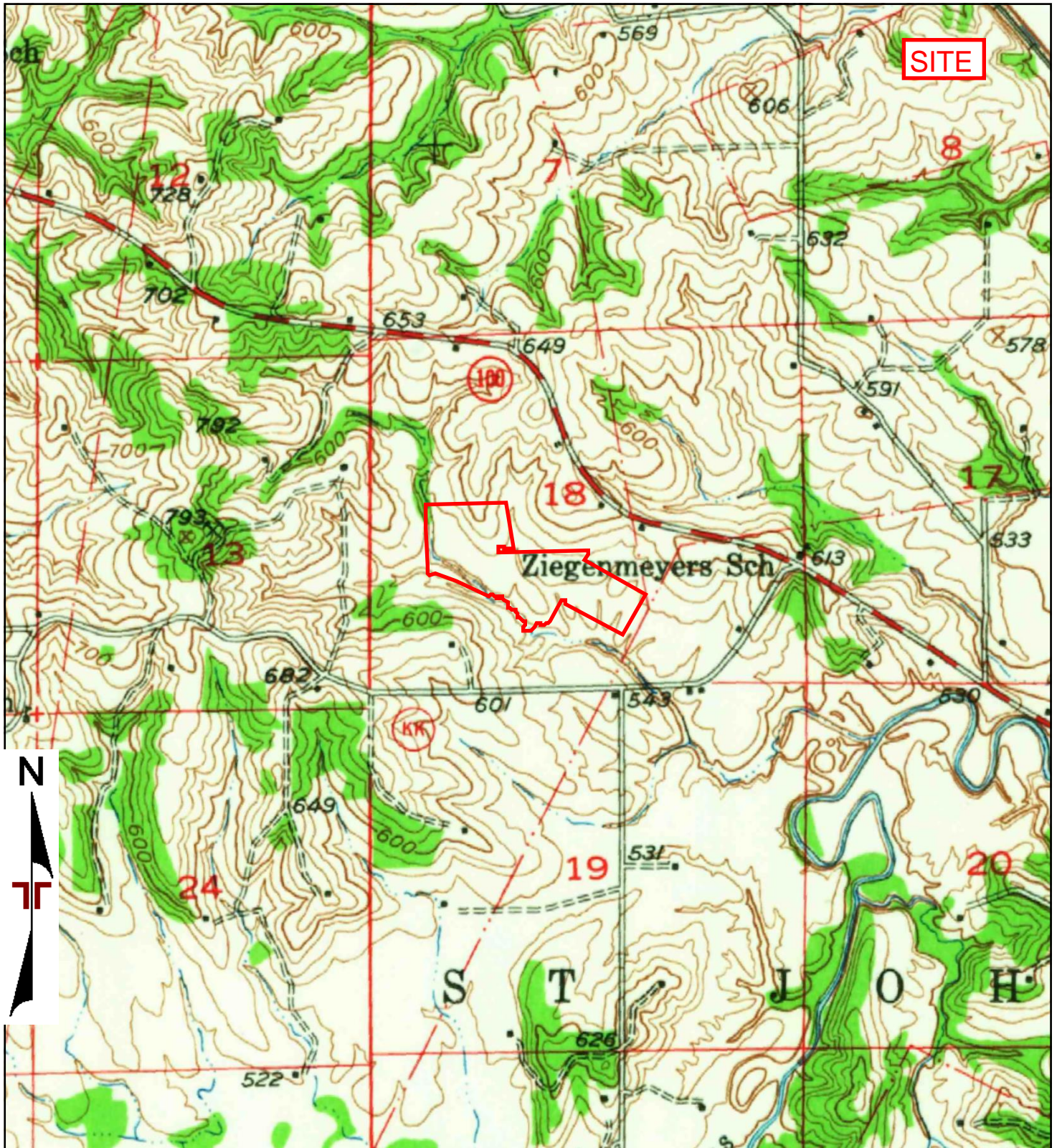
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Lenexa, KS 66219

1949 TOPOGRAPHIC MAP

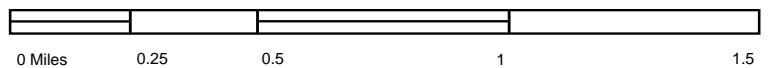
Oldenburg Industrial Site
Highway 100
Washington, MO 63090

Appendix

C



TP, Washington, 1948, 15-minute



Project Manager:	Project No. 15257202
Drawn by:	Scale: As Shown
Checked by:	File Name:
Approved by:	Date: 1948

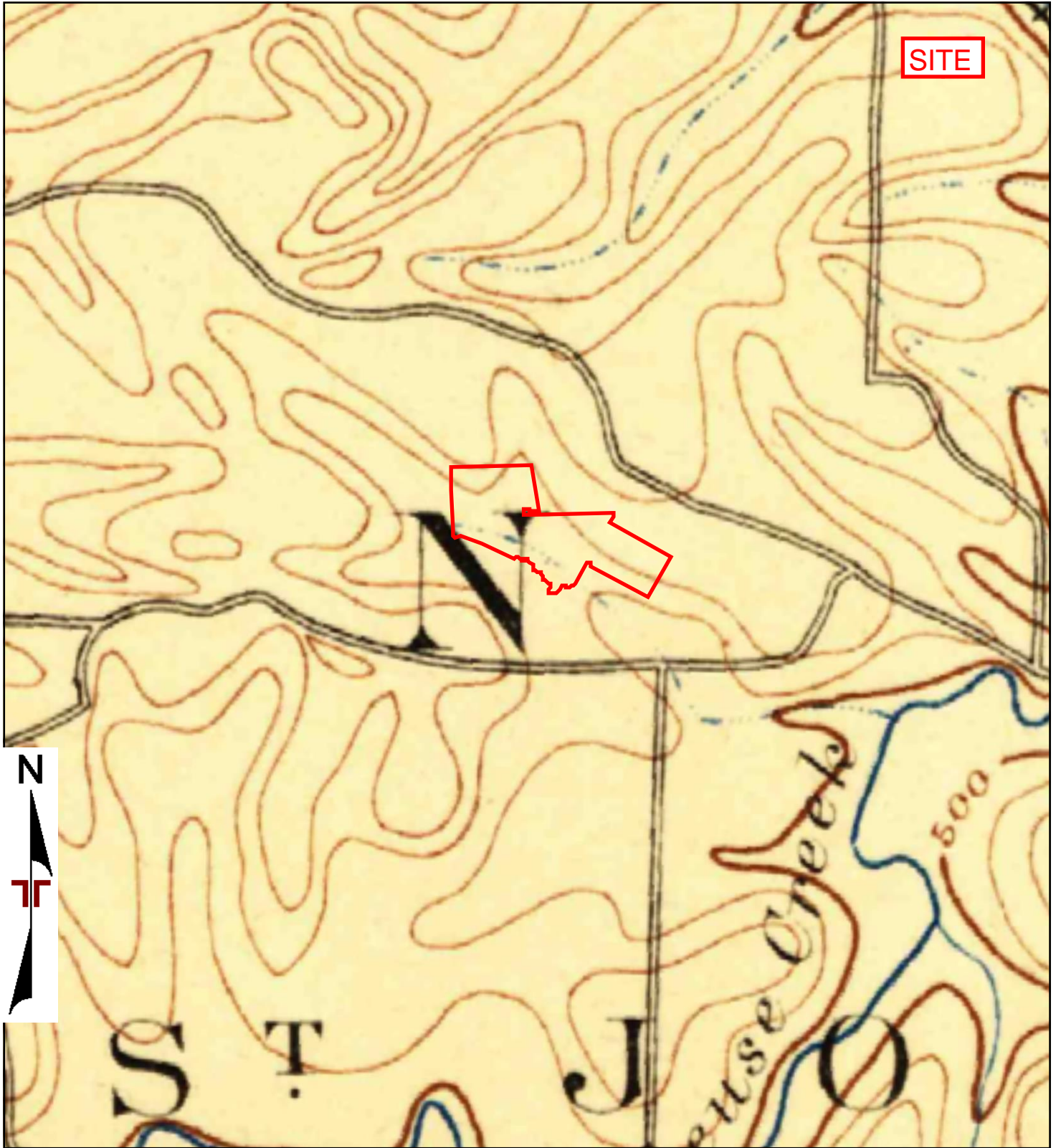
Terracon
15620 W. 113th Street
Lenexa, KS 66219

1948 TOPOGRAPHIC MAP

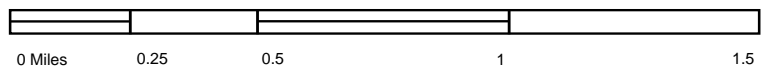
Oldenburg Industrial Site
Highway 100
Washington, MO 63090


Appendix

C



TP, Hermann, 1890, 30-minute



Project Manager:	Project No. 15257202	 15620 W. 113th Street Lenexa, KS 66219	1890 TOPOGRAPHIC MAP	Appendix
Drawn by:	Scale: As Shown		Oldenburg Industrial Site	C
Checked by:	File Name:		Highway 100	
Approved by:	Date: 1890		Washington, MO 63090	



Oldenburg Industrial Site

Highway 100

Washington, MO 63090

Inquiry Number: 8023059.8

June 18, 2025

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

06/18/25

Site Name:

Oldenburg Industrial Site
Highway 100
Washington, MO 63090
EDR Inquiry # 8023059.8

Client Name:

Terracon
15620 W. 113th Street
Lenexa, KS 66219
Contact: Marci Brockett



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
2018	1"=500'	Flight Year: 2018	USDA/NAIP
2014	1"=500'	Flight Year: 2014	USDA/NAIP
2010	1"=500'	Flight Year: 2010	USDA/NAIP
2007	1"=500'	Flight Year: 2007	USDA/NAIP
1995	1"=500'	Acquisition Date: February 18, 1995	USGS/DOQQ
1985	1"=500'	Flight Date: March 15, 1985	USDA
1980	1"=500'	Flight Date: March 18, 1980	USGS
1978	1"=500'	Flight Date: October 28, 1978	USGS
1970	1"=500'	Flight Date: April 17, 1970	USGS
1965	1"=500'	Flight Date: October 05, 1965	USGS
1958	1"=500'	Flight Date: October 20, 1958	USGS
1945	1"=500'	Flight Date: February 24, 1945	USGS

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0 Feet

500

1000

2000

Project Manager:	Project No: 15257202	 15620 W. 113th Street Lenexa, KS 66219	2018 AERIAL PHOTOGRAPH	Appendix
Drawn By:	Scale: As Shown		Oldenburg Industrial Site	C
Checked By:	File Name:		Highway 100	
Approved By:	Date: 2018		Washington, MO 63090	



SITE



0 Feet

500

1000

2000

Project Manager:	Project No: 15257202	 15620 W. 113th Street Lenexa, KS 66219	2014 AERIAL PHOTOGRAPH	Appendix
Drawn By:	Scale: As Shown		Oldenburg Industrial Site	C
Checked By:	File Name:		Highway 100	
Approved By:	Date: 2014		Washington, MO 63090	



0 Feet

500

1000

2000

Project Manager:	Project No: 15257202	 15620 W. 113th Street Lenexa, KS 66219	2010 AERIAL PHOTOGRAPH	Appendix
Drawn By:	Scale: As Shown		Oldenburg Industrial Site	C
Checked By:	File Name:		Highway 100	
Approved By:	Date: 2010		Washington, MO 63090	



SITE




0 Feet

500

1000

2000

Project Manager:	Project No: 15257202
Drawn By:	Scale: As Shown
Checked By:	File Name:
Approved By:	Date: 2007



15620 W. 113th Street
Lenexa, KS 66219

2007 AERIAL PHOTOGRAPH	Appendix
Oldenburg Industrial Site Highway 100 Washington, MO 63090	C



SITE




0 Feet

500

1000

2000

Project Manager:	Project No: 15257202
Drawn By:	Scale: As Shown
Checked By:	File Name:
Approved By:	Date: 1995



15620 W. 113th Street
Lenexa, KS 66219

1995 AERIAL PHOTOGRAPH	Appendix
Oldenburg Industrial Site Highway 100 Washington, MO 63090	C



0 Feet

500

1000

2000

Project Manager:	Project No: 15257202	 15620 W. 113th Street Lenexa, KS 66219	1985 AERIAL PHOTOGRAPH	Appendix
Drawn By:	Scale: As Shown		Oldenburg Industrial Site Highway 100 Washington, MO 63090	C
Checked By:	File Name:			
Approved By:	Date: 1985			



SITE



0 Feet 500 1000 2000

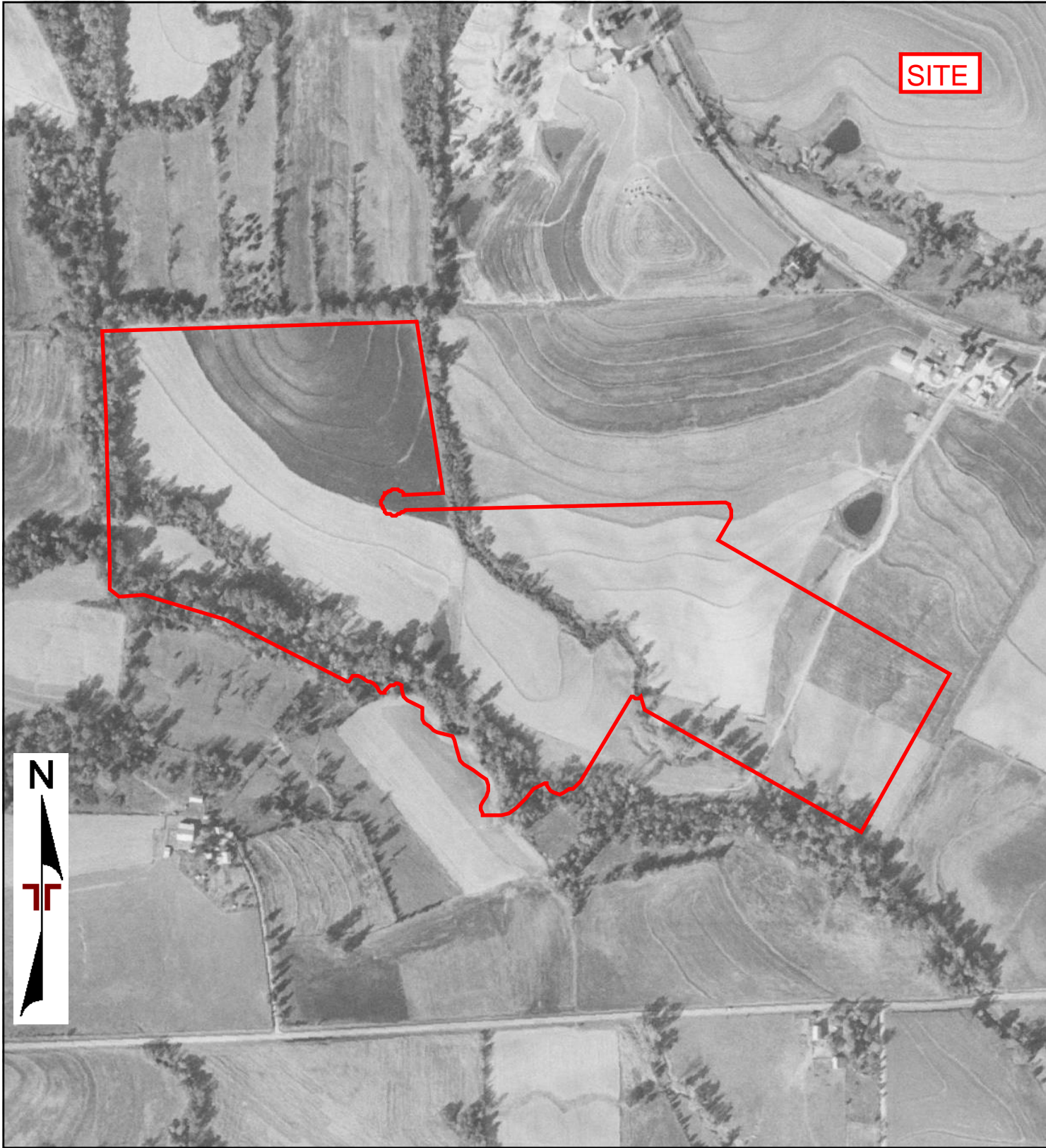
Project Manager:	Project No: 15257202
Drawn By:	Scale: As Shown
Checked By:	File Name:
Approved By:	Date: 1980



15620 W. 113th Street
Lenexa, KS 66219

1980 AERIAL PHOTOGRAPH
Oldenburg Industrial Site Highway 100 Washington, MO 63090

Appendix
C




0 Feet

500

1000

2000

Project Manager:	Project No:
Drawn By:	15257202
Checked By:	As Shown
Approved By:	File Name:
	Date:
	1978



15620 W. 113th Street
Lenexa, KS 66219

1978 AERIAL PHOTOGRAPH
Oldenburg Industrial Site Highway 100 Washington, MO 63090

Appendix
C



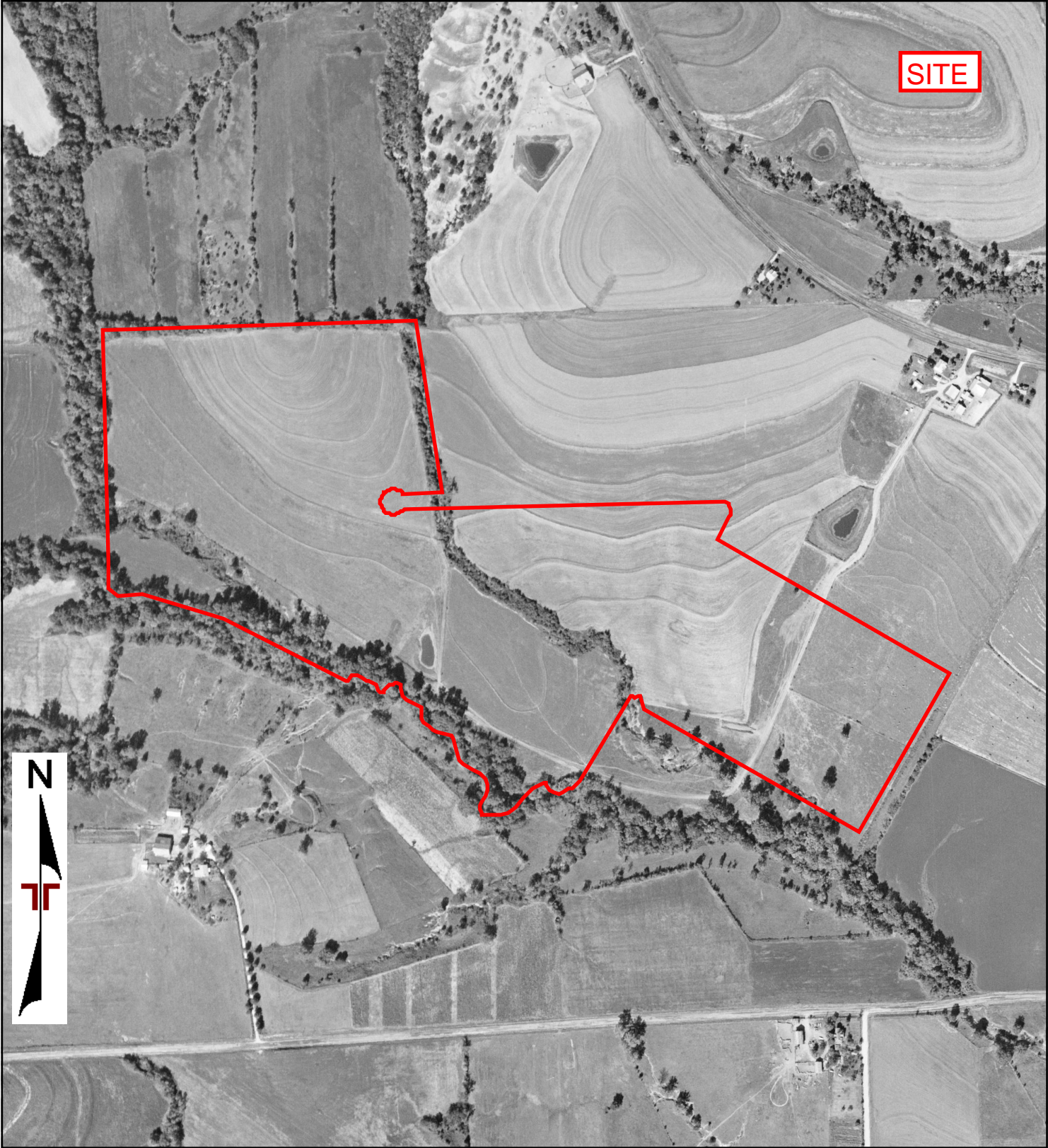
0 Feet

500

1000

2000

Project Manager:	Project No: 15257202	 15620 W. 113th Street Lenexa, KS 66219	1970 AERIAL PHOTOGRAPH	Appendix
Drawn By:	Scale: As Shown		Oldenburg Industrial Site	C
Checked By:	File Name:		Highway 100	
Approved By:	Date: 1970		Washington, MO 63090	



SITE



0 Feet

500

1000

2000

Project Manager:	Project No: 15257202	 15620 W. 113th Street Lenexa, KS 66219	1965 AERIAL PHOTOGRAPH	Appendix
Drawn By:	Scale: As Shown		Oldenburg Industrial Site	C
Checked By:	File Name:		Highway 100	
Approved By:	Date: 1965		Washington, MO 63090	




0 Feet

500

1000

2000

Project Manager:	Project No: 15257202	 15620 W. 113th Street Lenexa, KS 66219	1958 AERIAL PHOTOGRAPH	Appendix
Drawn By:	Scale: As Shown		Oldenburg Industrial Site	C
Checked By:	File Name:		Highway 100	
Approved By:	Date: 1958		Washington, MO 63090	



SITE



0 Feet

500

1000

2000

Project Manager:

Project No:

15257202

Drawn By:

Scale:

As Shown

Checked By:

File Name:

Approved By:

Date:

1945




15620 W. 113th Street
Lenexa, KS 66219

1945 AERIAL PHOTOGRAPH

Oldenburg Industrial Site
Highway 100
Washington, MO 63090

Appendix

C



Oldenburg Industrial Site

Highway 100

Washington, MO 63090

Inquiry Number: 8023059.3

June 17, 2025

Certified Sanborn® Map Report



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

Certified Sanborn® Map Report

06/17/25

Site Name:

Oldenburg Industrial Site
Highway 100
Washington, MO 63090
EDR Inquiry # 8023059.3

Client Name:

Terracon
15620 W. 113th Street
Lenexa, KS 66219
Contact: Marci Brockett



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Certification # E236-45C4-883F

PO # NA

Project 15257202

UNMAPED PROPERTY

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Sanborn® Library search results

Certification #: E236-45C4-883F

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- ☒ Library of Congress
- ☒ University Publications of America
- ☒ EDR Private Collection

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Oldenburg Industrial Site

Highway 100

Washington, MO 63090

Inquiry Number: 8023059.5

June 23, 2025

The EDR-City Directory Image Report

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City Directory Images

Thank you for your business.

Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available business directory data at approximately five year intervals.

RECORD SOURCES

The EDR City Directory Report accesses a variety of business directory sources, including Haines, InfoUSA, Polk, Cole, Bresser, and Stewart. Listings marked as EDR Digital Archive access Cole and InfoUSA records. The various directory sources enhance and complement each other to provide a more thorough and accurate report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Target Street</u>	<u>Cross Street</u>	<u>Source</u>
2020	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
2017	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Cole Information
2014	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Cole Information
2010	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Cole Information
2005	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Cole Information
2000	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Cole Information
1995	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Cole Information
1992	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Cole Information
1987	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory
1983	<input type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory
1979	<input type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory
1974	<input type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory
1970	<input type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory
1965	<input type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory
1963	<input type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory

FINDINGS

TARGET PROPERTY STREET

Highway 100
Washington, MO 63090

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
-------------	-----------------	---------------

100 HWY

2020	pg A1	EDR Digital Archive
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HIGHWAY 100

2017	pg A6	Cole Information	
2014	pg A10	Cole Information	
2010	pg A14	Cole Information	
2005	pg A18	Cole Information	
2000	pg A22	Cole Information	
1992	pg A29	Cole Information	
1987	pg A31	Polk's City Directory	
1983	-	Polk's City Directory	Target and Adjoining not listed in Source
1979	-	Polk's City Directory	Street not listed in Source
1974	-	Polk's City Directory	Street not listed in Source
1970	-	Polk's City Directory	Street not listed in Source
1965	-	Polk's City Directory	Street not listed in Source
1963	-	Polk's City Directory	Street not listed in Source

HWY 100

1995	pg A26	Cole Information
------	--------	------------------

FINDINGS

CROSS STREETS

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
-------------	-----------------	---------------

HIGHWAY KK

2020	pg. A2	EDR Digital Archive	
2017	pg. A8	Cole Information	
2014	pg. A12	Cole Information	
2010	pg. A16	Cole Information	
2005	pg. A20	Cole Information	
2000	pg. A24	Cole Information	
1992	-	Cole Information	Target and Adjoining not listed in Source
1987	-	Polk's City Directory	Street not listed in Source
1983	-	Polk's City Directory	Street not listed in Source
1979	-	Polk's City Directory	Street not listed in Source
1974	-	Polk's City Directory	Street not listed in Source
1970	-	Polk's City Directory	Street not listed in Source
1965	-	Polk's City Directory	Street not listed in Source
1963	-	Polk's City Directory	Street not listed in Source

HWY KK

1995	pg. A27	Cole Information	
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LAKESIDE DR

2020	pg. A4	EDR Digital Archive	
2017	pg. A9	Cole Information	
2014	pg. A13	Cole Information	
2010	pg. A17	Cole Information	
2005	pg. A21	Cole Information	
2000	pg. A25	Cole Information	
1995	pg. A28	Cole Information	
1992	pg. A30	Cole Information	
1987	-	Polk's City Directory	Street not listed in Source

FINDINGS

<u>Year</u>	<u>CD Image</u>	<u>Source</u>	
1983	-	Polk's City Directory	Street not listed in Source
1979	-	Polk's City Directory	Street not listed in Source
1974	-	Polk's City Directory	Street not listed in Source
1970	-	Polk's City Directory	Street not listed in Source
1965	-	Polk's City Directory	Street not listed in Source
1963	-	Polk's City Directory	Street not listed in Source

MELTON DR

2020	pg. A5	EDR Digital Archive	
2017	-	Cole Information	Target and Adjoining not listed in Source
2014	-	Cole Information	Target and Adjoining not listed in Source
2010	-	Cole Information	Target and Adjoining not listed in Source
2005	-	Cole Information	Target and Adjoining not listed in Source
2000	-	Cole Information	Target and Adjoining not listed in Source
1995	-	Cole Information	Target and Adjoining not listed in Source
1992	-	Cole Information	Target and Adjoining not listed in Source
1987	-	Polk's City Directory	Street not listed in Source
1983	-	Polk's City Directory	Street not listed in Source
1979	-	Polk's City Directory	Street not listed in Source
1974	-	Polk's City Directory	Street not listed in Source
1970	-	Polk's City Directory	Street not listed in Source
1965	-	Polk's City Directory	Street not listed in Source
1963	-	Polk's City Directory	Street not listed in Source

WATERMANN DR

2020	-	EDR Digital Archive	Target and Adjoining not listed in Source
2017	-	Cole Information	Target and Adjoining not listed in Source
2014	-	Cole Information	Target and Adjoining not listed in Source
2010	-	Cole Information	Target and Adjoining not listed in Source
2005	-	Cole Information	Target and Adjoining not listed in Source
2000	-	Cole Information	Target and Adjoining not listed in Source
1995	-	Cole Information	Target and Adjoining not listed in Source
1992	-	Cole Information	Target and Adjoining not listed in Source

FINDINGS

<u>Year</u>	<u>CD Image</u>	<u>Source</u>	
1987	-	Polk's City Directory	Street not listed in Source
1983	-	Polk's City Directory	Street not listed in Source
1979	-	Polk's City Directory	Street not listed in Source
1974	-	Polk's City Directory	Street not listed in Source
1970	-	Polk's City Directory	Street not listed in Source
1965	-	Polk's City Directory	Street not listed in Source
1963	-	Polk's City Directory	Street not listed in Source

City Directory Images

100 HWY 2020

5220	JK AUTO LLC
	MID AMERICAN PAINTLESS DENT
5222	5TH & OAK AUTO BODY
5475	ACCESSORIES UNLIMITED LLC
	OZARK POOL & SPA
	SERVICE EXPERTS HEATING & AIR
	U-HAUL NEIGHBORHOOD DEALER
5585	WASHINGTON VETERINARY CLINIC
5702	ATM
	BANK OF FRANKLIN COUNTY
5824	SCHICKER CHRYSLER DODGE JEEP
5840	CHRIS AUFFENBERG FORD LINCOLN
	WASHINGTON MOTORS
5860	ATM
	FAS-TRIP
5886	ATM
	JC PENNEY
	JC PENNEY SALON
	SEPHORA INSIDE JCPENNEY
5892	ATM
6224	MODERN AUTO INC
6244	AM HOERR FINANCIAL
	AMERICAN RED CROSS BLOOD SVC
	COLOR CREATIONS SALON
	FARMERS INSURANCE
	GILDEHAUS MELISSA
	PLATINUM POOLS & SPAS
	SYLVAN LEARNING CTR
6576	BAHR'S USED FURNITURE WAREHSE
	BAHRS SELF STORAGE
6789	ATM
6791	ATM
	Z & X
	ZEPHYR EXPRESS
6890	FIRST CHRISTIAN CHURCH
6906	LIVING BREAD CHURCH
6927	AMERIGAS PROPANE EXCHANGE
	MFA AGRI SVC
	MFA CO-OP ASSN
	MFA COOPERATIVE ASSN 2
6955	FAITH BAPTIST CHURCH
7405	TAYLOR EDUCATIONAL SOLUTIONS
7431	BRINKER DOROTHY H
	GOODMAN SARAH DVM
8069	KANSTEINER JOHN R DVM

HIGHWAY KK 2020

6675	Raymond Hilke
6740	Deborah Aholt
	Gerard Aholt
6750	Deborah Aholt
	Gerard Aholt
7000	Chad Deahn
	Emily Green
7029	Brian Brune
	Sarah Brune
7048	Barbara Heidmann
	Charles Heidmann
	Danielle Heidmann
7055	Barbara Halmich
	Mark Halmich
7069	Jerome Spaunhorst
	Ruth Spaunhorst
7073	Lindsey Luehrs
	Lisa Luehrs
	William Luehrs
7075	Annette Copeland
	Garrett Niederhelm
7081	Derinda Dickherber
	Jerome Dickherber
7083	Aaron Breig
	Alex Breig
	Andrew Breig
	James Breig
	Terri Breig
7085	Katherine Brockman
	Thomas Brockman
7120	Arlene Humphrey
	Debra Humphrey
7145	Ann Wessel
	Arlie Wessel
	Debra Wessel
	Rosemary Wessel
7230	Carolyn Kluesner
	Herbert Kluesner
7247	Susan Lamke
7250	Charles Buzzetta
	Regina Buzzetta
7325	Mark Mertz
7335	Quintin Binder
7345	Brittney Whitley
	Christine Diener
	Garrett Whitley
	Lee Whitley
	Lisa Ennis
	Nicholas Ennis
	Stephanie Whitley

HIGHWAY KK

2020

(Cont'd)

7355	Jean Meyer
7430	Elizabeth Juergens
	Jonathan Wood
	Michelle Wood
	Sarah Wood
7440	Ellen Rodgers
	Nolan Rodgers
7475	Bradley Landwehr
	Julie Landwehr
	Madelyn Landwehr
7580	Andrea Boland
	Daniel Boland
	Jerome Kluba
	Rosalie Kluba
7585	Brett Landwehr
	Brittney Landwehr
7630	Arlene Holdmeyer
	Glennon Holdmeyer
	Lester Holdmeyer
	Richard Holdmeyer
	Wayne Holdmeyer
7655	Larry Doyle
7755	Chad Giesike
	Jennifer Giesike
	William Chad
7771	Elizabeth Short
	Ryan Short
7775	David Brockmann
	Elizabeth Brockman
	Katherine Brockmann
	Stephanie Brockmann
7825	Donald Maune
	Joan Maune
7845	Christine Barrett
	Darrel Barrett
	Laura Barrett
	Mabel Barrett
	Sarah Barrett
8025	Ann Walde
	Charles Walde
	Colene Dierkes
	Daniel Walde
	Grace Walde
	Henry Walde
	Maryann Walde
8055	Lindsay Wehlage
	Scott Wehlage

LAKESIDE DR 2020

2	Bryce Hoemann
	Miranda Hoemann
	Rhonda Hoemann
	Royce Hoemann
5	Anna Bretzke
	Ginny Bretzke
	Kristen Bretzke
	Steven Bretzke
7	Brian Seeck
	David Mohart
	Gina Mohart
	Karen Cathcart
9	Alexander Smith
	Jessica Smith
	Mary Feth
10	Bill Roewe
	Jennifer Roewe
13	Maria Haag
	William Haag
18	Cassandra Bauer
	Gregory Bauer
	Wendy Bauer
19	Emma Nieder
	Ethan Nieder
	Jane Mense
	Max Nieder

MELTON DR 2020

901 MELTON MACHINE & CONTROL CO

HIGHWAY 100 2017

5220	LINDAS MONOGRAMS & MORE LOCK, N OZARK POOL & SPA
5222	FIFTH & OAK AUTO CRAFT
5370	BUCHMANN, ANN C
5372	BUCHMANN, DAVID A
5475	ACCESSORIES UNLIMITED LLC OZARK POOL & SPA UHAUL
5585	JOHN SHOLTZ DR DVM STOLTZ JOHN DVM STOLTZ, MICAH WASHINGTON VETERINARY CLINIC
5702	BANK OF FRANKLIN COUNTY
5824	BARRETH CHRYSLER BARRETH CHRYSLER PLYMOUTH
5840	AUFFENBERG CHRIS AUTOMOTIVE AUFFENBERG CHRIS FORD LINCOLN
5850	FASTRIP FOOD STORES
5860	FASTRIP FOOD STORES
5886	JCPENNEY
6224	HERTZ MODERN AUTOMOBILE
6244	AM HOERR FINANCIAL ANN, MARIE COLOR CREATIONS SALON COURTESY LOANS SYLVAN LEARNING OF WASHINGTON TEACHER STORE
6322	PAYNE, SARAH M
6324	TRIPLETT, MISTY C
6456	GRAY, SUSAN D
6576	BAHRS USED FURNITURE WAREHOUSE
6882	BRINKMANN, ADAM M
6906	LIVING BREAD CHURCH
6927	MFA COOP ASSN
6955	FAITH BAPTIST CHURCH
6986	KUBIAK, CRAIG P
7002	FRIEDEL, BRIAN W
7024	ULRICH, DAVID H
7056	BRADSHAW, JO G
7066	WATERMANN, LARRY J
7106	HELLMANN, TODD
7205	CHARTRAND, MARK M
7233	ENGEMANN, KENNETH B
7290	SULLTROP, RAYMOND H
7333	SCHWEICH, DUANE M
7368	BRANSON, VIRGINIA G
7373	KAYS, KRAIG F
7381	COLEMAN, GARNEY L

HIGHWAY 100

2017

(Cont'd)

7390	KLEKAMP, DONALD A
7405	TAYLOR, DOUG T
7412	MARQUART, CHRIS W
7429	KING, MICHAEL J
7431	GOODMA SARAH PICKETT DVM
7433	FRANKENBERG, JAMES P
7448	MARQUART, JOHN H
7453	STOCK, GARY J
7458	KAMLER, JOHN W
7472	BRINKER, FRED J
7477	SNIDER, CHRISTOPHER D
7541	BURKE, MICHAEL R
7566	KLUESNER, CHARLES F
7570	HOLTMAYER, MIKE R
7571	MCDALOND, LISA
7612	COMELY, TRACY D
7637	DALE, JOHN L
7727	BRINKER, LEONARD S
	LEONARDS APPLIANCE SERVICE
7736	SHIPLEY, RAY J
7738	PIONTEK, DONALD J
7740	MARQUART, RONALD W
7910	CROWDER, DONALD D
7945	REISER, BRIAN E
8004	SAWYERS, JOANNE G
8032	BAYSINGER, SUSAN C
8040	ANDERSON, TYLER R
8066	HATCHER, JOHN C
8069	JOHN R KANSTEINER DVM
	KANSTEINER, JOHN R

HIGHWAY KK 2017

7775 UNITED MUTUAL INSURANCE CO

LAKESIDE DR 2017

2	ROEWE, MELVIN R
3	MASCHMANN, I
5	BRETZKE, STEVE M
7	SEECK, BRIAN A
9	SMITH, JESSICA E
10	ROEWE, BILL D
13	HAAG, WILLIAM J
18	BAUER, GREG D
19	MENSE, JANE E

HIGHWAY 100 2014

5172	OCCUPANT UNKNOWN,
5220	LINDAS MONOGRAMS & MORE
	LOCK N LOAD
	LOCK, N
	OZARK POOL & SPA
5222	AMMCO TRANSMISSION REPAIR
	FIFTH & OAK AUTO CRAFT
5370	BUCHMANN, ANN C
5372	BACON, ALICE
5415	OCCUPANT UNKNOWN,
5475	ACCESSORIES UNLIMITED LLC
	SERVICE EXPERTS OF MISSOURI
	TELTRON INC
	UHAUL
5585	STOLTZ JOHN R DVM
	STOLTZ, JOHN R
	WASHINGTON VETERINARY CLINIC
5702	BANK OF FRANKLIN COUNTY
5824	BARRETH CHRYSLER
	BARRETH CHRYSLER PLYMOUTH
5840	AUFFENBERG CHRIS AUTOMOTIVE
	AUFFENBERG CHRIS FORD LINCOLN MERCUR
	CHRIS AUFFENBERG FORD INC
5850	FAS TRIP 104
5886	JCPENNEY
	JCPENNEY SALON
6224	HERTZ
	MODERN AUTO COCHEVROLETCADILACBUI
6244	ANN, MARIE
	COLOR CREATIONS SALON
	COURTESY LOANS
	SYLVAN LEARNING CENTER
	SYLVAN LEARNING OF WASHINGTON
6320	JASPER, F
6322	GROVER, DEVIN S
6324	OCCUPANT UNKNOWN,
6456	LOMBARDINO, LINDSAY L
6576	BAHRS USED FURNITURE WAREHOUSE
6717	OCCUPANT UNKNOWN,
6882	BRINKMANN, ADAM M
6906	LIVING BREAD CHURCH
6927	MFA CO OP ASSN NO 2
6955	FAITH BAPTIST CHURCH
6986	KUBIAK, CRAIG P
7002	FRIEDEL, BRIAN W
7024	ULRICH, DAVID H
7056	DUGGER, WENDY J
7066	POGGAS, AMANDA L
7106	ROSE, MARY H
7205	CHARTRAND, MARK B

HIGHWAY 100

2014

(Cont'd)

7233	ENGEMANN, KENNETH B
7290	SULLTROP, RAYMOND H
7333	POBUDA, BEV A
7368	KLEKAMP, MARY H
7373	KAYS, KRAIG F
7381	COLEMAN, GARNEY L
7390	KLEKAMP, DONALD A
7405	TAYLOR, DOUG T
7412	OCCUPANT UNKNOWN,
7429	KING, MICHAEL D
7431	BRINKER DOROTHY H DVM
7433	FRANKENBERG, JAMES E
7448	MARQUART, JOHN H
7453	STOCK, GARY J
7458	KAMLER, JOHN W
7472	OCCUPANT UNKNOWN,
7477	TOOLEY, BRIAN D
7541	BURKE, MICHAEL R
7566	KLUESNER, CHARLES F
7570	HOLTMAYER, MICHAEL R
7571	MCDONALD, MARION L
7612	COMELY, TRACY D
7637	DALE, JOHN L
7727	BRINKER, LEONARD S
	LEONARDS APPLIANCE SERV
7736	SHIPLEY, DANIEL R
7738	PIONTEK, DONALD J
7740	OCCUPANT UNKNOWN,
7814	LINDAUER, MAX J
7910	CROWDER, DONALD D
7945	REISER, KENDRA L
8004	SAWYERS, JOANNE G
8032	OCCUPANT UNKNOWN,
8040	ANDERSON, TYLER R
8066	HATCHER, JOHN C
8069	KANSTEINER, JOHN R
8099	OCCUPANT UNKNOWN,

HIGHWAY KK 2014

6675	HILKE, RAYMOND D
6740	AHOLT, GERARD F
6750	WHITENER, LINDA M
7000	OCCUPANT UNKNOWN,
7029	BRUNE, BRIAN M
7055	HALMICH, MARK G
7069	SPAUNHORST, JEROME D
7073	LUEHRS, LINDSEY J
7075	NIEDERHELM, GARRETT J
7081	DICKHERBER, JEROME L
7083	BREIG, JAMES B
7085	BROCKMAN, THOMAS M
7120	HUMPHREY, WILLIAM
7145	WESSEL, ANN M
7220	OCCUPANT UNKNOWN,
7230	KLUESNER, HERBERT H
7247	LAMKE, SUSAN J
7250	BUZZETTA, CHARLES H
7325	LAMKE, RAYMOND F
7335	OCSODY, ALEX S
7345	DIENER, CHRISTINE M
7355	MEYER, JEAN M
7420	OCCUPANT UNKNOWN,
7424	OCCUPANT UNKNOWN,
7430	WOOD, JONATHAN C
7440	RODGERS, THOMAS S
7475	LANDWEHR, BRADLEY H
7580	KLUBA, JEROME
7585	LANDWEHR, BILL J
7625	ALLEMANN, DAVID L
7630	HOLDMEYER, WAYNE B
7655	DOYLE, LARRY E
	LEININGER, JASON W
	SAINTIGNAN, HAROLD
7755	GIESIKE, CHAD W
7775	BROCKMANN, DAVID K
	UNITED MUTUAL INSURANCE CO
7825	MAUNE, DONALD J
7845	BARRETT, DARRELL W
	UNITED MUTUAL INSURANCE CO
7935	FILLA, KARINA
8025	WALDE, DANIEL G
8055	WEHLAGE, SCOTT H

LAKESIDE DR 2014

2	ROEWE, MELVIN D
3	MASCHMANN, EDWARD R
5	BRETZKE, STEVE M
	WATKINS INDEPENDENT ASSOCIATE STEVE
7	SEECK, BRIAN A
9	FETH, MARY H
10	ROEWE, BILL D
13	SUTTON, LANCE E
18	BAUER, GREGORY D
19	MENSE, JANE E

HIGHWAY 100 2010

5125	STAHLMAN, A
5172	GEPHARDT, LAURA E
5220	LINDAS MONOGRAMS & MORE LLC
	OZZIE SMITH SPORT ACADEMY
	OZZIE, SMITH
5222	FIFE, JEREMY
	STURMS TOWING
5370	BUCHMANN, ANN C
5372	BUCHMANN, DAVID A
5415	OCCUPANT UNKNOWN,
5475	ACCESSORIES UNLIMITED LLC
	MORTGAGE OPTIONS
	OCCUPANT UNKNOWN,
	OZARK POOL & SPA
	TELTRON INC
5585	STOLTZ, JOHN R
	WASHINGTON VETERINARY CLINIC
5702	BANK OF FRANKLIN COUNTY
5824	BARRETH CHRYSLER DODGE
5840	CHRIS AUFFENBERG AUTOMOTIVE
5860	FASTRIP
5886	J C PENNEY CO
	J C PENNEY SALON
6224	MODERN AUTO CO
6244	COURTESY LOANS
	FOUR RIVERS CHIROPRACTIC
	GOIN POSTAL WASHINGTON
	MILLERS FIRST INSURANCE
	MONARCH MORTGAGE
	SYLVAN LEARNING CTR
	TEACHER STORE
6320	JASPER FARM LP
	JASPER, EMIL
6322	WALDE, DANIEL A
6324	OCCUPANT UNKNOWN,
6425	LEWIS, SARAH
6456	OCCUPANT UNKNOWN,
6576	BAHRS USED FURNITURE WAREHSE
6717	OCCUPANT UNKNOWN,
6791	ZEPHYR EXPRESS
6882	BRINKMANN, PATRICK J
6890	FIRST CHRISTIAN CHURCH
6927	M FA COOP ASSOCIATION
	MFA COOP ASSN
6955	FAITH BAPTIST CHURCH
6986	KUBIAK, CRAIG P
7002	FRIEDEL, BRIAN W
7024	OCCUPANT UNKNOWN,
7056	BRADSHAW, TIMOTHY V
7066	WATERMANN, LARRY J

HIGHWAY 100

2010

(Cont'd)

7106	MCDONALD, BRYAN M
7205	CHARTRAND, MARK B
7233	ENGEMANN, KENNETH B
7290	SULLTROP, RAYMOND H
7333	OCCUPANT UNKNOWN,
7341	BRINKER, JASON
7368	ALFERMANN, RANDY A
7373	KAYS, KRAIG F
7381	COLEMAN, GARNEY L
7390	KLEKAMP, DONALD A
7412	SPEAR, GENE G
7429	KING, MICHAEL J
7431	BRINKER DOROTHY H DVM
7433	FRANKENBERG, JAMES E
7448	MARQUART, JOHN H
7453	STOCK, GARY J
7458	DUSTY ATTIC
	KAMLER, JOHN W
7472	OCCUPANT UNKNOWN,
7477	SNIDER, CHRIS
7541	BURKE, MICHAEL R
7566	KLUESNER, CHARLES F
7570	HOLTMAYER, SHIRLEY R
7571	MCDONALD, MARION L
7612	COMELY, TRACY D
7637	DALE, JOHN L
7727	BRINKER, LEONARD S
	LEONARDS APPLIANCE SVC
7736	SHIPLEY, RAY J
7738	PIONTEK, DONALD J
7740	MARQUART, RONALD W
7814	LINDAUER, MAX J
7910	CROWDER, DONALD D
7945	HUMPHREY, ERIC G
7980	SMITH, MARTHA J
8004	ADAMS, RONNY R
8032	BAYSINGER, GREGORY
8040	ANDERSON, VIOLET M
8066	HATCHER, JOHN C
8069	KANSTEINER, JOHN R
8099	FARRELL SAM L MD
	FARRELL, SAM L

HIGHWAY KK 2010

6675	HILKE, RAYMOND D
6740	AHOLT, GERARD F
6750	AHOLT, JOAN M
6959	SULLTROP, B
7000	STEFFENS, RICHARD E
7055	HALMICH, MARK G
7069	SPAUNHORST, JEROME D
7073	LUEHRS, LINDSEY J
7075	OCCUPANT UNKNOWN,
7081	OCCUPANT UNKNOWN,
7083	BREIG, JAMES B
7085	BROCKMAN, THOMAS M
7120	HUMPHREY, ARLENE E
7145	WESSEL, ROSEMARY E
7220	SCHULTE, CHRIS G
7230	KLUESNER, HERBERT H
7250	BUZZETTA, CHARLES H
7325	LAMKE, RAYMOND F
7335	OCSODY, ALEX S
7345	WHITLEY, LEE
7355	MEYER, JEAN M
7420	THIES, GARNET A
7424	OCCUPANT UNKNOWN,
7430	WOOD, JONATHAN C
7440	THOMURE, KENNETH O
7475	OCCUPANT UNKNOWN,
7580	KLUBA, JEROME
7585	LANDWEHR, BILL J
7625	ALLEMANN, DAVID L
7630	HOLDMEYER, GLENNON F
7655	DEES, LESLIE
7755	GIESIKE, CHAD W
7760	SCOTT, VIRGINIA
7775	BROCKMANN, DAVID K
7825	MAUNE, DONALD J
7845	BARRETT, DARRELL W
	UNITED MUTUAL INSURANCE CO
7935	FILLA, A V
8025	OCCUPANT UNKNOWN,
8055	WEHLAGE, SCOTT H

LAKESIDE DR 2010

2	ROEWE, MELVIN D
3	MASCHMANN, EDWARD R
5	BRETZKE, STEVE M
7	SEECK, BRIAN A
9	FETH, MARY H
10	ROEWE, BILL D
13	SUTTON, LANCE E
18	OCCUPANT UNKNOWN,
19	MENSE, JANE E

HIGHWAY 100 2005

500 OCCUPANT UNKNOWN,
5172 GEPHARDT, LAURA E
5370 BUCHMANN, ANN C
5372 BUCHMANN, DAVID A
5475 OZARK POOL & SPA
5585 STOLTZ, JOHN R
5586 OCCUPANT UNKNOWN,
5840 CHUCKS WRECKER SERVICE INC
5860 FAS TRIP CONVENIENCE STORE # 4
5886 BLOCK, H
6224 ELBERT PONTIAC GMC BUICK TRUCKS INC
MODERN AUTO CO INC
6244 MONARCH MORTGAGE INC
PARTY LAND
SELECT 1ST PROPERTIES
6320 JASPER, EMIL
6322 OCCUPANT UNKNOWN,
6324 JASPER, RONALD B
6882 BRINKMANN, PATRICK J
6986 CHWASCINSKI, DUANE
7002 FRIEDEL, BRIAN W
7024 OCCUPANT UNKNOWN,
7056 WATERMANN, LARRY
7066 WATERMANN, JULIUS
7106 MCDONALD, BRYAN M
7170 SULTROP, JEFFREY
7205 CHARTRAND, MARK B
7233 STEFFENS, RICHARD E
7290 SULLTROP, RAYMOND H
7333 SCHWEICH, MARLIN E
7341 BRINKER, JASON
7373 KAYS, KRAIG F
7381 COLEMAN, GARNEY L
7390 KLEKAMP, DONALD A
7405 TAYLOR, DOUG T
7429 KING, MICHAEL D
7431 BRINKER, ROBERT E
7433 FRANKENBERG, JAMES E
7435 COMPTON, DORIS K
7448 OCCUPANT UNKNOWN,
7453 STOCK, GARY J
7458 DUSTY ATTIC
KAMLER, JOHN W
7472 OCCUPANT UNKNOWN,
7477 TYRE, STEVEN L
7541 BURKE, MICHAEL R
7566 KLUESNER, CHARLES F
7570 HOLTMAYER, RICHARD A
7571 MCDONALD, MARION F
7637 DALE, JOHN L

HIGHWAY 100**2005****(Cont'd)**

7727	BRINKER, LEONARD S
7736	SHIPLEY, DANIEL R
7738	PIONTEK, DONALD J
7740	MARQUART, RONALD W
7814	LINDAUER, MAX J
7910	CROWDER, DONALD D
7945	HUMPHREY, ERIC G
7980	SMITH, BILLY J
8032	BAYSINGER, GREGORY
8066	HATCHER, JOHN C
8069	KANSTEINER JOHN R DVM
	OCCUPANT UNKNOWN,
8099	FARRELL, SAM L

HIGHWAY KK 2005

6620	JASPER, JERRY J
6675	HILKE, RAYMOND
6959	KLEEKAMP, THEOLA M
7055	HALMICH, MARK G
7069	SPAUNHORST, JEROME D
7073	LUEHRS, LINDSEY J
7081	DICKHERBER, JEROME L
7083	BREIG, JAMES B
7085	BROCKMAN, THOMAS M
7120	HUMPHREY, WILLIAM
7145	WESSEL, ARLIE
7155	KOOP, PAUL E
7163	NIEDERHELM, CASEY A
7165	KLUESNER, CORY C
7220	SCHULTE, CHRIS G
7230	KLUESNER, HERBERT H
7250	BUZZETTA, L
7325	LAMKE, RAYMOND F
7335	OCSODY, ALEX S
7345	FAITH BAPTIST CHURCH
	WHITLEY, LEE
7355	MEYER, MARVIN W
7420	THIES, GARNET A
7424	JULIUS, CHRIS D
7430	WOOD, JONATHAN C
7440	THOMURE, KENNETH O
7475	KLUESNER, PETE W
7580	KLUBA, JEROME
7585	LANDWEHR, BILL H
7630	HOLDMEYER, GLENNON F
7655	OCCUPANT UNKNOWN,
7755	BROCKMANN, JENNIFER L
7760	SCOTT, VIRGINIA
7765	BARRETT, RALPH
7775	BROCKMANN, DAVID K
	ST JOHNS MUTUAL INSURANCE
7825	MAUNE, DONALD J
7845	BARRETT, CHRIS
	DARRELL BARRETT FARM
7935	FILLA, A V
8055	BROWN, VERA M

LAKESIDE DR**2005**

2	ROEWE, MELVIN D
3	MASCHMANN, EDWARD R
5	BRETZKE, STEVE M
9	FETH, MARY H
10	KELCHEN, STEVEN L
18	WILLIAMS, BERT A
19	MENSE, GARY S

HIGHWAY 100 2000

1200	WALMART SUPERCENTER WASHINGTON
1510	BARRETH CHRYSLER CENTER INCORPORATED
	BARRETH CHRYSLER PLYMOUTH
5120	STOLTZ JOHN R DVM
5172	GEPHARDT, ELMER
5369	BUCHMANN, KENNETH
5370	SOELLE, BARBARA P
5372	BUCHMANN, DAVID
5585	OCCUPANT UNKNOWN,
	WASHINGTON VETERINARY CLINIC
5586	GEISERT, D J
5840	LINCOLN MERCURY CAR RENTAL SYSTEM
6054	LEWIS & CLARK INN
6322	JASPER, DONALD H
6324	JASPER, RONALD
6340	ZEITZMANN'S CARPET SERVICE INCORPORATED
6456	BADINO, CHARLES L
6717	CONRAD, DONALD C
6882	BRINKMANN, PATRICK
6964	OCCUPANT UNKNOWN,
6982	OCCUPANT UNKNOWN,
6986	OCCUPANT UNKNOWN,
7002	FRIEDEL, BRIAN
7024	WESTRICH, DEBBIE
7106	OCCUPANT UNKNOWN,
7154	BRINKER FARMS INCORPORATED
	OCCUPANT UNKNOWN,
7205	CHARTRAND, MARK B
7233	STEFFENS, RICHARD
7333	OCCUPANT UNKNOWN,
7368	ALFERMANN, RANDY A
7373	NELSON, DAVID L
7381	COLEMAN, GARNEY L
7405	TAYLOR, DOUG
7429	KING, MICHAEL
7431	BRINKER DOROTHY H DVM
	OCCUPANT UNKNOWN,
7433	FRANKENBERG, JAMES F
7435	COMPTON, ROBERT
7448	MARQUART, JOHN H
7453	STOCK, GARY
7472	BRINKER, LESTER
7477	TYRE, STEVE
7497	PIERCE, DANNY W
7501	HABERBERGER, LOU
7541	LAUNE, JOSEPH
7566	KLUESNER, CHARLES F
7571	MCDONALD, JAMES L
7727	BRINKER, LEONARD
	LEONARDS APPLIANCE SERVICE

HIGHWAY 100**2000****(Cont'd)**

7738	PIONTEK, DONALD
7740	MARQUART, RONALD W
7814	LINDAUER, MAX J
7910	CROWDER, DONALD D
7945	HUMPHREY, ERIC G
7980	SMITH, BILLY J
8004	OCCUPANT UNKNOWN,
8032	OCCUPANT UNKNOWN,
8040	ANDERSON, V M

HIGHWAY KK 2000

6620	JASPER, JERRY
6675	OCCUPANT UNKNOWN,
6740	AHOLT, GERARD
6750	AHOLT, FRANCIS C
6959	KLEEKAMP, T
7055	OCCUPANT UNKNOWN,
7069	OCCUPANT UNKNOWN,
7073	MAUNE, GARY
7081	DICKHERBER, JEROME
	GRUS, A
7083	OCCUPANT UNKNOWN,
7120	HUMPHREY, WILLIAM
7145	WESSEL, ARLIE
7155	KOPP, THERESA M
7163	NIEDERHELM, CASEY A
7220	SCHULTE, CHRIS
7230	KLUESNER, HERBERT
7250	BUZZETTA, L
7325	OCCUPANT UNKNOWN,
7335	OCCUPANT UNKNOWN,
7345	OCCUPANT UNKNOWN,
7355	MEYER, MARVIN W
7420	GIST, THOMAS D
7424	GIST, B A
7430	WOOD, JON C
7440	OCCUPANT UNKNOWN,
7475	KLUESNER, PETE
7625	KUBIAK, C P
7630	HOLDMEYER, GLENNON F
7755	OCCUPANT UNKNOWN,
7760	SCOTT, V
7765	BARRETT, RALPH
7775	BROCKMANN, DAVID
7825	MAUNE, DONALD J
7845	BARRETT, DARRELL
7935	FILLA, A V
8025	COUCH, ROBERT
8055	BROWN, ROBERT E

LAKESIDE DR**2000**

2	ROEWE, MELVIN D
3	MASCHMANN, EDWARD R
5	OCCUPANT UNKNOWN,
9	SMITH, STEPHEN
10	KELCHEN, STEVEN L

HWY 100**1995**

3652	KLEKAMP, DAVID
3800	STRAATMANN, ELMER
6080	JASPER, EMIL
8404	CLINES, KEVIN
8421	CLINES, TINA
8473	SAGOS, LARRY

HWY KK 1995

7420 GIST, THOMAS D

LAKESIDE DR

1995

5 MASCHMANN, EDWARD R
10 KELCHEN, STEVEN L

HIGHWAY 100

1992

1000	PAYLESS SHOESOURCE
1110	CLOCKTOWER VIDEO
1115	MANE KLIPPER THE
1145	YOGURTN MORE
1148	KELLY CHRIS A REV
1152	ENCHANTING FLORIST
1154	CLOCKTOWER CLNRS
1160	FRIDLEY J REAL EST
1200	COLONEL DAYS LEVIS
	WAL MART SUPER CNTR
1400	AUFFENBERG C FORD
	LINCOLN MERCURY RNTL
	RYDER TRUCK RENTAL
1510	BARRETH CHRYSLER
1898	WILLY CORTEZ FOOD
1900	CINEMA 1 PLUS 1
4000	BRINKMANN R CONSTR

LAKESIDE DR

1992

5

MASCHMANN, EDWARD R

HIGHWAY 100 1987**10****HWY 100 —FROM FRANKLIN
COUNTY RD A EAST****ZIP CODE 63090****500 Lewis & Clark Inn motel****239-0111****HWY 47 INTERSECTS****ZIP CODE 63090****10-A****1400 Washington Motor Co new &
used autos 239-4500****1510 Barreth Chrysler Center new
& used autos 239-6500****1800 Washington Veterinary
Clinic 239-5445****1898 Asinger On The Park
239-7735****1900 Cinema One Plus One
239-5056**

APPENDIX D

ENVIRONMENTAL DATABASE INFORMATION

Oldenburg Industrial Site

Highway 100

Washington, MO 63090

Inquiry Number: 8023059.2s

June 18, 2025

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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MAPPED SITES SUMMARY

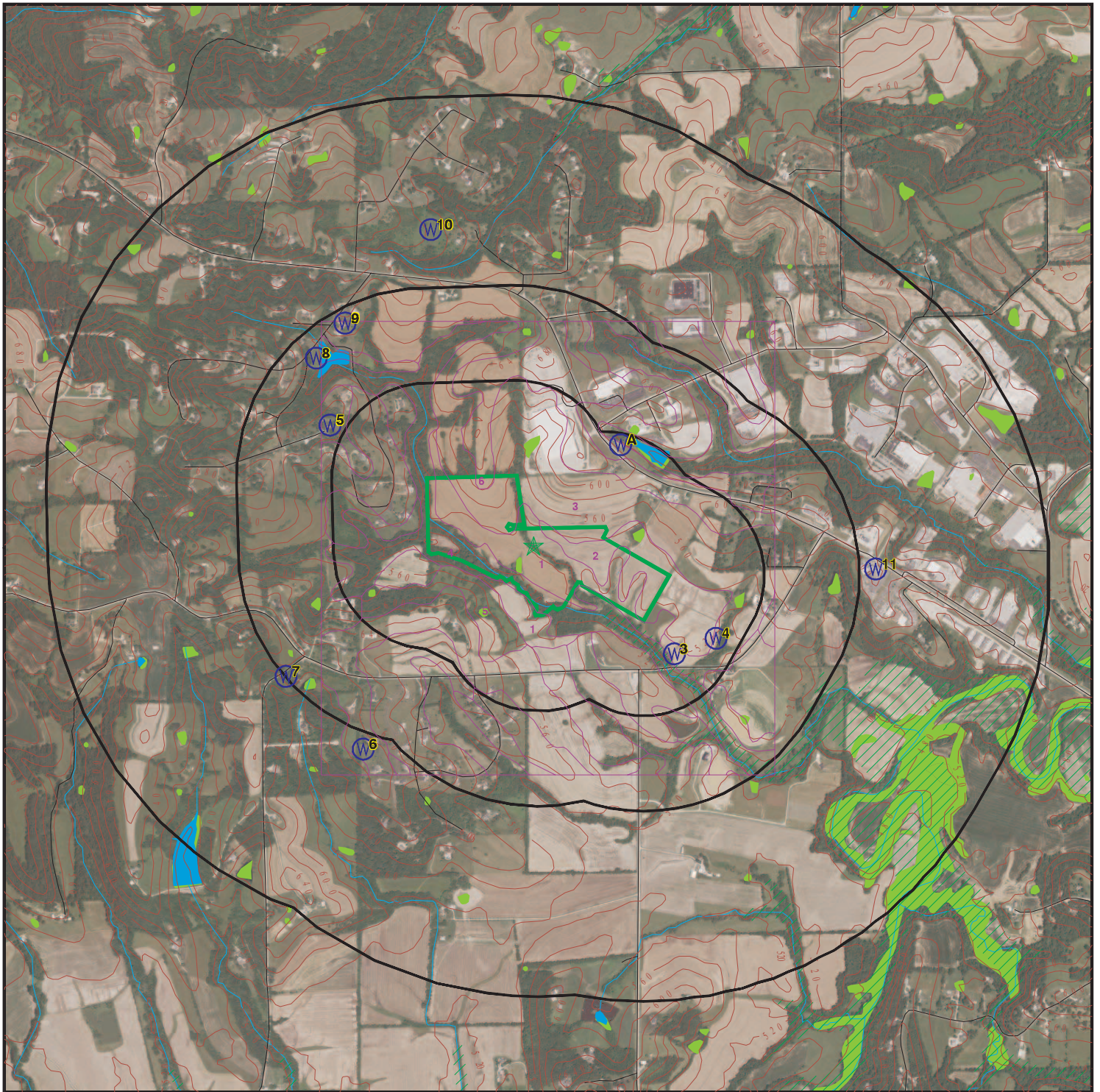
Target Property Address:
HIGHWAY 100
WASHINGTON, MO 63090

Click on Map ID to see full detail.

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

NO MAPPED SITES FOUND

OVERVIEW MAP - 8023059.2S



- 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
- 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: Oldenburg Industrial Site
 ADDRESS: Highway 100
 Washington MO 63090
 LAT/LONG: 38.565124 / 91.078506

CLIENT: Terracon
 CONTACT: Marci Brockett
 INQUIRY #: 8023059.2s
 DATE: June 18, 2025 9:50 am

DETAIL MAP - 8023059.2S



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

- Indian Reservations BIA
- 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: Oldenburg Industrial Site
 ADDRESS: Highway 100
 Washington MO 63090
 LAT/LONG: 38.565124 / 91.078506

CLIENT: Terracon
 CONTACT: Marci Brockett
 INQUIRY #: 8023059.2s
 DATE: June 18, 2025 9:52 am

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								
<i>Lists of Federal NPL (Superfund) sites</i>								
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
<i>Lists of Federal Delisted NPL sites</i>								
Delisted NPL	1.000		0	0	0	0	NR	0
<i>Lists of Federal sites subject to CERCLA removals and CERCLA orders</i>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<i>Lists of Federal CERCLA sites with NFRAP</i>								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
<i>Lists of Federal RCRA facilities undergoing Corrective Action</i>								
CORRACTS	1.000		0	0	0	0	NR	0
<i>Lists of Federal RCRA TSD facilities</i>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<i>Lists of Federal RCRA generators</i>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
<i>Federal institutional controls / engineering controls registries</i>								
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
<i>Federal ERNS list</i>								
ERNS	TP		NR	NR	NR	NR	NR	0
<i>Lists of state- and tribal hazardous waste facilities</i>								
SHWS	1.000		0	0	0	0	NR	0
<i>Lists of state and tribal landfills and solid waste disposal facilities</i>								
SWF/LF	0.500		0	0	0	NR	NR	0
<i>Lists of state and tribal leaking storage tanks</i>								
LUST	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
LAST	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
<i>Lists of state and tribal registered storage tanks</i>								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
TANKS	0.250		0	0	NR	NR	NR	0
<i>State and tribal institutional control / engineering control registries</i>								
AUL	0.500		0	0	0	NR	NR	0
<i>Lists of state and tribal voluntary cleanup sites</i>								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
<i>Lists of state and tribal brownfield sites</i>								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
<u>ADDITIONAL ENVIRONMENTAL RECORDS</u>								
<i>Local Brownfield lists</i>								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
<i>Local Lists of Landfill / Solid Waste Disposal Sites</i>								
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
<i>Local Lists of Hazardous waste / Contaminated Sites</i>								
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
<i>Local Land Records</i>								
LIENS 2	TP		NR	NR	NR	NR	NR	0
<i>Records of Emergency Release Reports</i>								
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
<i>Other Ascertainable Records</i>								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	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		0	0	0	0	NR	0
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
MINES MRDS	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 TRIS	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 PROJECT	0.250		0	0	NR	NR	NR	0
PFAS ECHO	0.250		0	0	NR	NR	NR	0
PFAS ECHO FIRE TRAIN	0.250		0	0	NR	NR	NR	0
PFAS PT 139 AIRPORT	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM NRC	0.250		0	0	NR	NR	NR	0
BIOSOLIDS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
UST FINDER RELEASE	0.500		0	0	0	NR	NR	0
UST FINDER	0.250		0	0	NR	NR	NR	0
E MANIFEST	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
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

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	0	0	0	0	0	0
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NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NO SITES FOUND

Count: 3 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
WASHINGTON	S131451084	OLDENBURG INDUSTRIAL PARK LIFT STA	HIGHWAY 100	63090	NPDES
WASHINGTON	S131451417	OLDENBURG INDUSTRIAL PARK	HIGHWAY 100	63090	NPDES
WASHINGTON	1029148151	OLDENBURG INDUSTRIAL PARK	HIGHWAY 100	63090	ECHO

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	05/30/2025	05/30/2025	06/11/2025
MO	ASBESTOS	Asbestos Notification Listing	Department of Natural Resources	03/31/2025	04/01/2025	06/16/2025
MO	AST	Aboveground Petroleum Storage Tanks	Department of Agriculture	02/21/2025	02/25/2025	05/13/2025
MO	AUL	Sites with Controls	Department of Natural Resources	01/03/2025	01/31/2025	02/03/2025
MO	BROWNFIELDS	Brownfields Site List	Department of Natural Resources	01/03/2025	01/31/2025	02/03/2025
MO	CDL	Environmental Emergency Response System	Department of Natural Resources	06/03/2024	06/04/2024	06/07/2024
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	02/27/2025	02/28/2025	05/13/2025
MO	DRYCLEANERS	Drycleaners in Missouri Listing	Department of Natural Resources	12/12/2024	12/23/2024	03/13/2025
MO	FIN ASSURANCE 1	Financial Assurance Information Listing	Department of Natural Resources	03/21/2025	03/25/2025	06/17/2025
MO	FIN ASSURANCE 2	Financial Assurance Information Listing	Department of Natural Resources	12/19/2022	02/28/2023	05/17/2023
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	06/30/2024	02/26/2025	05/14/2025
MO	LAST	Leaking Aboveground Storage Tanks	Department of Natural Resources	03/03/2025	03/04/2025	05/13/2025
MO	LUST	Leaking Underground Storage Tanks	Department of Natural Resources	03/03/2025	03/04/2025	05/13/2025
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	03/19/2025	04/02/2025	04/07/2025
MO	PFAS	PFAS Detections	Department of Natural Resources	12/31/2024	01/27/2025	03/05/2025
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	02/27/2025	02/28/2025	05/13/2025
MO	SMARS	Site Management and Reporting System	Department of Natural Resources	01/03/2025	01/23/2025	04/09/2025
MO	SPILLS	Environmental Response Tracking Database	Department of Natural Resources	06/03/2024	06/04/2024	06/07/2024
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	02/18/2025	02/18/2025	05/13/2025
MO	SWRCY	Solid Waste Recycling Facilities	Department of Natural Resources	11/20/2024	11/22/2024	02/13/2025
MO	TANKS	Underground Storage Tank Database	Department of Natural Resources	03/03/2025	03/04/2025	05/13/2025
MO	UIC	Underground Injection Wells Database	Department of Natural Resources	11/19/2024	12/09/2024	02/28/2025
MO	UST	Petroleum Storage Tanks	Department of Natural Resources	03/03/2025	03/04/2025	05/13/2025
MO	VCP	Sites Participating in the Voluntary Cleanup Program	Department of Natural Resources	01/03/2025	01/31/2025	02/03/2025
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	05/28/2025	05/28/2025	06/03/2025
US	AQUEOUS FOAM NRC	Aqueous Foam Related Incidents Listing	Environmental Protection Agency	03/24/2025	04/02/2025	04/29/2025
US	BIOSOLIDS	ICIS-NPDES Biosolids Facility Data	Environmental Protection Agency	01/12/2025	01/14/2025	03/20/2025
US	BRS	Biennial Reporting System	EPA/NTIS	12/31/2023	02/19/2025	03/07/2025
US	COAL ASH DOE	Steam-Electric Plant Operation Data	Department of Energy	12/31/2023	10/16/2024	01/14/2025
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	12/31/2024	01/27/2025	04/21/2025
US	CORRACTS	Corrective Action Report	EPA	06/02/2025	06/03/2025	06/16/2025
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 Transportation, Office of Pipeli	01/10/2025	01/22/2025	04/21/2025
US	Delisted NPL	National Priority List Deletions	EPA	03/27/2025	04/01/2025	04/24/2025
US	E MANIFEST	Hazardous Waste Electronic Manifest System	Environmental Protection Agency	02/17/2025	02/19/2025	03/14/2025

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl Date	Active Date
US	ECHO	Enforcement & Compliance History Information	Environmental Protection Agency	12/21/2024	12/27/2024	01/10/2025
US	EDR Hist Auto	EDR Exclusive Historical Auto Stations	EDR, Inc.			
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	06/10/2025	06/12/2025	06/16/2025
US	FEDERAL FACILITY	Federal Facility Site Information listing	Environmental Protection Agency	11/20/2024	12/18/2024	12/20/2024
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	04/08/2025	04/23/2025	04/24/2025
US	FINDS	Facility Index System/Facility Registry System	EPA	04/22/2025	05/05/2025	05/21/2025
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	01/30/2025	02/11/2025	04/24/2025
US	FUELS PROGRAM	EPA Fuels Program Registered Listing	EPA	02/13/2025	02/13/2025	04/29/2025
US	FUSRAP	Formerly Utilized Sites Remedial Action Program	Department of Energy	03/03/2023	03/03/2023	06/09/2023
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	06/11/2025	06/12/2025	06/16/2025
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	02/07/2024	11/13/2024	11/19/2024
US	INDIAN LUST R1	Leaking Underground Storage Tanks on Indian Land	EPA Region 1	11/18/2024	01/16/2025	04/07/2025
US	INDIAN LUST R10	Leaking Underground Storage Tanks on Indian Land	EPA Region 10	11/18/2024	01/16/2025	04/07/2025
US	INDIAN LUST R4	Leaking Underground Storage Tanks on Indian Land	EPA Region 4	11/18/2024	01/16/2025	04/07/2025
US	INDIAN LUST R5	Leaking Underground Storage Tanks on Indian Land	EPA, Region 5	11/18/2024	01/16/2025	04/07/2025
US	INDIAN LUST R6	Leaking Underground Storage Tanks on Indian Land	EPA Region 6	11/18/2024	01/16/2025	04/07/2025
US	INDIAN LUST R7	Leaking Underground Storage Tanks on Indian Land	EPA Region 7	01/07/2025	01/16/2025	04/07/2025
US	INDIAN LUST R8	Leaking Underground Storage Tanks on Indian Land	EPA Region 8	11/18/2024	01/16/2025	04/07/2025
US	INDIAN LUST R9	Leaking Underground Storage Tanks on Indian Land	Environmental Protection Agency	01/07/2025	01/16/2025	04/07/2025
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	11/18/2024	01/16/2025	04/07/2025
US	INDIAN UST R10	Underground Storage Tanks on Indian Land	EPA Region 10	11/18/2024	01/16/2025	04/07/2025
US	INDIAN UST R4	Underground Storage Tanks on Indian Land	EPA Region 4	11/08/2024	01/16/2025	04/07/2025
US	INDIAN UST R5	Underground Storage Tanks on Indian Land	EPA Region 5	11/18/2024	01/16/2025	04/07/2025
US	INDIAN UST R6	Underground Storage Tanks on Indian Land	EPA Region 6	11/18/2024	01/16/2025	04/07/2025
US	INDIAN UST R7	Underground Storage Tanks on Indian Land	EPA Region 7	01/07/2025	01/16/2025	04/07/2025
US	INDIAN UST R8	Underground Storage Tanks on Indian Land	EPA Region 8	11/18/2024	01/16/2025	04/07/2025
US	INDIAN UST R9	Underground Storage Tanks on Indian Land	EPA Region 9	10/15/2024	01/16/2025	04/07/2025
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	03/27/2025	04/01/2025	04/24/2025
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	03/27/2025	04/01/2025	04/24/2025
US	LUCIS	Land Use Control Information System	Department of the Navy	11/11/2024	11/25/2024	02/18/2025
US	MINES MRDS	Mineral Resources Data System	USGS	06/04/2024	11/22/2024	02/18/2025
US	MINES VIOLATIONS	MSHA Violation Assessment Data	DOL, Mine Safety & Health Admi	02/19/2025	02/21/2025	03/20/2025
US	MLTS	Material Licensing Tracking System	Nuclear Regulatory Commission	05/07/2025	05/07/2025	06/03/2025

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	NPL	National Priority List	EPA	03/27/2025	04/01/2025	04/24/2025
US	NPL LIENS	Federal Superfund Liens	EPA	10/15/1991	02/02/1994	03/30/1994
US	ODI	Open Dump Inventory	Environmental Protection Agency	06/30/1985	08/09/2004	09/17/2004
US	PADS	PCB Activity Database System	EPA	07/01/2024	10/02/2024	01/10/2025
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	12/16/2016	01/06/2017	03/10/2017
US	PCS ENF	Enforcement data	EPA	12/31/2014	02/05/2015	03/06/2015
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	03/24/2025	04/02/2025	05/21/2025
US	PFAS ECHO FIRE TRAIN	Facilities in Industries that May Be Handling PFAS Listing	Environmental Protection Agency	03/24/2025	04/02/2025	05/21/2025
US	PFAS FEDERAL SITES	Federal Sites PFAS Information	Environmental Protection Agency	03/31/2025	04/02/2025	05/05/2025
US	PFAS NPDES	Clean Water Act Discharge Monitoring Information	Environmental Protection Agency	03/24/2025	04/02/2025	05/21/2025
US	PFAS NPL	Superfund Sites with PFAS Detections Information	Environmental Protection Agency	03/31/2025	04/02/2025	05/05/2025
US	PFAS PROJECT	NORTHEASTERN UNIVERSITY PFAS PROJECT	Social Science Environmental Health Research	05/15/2024	03/06/2025	06/03/2025
US	PFAS PT 139 AIRPORT	All Certified Part 139 Airports PFAS Information Listing	Environmental Protection Agency	03/24/2025	04/02/2025	05/21/2025
US	PFAS RCRA MANIFEST	PFAS Transfers Identified In the RCRA Database Listing	Environmental Protection Agency	03/23/2025	04/02/2025	05/05/2025
US	PFAS TRIS	List of PFAS Added to the TRI	Environmental Protection Agency	03/07/2025	04/02/2025	05/05/2025
US	PFAS TSCA	PFAS Manufacture and Imports Information	Environmental Protection Agency	03/31/2025	04/02/2025	05/05/2025
US	PFAS WQP	Ambient Environmental Sampling for PFAS	Environmental Protection Agency	03/03/2025	04/02/2025	05/21/2025
US	PRP	Potentially Responsible Parties	EPA	02/26/2025	03/03/2025	04/07/2025
US	Proposed NPL	Proposed National Priority List Sites	EPA	03/27/2025	04/01/2025	04/24/2025
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	06/02/2025	06/04/2025	06/16/2025
US	RCRA-LQG	RCRA - Large Quantity Generators	Environmental Protection Agency	06/02/2025	06/04/2025	06/16/2025
US	RCRA-SQG	RCRA - Small Quantity Generators	Environmental Protection Agency	06/02/2025	06/04/2025	06/16/2025
US	RCRA-TSDF	RCRA - Treatment, Storage and Disposal	Environmental Protection Agency	06/02/2025	06/04/2025	06/16/2025
US	RCRA-VSQG	RCRA - Very Small Quantity Generators (Formerly Conditionall	Environmental Protection Agency	06/02/2025	06/04/2025	06/16/2025
US	RMP	Risk Management Plans	Environmental Protection Agency	01/01/2025	01/17/2025	04/07/2025
US	ROD	Records Of Decision	EPA	04/25/2025	05/01/2025	05/21/2025
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	03/27/2025	04/01/2025	04/24/2025
US	SEMS-ARCHIVE	Superfund Enterprise Management System Archive	EPA	03/27/2025	04/01/2025	04/24/2025
US	SSTS	Section 7 Tracking Systems	EPA	01/13/2025	01/15/2025	04/07/2025
US	TRIS	Toxic Chemical Release Inventory System	EPA	12/31/2023	02/11/2025	02/18/2025
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	02/12/2025	02/12/2025	02/27/2025
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	09/09/2024	09/11/2024	12/06/2024
US	US CDL	Clandestine Drug Labs	Drug Enforcement Administration	12/31/2024	02/20/2025	04/29/2025
US	US ENG CONTROLS	Engineering Controls Sites List	Environmental Protection Agency	01/29/2025	02/18/2025	04/29/2025
US	US FIN ASSUR	Financial Assurance Information	Environmental Protection Agency	06/02/2025	06/03/2025	06/16/2025
US	US HIST CDL	National Clandestine Laboratory Register	Drug Enforcement Administration	12/31/2024	02/20/2025	04/29/2025
US	US INST CONTROLS	Institutional Controls Sites List	Environmental Protection Agency	01/29/2025	02/18/2025	04/29/2025
US	US MINES	Mines Master Index File	Department of Labor, Mine Safety and Health A	02/03/2025	02/18/2025	03/20/2025
US	US MINES 2	Ferrous and Nonferrous Metal Mines Database Listing	USGS	05/02/2024	08/20/2024	10/09/2024

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	US MINES 3	Active Mines & Mineral Plants Database Listing	USGS	04/14/2011	06/08/2011	09/13/2011
US	UST FINDER	UST Finder Database	Environmental Protection Agency	06/08/2023	10/04/2023	01/18/2024
US	UST FINDER RELEASE	UST Finder Releases Database	Environmental Protection Agency	06/08/2023	10/31/2023	01/18/2024
US	UXO	Unexploded Ordnance Sites	Department of Defense	02/14/2025	03/11/2025	06/03/2025
CT	CT MANIFEST	Hazardous Waste Manifest Data	Department of Energy & Environmental Protection	02/02/2025	02/04/2025	04/24/2025
NY	NY MANIFEST	Facility and Manifest Data	Department of Environmental Conservation	12/31/2019	11/30/2023	12/01/2023
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

OLDENBURG INDUSTRIAL SITE
HIGHWAY 100
WASHINGTON, MO 63090

TARGET PROPERTY COORDINATES

Latitude (North):	38.565124 - 38° 33' 54.45"
Longitude (West):	91.078506 - 91° 4' 42.62"
Universal Transverse Mercator:	Zone 15
UTM X (Meters):	667410.5
UTM Y (Meters):	4270063.0
Elevation:	521 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	24319905 WASHINGTON WEST, MO
Version Date:	2021

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).

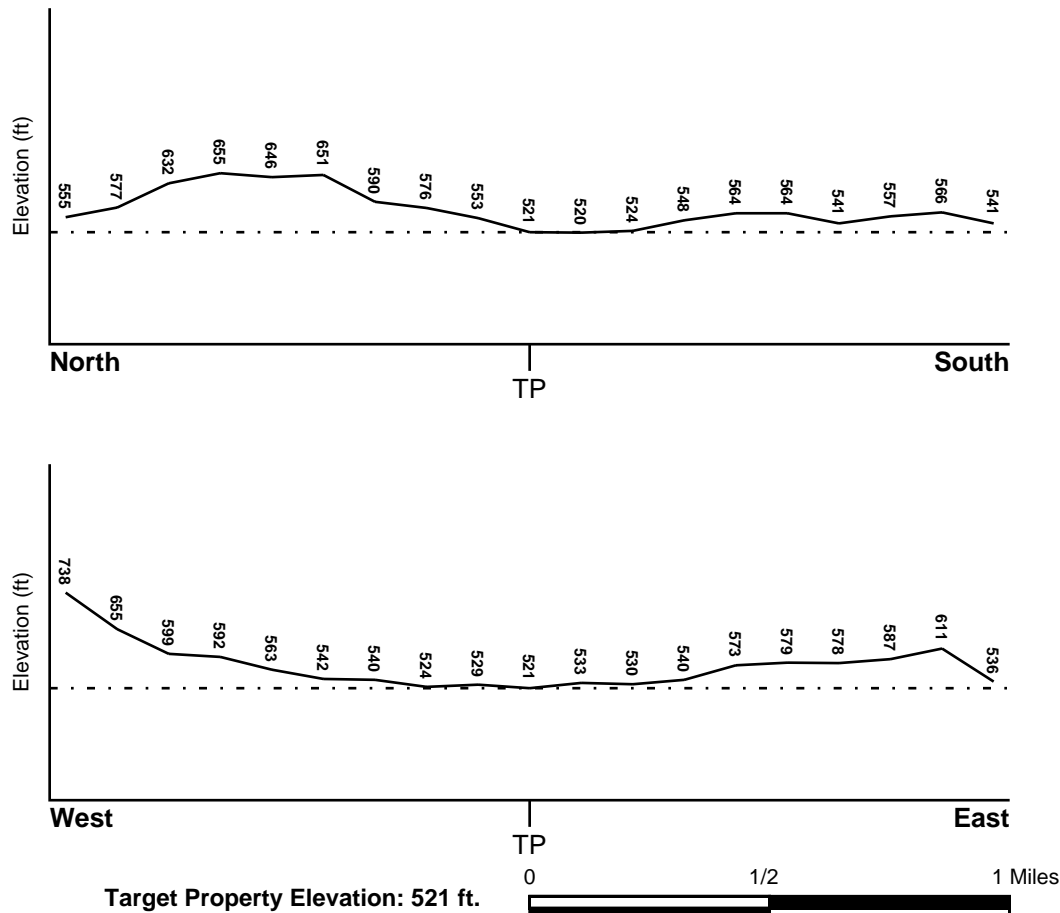
TOPOGRAPHIC INFORMATION

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 South

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



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

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

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

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

FEMA FLOOD ZONE

<u>Flood Plain Panel at Target Property</u>	<u>FEMA Source Type</u>
29071C0130D	FEMA FIRM Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
29071C0135D	FEMA FIRM Flood data
29071C0140D	FEMA FIRM Flood data
29071C0145D	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
WASHINGTON WEST	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

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

AQUIFLOW®

Search Radius: 1.000 Mile.

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

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

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

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

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

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

ROCK STRATIGRAPHIC UNIT

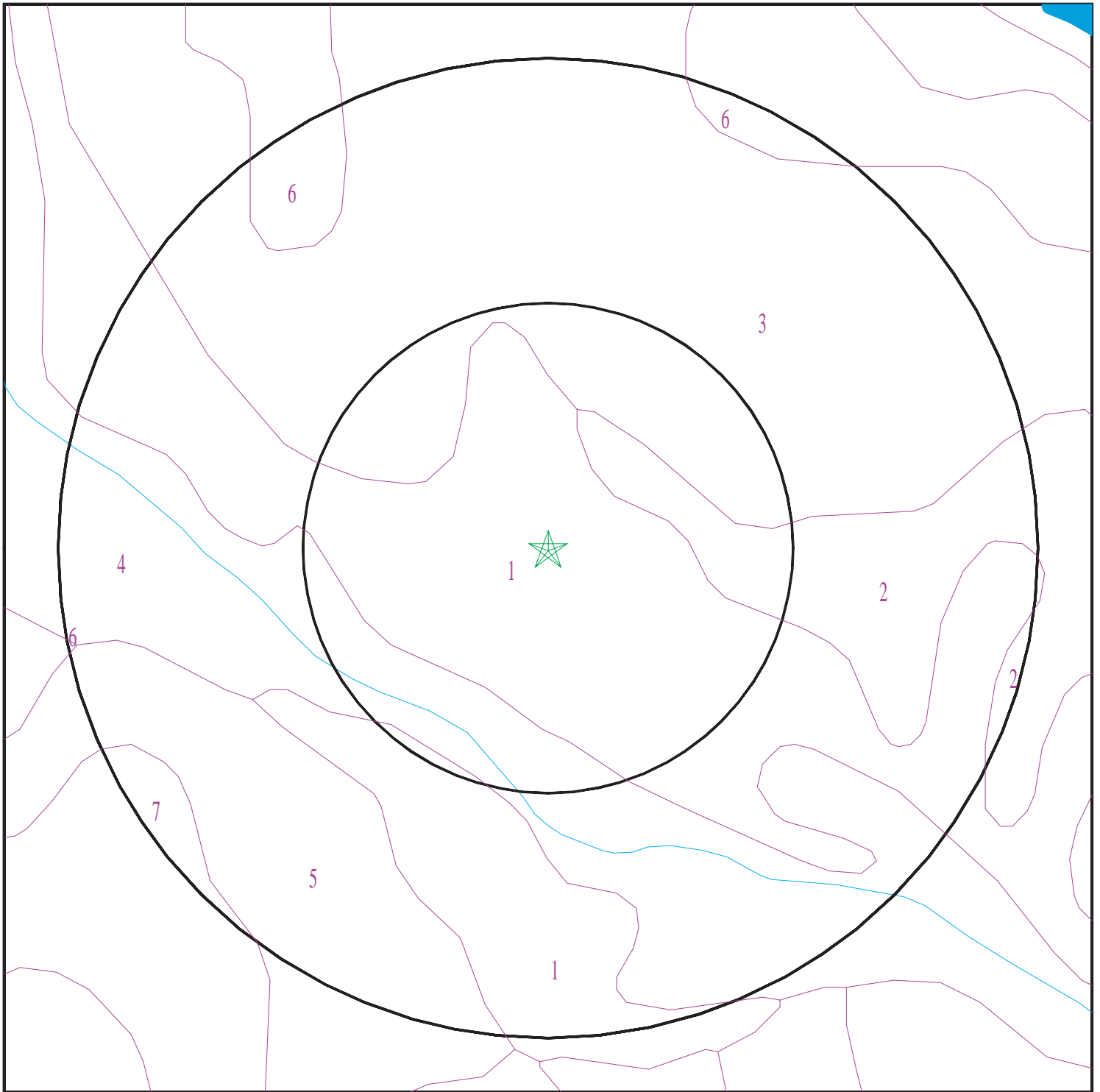
Era:	Paleozoic
System:	Ordovician
Series:	Lower Ordovician (Canadian)
Code:	O1b (<i>decoded above as Era, System & Series</i>)

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

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

SSURGO SOIL MAP - 8023059.2s



- ★ Target Property
- SSURGO Soil
- Water

0 1/16 1/8 1/4 Miles



SITE NAME: Oldenburg Industrial Site
ADDRESS: Highway 100
Washington MO 63090
LAT/LONG: 38.565124 / 91.078506

CLIENT: Terracon
CONTACT: Marci Brockett
INQUIRY #: 8023059.2s
DATE: June 18, 2025 9:52 am

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: Haymond

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: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 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	9 inches	silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 7.8 Min: 5.6
2	9 inches	59 inches	silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 7.8 Min: 5.6

Soil Map ID: 2

Soil Component Name: Hartville

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 69 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	silt loam	Not reported	Not reported	Max: 1.4 Min: 0.42	Max: 6.5 Min: 4.5
2	7 inches	16 inches	silty clay loam	Not reported	Not reported	Max: 1.4 Min: 0.42	Max: 6.5 Min: 4.5
3	16 inches	59 inches	silty clay	Not reported	Not reported	Max: 1.4 Min: 0.42	Max: 6.5 Min: 4.5

Soil Map ID: 3

Soil Component Name: Menfro

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: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches	silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 5.6

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
2	5 inches	9 inches	silty clay loam	Not reported	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 5.6
3	9 inches	53 inches	silty clay loam	Not reported	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 5.6
4	53 inches	72 inches	silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 5.6

Soil Map ID: 4

Soil Component Name: Menfro

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: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches	silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 5.6
2	5 inches	9 inches	silty clay loam	Not reported	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 5.6
3	9 inches	53 inches	silty clay loam	Not reported	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 5.6
4	53 inches	72 inches	silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 5.6

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 5

Soil Component Name: Crider

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: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 5.1
2	7 inches	61 inches	silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 5.1

Soil Map ID: 6

Soil Component Name: Menfro

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: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches	silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 5.6
2	5 inches	9 inches	silty clay loam	Not reported	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 5.6
3	9 inches	53 inches	silty clay loam	Not reported	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 5.6
4	53 inches	72 inches	silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 5.6

Soil Map ID: 7

Soil Component Name: Crider

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: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 5.1
2	7 inches	61 inches	silt loam	Not reported	Not reported	Max: 14 Min: 4	Max: 7.3 Min: 5.1

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
9	USGS40000694480	1/2 - 1 Mile NW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

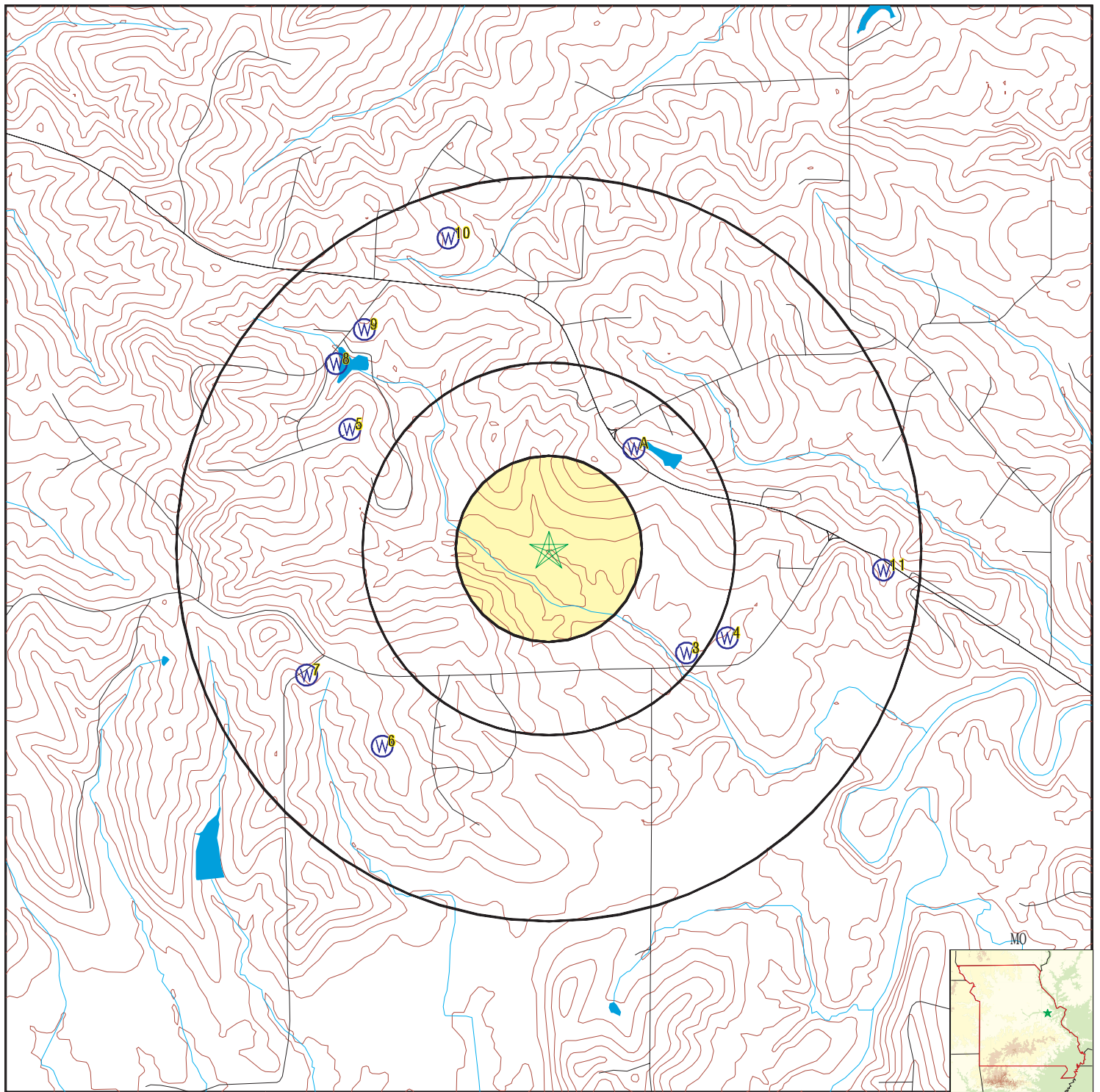
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A1	MO7000000005064	1/4 - 1/2 Mile NE
A2	MOLOG3000035596	1/4 - 1/2 Mile NE
3	MOLOG3000035523	1/4 - 1/2 Mile SE
4	MOLOG3000035528	1/2 - 1 Mile ESE
5	MOLOG3000035609	1/2 - 1 Mile WNW
6	MO7000000005002	1/2 - 1 Mile SW
7	MOLOG3000035509	1/2 - 1 Mile WSW
8	MOLOG3000035632	1/2 - 1 Mile NW
10	MOLOG3000035681	1/2 - 1 Mile NNW
11	MO7000000000729	1/2 - 1 Mile East

PHYSICAL SETTING SOURCE MAP - 8023059.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Oil, gas or related wells



SITE NAME: Oldenburg Industrial Site
 ADDRESS: Highway 100
 Washington MO 63090
 LAT/LONG: 38.565124 / 91.078506

CLIENT: Terracon
 CONTACT: Marci Brockett
 INQUIRY #: 8023059.2s
 DATE: June 18, 2025 9:52 am

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

A1
NE
1/4 - 1/2 Mile
Higher

MO WELLS MO7000000005064

Database:	Missouri Public Drinking Water Wells		
DGLS ID:	104978	LOGMAIN ID:	0028906
Well Certification #:	00288890	PWSS Name:	Washington
PWSS ID:	6010838	IPWS ID:	MO6010838
Well #:	11	Local Name:	Vossbrink Rd.
Well ID:	16641	Facility Type:	City
Federal Water System Type:	Community	Status:	Active
Drill Date:	2002	Abandoned:	0
Plugged:	0	Material Type:	Consolidated
Formation at Casing Depth:	Gasconade	Formation at Total Depth:	Elvins
Total Depth:	1150	Ground Elevation:	620
Top Seal Type:	Pressure Grout	Bottom Seal Type:	Pressure Grout
Casing Depth:	485	Casing Diameter:	12
Casing Type:	Steel	Casing Elevation:	0
Casing Height:	0	Outer Well Casing Depth:	20
Outer Casing Diameter:	18	Screen Length (ft):	-9999
Screen Size (in):	-9999	Depth to Static Water Level:	115
Max Yield (gal/min):	2000	Dynamic Head of Pump:	0
Drawdown:	0	Year of Pump Test:	0
Pump Type:	Submersible	Pump Manufacturer:	Not Reported
Pump Depth:	504	Pump Capacity:	800
Has Pump Meter:	Not Reported	Has Stand-by Power:	Not Reported
VOC detections:	N	Nitrates Detected:	N
Chlorination Used:	N	Filtration Used:	N
GWUDISW:	Not Reported	Meets Construction Requirements:	Not Reported
Surface Drainage:	Not Reported	Water System Entry Point ID:	Not Reported
SWIP Wellhead Status:	Not Verified		

A2
NE
1/4 - 1/2 Mile
Higher

MO WELLS MOLOG3000035596

WELLS LOG:

Database:	Geologic Well Log Database		
ID:	0028906		
Owner:	City Of Washington Well #11		
Well Type:	Public Well - Community		
Stratigraphy Log:	Yes	Driller Log:	No
Other Log:	No	Samples Retained:	Yes
Elevation (ft):	586	Total Depth (ft):	1150
Depth to Bedrock (ft):	0	SWL After Casing Set:	115
SWL Before Casing Set:	-9999	SWL After Casing Grouting (ft):	471
SWL Before Casing Grouting (ft):	-9999	Water Noted by Driller (ft):	Not Reported
Draw Down (ft):	-9999	Well Yield (gpm):	704
Surface Formation:	(SEE LOG, NO STRAT IN LOGMAIN)		
First Bedrock Form:	(SEE LOG, NO STRAT IN LOGMAIN)		
Alternate ID 1:	None	Alternate ID 3:	None
SDWIS ID:	16641	WIMS ID:	00288890
Oil and Gas ID:	None	Other Database ID:	2002-10
Mineral Bore Hole ID:	None	Additional Databases Linked:	PUBLIC DRINKING WATER
Drill Date:	200202	Driller:	Flynn Drilling Co

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Logger:	Jaquess, J.	Log Date:	200202
Geological Structures:	No	Interval Core Top (ft):	0
Interval Core Bottom (ft):	0		
Remarks:	Not Reported		
URL:	https://info.mo.gov/dnr/DNR_GIS/geology/wrc/logmain/striplogs/0028906.pdf		

3
SE
1/4 - 1/2 Mile
Lower

MO WELLS MOLOG3000035523

WELLS LOG:

Database:	Geologic Well Log Database		
ID:	0006709	Owner:	Aholt, Hugo
Well Type:	Private Well	Stratigraphy Log:	Yes
Driller Log:	No	Other Log:	No
Samples Retained:	Yes	Elevation (ft):	508
Total Depth (ft):	334	Depth to Bedrock (ft):	60
SWL After Casing Set:	29	SWL Before Casing Set:	-9999
SWL After Casing Grouting (ft):	479	SWL Before Casing Grouting (ft):	-9999
Water Noted by Driller (ft):	Not Reported	Draw Down (ft):	25
Well Yield (gpm):	20		
Surface Formation:	(NO SAMPLES or NOT LOGGED)		
First Bedrock Form:	COTTER DOLOMITE	Alternate ID 1:	None
Alternate ID 3:	None	SDWIS ID:	-99999
WIMS ID:	None	Oil and Gas ID:	None
Other Database ID:	None	Mineral Bore Hole ID:	None
Additional Databases Linked:	Not Reported	Drill Date:	1941
Driller:	Heinlein Brothers		
Logger:	McCracken	Log Date:	Not Reported
Geological Structures:	No	Interval Core Top (ft):	0
Interval Core Bottom (ft):	0		
Remarks:	Not Reported		
URL:	https://info.mo.gov/dnr/DNR_GIS/geology/wrc/logmain/striplogs/0006709.pdf		

4
ESE
1/2 - 1 Mile
Lower

MO WELLS MOLOG3000035528

WELLS LOG:

Database:	Geologic Well Log Database		
ID:	0008816	Owner:	Hilke, Emil
Well Type:	Private Well	Stratigraphy Log:	Yes
Driller Log:	No	Other Log:	No
Samples Retained:	No	Elevation (ft):	516
Total Depth (ft):	335	Depth to Bedrock (ft):	20
SWL After Casing Set:	-9999	SWL Before Casing Set:	-9999
SWL After Casing Grouting (ft):	-9999	SWL Before Casing Grouting (ft):	-9999
Water Noted by Driller (ft):	Not Reported	Draw Down (ft):	-9999
Well Yield (gpm):	15		
Surface Formation:	(NO SAMPLES or NOT LOGGED)		
First Bedrock Form:	CANADIAN (IBEXIAN) SERIES UNDIFFERENTIATED		
Alternate ID 1:	None	Alternate ID 3:	None
SDWIS ID:	-99999	WIMS ID:	None
Oil and Gas ID:	None	Other Database ID:	None
Mineral Bore Hole ID:	None	Additional Databases Linked:	Not Reported
Drill Date:	19450301	Driller:	Sewell Well Co

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Logger:	Watson, R.S.	Log Date:	19450723
Geological Structures:	No	Interval Core Top (ft):	0
Interval Core Bottom (ft):	0		
Remarks:	3 Mi W Of Washington, 0.25 Mi S Of Hwy 100		
URL:	https://info.mo.gov/dnr/DNR_GIS/geology/wrc/logmain/striplogs/0008816.pdf		

5
WNW
1/2 - 1 Mile
Higher

MO WELLS MOLOG3000035609

WELLS LOG:

Database:	Geologic Well Log Database		
ID:	0011945	Owner:	Kleekamp, B & H
Well Type:	Private Well	Stratigraphy Log:	Yes
Driller Log:	No	Other Log:	No
Samples Retained:	No	Elevation (ft):	646
Total Depth (ft):	417	Depth to Bedrock (ft):	15
SWL After Casing Set:	140	SWL Before Casing Set:	-9999
SWL After Casing Grouting (ft):	506	SWL Before Casing Grouting (ft):	-9999
Water Noted by Driller (ft):	Not Reported	Draw Down (ft):	-9999
Well Yield (gpm):	16.5		
Surface Formation:	(NO SAMPLES or NOT LOGGED)		
First Bedrock Form:	COTTER DOLOMITE	Alternate ID 1:	None
Alternate ID 3:	None	SDWIS ID:	-99999
WIMS ID:	None	Oil and Gas ID:	None
Other Database ID:	None	Mineral Bore Hole ID:	None
Additional Databases Linked:	Not Reported	Drill Date:	19501101
Driller:	Shepard Brothers		
Logger:	Marinkovic, S.	Log Date:	19520808
Geological Structures:	No	Interval Core Top (ft):	0
Interval Core Bottom (ft):	0		
Remarks:	Formerly In Name Of Klenke Brothers - Yield 1000 G/Hr (16.5 Gpm) @ 175'		
URL:	https://info.mo.gov/dnr/DNR_GIS/geology/wrc/logmain/striplogs/0011945.pdf		

6
SW
1/2 - 1 Mile
Higher

MO WELLS MO700000005002

Database:	Missouri Public Drinking Water Wells		
DGLS ID:	104908	LOGMAIN ID:	Not Reported
Well Certification #:	Not Reported		
PWSS Name:	Franklin Co. PWSD #1 - Cardinal Meadows		
PWSS ID:	6031215	IPWS ID:	MO6031215
Well #:	1	Local Name:	Well #1
Well ID:	14518	Facility Type:	Subdivision
Federal Water System Type:	Community	Status:	Active
Drill Date:	0	Abandoned:	0
Plugged:	0	Material Type:	Consolidated
Formation at Casing Depth:	Not Reported	Formation at Total Depth:	Not Reported
Total Depth:	0	Ground Elevation:	0
Top Seal Type:	Not Reported	Bottom Seal Type:	Not Reported
Casing Depth:	0	Casing Diameter:	0
Casing Type:	Not Reported	Casing Elevation:	0
Casing Height:	0	Outer Well Casing Depth:	0
Outer Casing Diameter:	0	Screen Length (ft):	-9999
Screen Size (in):	-9999	Depth to Static Water Level:	0
Max Yield (gal/min):	0	Dynamic Head of Pump:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Drawdown:	0	Year of Pump Test:	0
Pump Type:	Not Reported	Pump Manufacturer:	Not Reported
Pump Depth:	0	Pump Capacity:	0
Has Pump Meter:	Not Reported	Has Stand-by Power:	Not Reported
VOC detections:	N	Nitrates Detected:	N
Chlorination Used:	Not Reported	Filtration Used:	Not Reported
GWUDISW:	Not Reported	Meets Construction Requirements:	Not Reported
Surface Drainage:	Not Reported	Water System Entry Point ID:	Not Reported
SWIP Wellhead Status:	Not Verified		

7

WSW
1/2 - 1 Mile
Higher

MO WELLS

MOLOG3000035509

WELLS LOG:

Database:	Geologic Well Log Database		
ID:	0008868	Owner:	Brinkmann, John H.
Well Type:	Private Well	Stratigraphy Log:	Yes
Driller Log:	No	Other Log:	No
Samples Retained:	No	Elevation (ft):	654
Total Depth (ft):	410	Depth to Bedrock (ft):	9
SWL After Casing Set:	67	SWL Before Casing Set:	-9999
SWL After Casing Grouting (ft):	587	SWL Before Casing Grouting (ft):	-9999
Water Noted by Driller (ft):	Not Reported	Draw Down (ft):	-9999
Well Yield (gpm):	-9999		
Surface Formation:	(NO SAMPLES or NOT LOGGED)		
First Bedrock Form:	COTTER DOLOMITE	Alternate ID 1:	None
Alternate ID 3:	None	SDWIS ID:	-99999
WIMS ID:	None	Oil and Gas ID:	None
Other Database ID:	None	Mineral Bore Hole ID:	None
Additional Databases Linked:	Not Reported	Drill Date:	19450808
Driller:	Sewell Well Co	Logger:	Ostrander, Allen R.
Log Date:	19450911	Geological Structures:	No
Interval Core Top (ft):	0	Interval Core Bottom (ft):	0
Remarks:	4 Mi W Of Washington On Old New Haven Rd		
URL:	https://info.mo.gov/dnr/DNR_GIS/geology/wrc/logmain/striplogs/0008868.pdf		

8

NW
1/2 - 1 Mile
Higher

MO WELLS

MOLOG3000035632

WELLS LOG:

Database:	Geologic Well Log Database		
ID:	0026270		
Owner:	Continental Ozark Well Co-9		
Well Type:	Exploratory Hole (Mineral Prospect)		
Stratigraphy Log:	Yes	Driller Log:	No
Other Log:	No	Samples Retained:	Yes
Elevation (ft):	580	Total Depth (ft):	2239
Depth to Bedrock (ft):	999999	SWL After Casing Set:	-9999
SWL Before Casing Set:	-9999	SWL After Casing Grouting (ft):	-9999
SWL Before Casing Grouting (ft):	-9999	Water Noted by Driller (ft):	Not Reported
Draw Down (ft):	-9999	Well Yield (gpm):	-9999
Surface Formation:	(NO SAMPLES or NOT LOGGED)		
First Bedrock Form:	BONNETERRE FORMATION		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Alternate ID 1:	None	Alternate ID 3:	None
SDWIS ID:	-99999	WIMS ID:	None
Oil and Gas ID:	None	Other Database ID:	None
Mineral Bore Hole ID:	None	Additional Databases Linked:	MINERAL DRILL HOLE FILE
Drill Date:	Not Reported	Driller:	Not Reported
Logger:	Thacker, J.	Log Date:	19690804
Geological Structures:	No	Interval Core Top (ft):	0
Interval Core Bottom (ft):	0		
Remarks:	Not Reported		
URL:	https://info.mo.gov/dnr/DNR_GIS/geology/wrc/logmain/striplogs/0026270.pdf		

9
NW
1/2 - 1 Mile
Higher

FED USGS USGS40000694480

Organization ID:	USGS-MO	Organization Name:	USGS Missouri Water Science Center
Monitor Location:	T44N R02W 13AAA1	Type:	Well
Description:	Not Reported	HUC:	10300200
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Ozark Plateaus aquifer system		
Formation Type:	Lamotte Sandstone	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	2239
Well Depth Units:	ft	Well Hole Depth:	2239
Well Hole Depth Units:	ft		

10
NNW
1/2 - 1 Mile
Higher

MO WELLS MOLOG3000035681

WELLS LOG:

Database:	Geologic Well Log Database		
ID:	0008838	Owner:	Waterman, Walter
Well Type:	Private Well	Stratigraphy Log:	Yes
Driller Log:	No	Other Log:	No
Samples Retained:	No	Elevation (ft):	565
Total Depth (ft):	360	Depth to Bedrock (ft):	10
SWL After Casing Set:	-9999	SWL Before Casing Set:	-9999
SWL After Casing Grouting (ft):	-9999	SWL Before Casing Grouting (ft):	-9999
Water Noted by Driller (ft):	Not Reported	Draw Down (ft):	-9999
Well Yield (gpm):	-9999	Surface Formation:	SOIL-RESIDUUM
First Bedrock Form:	CANADIAN (IBEXIAN) SERIES UNDIFFERENTIATED		
Alternate ID 1:	None	Alternate ID 3:	None
SDWIS ID:	-99999	WIMS ID:	None
Oil and Gas ID:	None	Other Database ID:	None
Mineral Bore Hole ID:	None	Additional Databases Linked:	Not Reported
Drill Date:	Not Reported	Driller:	Walton, W.H.
Logger:	Watson, R.S.	Log Date:	192708
Geological Structures:	No	Interval Core Top (ft):	0
Interval Core Bottom (ft):	0		
Remarks:	3.5 Mi W Of Washington On Hew Haven Rd		
URL:	https://info.mo.gov/dnr/DNR_GIS/geology/wrc/logmain/striplogs/0008838.pdf		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

11
East
1/2 - 1 Mile
Higher

MO WELLS MO7000000000729

Database:	Missouri Public Drinking Water Wells		
DGLS ID:	100232	LOGMAIN ID:	Not Reported
Well Certification #:	Not Reported	PWSS Name:	Wee Care Day Care
PWSS ID:	6280244	IPWS ID:	MO6280244
Well #:	1	Local Name:	Well #1
Well ID:	10182	Facility Type:	Other
Federal Water System Type:	Non-Public	Status:	Inactive
Drill Date:	0	Abandoned:	0
Plugged:	0	Material Type:	Consolidated
Formation at Casing Depth:	Not Reported	Formation at Total Depth:	Not Reported
Total Depth:	0	Ground Elevation:	0
Top Seal Type:	Not Reported	Bottom Seal Type:	Not Reported
Casing Depth:	0	Casing Diameter:	0
Casing Type:	Not Reported	Casing Elevation:	0
Casing Height:	0	Outer Well Casing Depth:	0
Outer Casing Diameter:	0	Screen Length (ft):	-9999
Screen Size (in):	-9999	Depth to Static Water Level:	0
Max Yield (gal/min):	0	Dynamic Head of Pump:	0
Drawdown:	0	Year of Pump Test:	0
Pump Type:	Not Reported	Pump Manufacturer:	Not Reported
Pump Depth:	0	Pump Capacity:	0
Has Pump Meter:	Not Reported	Has Stand-by Power:	Not Reported
VOC detections:	N	Nitrates Detected:	N
Chlorination Used:	N	Filtration Used:	N
GWUDISW:	Not Reported	Meets Construction Requirements:	Not Reported
Surface Drainage:	Not Reported	Water System Entry Point ID:	Y
SWIP Wellhead Status:	Not Verified		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

RADON

AREA RADON INFORMATION

State Database: MO Radon

Radon Test Results

Zipcode	Test Date	Result
63090	10/02/06	5.6
63090	11/10/08	4.9
63090	11/17/08	5.8
63090	11/28/08	8.2
63090	12/15/08	1.3
63090	02/20/09	2.4
63090	01/19/08	1.3
63090	01/30/09	2.9
63090	07/29/08	????
63090	08/11/06	1.2
63090	08/28/08	7.2
63090	05/09/08	6.5

Federal EPA Radon Zone for FRANKLIN County: 2

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: 63090

Number of sites tested: 11

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.967 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	2.182 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

Nilisha Khadgi

Staff Scientist

PROFESSIONAL EXPERIENCE

Nilisha Khadgi is currently a Staff Scientist for the St. Louis Terracon Office. Ms. Khadgi is responsible for conducting Phase I Environmental Site Assessments (ESA). She has extensive experience in Environmental Chemistry and Toxicology, Geology, GIS, Statistical Analysis, and Environmental Monitoring.

PROJECT EXPERIENCE

Ireland Grove – Bloomington, IL (2024)

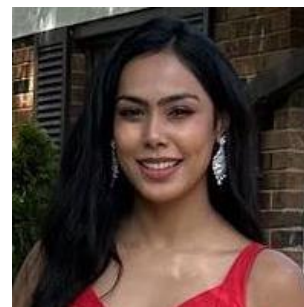
Provided research assistance as part of a Phase I ESA of a 2.1 acre-site, which included a 15,000 square-foot retail/warehouse building. The assessment was conducted through regulatory database review, user-provided information, historical and physical records reviews, interviews, and visual noninvasive reconnaissance of the site.

Union MO – Columbia, MO (2024)

Conducted an interview with former property owner as part of a Phase I ESA of a 1.05-acre vacant lot located south of Highway 50. The assessment was conducted through regulatory database review, user-provided information, historical and physical records reviews, interviews, and visual noninvasive reconnaissance of the site.

Drummer Creek Solar – Gibson City, IL (2023)

Provided research assistance as part of a Phase I ESA of a 152-acre site, which consisted of primarily vacant cropland and a barn and is bisected by railroad.



EDUCATION

Master of Science,
Environmental Science,
Southern Illinois University—
Edwardsville, 2023

PRESENTATIONS/ PUBLISHED ARTICLES

Trends in Serum Per- and
Polyfluoroalkyl Substances
(PFAS) Concentrations in
Teenagers and Adults, 1999-
2018 NHANES – International
Journal of Environmental
Research and Public Health,
2023, 20(21), 6984.

Long-term Assessment of Water
Quality of Kathmandu
University Drinking Water
Supply Centre, Nepal. –
Sustainable Water Resources
Management, 2022, 8(2), 41.

Colleen Wittenberg

Senior Staff Scientist

PROFESSIONAL EXPERIENCE

Colleen Wittenberg is currently a Senior Staff Scientist for the St. Louis Terracon Office. She is responsible for conducting Phase I Environmental Site Assessments (ESA).

Additionally, Ms. Wittenberg has experience conducting site visits and writing reports associated with Phase II ESAs, Indoor Air Quality Assessments, Soil and Groundwater Management Plans, Migratory Bird Evaluations, and Asbestos Surveys for commercial and telecommunication sites.

PROJECT EXPERIENCE

Starbucks New Location – St. Louis, MO (2024)

Project Manager for a Phase I Environmental Site Assessment (ESA) for a 0.86-acre undeveloped vacant lot for Starbucks Coffee Company. Assessed the land conditions as well as the surrounding retail, commercial, and transportation infrastructure to determine future implications for future construction and utilities. Fee: \$3,500

Emerald Solar – White Hall, IL (2024)

Conducted a Phase I Environmental Site Assessment (ESA) of 280 acres of vacant agricultural land and two small creeks running through the property lines for Azimuth Renewables LLC. Acquired land history information through the land user, a regulatory database review. Conducted historical and physical records review; interviews, including local government inquiries; and visual noninvasive reconnaissance of the site and adjoining properties. Fee: \$3,000



EDUCATION

Bachelor of Science,
Environmental Science-Biology,
Southeast Missouri State
University, 2016

REGISTRATIONS/ CERTIFICATIONS

Certified Asbestos Building
Inspector for Indiana

PROFESSIONAL TRAINING

OSHA 40-Hour HAZWOPER

Work History

Terracon Consultants, Inc.;
Senior Staff Scientist; 2024-
present

Trileaf Corporation, Project
Manager, 2018-2024

Monsanto, Greenhouse
Technician, 2017-2018

Karen Rieken, P.E.

Regional Site Investigation Manager

PROFESSIONAL EXPERIENCE

Ms. Rieken is the Site Investigation Group Manager in Terracon's St. Louis, Missouri Office. She has 25 years of experience in the environmental field and has provided services to municipal, commercial and industrial clients under a variety of federal and state programs throughout the United States, United States Virgin Islands, and Canada. These include underground and leaking underground storage tanks (UST/LUST) evaluations, site remediation, Phase I ESAs as an environmental professional, Phase II assessments, NEPA, SWPP Plans, SPCC Plans, compliance audits, and remedial excavation activities including contact with federal, state, and local environmental regulatory agencies and insurance funds, and applicable permitting, including working towards closure through the risk-based assessment programs in Missouri and Illinois.

Through her work-related experience and training, Ms. Rieken has gained expertise in site investigation and remediation. She has completed numerous projects requiring the application of risk-based clean-up objectives including LUST investigations, and site remediation projects. She works closely with state and federal agencies in the application of risk-based principals as applicable programs are developed and implemented. She also has a thorough understanding of regulatory compliance issues related to the operation of industrial facilities. Her knowledge and familiarity with a variety of industrial processes and systems allow her to develop innovative solutions to meet her clients' needs.

Ms. Rieken has performed Phase I ESA, as an environmental professional, and Phase II field activities, prepared reports for client use and for submittal to state and federal agencies and corresponded with regulatory staff to move properties to closure. Ms. Rieken also provides site assessment and LUST services to commercial property owners, public and private development groups, lending institutions and others. Activities have included site assessment, risk-based evaluation and corrective action, site monitoring and reporting to achieve closure under applicable programs.

Ms. Rieken's experience includes the performance of Property Condition Assessments of commercial, multi-story office/residential, recreational, and industrial type facilities throughout Missouri, Illinois, Kansas, Indiana, Ohio, Texas, and Michigan. Her experience includes geotechnical field oversight and bore logging, construction field testing and oversight, laboratory soils testing, foundation design slope stability analysis, and subsidence investigations.

PROJECT EXPERIENCE

BROWNFIELDS AND DUE DILIGENCE

- Managed a USEPA Brownfields Assessment Grant (\$200,000 petroleum and \$200,000 hazardous substances) for a multi-county area in Southern Illinois (Greater Wabash Regional Planning Commission), including eligibility determinations, Community outreach activities, MBE/WBE reporting, quarterly USEPA reporting, QAPP, TSAPs, Phase I ESAs, and Phase II ESAs.
- Manages Missouri Department of Natural Resources Targeted Brownfields Assessment contract, including review and discussion with the agency and applicant, as well as contracting management, including MBE/WBE participation management activities and QAPPs for Phase II ESAs. In



EDUCATION

Bachelor of Science, Civil Engineering, University of Missouri/ Washington University, St. Louis, MO, 1998

Continuing Education in field of Architectural Engineering Systems, Lawrence Technological University, Southfield, MI

REGISTRATIONS

Professional Engineer: Missouri, No. 2008002203; Illinois No. 062.062769; Kansas No. 21234

CERTIFICATIONS

OSHA 29 CFR 1910.10 40-hour Hazardous Waste Training, 8-hour refresher

Missouri Licensed Well Driller Permit No. 004664

Nuclear Density Gauge Safety Training

CPR/First Aid certified

AFFILIATIONS

American Society of Civil Engineers (ASCE)

Society of American Military Engineers (SAME)

Engineers Club of St. Louis

Gateway Society of Hazardous Materials Managers (GSHMM)

Missouri Waste Control Coalition (MWCC)

Environmental Bankers Association

addition to performing and managing Phase I ESAs and Phase II ESAs, she has also led Analysis of Brownfield Cleanup Alternatives (ABCA)s, and Inventory Assessments

- Manages Missouri Department of Natural Resources Underground Storage Tank Assessment contract, including review and discussion with the agency and applicant.
- Worked with Kansas State University Targeted Brownfields Assistance to perform an environmental sites inventory in three key area of Galesburg, Illinois.
- Manages, oversees, and performs evaluation for multiple Illinois and Missouri leaking underground storage tank sites.
- Manages, oversees, and performs evaluation for multiple Illinois Site Remediation Program sites and Missouri Brownfields/Voluntary Cleanup Program sites.
- Composed the PCB Testing & Disposal Plan for EPA approval, Concrete Reuse Plan for State approval for a former automobile assembly plant in Missouri.
- Oversaw concrete and soil testing of on-site environmental issues uncovered during demolition process and characterization of off-site fill brought to the former automobile assembly plant in Missouri.
- Performed Storm Water Pollution Prevention weekly inspections for construction sites in Detroit, Michigan. Inspections included detailed review of SWPP plan and inspection of outfalls and drainage pathways for erosion.
- Composed SWPP plans and submitted required permitting documentation for sites in Illinois and Missouri.
- Performed Phase I ESA of 60-parcel redevelopment area in the St. Louis, Missouri metropolitan area, which included industrial, commercial, and residential parcels. Directed demolition asbestos surveys and produced reports for all structures on the redevelopment area.
- Performed Phase I ESA, Phase II ESA and Remedial Excavation/UST removal at a historical gasoline station property in St. Louis, Missouri. Phase II environmental subsurface sampling was accomplished in conjunction with geotechnical investigation and GPR survey. Ten previously unknown USTs were removed from the site during remediation activities. Project included contact with state environmental agencies and state UST insurance fund.
- Performed Phase I ESA and Phase II ESA at a university medical and science waste consolidation facility in Detroit, Michigan. Phase II assessment included coring through building foundation, exterior subsurface investigation in vicinity of potential USTs and identifying historical waste streams, chemicals formerly stored/consolidated at the facility, and unlabelled wastes currently present at the site.
- Performed Phase I ESA and Phase II ESA of a historical bulk oil storage facility in Sterling Heights, Michigan. Phase II assessment included soil borings, temporary monitoring wells and GPR survey.

WORK HISTORY

Terracon Consultants, Inc.,
Project Manager, 2013-Present

ATC Associates Inc., Senior
Engineer 2002 - 2013

Testing Engineers &
Consultants, Inc., 2002

Geotechnology, Inc., 1999-2002

SPILL PREVENTION AND COUNTERMEASURE CONTROL PLANS

- Performed site reconnaissance and designed SPCC plans for automotive industry suppliers, agricultural feed companies, biofuel facilities, steel cutting and supply facilities, and coal slag reuse facilities in Michigan, Indiana, Kansas, Illinois, and Missouri.
- Have acted as certifying engineer on SPCCs in Illinois, Missouri, and Kansas.

GEOTECHNICAL / CONSTRUCTION MATERIALS TESTING

- Slope stability analysis of existing and proposed 50-, 100- and 500-year levees along the Mississippi River, the Missouri River, and the River Des Peres utilizing UTEXAS and SlopeW software.
- Drilling oversight and direction, logging, and engineering of various shallow foundation projects throughout St. Louis, Missouri metropolitan area. Soil conditions encountered include urban rubble fill, high plastic clays, floodplain alluvium, and shallow bedrock. Created boring logs utilizing GINT software.
- Drilling oversight and direction, logging and engineering for deep foundation design of replacement bridges in vicinity of voids and sink holes at various locations in Franklin County, Missouri.
- Design of a tieback support system for retaining structure along lock wall and bridge abutment during replacement of the McAlpine Locks on the Ohio River in Louisville, Kentucky.
- Geotechnical evaluation of structures undergoing subsidence in the St. Louis, metropolitan area (Missouri) due to highly expansive soils.
- Construction observation and inspection of site earthwork grading, drilled piers, rock column piers, and shallow foundations as well as oversight and management of QA/QC technicians.

PROPERTY CONDITION ASSESSMENTS

- Performed property condition assessments of automobile dealerships, multi-story nursing homes, enclosed commercial shopping centers, strip commercial shopping centers, assisted living facilities, and multi-story and multi-building apartment complexes in southeastern Michigan.
- Performed property condition assessments of self-storage facilities in Michigan and Ohio.

- Performed property condition assessments of strip commercial shopping centers, high rise office buildings, high-rise apartment buildings, and small retail structures in Missouri and Illinois.
- Performed property condition assessment of multi-story office buildings in Nebraska.
- Performed property condition assessments of golf course and apartment communities in Kansas.
- Performed property condition assessments of high-rise building in Missouri.
- Performed property condition assessments of industrial facilities in Texas, Missouri, and Illinois.