

EDA Environmental Narrative Report

WSU Innovation Campus

4201 E 21st St. N

Wichita, Sedgwick County, Kansas

April 28, 2015

Terracon Project No. 01147093



Prepared for:

MKEC Engineering, Inc.
Wichita, Kansas

Prepared by:

Terracon Consultants, Inc.
Wichita, Kansas

terracon.com

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Environmental



Facilities



Geotechnical



Materials

April 28, 2015



MKEC Engineering, Inc.
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Attn: Mr. Ken Kallenbach
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Re: EDA Environmental Narrative Report
WSU Innovation Campus
1845 Fairmount
Wichita, Sedgwick County, Kansas
Terracon Project No. 01147766

Dear Mr. Kallenbach:

Terracon Consultants, Inc. (Terracon) is pleased to submit the enclosed EDA Environmental Narrative Report (ENR) for the above-referenced site. This workscope was performed in general accordance with Terracon Proposal No. E0114220 dated October 16, 2014.

We appreciate the opportunity to be of service to you on this project. Our professionals can also provide geotechnical, environmental, 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.

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Attachments

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EDA ENVIRONMENTAL NARRATIVE REPORT
WSU INNOVATION CAMPUS
1845 FAIRMOUNT
WICHITA, SEDGWICK COUNTY, KANSAS
Terracon Project No. 01147093
April 28, 2015

A. BENEFICIARIES

The beneficiaries for the project will be Wichita State University (WSU), WSU students and the Wichita community. The proposed project is to develop facilities where the university and industry can work together to share resources, developing ideas/technology and produce more experienced new graduates. The community will benefit not only by development of new jobs but by the innovation of having these technologies and resources available to attract and/or grow new local industry.

B. PROJECT DESCRIPTION

1. Proposed Construction

The proposed WSU Innovation Campus (WSUIC) development includes construction of new buildings to house academics, research, industry, housing and retail. The generally undeveloped nature of the property proposed for this development brings the requirement to develop new infrastructure to service these buildings. This proposed development of infrastructure includes new streets, utilities, storm sewers, and parking areas. The WSUIC is located in the northeast quarter of Section 11, Township 27 South, Range 1 East on the eastern portion of the WSU campus.

Currently there are existing plans that are either approved or working toward final design for five structures on the southwestern portion of the proposed development. The five new buildings that are currently in progress are located adjacent and east of the current WSU campus development and include: a 147,000 square foot Experimental Engineering Building and attached 20,000 square feet Community Maker Space building that is proposed to be located in the area where the golf course maintenance facility and Wheatshocker apartments are located. Located north of the Experimental Engineering Building are two Partnership Buildings that will be approximately 90,000 to 150,000 square feet and will be constructed as office space. There are also plans being worked prepared for a residence hall that will be north of the structures described above and in the west-central portion of the new development. The approximate locations of the five buildings described above are shown on the Innovation University Master

Plan (see Attachment A-1). The Innovation University Master Plan also shows 19 additional buildings and two parking garages as part of the conceptual development plan. A figure showing the current conditions of the property proposed for the Innovation Campus as depicted on a 2011 aerial image is included as Attachment B-1 (Site Diagram). Also attached is a portion of the photorevised 1982 Wichita East USGS Topographical map (see Attachment B-2) depicting the current site elevations on the proposed WSUIC (labeled “Crestview Country Club”). Based on review of the topographic map, the WSUIC property has an elevation range from 1,390 to 1,410 above mean sea level and gently slopes from near a central high point to the north, south, southwest and northwest.

The street improvements that are proposed for the WSUIC include construction of approximately one mile of streets on campus that will provide access to campus and the new development. One of the proposed streets is Innovation Way that will run from East 17th Street North (which borders the south side of WSU campus) northward through the new development to Mike Oatman Drive (an existing street that borders the perimeter of Tyler Field/Eck Stadium). Two east-west streets (East 18th North and East 19th North) will be constructed and these two streets will provide access to campus from North Oliver Avenue which bounds the campus to the east.

Infrastructure development will be constructed so as to be in place as additional buildings are planned and constructed. This infrastructure will include utilities (water, gas, electrical and sanitary sewer), roadways and parking areas. Additionally, per local stormwater requirements, development of storm sewers will be required that satisfy Clean Water Act.

The portions of the WSU Innovation Campus project that are proposed for EDA funding assistance includes the construction of two road segments and parking areas for first buildings on the Innovation Campus. Federal funding for the Year One Projects is made up entirely of the EDA grant. The infrastructure that is proposed for EDA funding consists of the green shaded areas depicted on the Paving Plan (Attachment C-1). This infrastructure will be denoted as Year One Projects in the remainder of this report. The roads and parking areas of the Year One Projects will serve to provide access from East 17th Street North and parking for the first building proposed for construction as part of the WSUIC development. The Year One Projects that are proposed for EDA funding will include:

- The construction of an access road on the southwestern portion of the property that joins with existing access to Perimeter Way (an existing street that runs through campus).
- The construction of the south portion of Innovation Way that will connect with East 17th Street North (adjacent south of WSU property).
- Construction of three parking areas (accessed by the roads described above) that will provide approximately 500 parking spaces for the new development.

Construction of these new roadways and parking areas will initially service the first proposed building for the WSUIC. The first proposed building is the Experiential Engineering Building (EEB) which will be constructed with non-EDA funds. Future development will expand Innovation Way northward through the WSUIC property to Mike Oatman Drive which is an existing street on the north-central portion of the WSU campus. Therefore the development of Innovation Way will be a key access point to future development on the WSU IC.

2. Alternatives to the Proposed Construction

Other property of adequate size to accomplish the expansion and also located near or adjacent to the university is not available. The goal of the expansions is to bring industry onto the campus in working partnership; therefore, property located off campus would distract from the overall goal of the project. In conclusion, alternatives that accomplish the goals of the expansion are not available.

3. Mitigation

The construction is located within the city limits of Wichita and in Sedgwick County, Kansas. County and municipal ordinances regarding construction noise levels will be followed during construction (noise levels will be limited based on time of day per ordinance requirements). Construction activities that generate dust may require an air permit from the Kansas Department of Health and Environment (KDHE). Construction activities disturbing over one acre of land require a National Pollutant Discharge Elimination System (NPDES) permit through KDHE. The NPDES permit requirements include the development of an approved (KDHE) Stormwater Pollution Prevention Plan (SWPPP) for construction activities. The construction SWPPP will include best management practices (BMP) designed to reduce pollutants from being discharged from the site in stormwater flow (reduction of soil erosion and siltation). The final development will incorporate stormwater management structures and design (stormwater detention ponds for surface runoff and infrastructure designed to be in compliance with Municipal Separate Storm Sewer System requirements) in order to comply with city, county and state requirements regarding stormwater controls on new construction.

It is not anticipated the proposed construction activities associated with Year One Projects will require an air permit. As stated above, permits required for construction will be obtained and guidelines/BMPs will be followed during the development of Year One Projects. Therefore, unmitigated impacts associated with the Year One Projects are not anticipated at this time

C. HISTORICAL/ARCHEOLOGICAL RESOURCES

Terracon reviewed the National Register of Historic Places (NRHP) database (<http://nrhp.focus.nps.gov/natreghome.do?searchtype=natreghome>) and the Kansas Historical

Society Kansas Historic Resources Inventory (KHRI) database (<http://khri.kansasgis.org/index.cfm?in=173-10865>) regarding historic or archeological resources that may have been documented on or near the WSUIC property. The NHRP and KHRI databases include places that are listed on the National Register of Historic Places and the State of Kansas Register of Historic Places. The search on the NRHP identifies 85,849 historic sites listed, of which 1,211 are located in Kansas and 98 of those are registered historical sites listed in Sedgwick County Kansas. The KHRI review identified four locations that were registered on both the state and national registers and located within approximately one half mile of the WSUIC property. The following table provides details obtained during the review of the KHRI database on these four properties:

Table 1.0 Registered Historic Properties					
Resource	Address	Function	State Register Listing	National Register Listing	Distance from WSUIC
Fairmont Apartments	1702 North Fairmount Ave.	Domestic Multiple Dwelling	Yes	Yes	0.40 miles west-southwest
Fairmount Congregational Church	1650 North Fairmount Ave.	Religious Facility	Yes	Yes	0.45 miles west-southwest
Fairmount Cottage	1717 North Fairmount Ave.	Domestic Single Dwelling	Yes	Yes	0.50 miles west-southwest
Old Mission Mausoleum	3424 E. 21st Street North	Funerary Cemetery	Yes	Yes	0.50 miles west-northwest

A request to review the project location was sent to the Kansas Historical Society (KHS) Preservation Officer (the SHPO representative in Kansas) on November 7, 2014 (see Attachment D-1). Terracon received the response from KHS (see Attachment E-1) on November 18, 2014. The KHS response indicated their review did not identify known resources on the WSUIC property but due to the potential for unidentified sites KHS requested the site be surveyed by a professional archeologist. Dr. Donald Blakeslee an archaeological anthropologist and other staff members with of the WSU Department of Anthropology (who are approved to conduct SHPO surveys) performed the surveys requested by SHPO on the WSUIC property (including Year One Projects area). A report prepared summarizing the results of these surveys (*Archeological Investigations of Proposed Innovation Campus, Wichita State University*, January 2, 2015) indicated archaeological sites or historic properties were not identified on the WSUIC property (see Attachment F-1).

Based on the database review summarized above and results of the investigation conducted by a SHPO-approved professional archeologist (WSU staff), an effect on historical or archeological resources resulting from development of the Year One Project was not identified. In a response letter dated January 13, 2015 the KHS indicated they concurred with the findings summarized in

the *Archeological Investigations of Proposed Innovation Campus, Wichita State University* report and the project would not have effects on culture resources (see Attachment G-1). The KHS concluded they would have no objections to the project.

D. AFFECTED ENVIRONMENT

1. Affected Area

The WSUIC property is currently a golf course that is approximately 120 acres in size. A residence facility (Wheatshocker Apartments) and building/structures associated with the golf course maintenance operations are located on the southwestern portion of the WSUIC property. The majority of the WSUIC property has been utilized as a golf course since the 1920s. The golf course portion consists of maintained turf grass fairways with scattered trees, and rows of trees that divide most of the fairways. The trees on the WSUIC property are a mix of native specimens and non-native species. There four man-made ponds located on the eastern and northeastern portions of the WSUIC property (see Attachment H-1 – Photolog). The onsite ponds are constructed on an unnamed ephemeral stream that appears to originate in the central portion of the WSUIC property. The onsite stream is a tributary of Chisholm Creek and the convergence of this stream with Chisholm Creek is located approximately one mile north of the site.

The proposed WSUIC development as depicted on Attachment A-1 shows the development of roads, parking and site buildings. The existing vegetation and wooded areas will be impacted as development progresses. The onsite surface waters will be developed into stormwater management ponds that will likely require fill and excavation work to bring the ponds capacity and design up to the required standards of the local stormwater regulations. The onsite habitat does not appear to provide specialized habitat for any local rare or endangered species.

The affected area that is part of the Year One Projects (proposed for EDA funding) include the demolition of the existing Wheatshocker Apartments and the buildings associated with the golf course maintenance yard on the southwestern portion of the WSUIC property. Also some tree removal and grading will be required to construct the roads and parking areas associated with the Year One Projects.

2. Shorelines, Estuaries, Beaches and Dunes

A review of the U.S. Fish and Wildlife Service National Wetlands Inventory Map (NWI) website (<http://www.fws.gov/wetlands/Data/Mapper.html>) indicates there are no shorelines, beaches, dunes or estuarine areas depicted in the project site area (see Attachment I-1 - NWI map). A review of (National Oceanic and Atmospheric Administration) NOAA's website (<http://coast.noaa.gov/czm/mystate>) indicates Kansas is not a state with a NOAA approved

costal management plan. Based on review of NWI maps and information from NOAA, development of the Year One Projects will not impact shorelines, estuaries, beaches or dunes.

3. Wetlands

A review of the NWI discussed above (<http://www.fws.gov/wetlands/Data/Mapper.html>) did identify NWI designated wetlands located on the site. The four onsite surface water ponds (northeastern portion of the site) are identified by the NWI maps as Cowardin PABFh or PEMCh wetlands. These onsite wetlands are palustrine systems and are generally wetlands and/or deep-water habitats with associated emergent wetland vegetation. The onsite wetlands are also classified as seasonally or semi-permanently flooded and are formed by manmade impoundments. Review of the 1982 USGS Wichita East Topographic Map (see also Attachment B-1) indicates the stream located on the northeastern portion of the site (on-site ponds are located on this stream) as an unnamed intermittent stream. This onsite intermittent stream is also depicted by the topographic map as a tributary to Chisholm Creek located north of the site. Furthermore, based on the topographic depiction of the onsite intermittent stream, the headwaters of this stream are located in the central portion of the site.

Our client also contracted with GSI to perform a review of potential jurisdictional waters on the site. GSI identified wetland areas on the campus associated with the onsite ponds. This included 1.62 acres of open water and 1.12 acres of adjacent wetlands. A copy of the GSI wetland report is included as Attachment J-1. At the time of developing this narrative report, the data collected by GSI had not been submitted to the U. S. Army Corp of Engineers (USACE) for their review. Review of this data by the USACE will include a request for their determination on the jurisdictional status of onsite waters. If the USACE determines the onsite waters to be Jurisdictional Waters of the U.S. and permitting is required for the impacts from development, permits will be acquired prior to impacts to the onsite waters.

Based on review of the wetlands report and the relative location of Year One Projects, there will not be a direct effect on potential jurisdictional waters from construction of the Year One Projects. The stormwater surface run-off from those portions of the site where Year One Projects will be constructed will generally flow to the south to a municipal piped system and away from the wetland areas along the onsite streams farther north. BMPs will be used as a part of the required construction storm water control procedures and permanent stormwater structures (SWPPP, Municipal Separate Storm Sewer Systems, etc.). Year One Projects will not affect the onsite jurisdictional surface waters.

4. Floodplains

A review of the Federal Emergency Management Agency (FEMA) website and online flood hazard mapping system was performed (<http://msc.fema.gov/portal>). The Innovation Campus and property where the Year One Project locations are depicted on portions of FEMA Flood

Insurance Rate Map (FIRM) panels 20173C0356E and 20172C0358E (see Attachment K-1). Based on review of the FIRM mapping, the project (including the Year One Project property) is located within the FEMA Flood Zone X. FEMA Flood Zone X is defined as an area of minimal flood hazard, and FEMA has determined areas designated as Zone X to be outside the 500 year flood and protected by levee from the 100 year flood. Based on the review of the FIRM maps, development of the Year One Projects property will not impact flood zones that represent flood hazard.

5. Vegetation and Wildlife Resources

An online search was conducted to review federal, state, and local parks, forests, preserves, and wildlife areas within relation to the site. The search included information from the U.S. National Park Service, the U.S. Forest Service, the U.S. Fish and Wildlife Service, the National Wild and Scenic Rivers System, the Kansas Department of Wildlife, Parks and Tourism, and the City of Wichita Parks and Recreation. A review of the information revealed that no federal or state parks, forests, preserves, and wildlife areas are located on the site or within one mile of the site. Two City of Wichita municipal parks, however, are located within one mile of the site. The two parks, Fairmount Park and Lynette Woodard Park, are located approximately 0.25 miles southwest and 0.8 miles west of the site, respectively. Based on distance from Year One Projects, impacts to the municipal parks as a result of the project development are not anticipated.

6. Endangered Species

Literature and agency file searches were conducted to review the potential occurrence of federally and state listed threatened and endangered (T&E) species located in the site vicinity (including property for all of the WSU innovation Campus and Year One Projects). The search included information from the U.S. Fish and Wildlife Service (USFWS) and the Kansas Department of Wildlife, Parks and Tourism (KDWP&T). The following are federally and/or state listed T&E species listed in Sedgwick County, Kansas.

Sedgwick County Threatened & Endangered Species

COMMON NAME	SCIENTIFIC NAME	STATUS*	HABITAT
BIRDS			
Whooping crane	<i>Grus americana</i>	SE/FE	Variety of wetland and other habitats away from human activity, including coastal marshes and estuaries, inland marshes, lakes, ponds, wet meadows and rivers, and agricultural fields.
Least tern	<i>Sterna antillarum</i>	SE/FE	Barren areas near water such as saline flats in salt marshes, sand bars in river beds, and shores of large impoundments.
Eskimo Curlew	<i>Numenius borealis</i>	SE	Plowed fields heavily grazed or burned-over grasslands, and prairie-dog towns.
Piping Plover	<i>Charadrius melodus</i>	ST	Sparsely vegetated shallow wetlands and open beaches and sandbars adjacent to or within streams and impoundments.
Snowy Plover	<i>Charadrius alexandrines</i>	ST	Open salt flats, beaches and bars of rivers, and wetlands.
FISH			
Arkansas darter	<i>Etheostoma cragini</i>	ST/FC	Shallow, clear, spring-fed tributary and headwater streams having sand or sandy. Are invariably associated with vegetative cover in spring-fed channels and generally found near-shore areas away from swift currents.
Arkansas River Shiner	<i>Notropis girardi</i>	SE	Main channels of wide, shallow, sandy-bottomed rivers and large streams.
Arkansas River Speckled Chub – Peppered Chub	<i>Macrhybopsis tetranema</i>	SE	Shallow channels and permanently flowing streams where currents flow over clean fine sand.

COMMON NAME	SCIENTIFIC NAME	STATUS*	HABITAT
Plains Minnow	<i>Hybognathus placitus</i>	ST	Areas of sufficient water flow and flow rates with high and low extremes.
Silver Chub	<i>Macrhybopsis storeriana</i>	SE	Large sandy rivers.
MAMMALS			
Northern Long-Eared Bat	<i>Myotis septentrionalis</i>	FT	In cavities or in crevices of both live and dead trees. May also roost in caves and mines. Rarely found roosting in barns and sheds.
Eastern Spotted Skunk	<i>Spilogale putorius</i>	ST	Forest edges and upland prairie grasslands, especially where rock outcrops and shrub clumps are present.

* FC – Candidate for federal listing; FE – Federally listed as endangered; FT – Federally listed as threatened; SE – State listed as endangered; ST – State listed as threatened

Of the eleven T&E species listed for Sedgwick County, five of the T&E species are comprised of birds with each of the bird species dependent on open saline flats, sand bars and beaches of river beds/wetlands/impoundments, wetlands away from human activity, plowed fields, and/or heavily grazed or burned-over grassland. Fish comprise an additional five species on the list and all five are dependent on flowing waters for survival. No critical habitat has been designated in Sedgwick County for the five bird and five fish T&E species. The eastern spotted skunk is the remaining T&E species on the list and relies on dense vegetation cover within forest edges and upland prairie grasses for habitat. Critical habitat is listed in Sedgwick County for the eastern spotted skunk within the Cowskin Creek and Big Slough drainage basins, which are located at least five miles west of the WSUIC project. Stormwater on the site, however, appears to discharge into the Chisholm Creek drainage basin.

The proposed project site has been developed since at least the 1920s, vegetation on the site is maintained (i.e. fertilized and mowed frequently), and the urban environment does not appear conducive to species on the T&E list.

The northern long-eared bat is listed by the USFWS threatened species (listed on April 2, 2015). Northern long-eared bats utilize caves and abandoned/inactive mines during hibernation. Outside of hibernation, northern long-eared bats utilize cavities and crevices on live and dead trees for roosting. The bats generally forage along wooded hillsides and ridgelines. Riparian woodland exists approximately one mile north of the site along Chisholm Creek; however, based on development surrounding the site, it is unlikely that northern long-eared bats are utilizing trees on the site for roosting. Furthermore, the USFWS has developed guidelines for methods that can be utilized (seasonal clearing, surveys, etc.) during development to reduce impacts to this species. These guidelines and/or further consultation with USFWS will be

utilized in order to comply with USFWS regulations regarding the Northern long eared bat and reduce the project impacts to this species.

On November 7, 2014 Terracon sent letters the KDWP&T and the USFWS (see Attachments L-1 & L-2) requesting their review of the project regarding potential impacts to State and Federal protected species. The USFWS responded on November 21, 2014 indicating that they had no concerns or comments with the project (see Attachment M-1). KDWP&T responded on December 5, 2015 indicating there were no significant impacts to crucial wildlife habitats and mitigation measures were not required (see Attachment M-2). Based on the review of data from USFWS and KDWP&T as well as responses from the agencies, the development of the Year One Projects will not impact federal or state listed species.

7. Land Use and Zoning

The property where the Year One Projects are proposed for development is owned by WSU. The proposed development will proceed under the jurisdiction of the codes and statues of the State of Kansas. Based on review of the Wichita Sedgwick County GIS Zoning Map (see Attachment N-1), the site is not located in a historic district.

8. Solid Waste Management

Since specific tenants are not yet announced it is not possible to predict the exact types or quantities of solid waste anticipated to be produced. However, solid waste collection and disposal is handled in Wichita and Sedgwick County by various private collection and hauling companies. The primary disposal site is the Plum Thicket Landfill located in Harper County, Kansas approximately 50 miles southwest of the site. The Plum Thicket Landfill is a Subtitle D landfill permitted by the State of Kansas as a municipal solid waste landfill and is operated by Waste Connections of Kansas. Furthermore, there are several county operated solid waste landfills located in the counties adjacent to Sedgwick County that are potential alternate locations. The Year One Projects are street and parking lot construction that will not produce an ongoing generation of solid waste; therefore, the proposed Year One Projects will not have an effect on solid waste.

9. Hazardous or Toxic Substances

Based on the proposed development, toxic, hazardous or radioactive substances are not anticipated to be consumed or produced at as part of the development. As part of the operations and maintenance of the proposed expansion, typical substances associated with maintenance equipment will be utilized at the site (cleaning supplies, maintenance petroleum products, paints, etc.) as part of building maintenance and grounds upkeep. The development of engineering laboratories and other partnership operations may utilize other hazardous and/or toxic chemicals as part of their operations. These facilities will operate under required health

and safety guidelines (EPA, OSHA, etc.) as required by applicable regulations. If during the operations of these proposed facilities, spent chemicals are generated that require specialized disposal or recycling, the disposal/recycling of these chemicals will be handled in accordance with state, federal and local regulations.

Asphalt materials, concrete, pavement paint, petroleum products associated with construction equipment and various other chemicals associated with road and parking lot construction/maintenance operations will be utilized during the construction and/or maintenance of Year One Projects. State and local regulations for the use and disposal of such chemicals as well as industry BMPs during the construction and maintenance of the roadways and parking areas associated with Year One Projects will be adhered to during the project construction and maintenance. Based on the planned adherence to regulatory guidelines and BMPs regarding hazardous chemicals and toxic substances during construction and maintenance of Year One Projects, there will be no significant effects with hazardous chemicals and toxic substances.

10. Water Resources

An unnamed intermittent stream to East Fork Chisholm Creek is located on the northeastern portion of WSU Innovation Campus property and contains four man-made impoundments. Two of the impoundments are approximately 0.3 acres in size, and based on review of historical aerial photographs, appear to dry up during drought periods. One of the other two impoundments is approximately 0.5 acres in size and the second is approximately 1.0 acre in size. These two larger impoundments appear to contain surface water year round. The unnamed intermittent stream originates near a ridge line near the center of the Innovation Campus property and flows to the north. With the exception of the man-made impoundments, surface water in the unnamed intermittent stream appears to generally be absent except during and shortly after storm events. Evidence of other surface waters on the site was not identified.

A review of KDHE registered water wells through the Kansas Geological Survey Water Well Database Query indicates that five existing and one plugged domestic lawn and garden water wells are located on the site. Records for the water wells indicate that depth to first occurrence of groundwater on the site ranges from approximately 20-30 feet below ground surface. Preliminary plans indicate that potable water for the site will be provided by the City of Wichita and not through the use of groundwater wells.

Surface runoff from the site ultimately discharges into a man-made canal of Chisholm Creek located approximately 1.75 miles west of the site. The canal discharges into the Arkansas River at a location approximately 6 miles south-southwest of the site.

Based on proposed development, the area where the Year One Projects will be developed is not located on or adjacent to the onsite surface waters and will not utilize groundwater resources; therefore, the Year One Projects will not affect water resources on the site.

11. Water Supply and Distribution Systems

Potable water for the site will be provided by the City of Wichita for domestic, irrigation, and firefighting purposes. Water service needs are proposed to be met primarily by extending the water line in North Oliver Avenue and one in East 17th St. North to the East 17th St. North and North Oliver Avenue intersection and completing loops within the development. The proposed lines are sized to deliver approximately 8,000 gallons per minute (gpm) to areas throughout the site without dropping the system pressure below 20 pound per square inch (psi). Based on a City of Wichita Consumer Confidence Report for calendar year 2013 (see Attachment O-1) and information provided by City of Wichita water department, the City of Wichita obtains its water from 66 groundwater wells located in areas throughout Sedgwick County and southern Harvey County. Additionally, a two million gallon City of Wichita water tank exists on campus, approximately 500 feet north of 17th St. and ½ mile west of Oliver, near the southwest corner of the project. The streets and parking lots associated with Year One Projects will not require water supplies; therefore, they will not have an effect on water supply or distribution systems.

12. Wastewater Collection and Treatment Facilities

The City of Wichita will be providing sewer services to the site. Sewer lines are already provided to the Wichita State University and other adjacent properties on each side of the site. An eight-inch sewer crosses the western part of the site, and services facilities located adjacent north of the site (Alumni Center, Marcus Welcome Center, and Eck Stadium) as well as structures located on the southwestern portion of the site (Wheatshocker Apartments and the golf course shop building). The nearest sewer main with capacity to serve the site, is a 15 inch line that runs from E 17th St. N along Yale Ave., which serves the majority of the existing university campus, flows south across E 17th St. N and connects to this 15 inch line. The proposed project will be an addition onto that service line. The Lower Arkansas River Water Quality Reclamation Facility (LARQRF) will be the primary facility processing wastewater generated by the site/site area. This facility is designed to treat 54.4 million gallons per day (MGD) of wastewater. Mr. Jamie Belden, the City of Wichita LARQRF Operations Supervisor, indicated the facility currently treats approximately 36 million gallons per day. The streets and parking lots associated with Year One Projects will not generate waste water (sanitary sewer); therefore, they will not have an effect on waste water collection or treatment facilities.

13. Environmental Justice

The project is located in an existing Single-Family District and Multi-Family District area adjacent to the WSU Campus. Areas surrounding the site include Single Family District, Limited Commercial District, General Office District, Multi-Family District, and Two-Family District. Residential areas are located onsite and in areas surrounding the site. Areas to the north are generally separated from the site by Mike Oatman Dr. and E 21st St. N. Areas to the east of the site are separated by N Oliver Ave., and areas adjacent south of the site are separated by E

17th St. N. Areas west of the site are generally separated by Perimeter Rd. It is anticipated that future development onsite will not produce or store banned substances. Additionally, toxic substances, hazardous substances, and/or petroleum products that may be stored and/or utilized onsite will be handled according to applicable EPA guidelines. Based on the proposed use of the site as academic facilities, research facilities, residential buildings and retail structures, it is not anticipated the proposed development will have a significantly adverse impact on human health and/or environmental effects on minority and/or low-income populations.

A Phase I Environmental Site Assessment (ESA) dated October 22, 2014, was prepared by Terracon Consultants. The 2014 ESA identified Recognized Environmental Conditions (RECs) association with the site's golf course maintenance operations (see Attachment P-1). The RECs identified in the ESA were associated with the golf course maintenance facility on the southwestern portion of the site and included fuel storage and surface staining associated with maintenance chemicals (solvents, pesticides, etc.). The following recognized environmental conditions were identified by the Phase I report in connection with the site operations:

- *Potential impact to site soil and/or groundwater from a possible hydrocarbon release from the UST located adjacent east of the shop building*
- *Potential impact from the current use of solvents in the shop building*
- *Potential impact to the site soil and/or groundwater from the storage and apparent release of herbicides/pesticides in and near the shop building area*
- *Potential releases to shop floor drains due to the current use of petroleum products, solvents, and herbicides/pesticides*
- *The unknown integrity and lack of maintenance on the possible sediment clean-out located adjacent east of the shop wash bay area is considered a REC at this time.*

The area where the RECs were identified is on or adjacent to the portion of WSUIC property where the Year One Projects will be constructed. Prior to construction the potential impacts from the identified RECs will be evaluated and mitigation of impacts will be performed where necessary.

14. Transportation (Streets, Traffic and Parking)

See Attachment Q-1. This map is from the Kansas Department of Transportation web site: <http://www.ksdot.org/bureaus/burtransplan/maps/MapCountCities.asp>. It indicates 2012 traffic annual average 24-hour traffic counts for the City of Wichita and shows traffic counts for the immediate surrounding areas.

The areas adjacent northeast of the site, near the intersection of East 21st Street North and North Oliver Avenue, has a current traffic count of 15,320 vehicles per day (VPD). East 21st Street North is fed by an interchange from I-135 Hwy. I-135 Hwy is a four lane interstate

highway. East 21st Street North joins I-135 Hwy approximately 1.5 miles to the west of the site. North Oliver Avenue is fed off of K-96 Hwy (two lane highway) and US 54 Hwy (three lane highway). North Oliver Avenue is primarily fed by 96 Hwy and US 54. North Oliver Avenue joins 96 Hwy approximately 1.5 miles north of the site, and joins US 54 Hwy approximately 2.5 miles south of the site. Currently the intersection near East 17th Street North and North Oliver Avenue has a current traffic count of 6,150 VPD. It is likely that the vast majority of the traffic in the area utilizes the Wichita State University campus areas (areas adjacent west of the site).

The street improvements that are proposed for the WSUIC include construction of approximately one mile of streets on campus that will provide access to campus and the new development. One of the proposed streets is Innovation Way that will run from East 17th Street North (which borders the south side of WSU campus) northward through the new development to Mike Oatman Drive (an existing street that borders the perimeter of Tyler Field/Eck Stadium). Two east-west streets (East 18th North and East 19th North) will be constructed and these two streets will provide access to campus from North Oliver Avenue which bounds the campus to the east.

Table 2.0 Street Improvements

Intersection	New Intersection	Existing Intersection
East 17 th Street North and Innovation Way ¹	X	
East 17 th Street North and North Oliver Avenue		X
East 18 th Street North and North Oliver Avenue	X	
East 19 th Street North and North Oliver Avenue	X	
East 21 st Street North and North Oliver Avenue		X
East 17 th Street North and North Harvard Avenue		X
East 17 th Street North and Fairmount Street		X

¹ Intersection that is part of the roadways proposed for the Year One Projects

New traffic patterns will be created by construction of this project. With the addition of new intersections mentioned above, it is likely the street/road systems will adequately handle the new traffic flow and handle the proposed increase caused by the new employment. Furthermore, the proposed development of additional campus access roads and the increased parking associated with the Innovation Campus and the Year One Projects will reduce traffic congestion on the existing campus access roads.

15. Air Quality

The project area is located in an urban area within the City of Wichita, Kansas. The climate range in Wichita, Kansas generally experience cool winters and warm summers (National Climate Data Center – National Oceanic and Atmospheric Administration website). Temperatures range from -1.6°C in January to 26°C in July. The region is subject to extreme short-term and long-term variation in weather and climate.

Greenhouse gases (GHGs) are components of the atmosphere that trap heat relatively near the surface of the earth, and therefore, contribute to the greenhouse effect and global warming. Most GHGs occur naturally in the atmosphere, but increases in their concentration result from human activities such as the burning of fossil fuels. Global temperatures are expected to continue to rise as human activities continue to add carbon dioxide, methane, nitrous oxide, and other greenhouse (or heat-trapping) gases to the atmosphere. Since 1900, the Earth's average surface air temperature has increased approximately 1.2 to 1.4°F. The warmest global average temperatures on record have all occurred within the past 13 years, with the warmest year being 2005 (EPA 2012). Most of the U.S. is expected to experience an increase in average temperature. Precipitation changes, which are also very important to consider when assessing climate change effects, are the most difficult to predict. Whether or not rainfall would increase or decrease remains difficult to predict for specific regions (EPA 2012). The extent of climate change effects, and whether these effects prove harmful or beneficial, would vary by region, over time, and with the ability of different societal and environmental systems to adapt to or cope with the change. Human health, agriculture, natural ecosystems, coastal areas, and heating and cooling requirements are examples of climate-sensitive systems. Rising average temperatures are already affecting the environment. Some observed changes include shrinking of glaciers, thawing of permafrost, later freezing and earlier break-up of ice on rivers and lakes, lengthening of growing seasons, shifts in plant and animal ranges, and earlier flowering of trees (EPA 2012, IPCC 2007).

Portions of the project area are located near existing roadways within an urban area. Urban areas experience air pollution from automobiles and other modes of transportation, industry, and other related activities on a regular basis. Based on a review of information from the EPA's website, the project area is not located in a "non-attainment" area. Kansas does not contain any non-attainment areas for the following selected criteria measured by EPA: carbon monoxide, nitrogen dioxide, 1 hour ozone, 8 hour ozone, sulfur dioxide, particulate matter, and lead. The website shows no "non-attainment" areas within Sedgwick County, Kansas. Other areas of air quality concern were not identified within the project area. Furthermore, based on proposed development of the Year One Projects, activities associated with the development of the Year One Projects should not have a measurable impact on air quality.

16. Noise Pollution

The project will be located in an area generally zoned as residential (Family-District). In these areas, ambient noise is primarily attributable to traffic and/or passing vehicles, lawn mowers, and ventilation equipment. Based on EPA information, outdoor noise levels range from 35 to 70 decibels (dB) in typical rural and urban settings (EPA 1978). The site areas adjacent to and/or near major roads (E 21st St., N Oliver Ave., and E 17th St. N), are likely to have increased noise levels that fluctuate with traffic patterns and/or time of day.

Sensitive receptors are land use types that have increased sensitivity to sound. Sensitive receptors within the project area include residential properties, schools, hospitals, churches, and libraries at various locations near the project area.

Sedgwick County regulations regarding construction noise (Section 7.41.010 subsection 7) state: "Construction. The erection, including construction, excavation, demolition, alteration, or repair work, or the permitting or causing thereof, of any building or other structure, or the operation or the permitting or causing the operation of any tools, or equipment used in construction, excavation, drilling, demolition, alteration or repair work: Other than between the hours of seven a.m. and ten p.m."

Based on following Sedgwick County noise regulations identified above, the construction activities associated with Year One Projects will have minimal effect on the surrounding area during the construction activities. Furthermore, noise associated with final development of the Year One Projects is likely to be similar to the existing noise levels due to the nature of the development (drives and parking for accesses to WSU facilities) and therefore will not have a significant effect on the site area following the construction phase.

17. Permits

The engineer has listed the following as permits potentially required for the initial project development of the Year One Projects:

- A National Pollutant Discharge Elimination System (NPDES) permit. The KDHE requires such a permit since construction will effect more than 1 acre. As the responsible party, WSU will have the engineering firm apply for and obtain the required NPDES Permits.

- On the various phases of the work, the general contractors selected for the project will be required to obtain and follow building permits issued by either the State of Kansas or the City of Wichita for construction of the infrastructure and buildings.

18. Public Notification/Controversy

The community gained awareness of Innovation Campus and the Experiential Engineering building on August 15, 2014 during a community announcement held in the Rhatigan Student Center Wichita State University. President Bardo unveiled his plan for the Innovation Campus and the actions necessary to get there, including closing the Braeburn Golf Course and razing Wheatshocker Apartments. The announcement was covered by local television stations KWCH, KSN and KAKE; the Wichita Eagle and the Wichita Business Journal. Since then, the Experiential Engineering building has been discussed in three press releases and 23 news articles. There has not been a formal public hearing on the proposed development.

Wheatshocker Apartments, the building that is being razed to make way for the Experiential Engineering building (part of the Year One Projects), was in need of significant renovations that did not appear to be cost effective. The residents of this Wheatshocker Apartments were moved to better buildings on campus, made possible by the opening of WSU's new Shocker Hall, a residence hall for WSU freshman. Furthermore, a new residence hall is planned as part of the overall WSUIC development.

The announcement of the closing of Braeburn Golf Course was a nostalgic one for some community members, but the consensus has been that the project will advance Wichita State University and the community, as evidenced by two letters to the editor and an opinion column in the Wichita Eagle (published on Aug. 28, 2014; and Nov. 3, 2014 and Aug 19, 2014 respectively). A Google search and Change.org search for "Braeburn Golf Course petition" turned up no search results. Furthermore, there are five municipal golf courses and over 15 private golf courses in the Wichita area.

Constituents were initially concerned about rising student fees, but student fees will not be used for this project. To our knowledge, there has been no major public controversy or objections to the development of the WSUIC or the Year One Projects specifically.

19. Direct, Indirect and Cumulative Effects

The direct effect of the development will be to provide jobs during both construction and operations of the expanded facilities.

An indirect effect will be the expansion of resources and facilities for the university. An additional indirect effect will be provided by partnerships between university and business providing educational and work experiences for the students. Also an important indirect effect

is the potential utilization of university facilities and resources to developing or relocating business, providing information and technology that might otherwise be unavailable or not affordable.

There are no anticipated significant direct or indirect adverse effects from the WSU Innovation Campus project or the proposed Year One Projects.

The cumulative effect of this project is to provide jobs both during development and managing the facilities after construction. Providing resources and information to developing and relocating companies to grow and develop new business ventures in Wichita, and providing opportunities for students to experience their chosen industry and obtain hands-on work experience during their education are additional benefits. The potential exceeds the direct impact. The WSU Innovation Campus project is designed to provide job and economic stimulation while attracting new industry and business to Wichita.

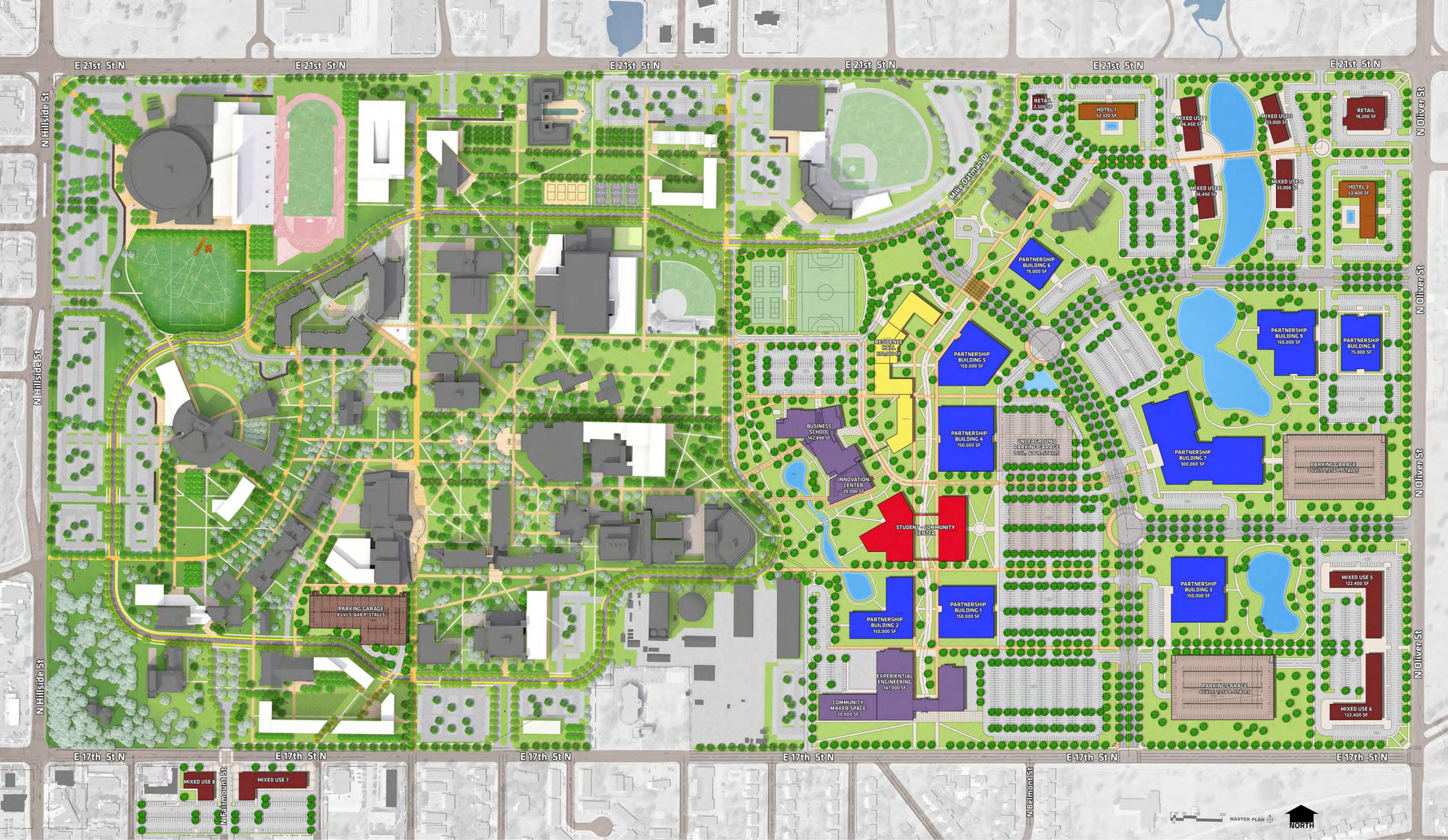
E. LIST OF ATTACHMENTS

- A-1 - Innovation Campus Master Plan
- B-1 & B- 2 - Site Diagram (2011 Aerial Photograph) and USGS Topographical Map
- C-1 – Paving Diagram
- D-1 - Letter to Kansas State Historical Society (SHPO)
- E-1 – Response Letter from Kansas State Historical Society
- F-1 – Archeological Survey Report
- G-1 – SHPO letter summarizing review of Archeological Survey report
- H-1 - Photolog of Current Site Conditions
- I-1 - National Wetland Inventory Map
- J-1 – Wetland Report
- K-1 – FEMA Map
- L-1 & L-2 - Letters to KDWPT and USFWS
- M-1 & M-2 - Response Letter from USFWS and KDWPT
- N-1 - Sedgwick County Zoning Map
- O-1 – City of Wichita Consumer Confidence Report
- P-1 - Phase I ESA Report (October 22, 2014)
- Q-1 - KDOT Traffic Map

Appendix A: Applicant Certification Clauses

Attachment A-1

Figure: Innovation Campus Master Plan



Attachment B-1 and B-2

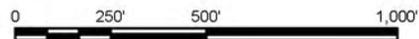
Figure B-1: Site Diagram (2011 Aerial Photograph)

Figure B-2: Topographic Map

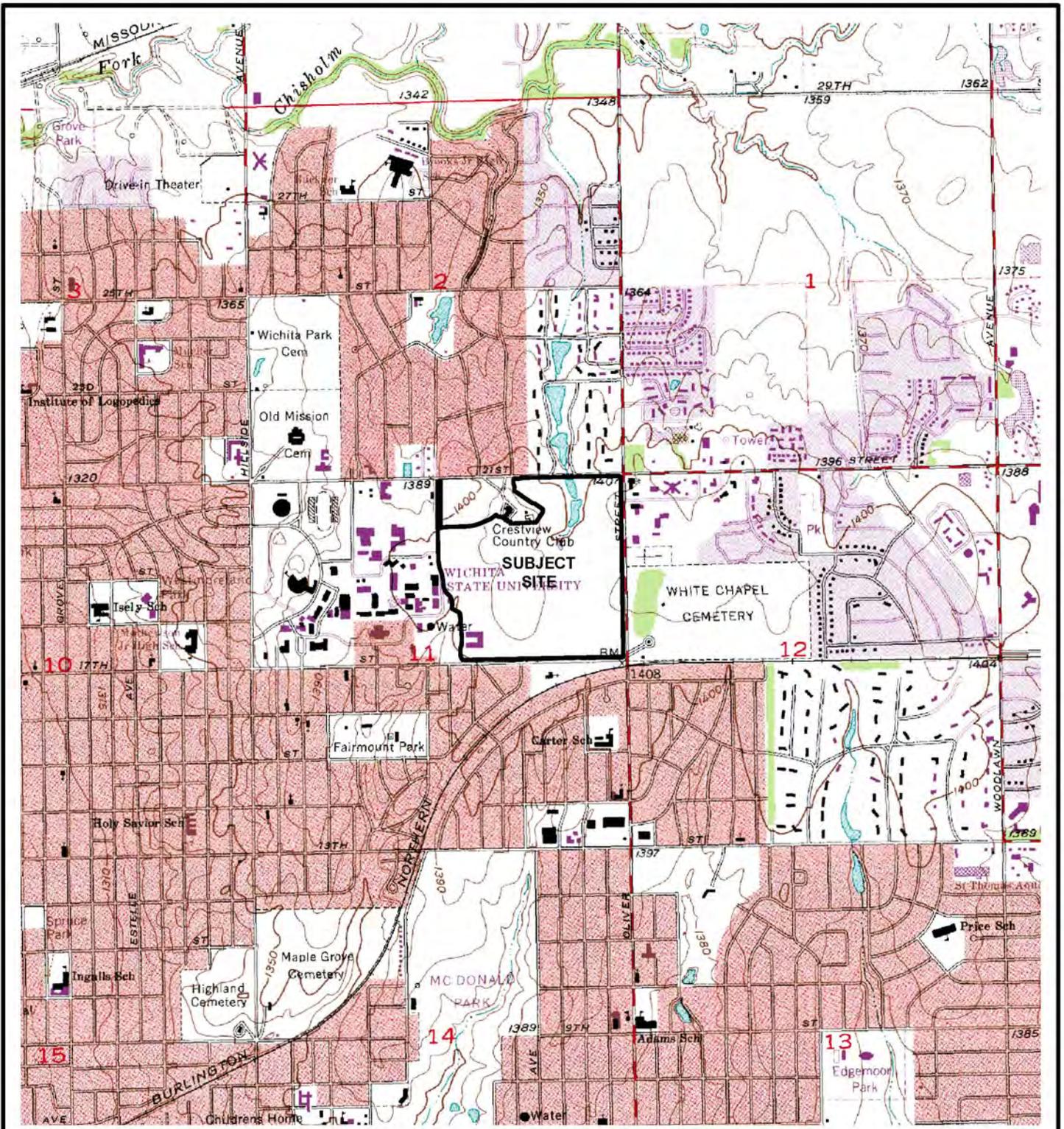


2011 AERIAL PHOTOGRAPH PROVIDED BY SEDGWICK COUNTY GEOGRAPHIC INFORMATION SERVICES.

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



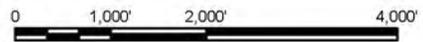
Project Mng'r: MRH	Scale: SHOWN	Terracon Consulting Engineers and Scientists 1815 South Eisenhower Wichita, Kansas 67209 Phone: (316) 262-0171 Fax: (316) 262-6997	SITE DIAGRAM	FIGURE B-1
Checked By: MRH	Date: 10/17/14		CLIENT: MKEC ENGINEERING CONSULTANTS, INC.	
Approved By: JCB	Project No: 01147766		WSU INNOVATION CAMPUS	
Drawn By: BCB	File Name: 7766F2.dwg		4201 E. 21ST STREET N. WICHITA, KANSAS 67208	



WICHITA EAST QUADRANGLE
 KANSAS - SEDGWICK COUNTY
 7.5 MINUTE SERIES (TOPOGRAPHIC)
 1961 - PHOTO REVISED IN 1982

APPROXIMATE NE/4
 OF SECTION 11, TOWNSHIP 27
 SOUTH, RANGE 1 EAST.

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



Project Mngr:	MRH
Checked By:	MRH
Approved By:	JCB
Drawn By:	BCB

Scale:	SHOWN
Date:	10/17/14
Project No:	01147766
File Name:	7766F1.dwg

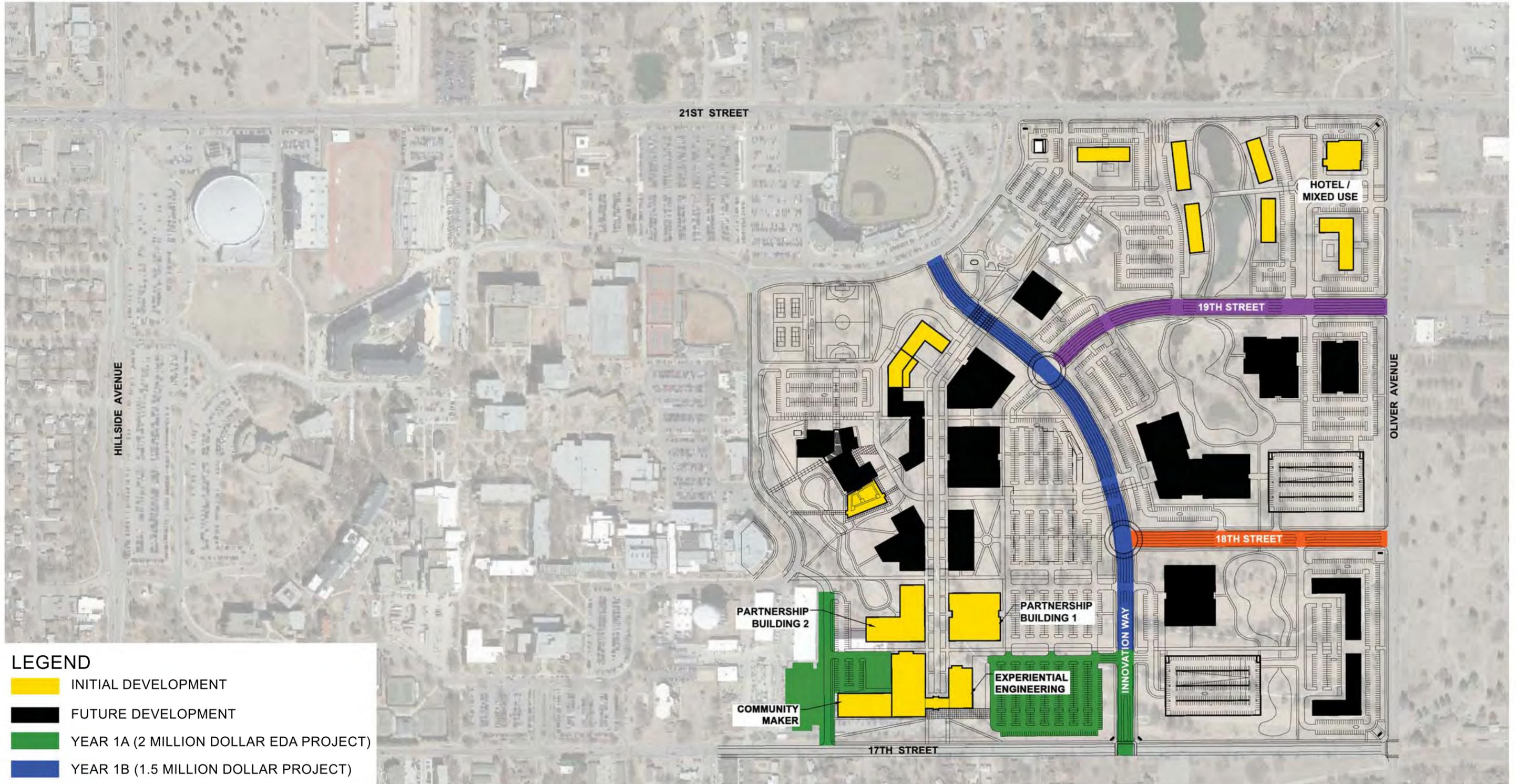
Terracon
 Consulting Engineers and Scientists
 1815 South Eisenhower Wichita, Kansas 67209
 Phone: (316) 262-0171 Fax: (316) 262-6997

TOPOGRAPHIC MAP
 CLIENT: MKEC ENGINEERING CONSULTANTS, INC.
WSU INNOVATION CAMPUS
 4201 E. 21ST STREET N.
 WICHITA, KANSAS 67208

FIGURE
 B-2

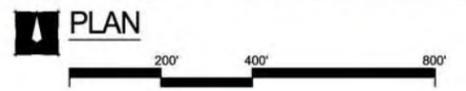
Attachment C-1

Paving Diagram



LEGEND

- INITIAL DEVELOPMENT
- FUTURE DEVELOPMENT
- YEAR 1A (2 MILLION DOLLAR EDA PROJECT)
- YEAR 1B (1.5 MILLION DOLLAR PROJECT)
- YEAR 2
- YEAR 3+



PAVING DIAGRAM

WSU INNOVATION CAMPUS

12.02.2014

Attachment D-1

Letter to Kansas State Historical Society (SHPO)



November 7, 2014

Ms. Jennie Chinn
Kansas State Historical Society
Research Center and Museum
6425 SW 6th Avenue
Topeka, Kansas 66615

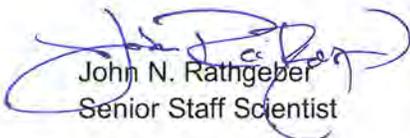
Re: Environmental Review of the Proposed WSU Innovation Campus Project
1845 Fairmount
Wichita, Sedgwick County, Kansas
Terracon Project No. 01147093

Dear Ms. Chinn:

We are submitting this letter on behalf of MKEC Engineering Consultants, Inc. (our client) regarding the redevelopment of the Wichita State University (WSU) golf course. This project is being referred to as WSU Innovation Campus and the proposed development includes the construction of multiple buildings on the existing portion of the campus that currently is developed as a golf course. The project site is adjacent to and contiguous with the existing developed portion of WSU campus, and the project boundaries are shown on the enclosed Figures 1 and 2 (topographic map and 2011 aerial image respectively). Also enclosed is the client provided proposed development depicted on figure labeled: Innovation University Master Plan – Option 3.

We are assisting our client with the development of a narrative review report for a grant application under the U.S. Economic Development Administration (EDA), and the EDA guidelines for this report includes consultation with state and federal wildlife agencies regarding potential impact to protected species from project activities. Therefore, we respectfully request the Kansas State Historic Society's review of the project regarding potential impacts cultural or historic resources and provide an opinion and/or recommendations as appropriate. If you have any questions concerning the site or require additional information I can be contacted at (316) 448-3985 or email at jnrathgerber@terracon.com.

Sincerely,
Terracon Consultants, Inc.


John N. Rathgeber
Senior Staff Scientist


James C. Bruggeman
Due Diligence Department Manager

Enclosure: Figure 1, Figure 2 and University Master Plan – Option 3



Terracon Consultants, Inc. 1815 South Eisenhower Wichita, Kansas 67209
P [316] 262-0171 F [316] 262-6997 Terracon.com

Environmental



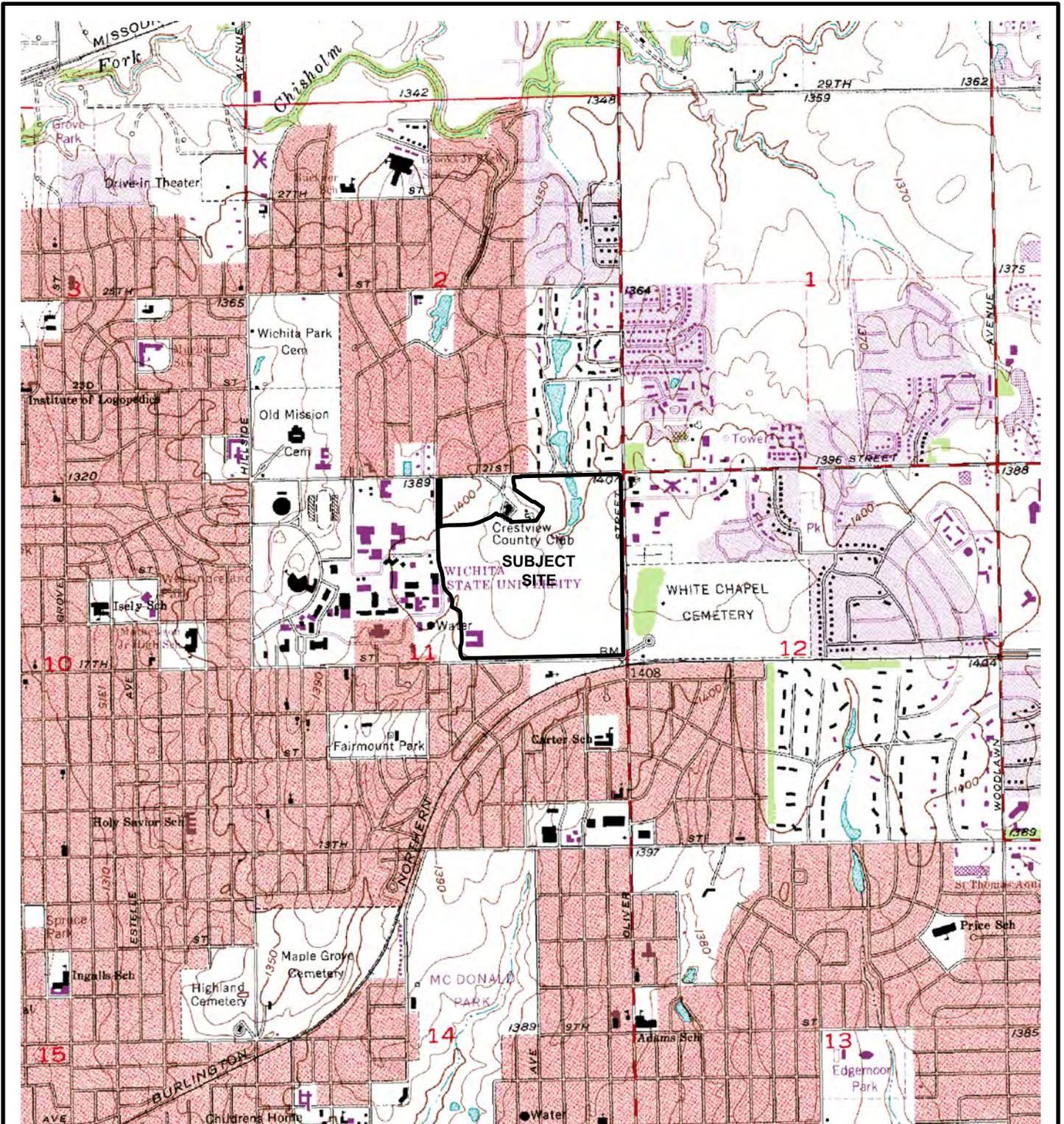
Facilities



Geotechnical



Materials



WICHITA EAST QUADRANGLE
 KANSAS - SEDGWICK COUNTY
 7.5 MINUTE SERIES (TOPOGRAPHIC)
 1961 - PHOTO REVISED IN 1982

APPROXIMATE NE/4
 OF SECTION 11, TOWNSHIP 27
 SOUTH, RANGE 1 EAST.

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

Project Mngr:	MRH
Checked By:	MRH
Approved By:	JCB
Drawn By:	BCB

Scale:	SHOWN
Date:	10/17/14
Project No:	01147766
File Name:	7766F1.dwg

Terracon
 Consulting Engineers and Scientists
 1815 South Eisenhower Wichita, Kansas 67209
 Phone: (316) 262-0171 Fax: (316) 262-6997

TOPOGRAPHIC MAP
 CLIENT: MKEC ENGINEERING CONSULTANTS, INC.
WSU INNOVATION CAMPUS
 4201 E. 21ST STREET N.
 WICHITA, KANSAS 67208

FIGURE
1



2011 AERIAL PHOTOGRAPH PROVIDED BY SEDGWICK COUNTY GEOGRAPHIC INFORMATION SERVICES.

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



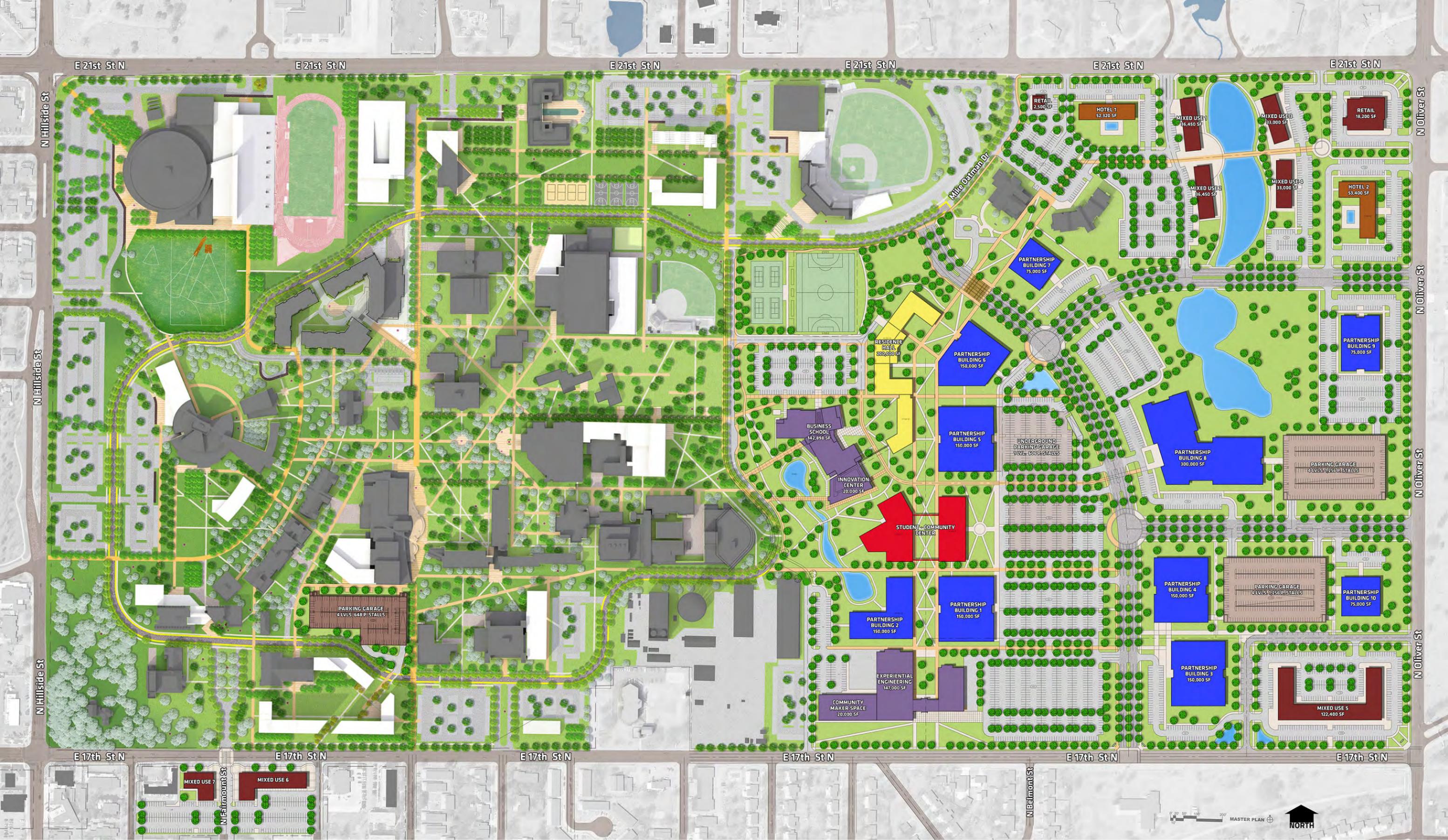
Project Mngr:	MRH
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Approved By:	JCB
Drawn By:	BCB

Scale:	SHOWN
Date:	10/17/14
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File Name:	7766F2.dwg

Terracon
 Consulting Engineers and Scientists
 1815 South Eisenhower Wichita, Kansas 67209
 Phone: (316) 262-0171 Fax: (316) 262-6997

SITE DIAGRAM
 CLIENT: MKEC ENGINEERING CONSULTANTS, INC.
WSU INNOVATION CAMPUS
 4201 E. 21ST STREET N.
 WICHITA, KANSAS 67208

FIGURE
2



Attachment E-1

Response Letter from Kansas State Historical Society



Kansas Historical Society

Sam Brownback, Governor
Jennie Chinn, Executive Director

KSR&C No. 14-11-067

November 18, 2014

John Rathgeber
Terracon Consultants, Inc.
1815 S. Eisenhower
Wichita, KS 67209

Via E-Mail

RE: Innovation Campus
Wichita State University
Sedgwick County

Dear Mr. Rathgeber:

In accordance with 36 CFR 800, the Kansas State Historic Preservation Office has reviewed your letter dated November 12, 2014, describing plans for the above-referenced project. The proposed innovation campus, currently developed as a golf course, is situated in an upland setting adjacent to the existing Wichita State University campus. According to our records, there are no prehistoric or historic archeological sites within the property's boundaries. However, the upper reaches of the Chisholm Creek drainage are located ca. 1 mile to the north, suggesting moderate potential for unrecorded archeological sites. A professional archeologist should therefore survey the project area prior to beginning construction.

Any archeologist meeting the Minimum Professional Qualifications of this office as outlined in *The State Historic Preservation Officer's Guide For Archeological Survey, Assessment, and Reports* (SHPO's Guide), is eligible to perform the requested work. A list of archeological contractors meeting these standards is available from our web site at: <http://www.kshs.org/p/archeological-consultants/14593>.

This information is provided at your request to assist you in identifying historic properties, as specified in 36 CFR 800 for Section 106 consultation procedures. If you have questions or need additional information regarding these comments, please contact Tim Weston at 785-272-8681 (ext. 214) or Patrick Zollner at 785-272-8681 ext. 217. Please refer to the Kansas Review & Compliance number (KSR&C#) above on all future correspondence relating to this project.

Sincerely,

Jennie Chinn
Executive Director and
State Historic Preservation Officer

Patrick Zollner
Deputy State Historic Preservation Officer

Attachment F-1

Archeological Survey Report

Archeological Investigations of Proposed Innovation Campus, Wichita State University

to be located in the
NE/4, S11, T27S, R1E
Sedgwick County, Kansas

KSR&C No. 14-11-067

Total Area of Study: 127 acres
Date of Investigation: December 15, 16, and 17, 2014
Time on Location: 96

January 2, 2015

Office of the Wichita City Archeologist
Department of Anthropology
Wichita State University
Wichita, Kansas 67260-0052

By: David T. Hughes, Ph.D.
Sheila J. Hauser, City Archeologist

For: Eric King
Director of Facilities Planning
Office of the Vice President for Administration and Finance
Wichita State University
1845 Fairmount St., Wichita, KS 67260-0047
Office: 316.978.3106
eric.king@wichita.edu

EXECUTIVE SUMMARY AND ABSTRACT

An intensive archeological investigation of about 128 acres in the NE 1/4 of Section 11, Township 27 South, Range 1 East for the proposed WSU Innovation Campus development for Wichita State University was conducted from December 15 through December 17 by David T. Hughes of the Department of Anthropology and staff of the Office of the Wichita City Archeologist at WSU. There are no previously recorded archeological sites within the review buffer. No buildings are shown on the GLO maps within or near the planned actions. No properties within the area of the proposed development are listed on the National Register of Historic Places (NRHP). Ground disturbance will be significant overall as the property will be reconfigured from a public golf course to parking, classroom, and commercial facilities for the proposed Innovation Campus. No archeological sites were found in the area of proposed development. The 1943 and 1961 Wichita East Quadrangle maps prepared by the USGS show several buildings in the development area, but none of those are standing today. The 1867 General Land Office map of the area shows one trail passing about a mile north of the development area. The proposed development area, now the Braeburn Golf Course, was first developed in 1921 as a public golf course and has been remodeled several times in the past 90 years. As such, the ground surface is largely a constructed feature with significant removal, addition, and remodeling of the surface sediments to suit the purpose of the golf course. The probability of undisturbed cultural deposits within the upper one meter of soil is extremely low. This investigation was such that had cultural resources or archeological sites existed in the area of proposed development they would have been found. None were found. We therefore recommend that Wichita State University, its subcontractors and licensees be allowed to proceed with their planned action at this location without further concern for archeological or historical properties.

INTRODUCTION

Following a requested review of the Innovation Campus Project by the Kansas State Historical Society (Appendix 1), Wichita State University requested a cultural resources study for the proposed Innovation Campus to be developed in the NE 1/4, S11, T27S, R1E in Sedgwick County, Kansas (Appendix 2, Map 1). The project involves completely remodeling the existing Braeburn Golf Course into a new development of educational, commercial, and related facilities (see Page 4 of Appendix 1). The area of development is approximately 127 acres and includes a small, ephemeral, upland stream in the eastern part of the project. To provide information for compliance with Section 106 of the National Historic Preservation Act and other requirements pursuant to the approval of applications for permits for the project, Wichita State University asked that the Office of the Wichita City Archeologist, a WSU funded operation, conduct a cultural resources study of the proposed development in accordance with Kansas Historical Society guidelines.

BACKGROUND

The project site is located on the headwaters of an ephemeral stream that flows North about 2 km to join the East Fork of Chisholm Creek. To insure compliance with the State of Kansas State Historic Preservation Officer (SHPO) standards, and the Secretary of the Interior's Standards and Guidelines for Archeology and Historic Preservation (48 FR 44716), a complete and thorough cultural resources survey

with shovel tests was conducted of the proposed development. Historic maps were examined for possible historic structures, trails, or cultural features within the development area.

Elevation on the development varies from 429 meters above mean sea level in the Southeast corner of the development to about 424 meters on the Northeast margin. The terrain slopes from south to north with an improved drainage or stream in the Northeast quarter of the study area. Geology is undifferentiated Holocene and Pleistocene Sediments on a relatively high hill south of the East Fork of Chisholm Creek. Soil on the proposed development is Farnum loam with Loam or Clay Loam in the upper 60 inches of the soil column. The area is in the Wellington-McPherson Lowland of the Central Great Plains adjacent to the Arkansas River Lowlands. This location is in the Tall Grass Prairies.

Field investigation was conducted on December 15, 16, and 17, 2014 under the supervision of David T. Hughes, Associate Professor of Anthropology and Sheila J. Hauser, Wichita City Archeologist. Three student assistants, Emily Jones, Rowena Butner, and Brandalyn McCarter, joined Ms. Hauser for the 3 days of field investigations. An additional undergraduate student volunteer, Jason Leonard, participated in the first day's work. They spent approximately 8 hours performing a pedestrian survey of the area then 16 hours digging 44 shovel test pits. At the time of field study the temperature was cold and cloudy with a stiff Northerly wind. Surface conditions were varied, the area of the survey was a golf course and therefore there were varying depths of vegetation over the entire surface, although plantings and margins of developed fairways and greens did offer some surface soil exposure. Field procedures included walking parallel traverses across the course with intervals of 30 meters between surveyors covering the entire area. Forty-Four shovel test pits (STPs) were dug in the roughs and around the natural water ways on the golf course. STPs are informal hand-dug excavations approximately 30 cm deep and 30 cm across. All soil from the STPs was screened through $\frac{1}{4}$ in hardware cloth before being returned to the holes. The soils were a clay-loam mixture that passed through the screen. All artifacts and bones were noted. There was also a fire hole in the southeastern part of the development area, dug previously dug to a depth of 1.6 meters, which provided an opportunity to examine deeper sediments and disturbances. Records are kept of depth to soil changes and the nature of the soils encountered. If any artifacts, animal bone, charcoal, or other possible cultural materials are found, those are noted. The location of the STPs is shown in the map in Appendix 1, Map 2.

Because of the extensive and intensive surface remodeling on the Braeburn Golf Course, determining where shovel test pits could be placed to greatest effect was a problem in surface analysis. A detailed contour map of the project area was prepared from the 3 meter digital elevation models (DEM) provided by the U.S.G.S. That map was then compared to the ground features and note was taken of obvious areas of artificially elevated areas and reduced areas. The central portion along the major north to south fairways appears to have been extensively, if subtly, changed. The best opportunity for relatively undisturbed soils in the proposed development area was determined by topographic analysis to be in the South-central and Northeast parts of the golf course. Even so, some of the STPs produced golf balls from depths as great as 25cm. The air photo of Appendix 1, Map 2 shows the shovel test pits and a 1 meter contour map of the project area. The actual map used for analyzing the surface was a constructed 25cm map which cannot be published in this format. The major features involved are still apparent at the 1m contour interval.

CULTURE HISTORY

The prehistory of Sedgwick County is not significantly different from other parts of the Southern Plains. The first people into the region, the ancestors of the modern Native Americans, arrived more than 10,000 years ago and were hunters of big game and foragers for plant foods and small game. With the climate change at the end of the Pleistocene, the people began to focus more on intensive foraging and that change appears as a greater variety of material culture and more archeological sites representing longer periods of occupation. At some point in the past 2,000 years the local people began to experiment with domesticated and semi-domesticated plants and acquired the skills to make ceramic pots and bows-and-arrows.

This part of Sedgwick County, and much of the Arkansas River basin, was the home of the Wichita people, now represented by the Wichita and Affiliated Tribes of Oklahoma. The proto-Wichita populations of Central Kansas are often thought to be reflected by the Great Bend aspect (Blakeslee n.d.). The Wichita began to leave the Arkansas valley of Kansas in the mid 18th century in response to “the eighteenth-century maelstrom in the Plains” (J. Hughes 1967:30) and scattering southward to the Red, Sabine, Trinity, and Brazos rivers. Some of the Wichita returned to the Arkansas River in Kansas, specifically the mouth of the Little Arkansas River, during the Civil War to escape hostilities in Oklahoma. As the Wichita left the area, the Osage (now the Osage Nation and related peoples of Oklahoma) entered south central Kansas. The Osage occupied the region around the city of Wichita until 1865 when a treaty with the United States resulted in sale of the land to establish a trust for the Osage. The confluence of the Little Arkansas River with the Arkansas River (about 4 miles east of the Innovation Campus development) is recognized as important well into the historic period because of the hard-bottom crossing of the Arkansas at that point. A set of treaties signed between the United States of America and the Kiowa, Comanche, Plains Apache, Southern Cheyenne, and Southern Arapaho were negotiated near the mouth of the Little Arkansas River, Kansas in October 1865. The treaties were never ratified and so had little effect on subsequent developments.

The city of Wichita, Kansas was founded in 1870 near the mouth of the Little Arkansas River and rapidly grew as a terminal for Texas cattle drives and eventually a rail head. Fairmount College (the ancestor of Wichita State University) was founded in 1886 and began offering classes in 1895. It was the Municipal University of Wichita from 1926 to 1964 when it became Wichita State University. In 1966 Wichita State University began negotiating with Crestview Country Club for the purchase of the golf course and the purchase was finalized in 1969. In 1993 the WSU Golf Course was renamed Braeburn. In 2001 the golf course completed a major overhaul to reopen in late July of that year¹.

OBSERVATIONS & FINDINGS

The Kansas Historical Society makes their site files available on-line to qualified researchers. Search of KSHS site files on December 12, 2014, showed no archeological sites within the boundaries

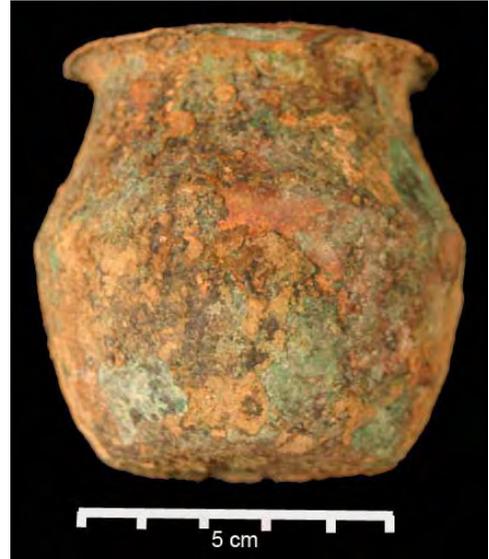
¹ This information derived from
<http://ksn.com/2014/08/19/wichita-states-braeburn-golf-course-to-close-in-late-2014/>

of the proposed Innovation Campus development. Review of the National Register of Historic Places indicated no NRHP properties within the APE. No previous archeological studies have been conducted within the APE. The Coryelle and Bowles survey of 1867 for T27S R1E shows no structures or roads in the section although there is a trail north of the development area (see Appendix 2, Map 3).

A total of 44 shovel test pits was dug within the area of the project in an effort to identify buried deposits of cultural significance. Details of the observations for each of these are included in the table in Appendix 3. No prehistoric artifacts or cultural materials were found in any of the shovel test pits. An isolated historic artifact, a small copper vessel like a miniature urn, was found in Shovel Test #35, near the headwaters of the golf course improved pond. There are no inscriptions or engravings or any other indication of what the small vessel was used for and there were no other artifacts in the vicinity to provide any context. The extensive oxidation suggests it may be more than 50 years old. We continue to seek information about this object.

The only other materials recovered from the shovel test pits were the occasional golf ball.

Figure 1: Small copper vessel from STP#35.



SUMMARY, CONCLUSIONS, and RECOMMENDATIONS

The cultural resources study reported here was designed to meet the criteria established by the Secretary of the Interior and the Kansas Historical Society. No archeological sites, historical properties, or other cultural sites were found during the study. The proposed development will have no effect on archeological sites which can be identified by these means. I recommend that there will be no effect on archeological or historic properties if Hayden Tower Service, Inc. is allowed to proceed with their project as planned.

A handwritten signature in cursive script that reads "David T. Hughes". The signature is written in black ink on a light-colored background.

David T. Hughes, Ph.D.

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APPENDICES

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Appendix 3: Table of Shovel Test Pit Data	19
Appendix 4: Curriculum Vitae of David T. Hughes	22

Appendix I: Correspondence related to the project

November 7, 2014

Ms. Jennie Chinn
Kansas State Historical Society
Research Center and Museum
6425 SW 6th Avenue
Topeka, Kansas 66615

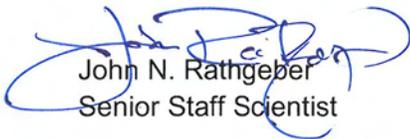
Re: Environmental Review of the Proposed WSU Innovation Campus Project
1845 Fairmount
Wichita, Sedgwick County, Kansas
Terracon Project No. 01147093

Dear Ms. Chinn:

We are submitting this letter on behalf of MKEC Engineering Consultants, Inc. (our client) regarding the redevelopment of the Wichita State University (WSU) golf course. This project is being referred to as WSU Innovation Campus and the proposed development includes the construction of multiple buildings on the existing portion of the campus that currently is developed as a golf course. The project site is adjacent to and contiguous with the existing developed portion of WSU campus, and the project boundaries are shown on the enclosed Figures 1 and 2 (topographic map and 2011 aerial image respectively). Also enclosed is the client provided proposed development depicted on figure labeled: Innovation University Master Plan – Option 3.

We are assisting our client with the development of a narrative review report for a grant application under the U.S. Economic Development Administration (EDA), and the EDA guidelines for this report includes consultation with state and federal wildlife agencies regarding potential impact to protected species from project activities. Therefore, we respectfully request the Kansas State Historic Society's review of the project regarding potential impacts cultural or historic resources and provide an opinion and/or recommendations as appropriate. If you have any questions concerning the site or require additional information I can be contacted at (316) 448-3985 or email at jnrathgeber@terracon.com.

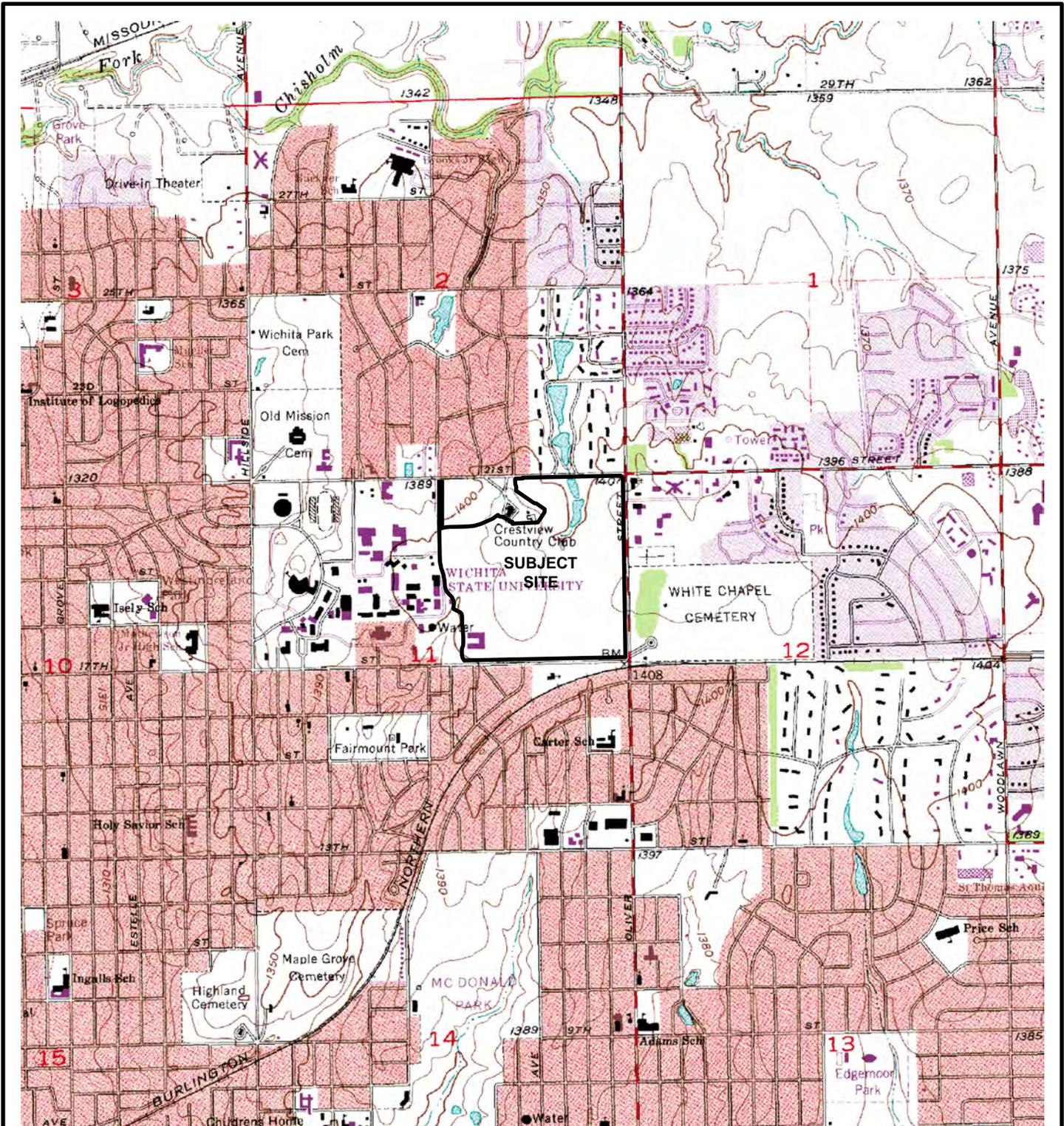
Sincerely,
Terracon Consultants, Inc.


John N. Rathgeber
Senior Staff Scientist


James C. Bruggeman
Due Diligence Department Manager

Enclosure: Figure 1, Figure 2 and University Master Plan – Option 3

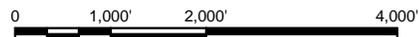




WICHITA EAST QUADRANGLE
 KANSAS - SEDGWICK COUNTY
 7.5 MINUTE SERIES (TOPOGRAPHIC)
 1961 - PHOTO REVISED IN 1982

APPROXIMATE NE/4
 OF SECTION 11, TOWNSHIP 27
 SOUTH, RANGE 1 EAST.

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



Project Mngr:	MRH
Checked By:	MRH
Approved By:	JCB
Drawn By:	BCB

Scale:	SHOWN
Date:	10/17/14
Project No:	01147766
File Name:	7766F1.dwg

Terracon
 Consulting Engineers and Scientists
 1815 South Eisenhower Wichita, Kansas 67209
 Phone: (316) 262-0171 Fax: (316) 262-6997

TOPOGRAPHIC MAP
 CLIENT: MKEC ENGINEERING CONSULTANTS, INC.
WSU INNOVATION CAMPUS
 4201 E. 21ST STREET N.
 WICHITA, KANSAS 67208

FIGURE
1



2011 AERIAL PHOTOGRAPH PROVIDED BY SEDGWICK COUNTY GEOGRAPHIC INFORMATION SERVICES.

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

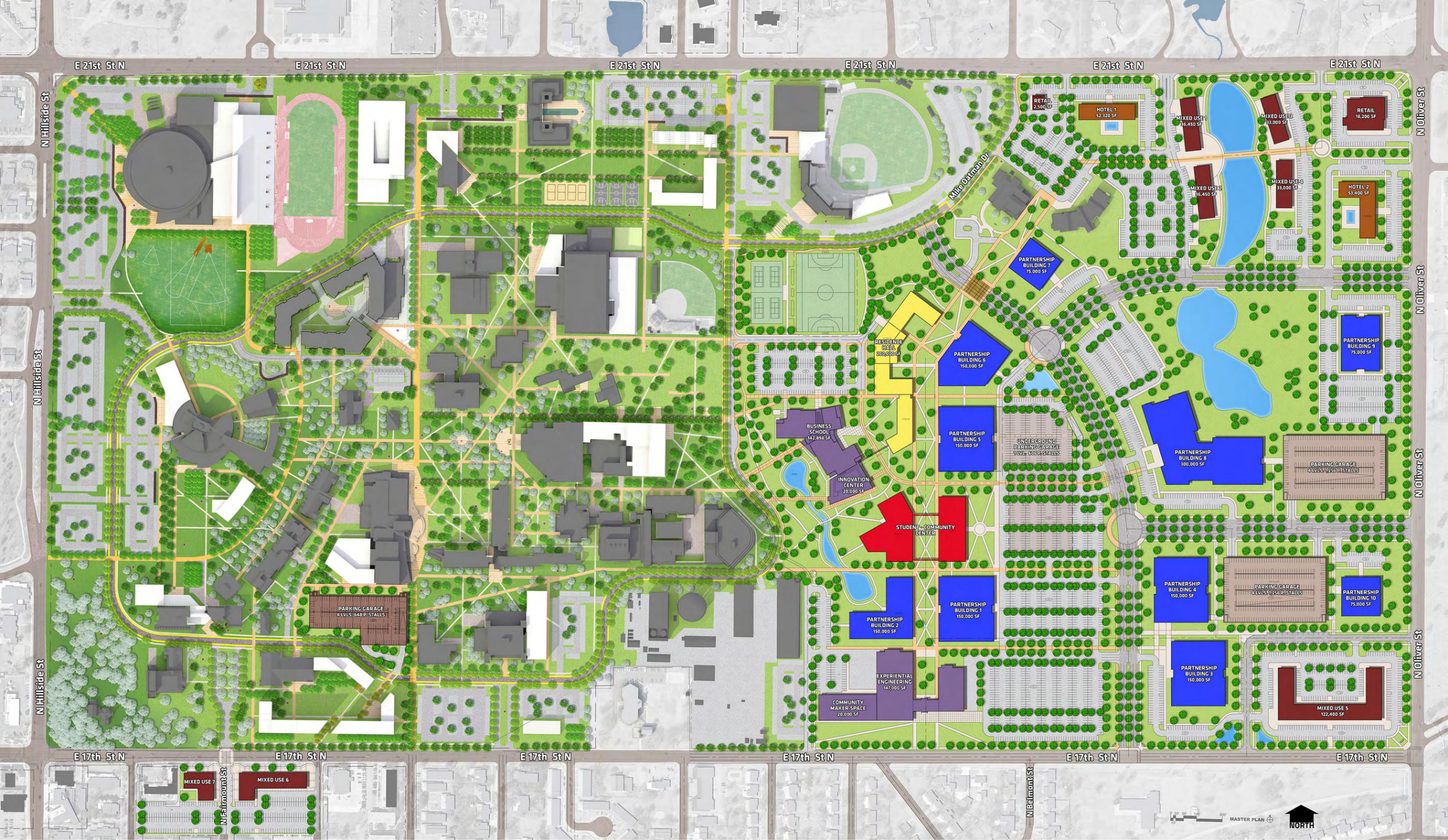


Project Mngr:	MRH	Scale:	SHOWN
Checked By:	MRH	Date:	10/17/14
Approved By:	JCB	Project No.:	01147766
Drawn By:	BCB	File Name:	7766F2.dwg

Terracon
 Consulting Engineers and Scientists
 1815 South Eisenhower Wichita, Kansas 67209
 Phone: (316) 262-0171 Fax: (316) 262-6997

SITE DIAGRAM
 CLIENT: MKEC ENGINEERING CONSULTANTS, INC.
WSU INNOVATION CAMPUS
 4201 E. 21ST STREET N.
 WICHITA, KANSAS 67208

FIGURE
 2





Kansas Historical Society

Sam Brownback, Governor
Jennie Chinn, Executive Director

KSR&C No. 14-11-067

November 18, 2014

John Rathgeber
Terracon Consultants, Inc.
1815 S. Eisenhower
Wichita, KS 67209

Via E-Mail

RE: Innovation Campus
Wichita State University
Sedgwick County

Dear Mr. Rathgeber:

In accordance with 36 CFR 800, the Kansas State Historic Preservation Office has reviewed your letter dated November 12, 2014, describing plans for the above-referenced project. The proposed innovation campus, currently developed as a golf course, is situated in an upland setting adjacent to the existing Wichita State University campus. According to our records, there are no prehistoric or historic archeological sites within the property's boundaries. However, the upper reaches of the Chisholm Creek drainage are located ca. 1 mile to the north, suggesting moderate potential for unrecorded archeological sites. A professional archeologist should therefore survey the project area prior to beginning construction.

Any archeologist meeting the Minimum Professional Qualifications of this office as outlined in *The State Historic Preservation Officer's Guide For Archeological Survey, Assessment, and Reports* (SHPO's Guide), is eligible to perform the requested work. A list of archeological contractors meeting these standards is available from our web site at: <http://www.kshs.org/p/archeological-consultants/14593>.

This information is provided at your request to assist you in identifying historic properties, as specified in 36 CFR 800 for Section 106 consultation procedures. If you have questions or need additional information regarding these comments, please contact Tim Weston at 785-272-8681 (ext. 214) or Patrick Zollner at 785-272-8681 ext. 217. Please refer to the Kansas Review & Compliance number (KSR&C#) above on all future correspondence relating to this project.

Sincerely,

Jennie Chinn
Executive Director and
State Historic Preservation Officer

Patrick Zollner
Deputy State Historic Preservation Officer

Appendix 2: Project Maps

Map 2: Air photo of project area showing distribution of shovel tests.

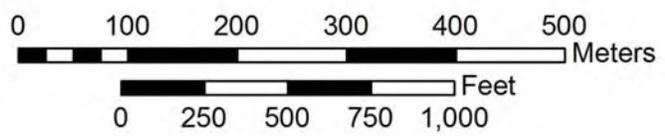
Innovation Campus Distribution of Shovel Test Pits



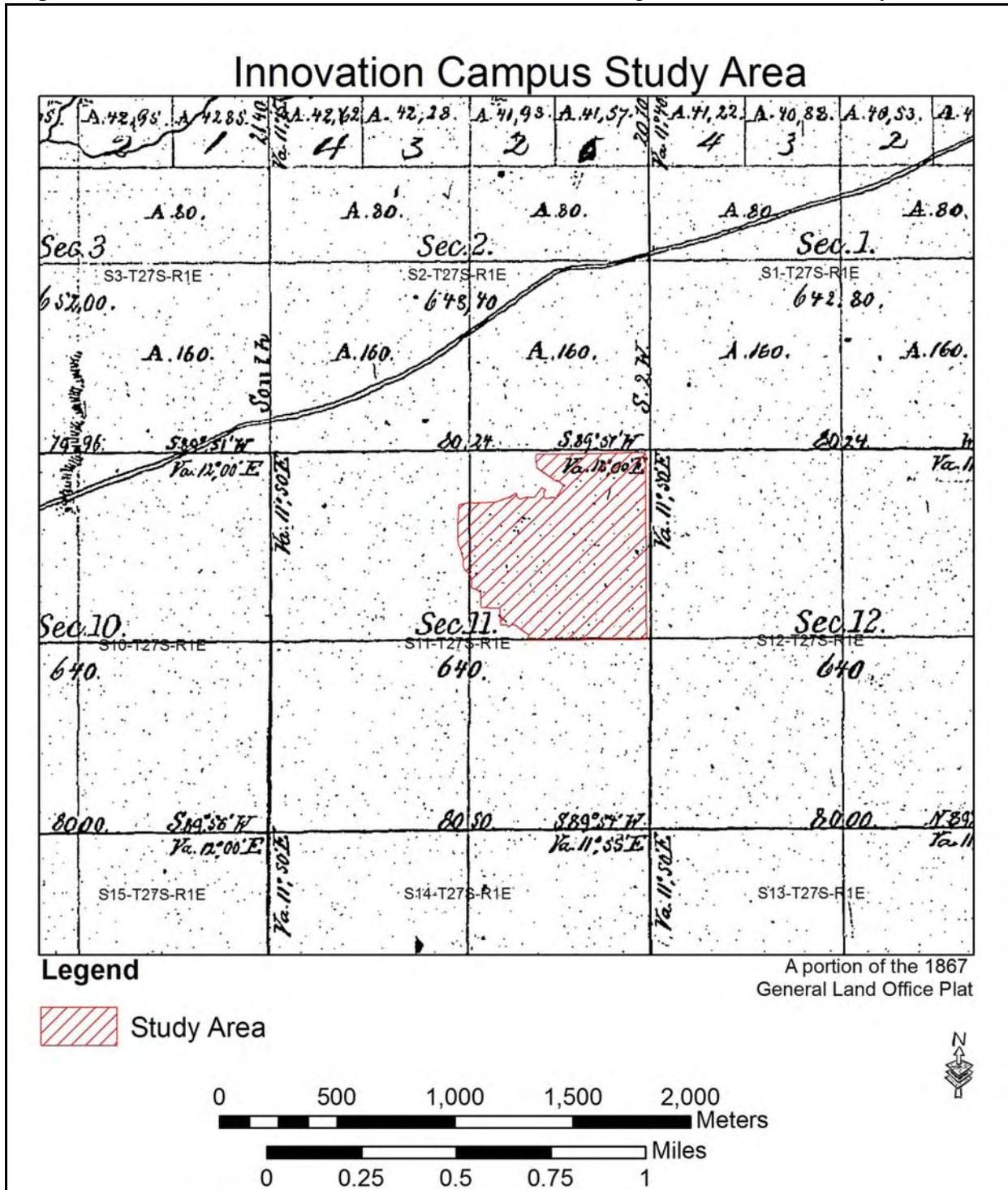
2011 Air Photo of NE 1/4, Sec 11, T27S, R1E
Photo from the Sedgwick County GIS web source.

Legend

- Shovel Test Pit
- 1 meter contour
- Study Area



Map 3: Portion of the 1867 General Land Office Plat showing the location of the study area.



Appendix 3: Table of Shovel Test Pit Data

STP Num	UTM Coord	Findings	Soil_Type
1	4175871N 651178E	Negative	Fine , Clay-medium stiff, Dark Grey
2	4175934N 651184E	Negative	Fine , Clay-medium stiff, Dark Grey
3	4175963N 651185E	Negative	Fine , Clay-medium stiff, Dark Grey
4	4175958N 651375E	Negative	Sand-Fine, Clay-medium stiff, Dark Grey
5	4175954N 651389E	Negative	Sand-Fine, Clay-medium stiff, Dark Grey
6	4175859N 651152E	Negative	Sand-Fine, Clay-medium stiff, Dark Grey
7	4175868N 651144E	Negative	Fine , Clay-medium stiff, Dark Grey
8	4175894N 651145E	Negative	Fine , Clay-medium stiff, Dark Grey
0	4175938N 651125E	Negative	Fine , Clay-medium stiff, Dark Grey
10	4175957N 651122E	Negative	Fine , Clay-medium stiff, Dark Grey
11	4175973N 651114E	Negative	Sand-Fine, Clay-medium stiff, Dark Grey
12	4716220N 651295E	Golf Ball	Sand-Medium, Clay-medium stiff, Dark Grey
13	4176276N 651332E	Glass	Sand-Medium, Clay-medium stiff, Dark Grey
14	4176251N 651328E	Negative	Sand-Medium, Clay-medium stiff, Dark Grey
15	4176391N 651329E	Negative	Sand-Medium, Clay-medium stiff, Dark Grey

STP Num	UTM Coord	Findings	Soil_Type
16	4176198N 651277E	Negative	Sand-Fine, Clay-medium stiff, Dark Grey
17	4176131N 651265E	Negative	Sand-Fine, Clay-medium stiff, Dark Grey
18	4176134N 651279E	Golf Ball	Sand-Fine, Clay-medium stiff, Dark Grey
19	4176144N 651235E	Negative	Sand-Fine, Clay-medium stiff, Dark Grey
20	4176119N 651364E	Negative	Sand-Fine, Clay-medium stiff, Dark Grey
21	4176114N 651319E	Golf Ball	Sand-Fine, Clay-medium stiff, Dark Grey
22	4175937N 651199E	Negative	Fine , Clay-medium stiff, Dark Grey
23	4175908N 651282E	Negative	Fine , Clay-medium stiff, Dark Grey
24	4175897N 651299E	Negative	Fine , Clay-medium stiff, Dark Grey
25	4175885N 651330E	Negative	Fine , Clay-medium stiff, Dark Grey
26	4175944N 651378E	Negative	Sand-Fine, Clay-medium stiff, Dark Grey
27	4175898N 651362E	Negative	Sand-Fine, Clay-medium stiff, Dark Grey
28	4175805N 651098E	Negative	Fine , Clay-medium stiff, Dark Grey
29	4175801N 651088E	Negative	Fine , Clay-medium stiff, Dark Grey
30	4175804N 651060E	Negative	Sand-Fine, Clay-medium stiff, Dark Grey
31	4175928N 651104E	Negative	Sand-Fine, Clay-medium stiff, Dark Grey
32	4175954N 651111E	Negative	Sand-Fine, Clay-medium stiff, Dark Grey
33	4175974N 651103E	Negative	Sand-Fine, Clay-medium stiff, Dark Grey
34	4175998N 651101E	Negative	Fine , Clay-medium stiff, Dark Grey
35	4176222N 651288E	Copper Urn, Golf Ball	Sand-Medium, Clay-medium stiff, Dark Grey

STP Num	UTM Coord	Findings	Soil_Type
36	4176251N 651280E	Nothing	Sand-Fine, Clay-medium stiff, Dark Grey
37	4176316N 651293E	Bottle Glass	Sand-Fine, Clay-medium stiff, Dark Grey
38	4176354N 651265E	Broken Pebbles	Sand-Fine, Clay-medium stiff, Dark Grey
39	4176203N 651264E	Negative	Sand-Medium, Clay-medium stiff, Dark Grey
40	4176132N 651239E	Golf Ball	Sand-Medium, Clay-medium stiff, Dark Grey
41	4716107N 651252E	Broken Pebbles	Sand-Fine, Clay-medium stiff, Dark Grey
42	4176115N 651261E	Negative	Sand-Fine, Clay-medium stiff, Dark Grey
43	4176072N 651218E	Negative	Sand-Fine, Clay-medium stiff, Dark Grey
44	4176108N 651297E	Negative	Sand-Fine, Clay-medium stiff, Dark Grey

Appendix 4: Curriculum Vitae of David T. Hughes

Attachment G-1

SHPO letter summarizing review of Archeological Survey report



Kansas Historical Society

Sam Brownback, Governor
Jennie Chinn, Executive Director

KSR&C No. 14-11-067

January 13, 2015

John Rathgeber
Terracon Consultants, Inc.
1815 S. Eisenhower
Wichita, KS 67209

Via E-Mail

RE: Innovation Campus
Wichita State University
Sedgwick County

Dear Mr. Rathgeber:

The Kansas State Historic Preservation Office has reviewed a report entitled *Archeological Investigations of Proposed Innovation Campus, Wichita State University*, by David T. Hughes, Ph.D, and Sheila J. Hauser, City Archeologist. We find the report to be acceptable and concur with its conclusion that the proposed project will have no effect on cultural resources as defined in 36 CFR 800. Our office has no objection to implementation of the innovation campus project.

This information is provided at your request to assist you in identifying historic properties, as specified in 36 CFR 800 for Section 106 consultation procedures. If you have questions or need additional information regarding these comments, please contact Tim Weston at 785-272-8681 (ext. 214) or Patrick Zollner at 785-272-8681 ext. 217. Please refer to the Kansas Review & Compliance number (KSR&C#) above on all future correspondence relating to this project.

Sincerely,

Jennie Chinn
Executive Director and
State Historic Preservation Officer

Patrick Zollner
Deputy State Historic Preservation Officer

Attachment H-1

Photolog of Current Site Conditions



Photo #1 View of shop building looking northwest (Year One Projects area).



Photo #2 View of the wash bay area (Year One Projects area).



Photo #3 View of herbicide/pesticide staining in the foreground, followed storage buildings (Year One Projects area).



Photo #4 View of the UST fill ports and fueling pump, followed by a 500-gallon diesel AST located adjacent east of the shop (Year One Projects area).



Photo #5 View of the 500-gallon diesel AST (Year One Projects area).



Photo #6 Interior view of the southern portion of the shop (Year One Projects area).



Photo #7 View of the pesticide/herbicide applicator observed in the southern portion of the shop (Year One Projects area).



Photo #8 View of the paint storage located in the shop (Year One Projects area).



Photo #9 View of a flammables cabinet located in the shop (Year One Projects area).



Photo #10 View of an air compressor located in the northern portion of the shop (Year One Projects area).



Photo #11 Interior view of the northern portion of the shop (Year One Projects area).



Photo #12 View of a parts washer observed in the northern portion of the shop (Year One Projects area).



Photo #13 View of parts washer solvent observed beneath the parts washer (Year One Projects area).



Photo #14 View of new oils/lubricants observed in a storage closet in the northern portion of the shop (Year One Projects area).



Photo #15 View of the break room/lounge area located in the northern portion of the shop (Year One Projects area).



Photo #16 View of an office located in the northern portion of the shop (Year One Projects area).



Photo #17 View of the Wheatshocker Apartment building located on the southwestern portion of the site (Year One Projects area).



Photo #18 View of the golf pro shop located on the northern portion of the site.



Photo #19 Interior view of the golf pro shop.



Photo #20 View of Traditions – A Golfer's Café area located in the eastern portion of the golf pro shop.



Photo #21 Interior view of a typical storage closet located in the golf pro shop.



Photo #22 View of the small single-office building located adjacent northwest of the golf pro shop.



Photo #23 View of the Heartman golf practice building located on the northeastern portion of the site.



Photo #24 Interior view of the Heartman golf practice building.



Photo #25 Typical view of more golf course fairway areas.



Photo #26 View of the golf course fairways.



Photo #27 View of the tree/brush burn pit area located near the south-central portion of the site



Photo #28 View of the Floboy pumping system components located on the western portion of the site.



Photo #29 View of a pad-mounted transformer located on the western portion of the site.



Photo #30 View of the tributary that crosses the northern portions of the site.



Photo #31 View of Mike Oatman Dr., followed by Eck Stadium located adjacent north of the site.



Photo #32 View of the WSU Welcome Center located adjacent north of the site.



Photo #33 View of the WSU Alumni Center located adjacent north of the site.



Photo #34 View of E 21st St. N, followed by residences located adjacent north of the site.



Photo #35 View of N Oliver Ave., followed by commercial development located adjacent east and northeast of the site.



Photo #36 View of N Oliver Ave., followed by cemetery areas located adjacent east and southeast of the site.



Photo #37 View of E 17th St. N, followed by Paradise Baptist Church (adjacent to Year One Projects area).



Photo #38 View of WSU Campus (maintenance buildings and water tower) located adjacent west of the site (Year One Project area).

Attachment I-1

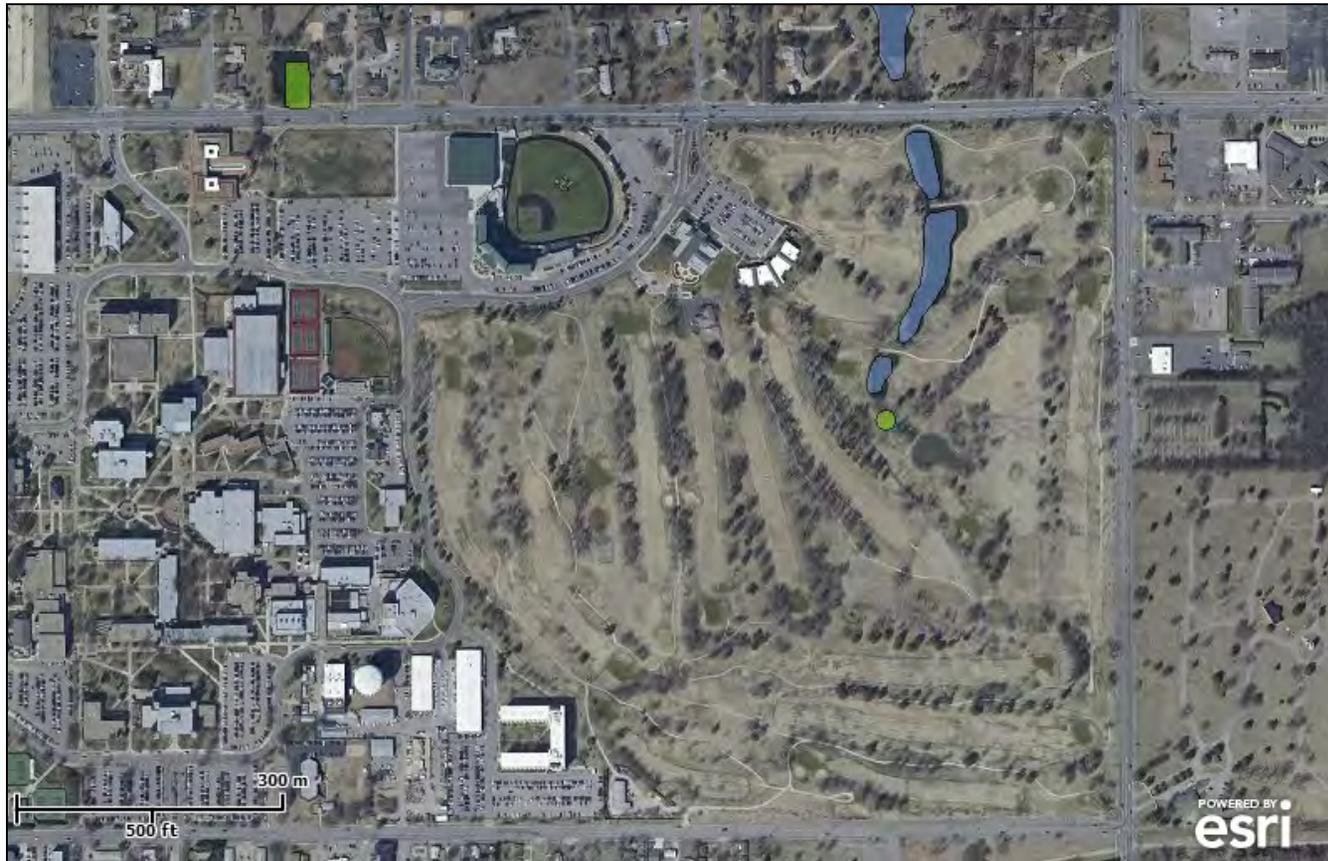
National Wetlands Inventory Map



U.S. Fish and Wildlife Service National Wetlands Inventory

WSU innovation
Campus

Nov 11, 2014



Wetlands

- Freshwater Emergent
- Freshwater Forested/Shrub
- Estuarine and Marine Deepwater
- Estuarine and Marine
- Freshwater Pond
- Lake
- Riverine
- Other

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

User Remarks:



U.S. Fish and Wildlife Service National Wetlands Inventory

WSU north

Nov 11, 2014



Wetlands

- Freshwater Emergent
- Freshwater Forested/Shrub
- Estuarine and Marine Deepwater
- Estuarine and Marine
- Freshwater Pond
- Lake
- Riverine
- Other

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

User Remarks:

Attachment J-1

Wetland Report

**WICHITA STATE UNIVERSITY
INNOVATION CAMPUS
PRELIMINARY
WETLAND IDENTIFICATION & DELINEATION**

**BRAEBURN GOLF COURSE
4000 EAST 17TH STREET NORTH
WICHITA, KANSAS**

OCTOBER 2014

GSI JOB NUMBER 147499

PREPARED BY:

GSI ENGINEERING, L.L.C.
4503 EAST 47TH ST. SOUTH
WICHITA, KANSAS 67210
(316) 554-0725

PREPARED FOR:

MKEC
411 N. WEBB RD.
WICHITA, KANSAS 67206
(316) 684-9600

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1.1	Special Terms and Conditions	1
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APPENDIX A - FIGURES

APPENDIX B - FIELD DATA FORMS

APPENDIX C - PHOTOGRAPHS

APPENDIX D - QUALIFICATIONS

EXECUTIVE SUMMARY

This executive summary is intended to present significant findings and opinions developed from information obtained during the course of this wetlands identification and delineation. It does not present the information and observations leading to these findings and opinions. The user is urged to read the report in its entirety, and contact GSI Engineering, LLC with any questions.

The project site is an approximately 124-acre tract located at the southwest corner of the intersection of East 21st Street North (21st Street) and North Oliver Street (Oliver) in Wichita, Kansas. The site is bound on the south by east 17th Street North (17th Street), on the west by the Wichita State University Campus, on the north by 21st Street, and on the east by Oliver. Commercial and residential development occupies land north of 21st Street, east of Oliver, and south of 17th Street. The site is identified on the Area Location Map included as Figure 1 in Appendix A.

The National Wetland Inventory Map (NWI) indicates potential palustrine wetland corresponding with the locations four impoundments located on an indicated stream near the northeast corner of the site.

On-site evaluation identified wetland vegetation, hydrology and soil characteristics meeting wetland criteria bordering open water impoundments and associated drainage located along a topographic low near the northeast corner of the site. On-site observations were consistent with data reviewed as a part of the initial site evaluation.

In my professional opinion, four areas identified on Figure 4 as Wetland A, Wetland B, Wetland C and Wetland D meet wetland criteria pursuant to the Army Corps of Engineers' 1987 Manual and the Great Plains Regional Supplement with subsequent clarification memoranda. In total, 1.62 acres of open water area and 1.12 acres of wetland were identified within the project boundaries.

The U.S. Army Corps of Engineers reserves the right to determine the jurisdictional status of these water bodies on a case-by-case basis. GSI recommends that the USACE be contacted prior to the initiation of any work that could impact identified aquatic resources within the project boundaries.

1.0 INTRODUCTION

This report presents the results of a preliminary jurisdictional wetland determination performed by GSI Engineering, LLC (GSI) for Braeburn Golf Course. The project site (site) is further identified as 4000 East 17th Street North in Wichita, Kansas. The proposed project boundaries are indicated on the Area Location Map included as Figure 1 in Appendix A.

1.1 SPECIAL TERMS AND CONDITIONS

GSI was authorized to perform this work by Mr. Ken Kallenbach of MKEC in Wichita, Kansas. It is GSI's understanding that this report is to be used and distributed exclusively for purposes connected with this project. This report of findings was prepared for the exclusive use of MKEC. The contents of this report may not be reproduced, distributed, or otherwise communicated to any other parties without the express written consent of MKEC.

1.2 SCOPE OF WORK

The scope of this wetland determination consists of an evaluation of the site to determine the presence or absence of wetland indicators and the delineation of identified potential jurisdictional waters of the United States, including wetland areas. The evaluation of this site was conducted during the period of October 15, 2014 through October 17, 2014 and consisted of:

- A review and compilation of relevant geologic, topographic, and hydrologic conditions and records;
- A review of U.S. Fish and Wildlife Service National Wetland Inventory Maps;
- An on-site evaluation of vegetation, hydrology, and soil conditions;
- A review of United States Department of Agriculture (USDA) Farm Service Agency (FSA) Report of Commodities; and
- Preparation of this report of findings.

2.0 PROJECT SITE CONDITIONS

The project site is an approximately 124-acre tract located at the Southwest corner of the intersection of East 21st Street North (21st Street) and North Oliver Street (Oliver) in Wichita, Kansas. The site is bound on the south by East 17th Street North (17th Street), on the west by the Wichita State University Campus, on the north by 21st Street, and on the east by Oliver. Commercial and residential development occupies land north of 21st Street, east of Oliver, and south of 17th Street. The site is identified on the Area Location & Topographic Map included as Figure 1 in Appendix A.

Aerial photography between 1996 and 2014 shows the site as a golf course. The historic aerial photography also indicates that the adjacent land remains similar to the 1996 land use. A series

of impoundments are located in the northeast quadrant of the Site. A recent aerial photograph is included as Figure 4 in Appendix A.

3.0 PRELIMINARY DATA REVIEW AND METHOD SELECTION

Available data regarding area topography, hydrology, soil and vegetation was compiled and reviewed to aid in the selection of the determination method(s) to be utilized in this project.

Documents reviewed included:

- USGS 7.5 Minute Quadrangle topographic map, Wichita, Kansas, GPSVisualizer, http://www.gpsvisualizer.com/kml_overlay
- National Wetland Inventory Map, U.S. Fish and Wildlife Service Online Wetland Mapper, <http://www.fws.gov/wetlands>
- Natural Resources Conservation Service (NRCS) Web Soil Survey, <http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>
- United States Department of Agriculture (USDA) Farm Service Agency (FSA) Report of Commodities

The Area Location & Topographic Map, included as Figure 1 in Appendix A, indicates an intermittent stream channel originating approximately 1,000 feet south of 21st Street. The indicated stream flows to the north, exiting the site at 21st Street, approximately 750 feet west of Oliver. A series of impoundments are located on the indicated stream.

According to the Soil Survey of Sedgwick County, a copy of which is included as Figure 2 in Appendix A, the site is comprised of Urban land-Irwin complex, 1-3 percent slopes; Urban land-Farnum complex, 0-3 percent slopes; Farnum loam, 1-3 percent slopes; and Blanket silt loam, 1-3 percent slopes.

Irwin series soil is characterized as deep and very deep, moderately well drained soils formed in residuum weathered from shale. Irwin series soils are typically on hillslopes on uplands with slopes ranging from 0-8 percent.

Farnum series soil is characterized as very deep, well drained soil formed in loamy alluvium typically located on paleoterraces in river valleys. Slopes range from 0-6 percent. Farnum complex soil comprises the majority of the site.

Blanket series soil is characterized as deep, moderately slowly permeable soils formed in ancient stream alluvium. These nearly level to gently sloping soils are typically located on old terraces and valley fills. Slopes range from 0-4 percent.

Irwin, Farnum and Blanket series soil are not listed hydric soils; however, Aquolls may occur in depressions and/or drainageways within the soil mapping units. Aquolls are a suborder of

Mollisol, formed under wet conditions and may be inundated at times, but are usually seasonally rather than continually wet. Aquolls are listed hydric soil.

The U.S. Fish and Wildlife National Wetlands Inventory map included as Figure 3 in Appendix A, indicates Freshwater Ponds and Freshwater Emergent wetlands along the former stream channel. No riverine wetlands are indicated.

4.0 FIELD METHODS

Field methods for wetland identification and delineation were completed in general accordance with the procedures for routine determinations of areas equal to or greater than five acres (USACE Wetlands Delineation Manual, 1987) and Great Plains Regional Supplement (GPRS).

Transects were located to intersect identified vegetative communities and topographic lows within the project boundaries. Observation points along transects were selected using GPS coordinates to maintain a generally east to west course. Observation points were selected and vegetation, soil, and hydrology parameters were characterized at each observation point and recorded on field data forms. The characteristics and approximate elevation of established upland/wetland boundaries were used to identify boundaries for the remainder of the Site. Transect and observation point locations are shown on the Wetland Delineation Map included as Figure 4 in Appendix A. Copies of the field data forms are included in Appendix B.

5.0 DISCUSSION

5.1 VEGETATION

A vegetative community is considered to exhibit positive wetland characteristics when 50 percent or more of the dominant species within that community are considered to be obligate, facultative wetland, or facultative species. The species designation and the probability of occurring in wetlands are summarized in the following table.

Table 1: Summary of Vegetation Classifications

Vegetation Classification	Abbreviation	Wetland Probability
Obligate	OBL	>99%
Facultative Wetland	FACW	67 – 99%
Facultative	FAC	33 – 67%
Facultative Upland	FACU	<33%
Upland	UPL	<1%
Not Listed	NL	<33%
Non-Indicators	NI	Not Applicable

A positive (+) or negative (-) modifier may be applied to any wetland plant indicator status. The positive modifier indicates a greater probability of occurrence in wetlands and the negative

modifier indicates a lesser probability of occurrence in wetlands. Wetland vegetation status for identified plant species has been determined using the USDA NRCS Plants Database (<http://plants.usda.gov>). Field Data forms included in Appendix B, list dominant plant species at each observation point and their respective wetland indicator status.

The site is maintained and operated as a golf course with the majority of vegetation consisting of upland turf grasses, and a mixture of FAC, FACU and UPL trees and shrubs. This vegetative community did not meet wetland vegetation criteria.

Dominant vegetation along the shoreline of impoundments and drainage ways between impoundments showing evidence of recent ponding or saturation included Rough Barnyard Grass (*Echinochloa muricata*, FACW); Pinkweed (*Persicaria pensylvanicum*, FACW), Bearded Sprangletop (*Diplachne fusca*, FACW) Cattail (*Typha spp.*, OBL) and Common spikerush (*Eleocharis compressa*, FACW). Trees, shrubs and woody vines along the shoreline included Cottonwood (*Populus deltoides*, FAC), Black Willow (*Salix nigra*, FACW); American Elm (*Ulmus americana*, FAC); Poison Ivy (*Toxicodendron spp.*, FACU); and River-Bank Grape (*Vitis riparia*, FAC). This vegetative community met wetland vegetation criteria.

5.2 HYDROLOGY

An area is considered to meet wetland hydrology criteria if it is inundated or saturated to the surface for at least 5% of the growing season in most years. Indicators of wetland hydrology, in order of decreasing reliability, are:

- recorded stream gage data;
- visual observation of inundation;
- soil saturation within 12 inches of the surface;
- water marks on trees and structures;
- drift lines;
- sediment deposits; and
- drainage patterns in wetlands.

In the absence of primary hydrology indicators, secondary characteristics may be used to confirm positive wetland hydrology characteristics. Secondary hydrology indicators include soil cracks, sparse vegetation on concave surfaces, drainage patterns, oxidized rhizospheres, crayfish burrows, saturation visible on aerial imagery, geomorphic position and the FAC-neutral test. Two or more secondary indicators must be present to be considered a positive indication of wetland hydrology.

A series of diked impoundments occupy drainage indicated on the topographic map as an intermittent stream. Positive wetland hydrology indicators including visual observation of inundation, drift lines, water marks on trees, drainage patterns, sparse vegetation on concave surfaces, and saturation/inundation visible on aerial photography were observed along this

drainage. Typically, a readily apparent ordinary high water mark (OHWM) characterized by bank shelving and/or sparse vegetation identified the limits of the impoundments. **Bed and bank features typically associated with flowing intermittent or ephemeral streams were not apparent between the impoundments.**

5.3 SOILS

The predominant soils at the site were identified using the NRCS Web Soil Survey. Figure 2 in Appendix A shows the distribution of area soils. Section 3.0 of this report provides a description of the soil types within the project boundaries. To confirm anticipated soil characteristics, soils were evaluated on-site using procedures described in the 1987 USACE Wetlands Delineation Manual. Field evaluations were completed at observation points where positive indications of wetland vegetation or hydrology were observed. On-site evaluation of soils was generally consistent with the descriptions provided by the Soil Survey of Sedgwick County with the following exceptions:

- Hydric soil criteria were assumed below the OHWM of the impoundments and drainage ways where mud flats and very sparse vegetation was observed.
- Hydric soil indicators S4, Sandy Redox and F6, redox dark surface were observed at multiple locations ranging from 3 to 5 feet beyond the observed OHWM or apparent bank line of the drainage way and impoundments.

6.0 SUMMARY AND CONCLUSIONS

The site has been managed as a golf course since circa 1921, when it opened as Crestview Country Club. Wichita State University purchased the property in 1967.

The Area Topographic Map indicates two impoundments located on an intermittent stream reach. The indicated intermittent stream originates within the site boundaries, flowing north for approximately 1.25 miles, where it joins the East Fork Chisholm Creek. The National Wetland Inventory Map (NWI) indicates three potential palustrine, aquatic bed (PABFh) wetland areas and one palustrine, emergent (PEMCh) wetland area generally corresponding with the impoundments indicated on the topographic map. **No riverine wetlands were indicated on the NWI map. On-site evaluation confirmed the lack of bed and bank features typically associated with flowing intermittent or ephemeral streams.** Aerial photography **showed** a series of four impoundments that correspond with those indicated on the NWI map. The impoundments were separated by dikes or dams **and occupy the indicated stream area.** No other aquatic features are indicated within the Site boundaries.

On-site evaluation identified wetland vegetation, hydrology and soil characteristics meeting wetland criteria bordering open water impoundments and associated drainage located along a topographic low near the northeast corner of the Site. On-site observations were consistent with data reviewed as a part of the initial site evaluation.

The southernmost impoundment, located near the headwaters of an intermittent stream indicated on the topographic map, was dry on the date of the site visit. An OHWM was apparent, characterized by minor bank shelving and a marked change in vegetative community composition. Vegetation and soil characteristics below the OHWM met wetland criteria. Hydric soil indicators were observed, extending 3 to 5 feet beyond the apparent OHWM. Secondary hydrology indicators including drainage patterns, saturation visible on aerial photography and geomorphic position were noted below the OHWM. A corrugated steel pipe located at the impoundment dike serves as an outfall, draining to the north. This area is identified as Wetland A on Figure 4 in Appendix A.

A second impoundment, immediately upstream from Wetland A, receives overflow from the lower impoundment via a vegetated swale. Although the swale was not inundated, vegetation and soil characteristics in the swale met wetland criteria. Secondary hydrology indicators including FAC neutral test, drainage patterns and geomorphic position were noted. The upper reach of the second impoundment was predominantly open water. An OHWM characterized by bank shelving and sparse vegetation was well defined. Mud flats extended to open water below the OHWM. Hydric soil was assumed below the OHWM. Vegetation, where present below the OHWM, met wetland vegetation criteria. A corrugated steel pipe located at the impoundment dike drains overflow to the north into two additional impoundments. The second impoundment and vegetated swale are identified as Wetland B on Figure 4.

The northernmost impoundments were also separated by a dike with a corrugated steel pipe outfall. These impoundments were predominantly open water with well defined OHWM characterized by bank shelving and sparse vegetation. Vegetation, where present below the OHWM, met wetland criteria. Hydric soil was assumed present below the OHWM. The northern impoundments are indicated as Wetland C and Wetland D on Figure 4.

In my professional opinion, four areas identified on Figure 4 as Wetland A, Wetland B, Wetland C and Wetland D meet wetland criteria pursuant to the Army Corps of Engineers' 1987 Manual and GPRS with subsequent clarification memoranda. In total, 1.62 acres of open water area and 1.12 acres of wetland were identified within the project boundaries. The following table summarizes identified open water and wetland areas within the project boundaries.

TABLE 2 – OPEN WATER AND WETLAND AREAS

Site ID	Classification	Area (Acres)
Wetland A	Palustrine, Emergent, Seasonally flooded, diked (PEMCh)	wetland 0.42
Wetland B	Palustrine, Aquatic Bed, Semi-permanently flooded, diked (PABFh)	wetland 0.34
		open water 0.16
Wetland C	PABFh	wetland 0.17
		open water 0.93
Wetland D	PABFh	wetland 0.19
		open water .53

The U.S. Army Corps of Engineers reserves the right to determine the jurisdictional status of these water bodies on a case-by-case basis. GSI recommends that the USACE be contacted prior to the initiation of any work that could impact identified aquatic resources within the project boundaries.

7.0 LIMITATIONS

This wetland determination was completed in accordance with the procedures provided in the US Army Corps of Engineers Wetlands Delineation Manual (Environmental Laboratory, 1987), GPRS, and subsequent clarification memoranda. This report is based on findings derived from a review of existing conditions, apparent historical conditions, National Wetlands Inventory maps, NRCS soil maps and soil surveys, and on-site inspection. GSI did not attempt to identify every possible plant species and did not classify soil type by laboratory methods.

The conclusions presented in this report are based upon observable conditions existing on the site at the time the determination was performed. Seasonal variations in temperature and precipitation may alter wetland characteristics that were observed at the time of this determination. GSI cannot guarantee that the area will, or will not, exhibit wetland characteristics at all times of the year.

This wetland determination and delineation was performed in a manner consistent with the level of care and skill ordinarily exercised by environmental professionals practicing contemporaneously under similar conditions in the area of this project. No other warranty, expressed or implied, is given.

REFERENCES

- National Wetland Inventory Map, U.S. Fish and Wildlife Service Online Wetland Mapper, <http://www.fws.gov/wetlands>
- Natural Resources Conservation Service (NRCS) Web Soil Survey, <http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>
- U.S. Army Corps of Engineers, *Jurisdictional Determination Form Instructional Guidebook*, May 30, 2007
- U.S. Army Corps of Engineers, Engineer Research and Development Center, *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Great Plains Region (Version 2)*, March 2010.
- U.S. Army Corps of Engineers, Waterways Experiment Station, *Corps of Engineers Wetlands Delineation Manual, Wetlands Research Program Technical Report Y-87-1* (on - line addition), January 1987
- U.S. Fish and Wildlife Service, Ecology Section - National Wetlands Inventory, *National List of Vascular Plant Species that Occur in Wetlands: 1996 National Summary*, March 3, 1997
- USGS 7.5 Minute Quadrangle topographic map, Sedgwick County, Kansas, GPSVisualizer, http://www.gpsvisualizer.com/kml_overlay

APPENDIX A – FIGURES

- 1. Area Location and Topographic Map**
- 2. Soil Survey Map**
- 3. National Wetlands Inventory Map**
- 4. Wetland Delineation Map**

APPENDIX B – FIELD DATA FORMS

APPENDIX C – PHOTOGRAPHS

APPENDIX D – QUALIFICATIONS

Attachment K-1

FEMA Map

Path: J:\Projects\2014\14010\10547 - WSU Innovation Campus\05-Civil\GIS\FEMA\Floodplain Exhibit2.mxd

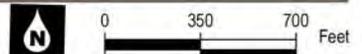


FEMA FIRM EXHIBIT

WSU INNOVATION CAMPUS
 December 03, 2014



The information presented hereon is best available data gathered by MKEC from various outside sources. MKEC does not guarantee the positional accuracy the data shown. In no event shall MKEC become liable to users of the data presented hereon, for any loss or damages, consequential or otherwise, including but not limited to time, money, or goodwill, arising from the use of the presented data. In using the data presented hereon, users further agrees to indemnify, defend, and hold harmless MKEC for any and all liability of any nature arising out of or resulting from the lack of accuracy or correctness of the data, or the use of the data.



Attachment L-1 and L-2

Letters to KDWPT and USFWS



November 7, 2014

Mr. David Bender
Kansas Wildlife and Parks
Environmental Services
512 SE 25th Avenue
Pratt, Kansas 67124

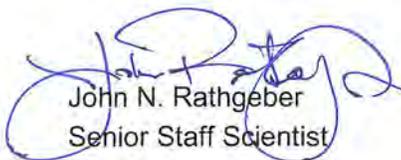
Re: Environmental Review of the Proposed WSU Innovation Campus Project
1845 Fairmount
Wichita, Sedgwick County, Kansas
Terracon Project No. 01147093

Dear Mr. Bender:

We are submitting this letter on behalf of MKEC Engineering Consultants, Inc. (our client) regarding the redevelopment of the Wichita State University (WSU) golf course. This project is being referred to as WSU Innovation Campus and the proposed development includes the construction of multiple buildings on the existing portion of the campus that currently is developed as a golf course. The project site is adjacent to and contiguous with the existing developed portion of WSU campus, and the project boundaries are shown on the enclosed Figures 1 and 2 (topographic map and 2011 aerial image respectively). Also enclosed is the client provided proposed development depicted on figure labeled: *Innovation University Master Plan – Option 3*.

We are assisting our client with the development of a narrative review report for a grant application under the U.S. Economic Development Administration (EDA), and the EDA guidelines for this report includes consultation with state and federal wildlife agencies regarding potential impact to protected species from project activities. Therefore, we respectfully request the Kansas Department of Wildlife, Parks and Tourism's review of the project regarding potential impacts to State of Kansas listed species and provide an opinion and/or recommendations as appropriate. If you have any questions concerning the site or require additional information I can be contacted at (316) 448-3985 or email at jnrathgeber@terracon.com.

Sincerely,
Terracon Consultants, Inc.



John N. Rathgeber
Senior Staff Scientist



James C. Bruggeman
Due Diligence Department Manager

Enclosure: Figure 1, Figure 2 and University Master Plan – Option 3



Terracon Consultants, Inc. 1815 South Eisenhower Wichita, Kansas 67209
P [316] 262-0171 F [316] 262-6997 Terracon.com

Environmental



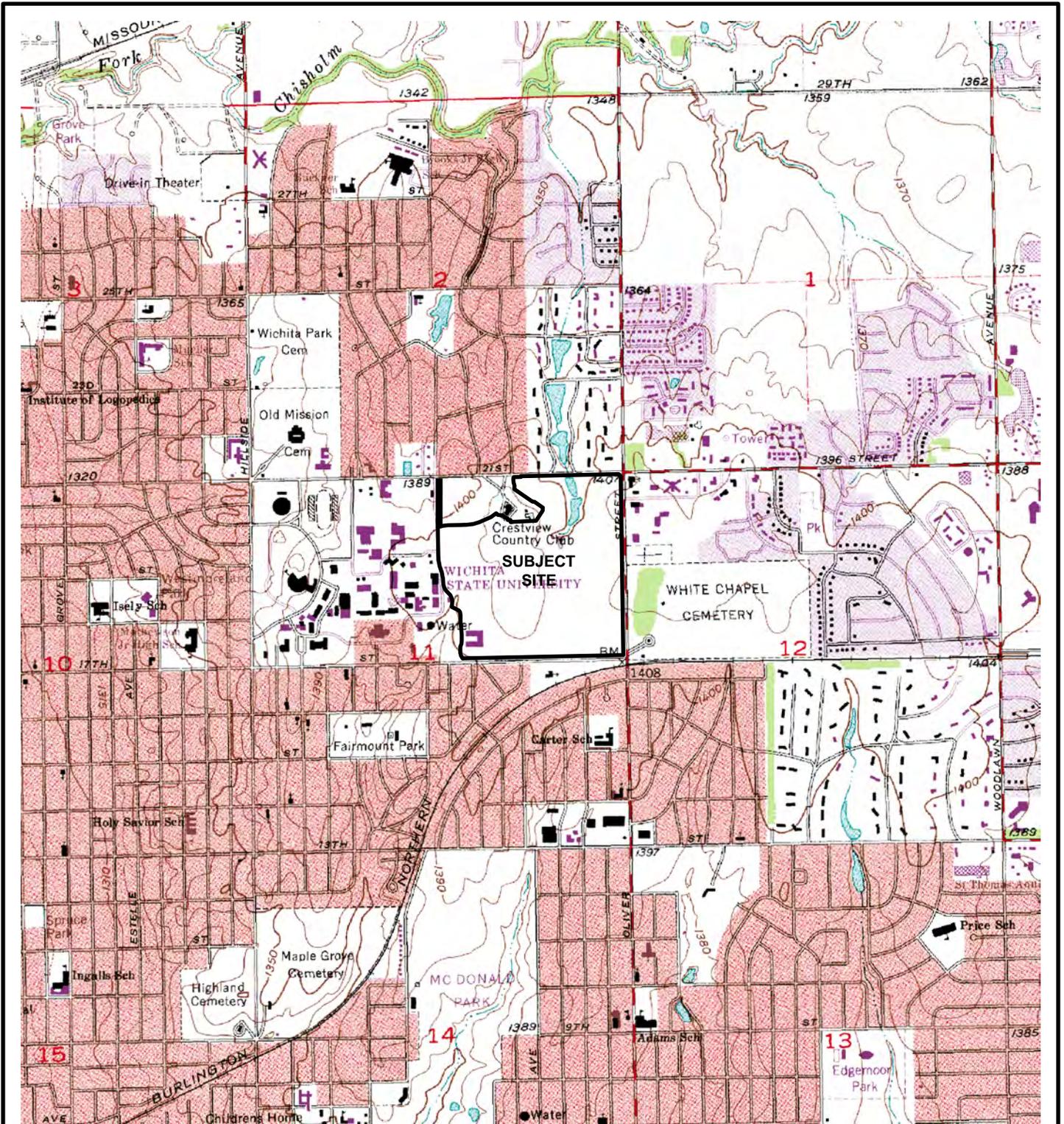
Facilities



Geotechnical



Materials



WICHITA EAST QUADRANGLE
 KANSAS - SEDGWICK COUNTY
 7.5 MINUTE SERIES (TOPOGRAPHIC)
 1961 - PHOTO REVISED IN 1982

APPROXIMATE NE/4
 OF SECTION 11, TOWNSHIP 27
 SOUTH, RANGE 1 EAST.

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

Project Mngr:	MRH
Checked By:	MRH
Approved By:	JCB
Drawn By:	BCB

Scale:	SHOWN
Date:	10/17/14
Project No:	01147766
File Name:	7766F1.dwg

Terracon
 Consulting Engineers and Scientists
 1815 South Eisenhower Wichita, Kansas 67209
 Phone: (316) 262-0171 Fax: (316) 262-6997

TOPOGRAPHIC MAP
 CLIENT: MKEC ENGINEERING CONSULTANTS, INC.
WSU INNOVATION CAMPUS
 4201 E. 21ST STREET N.
 WICHITA, KANSAS 67208

FIGURE
1



2011 AERIAL PHOTOGRAPH PROVIDED BY SEDGWICK COUNTY GEOGRAPHIC INFORMATION SERVICES.

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

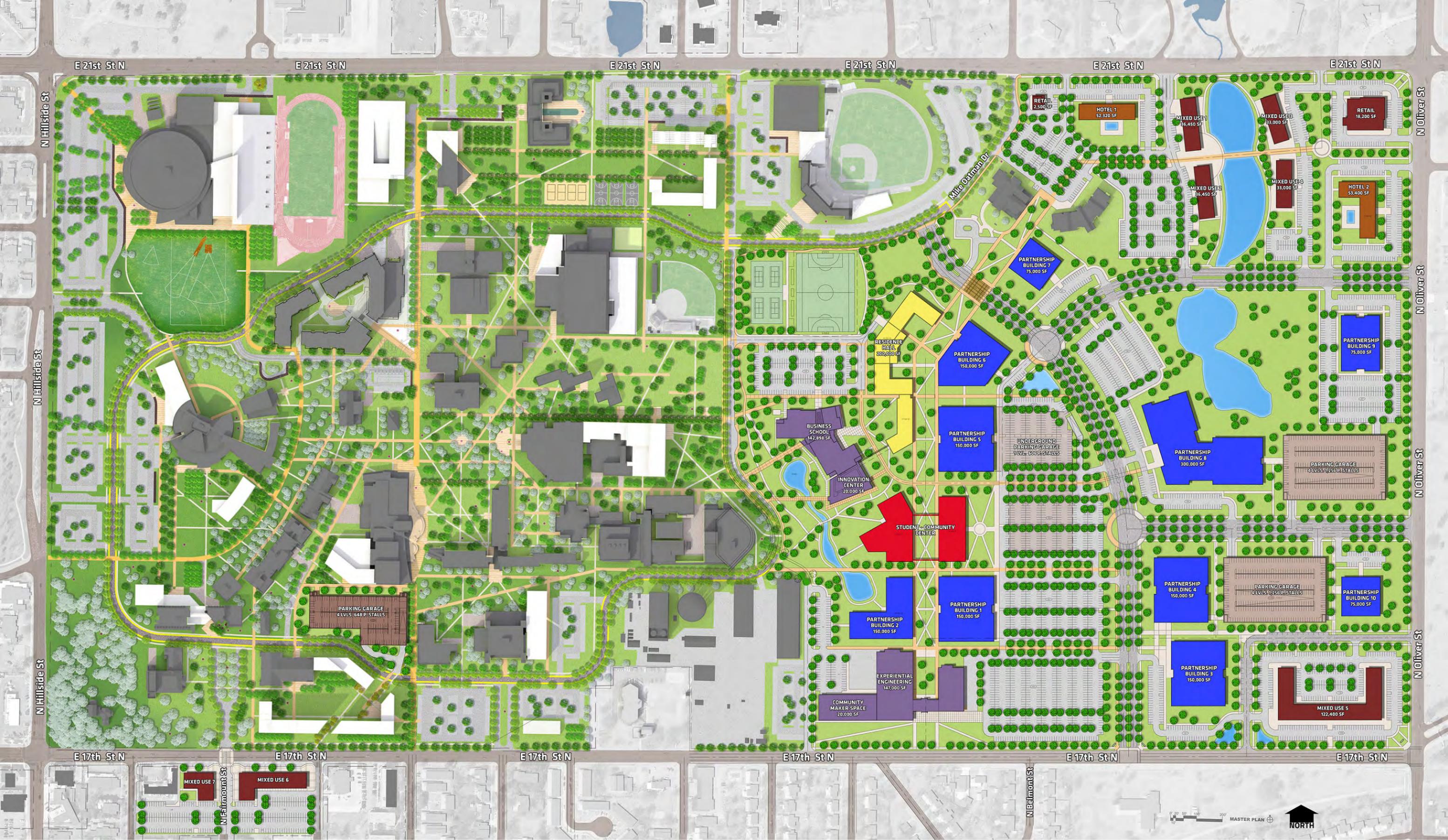


Project Mngr:	MRH
Checked By:	MRH
Approved By:	JCB
Drawn By:	BCB
Scale:	SHOWN
Date:	10/17/14
Project No:	01147766
File Name:	7766F2.dwg

Terracon
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SITE DIAGRAM
 CLIENT: MKEC ENGINEERING CONSULTANTS, INC.
WSU INNOVATION CAMPUS
 4201 E. 21ST STREET N.
 WICHITA, KANSAS 67208

FIGURE
 2





November 7, 2014

Ms. Heather Whitlaw
U.S. Fish and Wildlife
Ecological Services Field Office
2609 Anderson Avenue
Manhattan, Kansas 66502

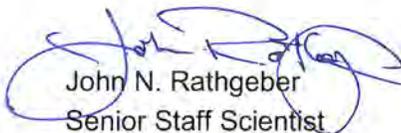
Re: Environmental Review of the Proposed WSU Innovation Campus Project
1845 Fairmount
Wichita, Sedgwick County, Kansas
Terracon Project No. 01147093

Dear Ms. Whitlaw:

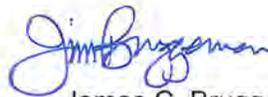
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We are assisting our client with the development of a narrative review report for a grant application under the U.S. Economic Development Administration (EDA), and the EDA guidelines for this report includes consultation with state and federal wildlife agencies regarding potential impact to protected species from project activities. Therefore, we respectfully request the U.S. Fish and Wildlife Service's review of the project regarding potential impacts to federally listed species and provide an opinion and/or recommendations as appropriate. If you have any questions concerning the site or require additional information I can be contacted at (316) 448-3985 or email at jnrathgeber@terracon.com.

Sincerely,
Terracon Consultants, Inc.



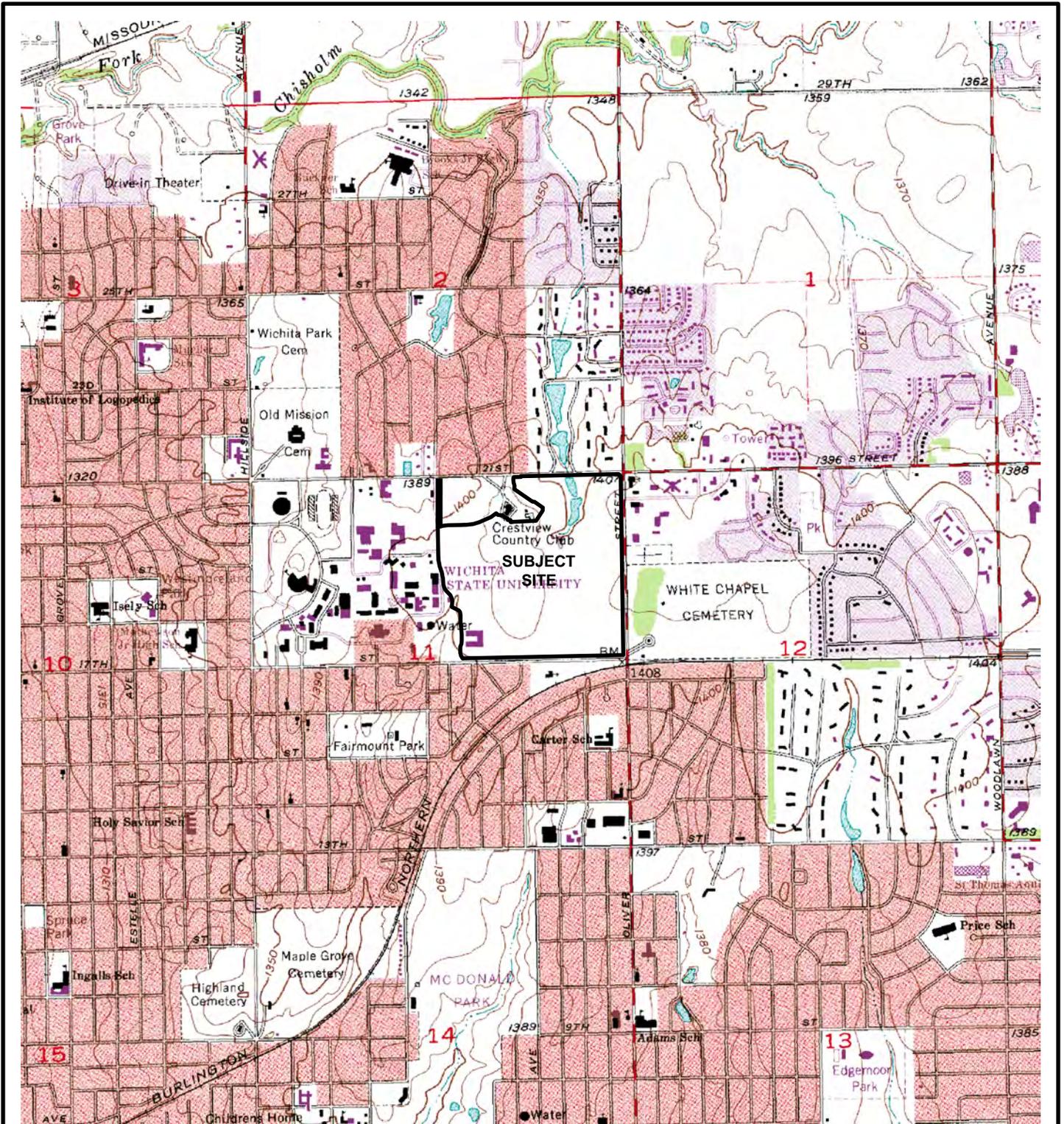
John N. Rathgeber
Senior Staff Scientist



James C. Bruggeman
Due Diligence Department Manager

Enclosure: Figure 1, Figure 2 and University Master Plan – Option 3

Terracon Consultants, Inc. 1815 South Eisenhower Wichita, Kansas 67209
P [316] 262-0171 F [316] 262-6997 Terracon.com



WICHITA EAST QUADRANGLE
 KANSAS - SEDGWICK COUNTY
 7.5 MINUTE SERIES (TOPOGRAPHIC)
 1961 - PHOTO REVISED IN 1982

APPROXIMATE NE/4
 OF SECTION 11, TOWNSHIP 27
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Project Mngr:	MRH
Checked By:	MRH
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Drawn By:	BCB

Scale:	SHOWN
Date:	10/17/14
Project No:	01147766
File Name:	7766F1.dwg

Terracon
 Consulting Engineers and Scientists
 1815 South Eisenhower Wichita, Kansas 67209
 Phone: (316) 262-0171 Fax: (316) 262-6997

TOPOGRAPHIC MAP
 CLIENT: MKEC ENGINEERING CONSULTANTS, INC.
WSU INNOVATION CAMPUS
 4201 E. 21ST STREET N.
 WICHITA, KANSAS 67208

FIGURE
1



2011 AERIAL PHOTOGRAPH PROVIDED BY SEDGWICK COUNTY GEOGRAPHIC INFORMATION SERVICES.

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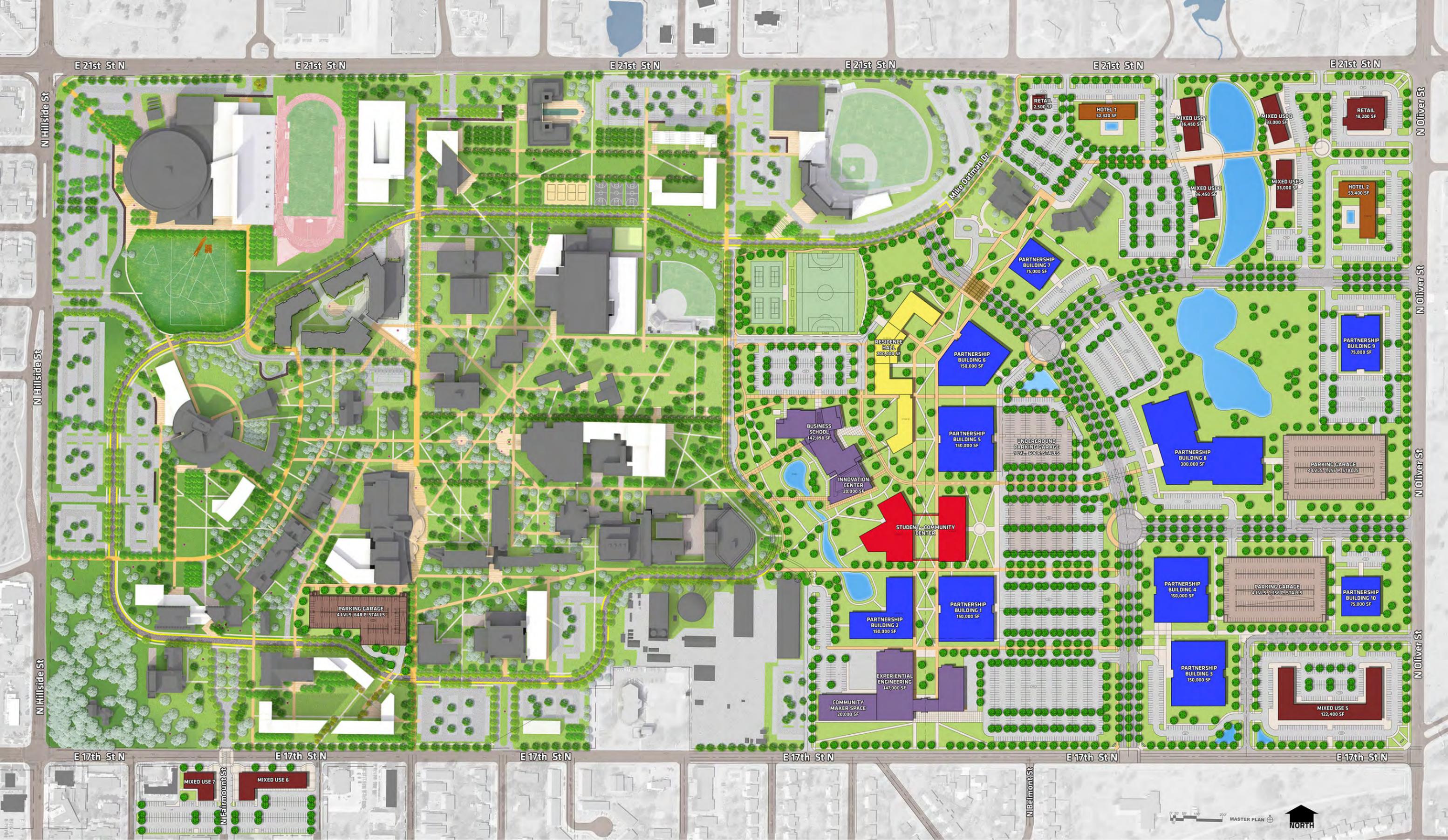


Project Mngr:	MRH
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SITE DIAGRAM
 CLIENT: MKEC ENGINEERING CONSULTANTS, INC.
WSU INNOVATION CAMPUS
 4201 E. 21ST STREET N.
 WICHITA, KANSAS 67208

FIGURE
 2



Attachment M-1 & M-2

Response Letters from USFWS and KDWPT

US Fish & Wildlife Service
Received

0149

Terracon

November 7, 2014

NOV 10 2014

Date 11/21/14

Kansas Field Off

No Concerns/No Comment

Ms. Heather Whitlaw
U.S. Fish and Wildlife
Ecological Services Field Office
2609 Anderson Avenue
Manhattan, Kansas 66502

Signed Heather Whitlaw (Acting)
Heather Whitlaw
Field Supervisor
U.S. Fish and Wildlife Service
Kansas Ecological Services Field Office

Re: Environmental Review of the Proposed WSU Innovation Campus Project
1845 Fairmount
Wichita, Sedgwick County, Kansas
Terracon Project No. 01147093

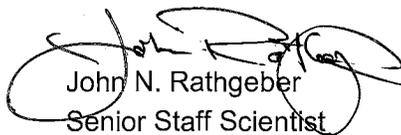
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	12	
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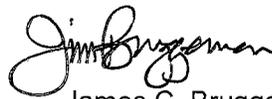
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Sincerely,
Terracon Consultants, Inc.


John N. Rathgeber
Senior Staff Scientist


James C. Bruggeman
Due Diligence Department Manager

Enclosure: Figure 1, Figure 2 and University Master Plan – Option 3



Terracon Consultants, Inc. 1815 South Eisenhower Wichita, Kansas 67209
P [316] 262-0171 F [316] 262-6997 Terracon.com

Rathgeber, John N.

From: Bartels, Brian <brian.bartels@ksoutdoors.com>
Sent: Friday, December 05, 2014 2:19 PM
To: Rathgeber, John N.
Subject: KDWPT Project Review: WSU Innovation Campus Project in Sedgwick Co.; T27S-R01E-Sec.11 (Terracon Project #01147093; Track 20141334)

Mr. Rathgeber:

The referenced project was reviewed for potential impacts on crucial wildlife habitats, current State-listed Threatened and Endangered species and Species in Need of Conservation (SINC), and Kansas Department of Wildlife, Parks and Tourism managed areas for which this agency has administrative authority.

We have no objections to the proposed project and provide the following general recommendations:

- Incorporate principles of low impact development (LID), such as permeable asphalt pavement, swales, bioretention, raingardens and on-site phytoremediation. For more information on LID <http://www.epa.gov/owow/NPS/lid>
- Implement and maintain standard erosion-control Best-Management-Practices.
- Reseed with native warm-season grass (e.g. Buffalo Grass, *Bouteloua dactyloides*).

Results of our review indicate there will be no significant impacts to crucial wildlife habitats; therefore, no special mitigation measures are recommended. The project will not impact any public recreational areas, nor could we document any potential impacts to currently-listed Threatened or Endangered species or SINC. No Department of Wildlife, Parks and Tourism permits or special authorizations will be needed if construction is started within one year, and no design changes are made in the project plans.

Since the Department's recreational land obligations and the State's species listings periodically change, if construction has not started within one year of this date, or if design changes are made in the project plans, the project sponsor must contact this office to verify continued applicability of this assessment report. For our purposes, we consider construction started when advertisements for bids are distributed.

Consider this email our official project review. Contact me with any questions.



Brian Bartels, Ecologist
Ecological Services
Kansas Dept. of Wildlife, Parks and Tourism
512 SE 25th Ave., Pratt, KS 67124
office: 620-672-0746
cell: 620-770-6628
fax: 620-672-2972

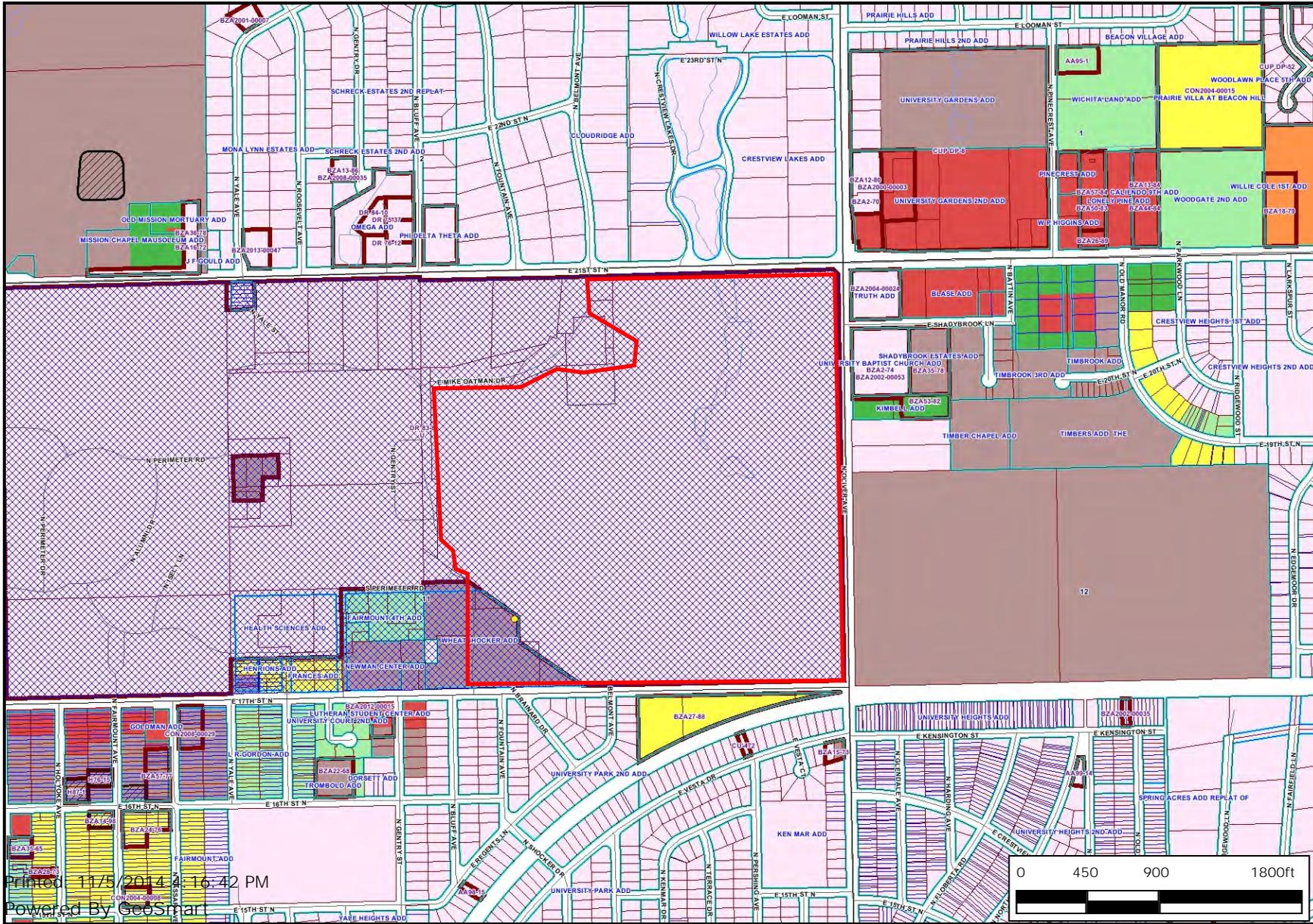
Attachment N-1

Sedgwick County Zoning Map



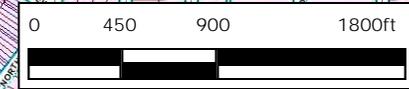
WSU Innovation-Zoning Districts

4201 E 21st St. N, Wichita, KS



- City Limit Boundaries
- CELLTOWER_PERMIT
- Historic Districts
- Old Town Delano Overlay District
- NO
- YES
- Property Parcels
- Lot Block
- Subdivisions
- Historic Sites
- REGIONAL STATE/NATIONAL STATE Zoning Cases
- RR
- SF-20
- SF-10
- SF-5
- TF-3
- MF-18
- MF-29
- B
- MH
- NO
- GO
- NR
- LC
- OW
- GC
- AFB
- IP-A
- IP
- CBD
- LI
- GI
- PUD

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Every reasonable effort has been made to assure the accuracy of the maps and associated data provided herein. This information is provided with the understanding that the data are susceptible to a degree of error, and conclusions drawn from such information are the responsibility of the reader. The City of Wichita makes no warranty, representation or guaranty as to the content, accuracy, timeliness or completeness of any of the data provided herein. Some data provided here and used for the preparation of these maps has been obtained from public records not created or maintained by the City of Wichita. The City of Wichita shall assume no liability for any decisions made or actions taken or not taken by the reader in reliance upon any information or data furnished hereunder. The user should consult with the appropriate departmental staff member, e.g. Planning, Parks & Recreation, etc. to confirm the accuracy of information appearing in the visual presentations accessible through these web pages.



Zoning Districts:

<u>RR</u>	Rural Residential District
<u>SF-20</u>	Single-Family District
<u>SF-10</u>	Single-Family District
<u>SF-5</u>	Single-Family District
<u>TF-3</u>	Two-Family District
<u>MF-18</u>	Multi-Family District
<u>MF-29</u>	Multi-Family District
<u>B</u>	Multi-Family District
<u>MH</u>	Manufactured Housing District
<u>NO</u>	Neighborhood Office District
<u>GO</u>	General Office District
<u>NR</u>	Neighborhood Retail District
<u>LC</u>	Limited Commercial District
<u>OW</u>	Office Warehouse District
<u>GC</u>	General Commercial District
<u>IP-A</u>	Industrial Park – Airport District
<u>IP</u>	Industrial Park District
<u>CBD</u>	Central Business District
<u>LI</u>	Limited Industrial District
<u>GI</u>	General Industrial District
<u>AFB</u>	Air Force Base
<u>PUD</u>	Planned Unit Development
<u>U</u>	University
<u>OT-O</u>	Old Town Overlay
<u>A-O</u>	Airport Overlay
<u>P-O</u>	Protective Overlay
<u>H-O</u>	Historic Landmark Overlay
<u>D-O</u>	Delano Neighborhood Overlay
<u>AFBP-O</u>	Air Force Base Protection Overlay
<u>CP-O</u>	Corridor Preservation Plan Overlay
<u>CBS</u>	Construction Burn Site

Attachment O-1

City of Wichita Consumer Confidence Report

City of Wichita

Consumer Confidence Report – 2014

Covering Calendar Year – 2013



This brochure is a snapshot of the quality of the water that we provided last year. Included are the details about where your water comes from, what it contains, and how it compares to Environmental Protection Agency (EPA) and state standards. We are committed to providing you with information because informed customers are our best allies. It is important that customers be aware of the efforts that are made continually to improve their water systems. To learn more about your drinking water, please attend any of the regularly scheduled meetings which are held City Council meetings which are held on most Tuesdays at 9:00 A.M. in the City Council Chambers, at 455 N. Main. The public is welcome to request time on the agenda for comments about water utility topics. Consult our web site www.wichita.gov for further information. See U.S. Environmental Protection Agency (EPA) water information at www.epa.gov/safew/.

For more information please contact, Michael Jacobs at 316-269-4760.

Our drinking water is supplied from 66 Ground Water Wells and:

Source Name	Source Water Type
Intake 999	Surface Water
Intake 998	Surface Water

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as those with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline (800-426-4791).

The sources of drinking water (both tap water and bottled water) included rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Contaminants that may be present in sources water before we treat it include:
Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, livestock operations and wildlife.
Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.
Pesticides and herbicides, which may come from a variety of sources such as storm water run-off, agriculture, and residential users.
Radioactive contaminants, which can be naturally occurring or the result of mining activity.
Organic contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and also come from gas stations, urban storm water run-off, and septic systems.

In order to ensure that tap water is safe to drink, EPA prescribes regulation which limits the amount of certain contaminants in water provided by public water systems. We treat our water according to EPA's regulations. Food and Drug Administration regulations establish limits for contaminants in bottled water, which must provide the same protection for public health. Our water system is required to test a minimum of 180 samples per month in

accordance with the Total Coliform Rule for microbiological contaminants. Coliform bacteria are usually harmless, but their presence in water can be an indication of disease-causing bacteria. When coliform bacteria are found, special follow-up tests are done to determine if harmful bacteria are present in the water supply. If this limit is exceeded, the water supplier must notify the public.

Water Quality Data

The following tables list all of the drinking water contaminants which were detected during the 2013 calendar year. The presence of these contaminants does not necessarily indicate the water poses a health risk. Unless noted, the data presented in this table is from the testing done January 1- December 31, 2013. The state requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data, though representative of the water quality, is more than one year old. **The bottom line is that the water that is provided to you is safe.**

Terms & Abbreviations

Maximum Contaminant Level Goal (MCLG): the "Goal" is the level of a contaminant in drinking water below which there is no known or expected risk to human health. MCLGs allow for a margin of safety.
Maximum Contaminant Level (MCL): the "Maximum Allowed" MCL is the highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
Secondary Maximum Contaminant Level (SMCL): recommended level for a contaminant that is not regulated and has no MCL.
Action Level (AL): the concentration of a contaminant that, if exceeded, triggers treatment or other requirements.
Treatment Technique (TT): a required process intended to reduce levels of a contaminant in drinking water.
Maximum
Maximum Residual Disinfectant Level (MRDL): the highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
Non-Detects (ND): lab analysis indicates that the contaminant is not present.
Parts per Million (ppm) or milligrams per liter (mg/l)
Parts per Billion (ppb) or micrograms per liter (µg/l)
Picocuries per Liter (pCi/L): a measure of the radioactivity in water.
Millirems per Year (mrem/yr): measure of radiation absorbed by the body.
Monitoring Period Average (MPA): An average of sample results obtained during a defined time frame, common examples of monitoring periods are monthly, quarterly and yearly.
Nephelometric Turbidity Unit (NTU): a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person. Turbidity is not regulated for groundwater systems.
Running Annual Average (RAA): an average of sample results obtained over the most current 12 months and used to determine compliance with MCLs.

Testing Results for: City of Wichita

Microbiological	Result	MCL	MCLG	Typical Source
COLIFORM (TCR)	In the month of July, 1.55% of samples returned as positive	MCL: Systems that Collect 40 or More Samples per Month - No more than 5% positive monthly samples;	0	Naturally present in the environment

Regulated Contaminants	Collection Date	Your Highest Value	Range (low/high)	Unit	MCL	MCLG	Typical Source
ARSENIC	5/21/2013	1.6	1.6	ppb	10	0	Erosion of natural deposits
BARIUM	5/21/2013	0.042	0.042	ppm	2	2	Erosion of natural deposits
FLUORIDE	5/21/2013	0.32	0.32	ppm	4	4	Erosion of natural deposits
NITRATE	8/6/2013	1.3	0.63 - 1.3	ppm	10	10	Runoff from fertilizer use
SELENIUM	5/21/2013	3.5	3.5	ppb	50	50	Erosion of natural deposits
TURBIDITY	4/11/2013	0.24	0.24	NTU	1	-	Soil runoff

Disinfection Byproducts	Monitoring Period	Your Highest RAA	Range (low/high)	Unit	MCL	MCLG	Typical Source
TOTAL HALOACETIC ACIDS (HAA5)	2013	12	4.2 - 12	ppb	60	0	By-product of drinking water chlorination
TOTAL TRIHALOMETHANES (TTHMs)	2013	24	9.7 - 30	ppb	80	0	By-product of drinking water chlorination
BROMATE	2013	<0.005	<0.005-7.5	ppb	10	0	By-product of drinking water disinfection

Lead and Copper	Monitoring Period	90 th Percentile	Range (low/high)	Unit	AL	Sites Over AL	Typical Source
COPPER, FREE	2012	0.0964		ppm	1.3	0	Corrosion of household plumbing
LEAD	2012	8.2		ppb	15	0	Corrosion of household plumbing

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Your water system is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.

Chloramines Maximum Residual Disinfectant Level	MRDL	MRDL Units	RAA	RAA Units
04/01/2013-04/30/2013	2.13	MG/L	2.09	MG/L

Total Organic Carbon Lowest Month for Removal	Number of Samples	Actual Removal Ratio	Required Removal Ratio	Lowest Monthly Removal Ratio
12/1/2013-12/31/2013	36	1.92	1.0 RATIO	1.60

Secondary Contaminants	Collection Date	Your Highest Value	Range (low/high)	Unit	SMCL
ALKALINITY, TOTAL	5/21/2013	72.8	72.8	MG/L	300
BROMATE	11/7/2012	7.5	5.8 - 7.5	ppb	10
CALCIUM	5/21/2013	22	22	MG/L	200
CHLORIDE	5/21/2013	130	130	MG/L	250
CONDUCTIVITY @ 25 C UMHO/CM	5/21/2013	760	760	UMHO/CM	1500
HARDNESS, TOTAL (AS CaCO3)	5/21/2013	120	120	MG/L	400
MAGNESIUM	5/21/2013	15	15	MG/L	150
PH	5/21/2013	8	8	PH	8.5
PHOSPHORUS, TOTAL	5/21/2013	0.049	0.049	MG/L	5
POTASSIUM	5/21/2013	4.3	4.3	MG/L	100
SILICA	5/21/2013	10	10	MG/L	50
SODIUM	5/21/2013	100	100	MG/L	100
SULFATE	5/21/2013	84	84	MG/L	250
TDS	5/21/2013	420	420	MG/L	500
ZINC	5/21/2013	0.01	0.01	MG/L	5

During the 2013 calendar year, we had no violation(s) of drinking water regulations.

Additional Required Health Effects Language:

Total organic carbon (TOC) has no health effects. However, total organic carbon provides a medium for the formation of disinfection byproducts. These byproducts include trihalomethanes (THMs) and halo acetic acids (HAAs). Drinking water containing these byproducts in excess of the MCL may lead to adverse health effects, liver or kidney problems, or nervous system effects, and may lead to an increased risk of getting cancer.

Please Note: Because of sampling schedules, results may be older than 1 year.

Attachment P-1

Phase I ESA Report (October 22, 2014)

Phase I Environmental Site Assessment

WSU Innovation Campus

4201 E 21st St. N

Wichita, Sedgwick County, Kansas

October 22, 2014

Terracon Project No. 01147766



Prepared for:

MKEC Engineering Consultants, Inc.
Wichita, Kansas

Prepared by:

Terracon Consultants, Inc.
Wichita, Kansas

terracon.com

Terracon

Environmental



Facilities



Geotechnical



Materials

October 22, 2014



MKEC Engineering Consultants, Inc.
411 North Webb Rd
Wichita, KS 67206

Attn: Mr. Ken Kallenbach
P: (316) 684-9600
E: kkallenbach@mkec.com

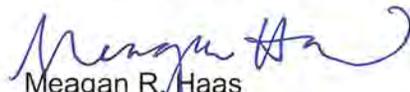
Re: Phase I Environmental Site Assessment
WSU Innovation Campus
1845 Fairmount
Wichita, Sedgwick County, Kansas
Terracon Project No. 01147766

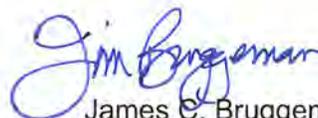
Dear Mr. Kallenbach:

Terracon Consultants, Inc. (Terracon) is pleased to submit the enclosed Phase I Environmental Site Assessment (ESA) report for the above-referenced site. This assessment was performed in accordance with Terracon Proposal No. E0114197 dated September 4, 2014.

We appreciate the opportunity to be of service to you on this project. In addition to Phase I services, our professionals provide geotechnical, environmental, 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.


Meagan R. Haas
Field Geologist


James C. Bruggeman
Due Diligence Department Manager

Attachments

Terracon Consultants Inc. 1815 S. Eisenhower Wichita, KS 67209

P 316-262-0171 F 316-262-6997 terracon.com



Environmental

Facilities

Geotechnical

Materials

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EXECUTIVE SUMMARY

This Phase I Environmental Site Assessment (ESA) was performed in accordance with Terracon Proposal No. E0114197 dated September 4, 2014, and was conducted consistent with the procedures included in ASTM E 1527-13, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. The ESA was conducted under the supervision or responsible charge of James C. Bruggeman, Environmental Professional. Meagan R. Haas performed the site reconnaissance on October 14, 2014.

Findings

A summary of findings is provided below. It should be recognized that details were not included or fully developed in this section and the report must be read in its entirety for a comprehensive understanding of the items contained herein.

Site Description and Use

The site is a golf course facility located at Wichita State University (WSU), a shop building (and associated lean-to structure and metal enclosed shed), a single-office building, a golf pro shop, Hartman Golf Practice building, plus a multi-story apartment building (Wheatshocker Apartments), situated on approximately 120 acres. The shop building includes equipment maintenance areas, a wash bay area, a fuelling pump island area, storage closets, a restroom, a break room/lounge area, office, and a mezzanine are utilized for storage. The golf pro shop includes a sales floor, kitchen, dining area, storage closets, and restrooms. The Hartman golf practice building includes a golf practice area and storage room.

Historical Information

Based on review of readily available historical information, the site has been developed as a golf course since approximately 1938. The onsite Wheatshocker Apartments were added in approximately 1968, the current shop building was constructed in approximately 1991, the golf pro shop was added in approximately 1996, and the Hartman Golf Practice building in 2010. Mr. Scott Hill, Golf Course Superintendent, is not aware of leaks and/or releases associated with the AST and/or UST located adjacent east of the shop building. Additionally, a leak detection monitoring unit was observed onsite during the site reconnaissance. Although there are no documented releases associated with the onsite UST, the potential for impact to site soil and/or groundwater in the vicinity of the shop UST from possible future releases is considered REC to the site.

Records Review

Selected federal and state environmental regulatory databases as well as responses from state and local regulatory agencies were reviewed. The EDR database identified eight LUST, one SWF/LF, two SHWS, two UST, and one VCP facilities within the specified search radii. The site was identified in the UST regulatory database. A 1,000-gallon gasoline fuel UST was installed

Phase I Environmental Site Assessment

WSU Innovation Campus ■ Wichita, Kansas

October 22, 2014 ■ Terracon Project No. 01147766

onsite in 1988 and located adjacent east of the shop building. Based on information reviewed through the KDHE, the UST was last permitted in June 2014. Mr. Scott Hill, Golf Course Superintendent, is not aware of leaks and/or releases associated with the UST located adjacent east of the shop building. Additionally, a leak detection monitoring unit was observed onsite during the site reconnaissance. Although KDHE is not aware of documented releases associated with the onsite shop UST, the potential for impact to site soil and/or groundwater is considered REC to the site.

Site Reconnaissance

During the site reconnaissance, an air compressor, heating and cooling systems, a parts washer and associated 5-gallon container of solvent, a Floboy water pumping system components, mowing equipment and loader, a 500-gallon diesel AST, various enamel paint containers, spray paints, a flammables cabinet containing paints and a gas can, liquid and dry packaged herbicides and pesticides, four waste oil drums on secondary containment, multiple 5-gallon containers of new oils/lubricants, MSDS, ancillary UST equipment, interior floor drains, wash bay drain (grit trap?), pad-mounted transformer, stained gravel, construction/demolition debris and fill materials, a tributary, and a tree/brush burn pit. The shop UST and fuel dispensing operations are considered RECs at this time. Additionally, the unknown integrity and lack of maintenance on the possible shop wash-bay sediment clean-out is considered a REC at this time, and based on the current uses of petroleum products, fertilizers, pesticides, solvents, etc. at the site potential releases to the floor drains observed in the shop building is also considered a REC.

Adjoining Properties

Adjacent north of the site are Eck Stadium, WSU Welcome Center, WSU Alumni Center, followed by E 21st St. N, and then residences. Adjacent east of the site are N Oliver Ave., followed by Unity Center, River Community Church, Child Start, Wichita Hebrew Cemetery, White Chapel Memorial Gardens, and residences. Adjacent south of the site are E 17th St. N, followed by residences and Paradise Baptist Church Paved parking areas, a softball field, WSU Police Station, WSU Campus Credit Union, WSU Offices, WSU National Institute for Aviation Research, and WSU Maintenance Facility (Gaddis) are located adjacent west of the site. Based on the cross-gradient location the WSU Maintenance Facility (Gaddis) is not considered a REC at this time. Indications of RECs were not observed with the adjoining properties.

Additional Services

As requested by the client, the following additional services were performed as part of this assessment:

- Limited Threatened/Endangered Species Review
- Limited Historic Properties/Archeological Resources Review

Various state and federal threatened and/or endangered species were identified for Sedgwick County during the limited threatened/endangered species review. This level of assessment did

not evaluate habitat suitability for T&E species. In addition, site observations to evaluate the potential presence/absence of listed species were not conducted. Based on the nature of the site, suitable habitat and/or T&E species may be present on the site. A formal T&E species survey would be required to evaluate habitat suitability and/or the presence of T&E species. A limited literature and agency file review was conducted to identify the potential occurrence of cultural resources on the site. Cultural resources or structures of historical significance were not documented on the National and State Registers of Historic Places for the site.

Conclusions

We have performed a Phase I ESA consistent with the procedures in the ASTM Practice E 1527-13 4201 E 21st St. N, Wichita, Sedgwick County, Kansas, the site. The following recognized environmental conditions were identified in connection with the site:

- Potential impact to site soil and/or groundwater from a possible hydrocarbon release from the UST located adjacent east of the shop building
- Potential impact from the current use of solvents in the shop building
- Potential impact to the site soil and/or groundwater from the storage and apparent release of herbicides/pesticides in and near the shop building area
- Potential releases to shop floor drains due to the current use of petroleum products, solvents, and herbicides/pesticides
- The unknown integrity and lack of maintenance on the possible sediment clean-out located adjacent east of the shop wash bay area is considered a REC at this time.

Recommendations

Terracon recommends a subsurface investigation in the southwestern portion of the site (areas near the shop building) to evaluate whether potential releases from the above identified RECs have impacted environmental media on the site.

In addition, based on the nature of the site, suitable habitat and/or T&E species may be present on the site. A formal T&E species survey would be required to evaluate habitat suitability and/or the presence of T&E species.

Regarding the onsite ponds and waterways, we understand our client has or will be contracting another firm to provide an assessment of potential wetland and waters of the U.S. Therefore Terracon has no recommendations regarding these potential issues.

Furthermore, we understand select buildings onsite are to be demolished. Prior to demolition, an asbestos survey should be performed, if one has not been previously performed.

**PHASE I ENVIRONMENTAL SITE ASSESSMENT
WSU INNOVATION CAMPUS
1845 FAIRMOUNT
WICHITA, SEDGWICK COUNTY, KANSAS**

Terracon Project No. 01147766
October 22, 2014

1.0 INTRODUCTION

1.1 Site Description

Site Name	WSU Innovation Campus
Site Location/Address	1845 Fairmount, Wichita, Sedgwick County, Kansas
Land Area	Approximately 120 acres
Site Improvements	The site is a golf course improved with a shop, Hartman Golf Practice building, a single-room office building, golf pro shop, a lean-to shed, a metal enclosed shed, and the adjacent Wheatshocker Apartments.

The site location is depicted on Figure 1 of Appendix A, which was reproduced from a portion of the Wichita East, Kansas USGS 7.5-minute series topographic map. A Site Diagram of the site and adjoining properties is included as Figure 2 of Appendix A. Acronyms and terms used in this report are described in Appendix B.

1.2 Scope of Services

This Phase I ESA was performed in accordance with Terracon Proposal No. E0114197 dated September 4, 2014, and was conducted consistent with the procedures included in ASTM E 1527-13, *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. This purpose was undertaken through user-provided information, a regulatory database review, historical and physical records review, interviews, including local government inquiries, as applicable, user-provided information, 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.

- Limited Threatened/Endangered Species Review
- Limited Historic Properties/Archaeological Resources Review

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 Significant Data Gaps

Based upon the agreed-on scope of services, this ESA did not include subsurface or other invasive assessments, vapor intrusion assessments or indoor air quality assessments (i.e. evaluation of the presence of vapors within a building structure), business environmental risk evaluations, or other services not particularly identified and discussed herein. Credentials of the company (Statement of Qualifications) have not been included in this report but are available upon request. Pertinent documents are referred to in the text of this report, and a separate reference section has not been included. Reasonable attempts were made to obtain information within the scope and time constraints set forth by the client; however, in some instances, information requested is not, or was not, received by the issuance date of the report. Information obtained for this ESA was received from several sources that we believe to be reliable; nonetheless, the authenticity or reliability of these sources cannot and is not warranted hereunder.

An evaluation of the significance of these limitations and missing information with respect to our findings has been conducted, and where appropriate, significant data gaps are identified and discussed in the text of the report. 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 or petroleum products 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 MKEC Engineering Consultants, Inc. Use or reliance by any other party is prohibited without the written authorization of MKEC Engineering Consultants, Inc. 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 E 1527-13 Sections 4.6 and 4.8. 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 E 1527-13.

1.6 Client Provided Information

Prior to the site visit, Ms. Mary Herrin, client's representative, was asked to provide the following user questionnaire information as described in ASTM E 1527-13 Section 6.

Client Questionnaire Responses

Client Questionnaire Item	Client Did Not Respond	Client's Response	
		Yes	No
Aware of any Environmental Cleanup Liens against the site.			**X
Actual Knowledge of Environmental Liens or Activity Use Limitations (AULs) that may encumber the site.			**X
Aware of any Specialized Knowledge or Experience related to the site or nearby properties.			X
Actual Knowledge of a Significantly Lower Purchase Price because of hazardous substances or petroleum products.			*NA
Commonly Known or Reasonably Ascertainable Information that is material to a release in connection with the site.			X
Obvious Indicators of Contamination at the site.			X

*Client representative reported as Not Applicable and “was a transfer of ownership.”

**Client representative indicated “no search has been done, but a title report can be made available.”

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

2.0 PHYSICAL SETTING

Physical Setting Information		Source
Topography (Refer to Appendix A for an excerpt of the Topographic Map)		
Site Elevation	Approximately 1,400 feet (NGVD)	USGS Topographic Map, Wichita East, KS, 1961, Photo revised 1982
Surface Runoff/ Topographic Gradient	Very gently sloping toward the north to northwest.	
Closest Surface Water	A tributary to Chisholm Creek located on the northern portion of the site.	

Soil Characteristics		
Soil Type	Urban Land-Farnum Complex, 0 to 3 percent slopes	USDA Natural Resources Conservation Service Web Soil Survey, Sedgwick County, Kansas accessed October 2014
Description	The Urban land portion is covered by streets, parking lots, buildings, and other structures that obscure or alter the soils so identification is not feasible. The Farnum series consists of very deep, well drained soils that formed in loamy alluvium. Slopes range from 0 to 6 percent.	
Geology/Hydrogeology		
Formation	Wellington Formation (Permian Age)	Geohydrology of Sedgwick County, Kansas, Kansas Geological Survey (KGS) Bulletin 176, Lane and Miller, 1965
Description	The site is located in the Wellington Uplands. The Wellington Uplands are characterized by low, rolling hills drained by small creeks. Surficial soils in the area are underlain by the Permian-age Wellington Shale Formation, which consists predominantly of gray shale with beds of impure limestone and gypsum.	
Estimated Depth to First Occurrence of Groundwater	Approximately 20 to 30 feet below ground surface.	KGS Water Well Completion Records (WWC-5) Database
*Hydrogeologic Gradient	Estimated to the north on the northern portion of the site, and to the southwest on the southern portion of the site.	Water-Resources Investigations Report 88-4225; Plate 2, Map Showing Ground-Water Levels and Depths to Water in Sedgwick County, Kansas by Hugh E. Bevans, 1988

* The groundwater flow direction and the depth to shallow, unconfined groundwater, if present, would likely vary depending upon seasonal variations in rainfall and other hydrogeological features. Without the benefit of on-site groundwater monitoring wells surveyed to a datum, groundwater depth and flow direction beneath the site cannot be directly ascertained.

3.0 HISTORICAL USE INFORMATION

Terracon reviewed the following historical sources to develop a history of the previous uses of the site and surrounding area, in order to help identify past uses for indications of RECs. Copies of selected historical documents are included in Appendix C.

3.1 Historical Topographic Maps

Readily available historical USGS topographic maps were reviewed to evaluate land development in connection with the site. Reviewed historical topographic maps are summarized below.

- Wichita, Kansas, published in **1894** (scale 1:125,000)
- Wichita East, Kansas, published in **1943** (scale 1:31,680)
- Wichita East, Kansas, published in **1956** (scale 1:24,000)
- Wichita East, Kansas, published in **1961**, photorevised in **1970, 1975** and **1982** (scale 1:24,000)

Historical Topographic Maps

Direction	Description
Site	<p>1894: The scale is not adequate to identify site specific details, however, the site appears to be undeveloped land located northeast of metropolitan Wichita, Kansas.</p> <p>1943-1961: The site is apparently vacant, with an apparent tributary (and associated ponds) to Chisholm Creek crossing through the northern portion of the site.</p> <p>1970-1982: It appears the site is a part of "Wichita State University," and a multi-residential structure (currently Wheatshocker Apartments) has been added to the southwestern portion of the site.</p>
North	<p>1894: The scale is not adequate to identify site specific details, however, the adjacent north property appears to be a road corresponding to E 21st St. N, followed by undeveloped land.</p> <p>1943: An apparent commercial structure, followed by E 21st St. N, and then undeveloped land, an unnamed road, and a tributary to Chisholm Creek.</p> <p>1956: The commercial structure located adjacent north of the site is labeled "Crestview Country Club." Areas north of E 21st St. N are developed areas.</p> <p>1961-1970: The Crestview Country Club has added two smaller structures and a small pond. An apparent residential development has been added north of E 21st St. N.</p> <p>1975: No apparent changes, except areas northeast of the site (across the E 21st St. N and N Oliver Ave. intersection) have been residentially developed.</p> <p>1982: No apparent changes except for the addition of a large commercial structure northeast of the site.</p>

Direction	Description
East	<p>1894: The scale is not adequate to identify site specific details, however, the adjacent east property appears to be a road corresponding to N Oliver Ave., followed by undeveloped land.</p> <p>1943: N Oliver Ave., followed by an area labeled “Memorial Lawns Cemetery.”</p> <p>1956: Three apparent commercial structures have been added adjacent east of the site, two of which are church structures.</p> <p>1961: An additional apparent commercial structure has been added.</p> <p>1970-1982: No other apparent changes except areas east of the site have apparently become more commercially developed.</p>
South	<p>1894: The scale is not adequate to identify site specific details, however, the adjacent south property appears to be railroad tracks, followed by undeveloped land.</p> <p>1943: A road corresponding to E 17th St. N, followed by undeveloped land and then railroad tracks.</p> <p>1956: Areas south of E 17th St. N are now developed.</p> <p>1961-1982: A church structure has been added south of E 17th St. N.</p>
West	<p>1894: The scale is not adequate to identify site specific details, however, the adjacent west property appears to be developed land located within metropolitan Wichita, Kansas.</p> <p>1943: Apparent residences, followed by Wichita State University.</p> <p>1956-1961: Apparent residences have been removed and areas adjacent west of the site are now a part of Wichita State University. A water tower structure associated with the university campus has also been added.</p> <p>1970-1982: No apparent changes except for the addition of structures to the university campus area.</p>

3.2 Historical Aerial Photographs

Selected historical aerial photographs were reviewed at approximately 10 to 15 year intervals, if readily available, to obtain information concerning the history of development on and near the site. Evaluation of these aerials may be limited by a photo’s quality and scale. Selected photographs are summarized below.

- Unknown Source: **1938**; scale unknown
- Wichita-Sedgwick County Metropolitan Area Planning Commission (WSCMAPC) and KG&E: **1960, 1968, 1974, and 1986**; 1”=200’
- National Agricultural Imaging Program (NAIP): **1991**; scale unknown
- Google Earth Imagery: **1996, 2004, 2008 and 2014**; scale unknown

Historical Aerial Photographs

Direction	Description
Site	<p>1938-1960: The area is utilized as a golf course, with apparent ponds/sand traps scattered throughout the site. Additionally, a tributary to Chisholm Creek crosses the northern portion of the site.</p> <p>1968-1974: A horseshoe-shaped building (currently Wheatshocker Apartments) and associated paved parking areas have been added to the southwestern portion of the site. Two small structures (former shop buildings) are located along the southwestern boundary of the site.</p> <p>1986: The two smaller structures (former shop buildings?) located along the southwestern boundary of the site, have been removed and replaced with a single structure.</p> <p>1991: The previously mentioned structure located along the southwestern boundary of the site has been removed. A structure corresponding to the current shop has been added east of the apartment building.</p> <p>1996-2008: A structure corresponding to the golf pro shop has been added to the northwestern portion of the site.</p> <p>2014: A structure corresponding to the current Hartman Golf Practice building has been added to the northeastern portion of the site.</p>
North	<p>1938: A commercial structure (former club house), apparent shed building, multiple apparent ponds, and vacant land, followed by E 21st St. N, and then agricultural land and a farmstead.</p> <p>1960-1974: The commercial structure includes an addition and two apparent swimming pools. Residential development is apparent north of E 21st St. N.</p> <p>1986: The structure added in 1960 has been removed, and a baseball stadium and associated paved parking areas have been added west of the apparent former clubhouse structure.</p> <p>1991-1996: A structure corresponding to the WSU Alumni Center has been added adjacent east of the former clubhouse.</p> <p>2004: The former clubhouse has been removed.</p> <p>2008: A commercial building corresponding to the WSU Welcome Center has replaced the previous structure.</p> <p>2014: A commercial structure has been added adjacent northwest of the baseball stadium.</p>
East	<p>1938: A road corresponding to N Oliver Ave., followed by apparent agricultural land and a cemetery (and associated structures).</p> <p>1960: An apparent residence and three commercial structures have been added north of the cemetery.</p> <p>1968: No apparent change, except one of the commercial structures has constructed an addition.</p> <p>1974: A commercial structure has been added (east of N Oliver Ave.).</p> <p>1986-2014: No apparent change, except one of the commercial structures has constructed an addition.</p>

Direction	Description
South	<p>1938: A road corresponding to E 17th St. N, followed by vacant agricultural land, and then railroad tracks. Multiple apparent residences are located southwest (across E 17th St. N) of the site.</p> <p>1960-2014: Areas south of the site (south of E 17th St. N) have been residentially developed, and church structure has been added.</p>
West	<p>1938: Apparent residences scattered throughout and apparent agricultural land.</p> <p>1960-1974: Multiple commercial structures associated with the WSU Campus and a water tower associated with WSU has been added.</p> <p>1986: A baseball stadium and tennis courts have been added.</p> <p>1991-1996: No apparent changes, except a few more structures associated with WSU have been constructed.</p> <p>2004-2014: No apparent changes, except for the addition of paved parking areas associated with WSU.</p>

3.3 Historical City Directories

The Polk's City Directory and Cole Information Services city directories used in this study were made available through EDR (selected years reviewed: 1942 to 2013) and were reviewed at approximate five-year intervals, if readily available. The current street address for the site was identified as 4201 E 21st St. N.

Historical City Directories

Direction	Description
Site	<p>4201 E 21st St. N (site and adjacent north): No listing (1942-1955); Crestview Country Club (1964-1967); Shocker Alumni & Faculty Club/WSU Golf Course (1972-1977); Same as above (SAA) and WSU Pro Golf Shop (1982); SAA and WSU Swim Club (1987); SAA and Latour Management Inc. Marcus Center (1992); University Alumni Club/WSU Golf (1995); WSU Multi Cultural Resource Center (1999); Braeburn Golf Course at WSU (2003-2008); No listing (2013).</p>
North	<p>3912 E 21st St. N: No listing (1942-1987); Alpha Pi Sorority (1992-2013).</p> <p>4000 E 21st St. N: Vacant (1942); Iris Pendleton (1955); Vacant (1964); Harvey Christensen (1967); John Poston (1972); Mary Wilcox (1977); No Return (1982); Vacant (1987); No listing (1987-1992); Robert Clarke (1995); Phi Delta Theta (1999-2013).</p> <p>4001 E 21st St. N: Crestview Country Club (1942-1955); No listing (1964-2013).</p> <p>4100 E 21st St. N: No listing (1942-1987); Eck Stadium (1992); No listing (1995); Eck Stadium (1999); No listing (2003-2013).</p> <p>4301 E 21st St. N: No listing (1942-2013).</p> <p>4902 E 21st St. N: No listing (1942-1977); Vacant (1982); 24 Hr. Emergency Dental Clinic (1987); Williams DDS Office (1992-2013).</p>

Direction	Description
East	<p>1806 N Oliver Ave.: No listing (1942-1955); White Chapel Memorial Gardens Cemetery (1964-1992); No listing (1995-1999); Gail Webb (2003); White Chapel Memorial Corp. (2008); No listing (2013).</p> <p>1824 N Oliver Ave.: No listing (1942-1999); White Chapel Memorial Garden (2003-2008); No listing (2013).</p> <p>1920 N Oliver Ave.: No listing (1942-2013).</p> <p>2020 N Oliver Ave.: No listing (1942-1967); General Motors Acceptance Corp. (1972-1987); Kurdian Travel Agency (1992-1995); Travel & Transport East (1999); No listing (2003-2008); Child Start Inc. Martin Luther (2013).</p> <p>2130 N Oliver Ave.: No listing (1942-1964); University Baptist Church (1967-1999); River Community Church (2003-2008); No listing (2013).</p> <p>2160 N Oliver Ave.: No listing (1942); Wichita Unity Church (1955-2008); No listing (2013).</p>
South	Residences and Paradise Baptist Church, no listings available.
West	Wichita State University (WSU) Campus (1845 Fairmont, not listed and includes multiple structures).

3.4 Historical Fire Insurance Maps

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. EDR provided Sanborn maps as summarized below.

- EDR: **1935, 1950, and 1964**; 1"=100'

Historical Fire Insurance Maps

Direction	Description
Site	1935-1964: The site is not mapped.
North	<p>1935-1950: The only structure mapped north of the site is a structure labeled "Crestview Country Club" which included a "club house" structure, a "swimming pool," and "pro. house."</p> <p>1964: The Crestview Country Club has added a "bath house" and "swimming pool" adjacent southeast of the club house.</p>
East	1935-1964: Areas adjacent east of the site are not mapped.
South	1935-1964: Areas adjacent south of the site are not mapped.
West	<p>1935-1950: Areas adjacent west of the site are not mapped.</p> <p>1964: A "broadcasting tower," "heating research building, a Crestview Country Club "maintenance building," and two associated "general storage" buildings. A structure labeled "gas tank" is located adjacent east of one of the general storage buildings.</p>

Based on the cross-gradient location, the adjacent west apparent above-ground “gas tank” feature is not considered a REC in connection to the site at this time.

3.5 Site Ownership

Based on a review of information obtained from the Sedgwick County assessor’s records, the current site owner is Wichita State University.

3.6 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.

3.7 Environmental Liens

Environmental lien 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.

3.8 Interviews Regarding Current and Historical Uses

The following individual was interviewed regarding the current and historical use of the site.

Interviewees

Interviewer	Interviewee/Phone #	Title	Date/Time
Meagan Haas	Mr. Scott Hill/316-685-6831	Golf Course Superintendent	October 14, 2014/3:00pm

Mr. Scott Hill, the Golf Course Superintendent, indicated he has been associated with the site for approximately forty years. He indicated the site is currently utilized for a variety of uses which include: an apartment building, a repair/maintenance shop facility, a golf pro shop, golf practice building, a single-office building, and golf course. He was not aware of oil/water separators located onsite, however he indicated there may be a grit trap associated with the drain in the wash bay (adjacent southeast of the shop building). He indicated the floor drains observed onsite discharge to the city sanitary sewer. He stated the City of Wichita provides the potable water supply and sewer to the site, Westar Energy provides electricity, and Kansas Gas provides the natural gas to the site.

According to Mr. Hill, a 500-gallon diesel fuel AST and 1,000-gallon gasoline fuel UST have been onsite for over 20 years. He is not aware of leaks and or releases associated with the onsite AST and/or UST. Additionally, a leak detection monitoring unit for the UST was observed

onsite during the site reconnaissance. Mr. Hill indicated he is not aware of a Spill Prevention, Control, and Countermeasure (SPCC) plan in place for the site. However, he indicated obtaining an SPCC plan is not necessary at this point since the existing site structures and materials are anticipated to be removed from the site in November 2014.

Mr. Hill was not aware of any pending, threatened or past environmental litigation, proceedings or notices of possible violations of environmental laws or liability or potential environmental concerns in connection with the site.

3.9 Prior Report Review

Previous environmental reports for the site were not provided by the client to Terracon for review.

3.10 Historical Use Information Summary

Based on review of readily available historical information, the site has been developed as a golf course since approximately 1938. The onsite Wheatshocker Apartments were added in approximately 1968, the current shop building was constructed in approximately 1991, the golf pro shop was added in approximately 1996, and the Hartman Golf Practice building in 2010. Mr. Scott Hill, Golf Course Superintendent, is not aware of leaks and/or releases associated with the AST and/or UST located adjacent east of the shop building. Additionally, a leak detection monitoring unit was observed onsite during the site reconnaissance. Although there are no documented releases associated with the onsite UST, the potential for impact to site soil and/or groundwater in the vicinity of the shop UST from possible future releases is considered REC to the site.

4.0 RECORDS REVIEW

Regulatory database information was provided by EDR, a contract information services company. 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, and 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 apparent groundwater gradient in relation to the site. As stated previously, the groundwater flow direction and the depth to shallow groundwater, if present, would likely vary depending upon seasonal variations in rainfall and the depth to the soil/bedrock interface. Without the benefit of on-site groundwater monitoring wells surveyed to a datum, groundwater depth and flow direction beneath the site cannot be directly ascertained.

4.1 Federal and State/Tribal Databases

Listed below are the facility listings identified on federal and state/tribal databases within the ASTM-required search distances from the approximate site boundaries. Database definition, descriptions, and the database search report are included in Appendix D.

Federal Databases

Database	Description	Radius (miles)	Listings
CERCLIS	The CERCLIS database is a compilation of facilities which the EPA has investigated or is currently investigating for a release or threatened release of hazardous substances pursuant to the CERCLA of 1980.	0.5	0
CERCLIS / NFRAP	CERCLIS/NFRAP refers to facilities that have been removed and archived from EPA's inventory of CERCLA sites.	0.5	0
ERNS	The Emergency Response Notification System (ERNS) is a listing compiled by the EPA on reported releases of petroleum and hazardous substances to the air, soil and/or water.	Site	0
IC / EC	A listing of sites with institutional and/or engineering controls in place. IC include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls. EC include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.	Site	0
NPL	The NPL is the EPA's database of uncontrolled or abandoned hazardous waste facilities that have been listed for priority remedial actions under the Superfund Program.	1	0
NPL (Delisted)	The NPL (Delisted) refers to facilities that have been removed from the NPL.	0.5	0
RCRA CORRACTS/ TSD	The EPA maintains a database of RCRA facilities associated with treatment, storage, and disposal (TSD) of hazardous waste that are undergoing "corrective action." A "corrective action" order is issued when there has been a release of hazardous waste or constituents into the environment from a RCRA facility.	1	0
RCRA Generators	The RCRA Generators database, maintained by the EPA, lists facilities that generate hazardous waste as part of their normal business practices. Generators are listed as either large (LQG), small (SQG), or conditionally exempt (CESQG). LQG produce at least 1000 kg/month of non-acutely hazardous waste or 1 kg/month of acutely hazardous waste. SQG produce 100-1000 kg/month of non-acutely hazardous waste. CESQG are those that generate less than 100 kg/month of non-acutely hazardous waste.	Site and adjoining properties	0

RCRA Non-CORRACTS/TSD	The RCRA Non-CORRACTS/TSD Database is a compilation by the EPA of facilities which report storage, transportation, treatment, or disposal of hazardous waste. Unlike the RCRA CORRACTS/TSD database, the RCRA Non-CORRACTS/TSD database does not include RCRA facilities where corrective action is required.	0.5	0
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State/Tribal Databases

Database	Description	Radius (miles)	Listings
Brownfields	State and/or Tribal listing of Brownfield properties addressed by Cooperative Agreement Recipients or Targeted Brownfields Assessments.	0.5	0
IC	Sites that have institutional control information entered into the Identified Sites List database maintained by the KDHE.	Site	0
LUST	State and/or Tribal database of leaking underground storage tanks in the state of Kansas.	0.5	8
SHWS	The Kansas Department of Health and Environment (KDHE) maintains a database of state equivalent CERCLIS facilities in the state of Kansas.	0.5	2
SWF/LF	State and/or Tribal database of solid waste facilities located within Kansas. The database information may include the facility name, class, operation type, area, estimated operational life, and owner.	0.5	1
UST	State and/or Tribal database of registered storage tanks in the State of Kansas which may include the owner and location of the tanks.	Site and adjoining properties	2
VCP	State and/or Tribal facilities included as Voluntary Cleanup Program sites.	0.5	1

In addition to the above ASTM-required listings, Terracon reviewed other federal, state, local, and proprietary databases provided by the database firm. A list of the additional reviewed databases is included in the regulatory database report included in Appendix D.

The following table summarizes the site-specific information provided by the database and/or gathered by this office for identified facilities. Facilities are listed in order of proximity to the site. Additional discussion for selected facilities follows the summary table.

Listed Facilities

Facility Name And Location	Estimated Distance/Direction/Gradient	Database Listings
WSU-Golf Course 4110 E 17 th St.	The site	UST, Financial Assurance
White Chapel Cemetery 1806 N Oliver Ave.	Adjacent east (across N Oliver Ave.)/cross-gradient	RCRA-NonGen, LUST, UST
Redbud Path (Oliver to Woodlawn) From N Oliver Ave. to N Woodlawn Blvd. and adj. to E 17 th St. N	Adjacent southeast (across N Oliver Ave.)/cross-gradient	SHWS/VCP
Wichita State University, Various Halls 1845 Fairmont	Approximately 240-2,700 feet/west/cross to down-gradient	LUST
Wichita State University 4010 E 17 th St.	Approximately 550 feet/west/cross to down-gradient	SWF/LF
Wichita State University, Heskett Center 1845 Fairmont	Approximately 500 feet/west/cross to down-gradient	LUST
Quiktrip #342 5001 E 21 st St.	Approximately 600 feet/northeast/up-gradient	LUST
KMART #7117 5010 E 21 st St.	Approximately 800 feet/northeast/up-gradient	LUST
Cerebral Palsy Research Foundation	Approximately 1,200 feet/east/cross-gradient	LUST
Quiring Mortuary 3425 E 21 st St.	Approximately 1,600 feet/west/cross to down-gradient	LUST
Best Cleaners 1427 N Oliver Ave.	Approximately 2,100 feet/south/down-gradient	SHWS
Danny's Burgers, Former 2147 N Hillside St.	Approximately 2,600 feet/west/cross to down-gradient	LUST

WSU-Golf Course

This facility, located on the site, is included in the UST and Financial Assurance databases. The Financial Assurance database indicates the site's financial responsibility is through a third party liability insurance. According to EDR, a 1,000-gallon gasoline fuel UST was installed onsite in 1988. Based on information reviewed through the Kansas Department of Environment (KDHE) Underground Storage Tank section viewed online, the UST was last permitted in June 2014. Additionally, a leak detection monitoring unit was observed onsite during the site reconnaissance. Although KDHE is not aware of documented releases associated with the onsite UST, the potential for impact to site soil and/or groundwater is considered REC to the site.

White Chapel Cemetery

This facility, located adjacent east (across N Oliver Ave.) and cross-gradient of the site, is listed by EDR in the LUST and UST databases with a “closed” KDHE LUST investigation status. According to EDR, one 550-gallon UST and associated lines were removed from this facility in 1991. Additionally, this facility is a RCRA Non-generating facility. The EDR indicates this facility does not currently generate hazardous waste, with no recorded violations. See Section 4.2.1 for additional information.

Redbud Path

This facility, located adjacent southeast (across N Oliver Ave.) and cross-gradient of the site is listed by EDR in the SHWS and VCP databases. Based on information reviewed on the KDHE Identified Sites List (ISL) webpage, a Phase I report for this facility indicated the historic use of the property as a railroad corridor as a REC. As a result, a Phase II Limited Site Investigation (LSI) was performed at this facility. “A total of 40 soil samples were collected from the property and analyzed for polycyclic aromatic hydrocarbons (PAHs) and metals (arsenic, cadmium, and lead).” Results of the Phase II LSI, generally identified the upper approximate two feet of soil to be impacted with PAH and metals above the KDHE Risk-Based Standards for Kansas (RSK). Prior to redevelopment of the property area, KDHE recommended the City of Wichita apply for the Voluntary Cleanup Program (VCP). Impact at this facility appears to be generally limited to the upper two to four feet of soils. Based on this information the Redbud Path facility is not considered a REC in connection to the site.

WSU – Various Halls

This facility(s), located approximately 240 to 2,700 feet west and cross to down-gradient of the site, is listed by EDR in the LUST database with “closed” KDHE LUST investigation statuses. According to EDR, nine separate LUST facilities are included under the same address, however each LUST facility is located throughout the adjacent west WSU campus area. The closest LUST facility listing is associated with the WSU Old Physical Building. This facility is apparently located approximately 240 feet west and cross to down-gradient of the site. According to EDR, two 2,000-gallon gasoline USTs were removed in 1989. Impacted soils identified in the area of the USTs were excavated to “below accepted levels,” and contaminated soil disposed offsite. As a result the facility received a “closed” KDHE LUST status. Based on this information, the “closed” KDHE LUST facilities located approximately 240 to 2,700 feet west and cross to down-gradient of the site are not considered a REC in connection to the site at this time.

Wichita State University (WSU) - 4010 E 17th St.

This facility, located approximately 550 feet west and cross to down-gradient of the site, is listed by EDR in the SWF/LF database. According to EDR, the facility falls under the SWF/LF classification; however the site includes composting of yard waste. The EDR report indicated the facility has a current composting permit. Based on the down-gradient location, the adjacent facility is not considered a REC to the site at this time.

The remaining facilities listed in the database report do not appear to represent RECs to the site at this time based upon regulatory status, apparent groundwater gradient, and/or distance from the site.

Unmapped facilities are those that do not contain sufficient address or location information to evaluate the facility listing locations relative to the site. The report listed TEN facilities in the unmapped section. Determining the location of unmapped facilities is beyond the scope of this assessment; however, none of these facilities were identified as the site or adjacent properties. These facilities are listed in the database report in Appendix D.

4.2 Local Agency Inquiries

4.2.1 Health Department/Environment

The South Central District of the Kansas Department of Health and Environment (SCKDHE) and KDHE Topeka were contacted regarding environmental concerns associated with the site and surrounding area. SCKDHE indicated that they were not aware of environmental concerns for the site and surrounding area, other than those facilities discussed in Section 4.1 of this report. Additionally, SCKDHE personnel verified that the closest LUST facility associated with the WSU Campus is located approximately 240 feet or more west and down-gradient of the site. SCKDHE personnel indicated the LUST facilities associated with the WSU Campus areas do not appear to be a concern to the site. KDHE Topeka provided the following information regarding the White Chapel LUST facility:

White Chapel Cemetery

KDHE Topeka provided Terracon with a Buried Tank Leak Assessment (BTLA) report dated December 1991 and April 1992. According to the BTLA reports, one 550-gallon UST and associated lines were removed from this facility in 1991. According to EDR, soils in the area were impacted by total petroleum hydrocarbons (TPH) due to tank overfills/spills, however according to the BTLA reports contaminants detected at this facility did not extend to groundwater. KDHE required that the contaminated soil be aerated, before returning to the area of excavation. In 1992 this facility received a “closed” KDHE LUST status. Based on this information and the cross-gradient location, the White Chapel Cemetery facility is not considered a REC.

4.2.2 Water Well Records

The KDHE list of registered water wells for Section 11 (the Section including the site), Township 27 South, Range 1 East was requested from the Kansas Geological Survey (KGS) through the KGS Water Well Completion Records Database. The database contains 28 water well records consisting of domestic, lawn and garden-domestic only and monitoring water wells. According to the KGS database and Mr. Scott Hill, Golf Course Superintendent, water wells are not located onsite. (Wells that appear on the KGS water well map/aerial in Appendix C are incorrectly

plotted, and are generally actually located four miles or more, cross and/or down-gradient of the site). The closest monitor wells to the site are apparently located approximately 2,000 feet south and down-gradient of the site. The database does not include records of wells constructed or plugged prior to 1974.

4.2.3 Oil and Gas Well Records

Available oil/gas drilling and plugging records for Section 11 (the Section including the site), Township 27 South, Range 1 East, were requested from the KGS through the KGS Oil and Gas Well Database. The database contains no oil/gas wells for Section 11, and the closest oil/gas well is approximately ½ mile northeast of the site. Based on the distance from the site, the oil/gas well is not a REC.

Oil and gas drilling/production operations may represent a potential source of salt water and hydrocarbon contamination to soil and groundwater. Dry holes with improperly installed or damaged plugs may represent potential pathways for salt water and hydrocarbons to migrate from deep strata into shallow soils and groundwater. In addition, drilling mud pits and/or workover pits associated with oil/gas wells could contain crude oil, salt water, and other contaminants.

4.3 Records Review Summary

Selected federal and state environmental regulatory databases as well as responses from state and local regulatory agencies were reviewed. The EDR database identified eight LUST, one SWF/LF, two SHWS, two UST, and one VCP facilities within the specified search radii. The site was identified in the UST regulatory database. A 1,000-gallon gasoline fuel UST was installed onsite in 1988 and located adjacent east of the shop building. Based on information reviewed through the KDHE, the UST was last permitted in June 2014. Mr. Scott Hill, Golf Course Superintendent, is not aware of leaks and/or releases associated with the UST located adjacent east of the shop building. Additionally, a leak detection monitoring unit was observed onsite during the site reconnaissance. Although KDHE is not aware of documented releases associated with the onsite shop UST, the potential for impact to site soil and/or groundwater is considered REC to 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. Figure 2 in Appendix A is a Site Diagram of the site. Photo documentation of the site at the time of the visual reconnaissance is provided in Appendix E. Credentials of the individuals planning and conducting the site visit are included in Appendix F.

General Site Information

Site Reconnaissance				
Field Personnel	Meagan R. Haas			
Reconnaissance Date	October 14, 2014			
Weather Conditions	Sunny and warm			
Site Contact/Title	Mr. Scott Hill / Golf Course Superintendent			
Building Description				
Building Identification	Building Use	Approx. Construction Date	Number of Stories	Approx. Size (ft ²)
Shop	Various Equipment Maintenance	1991	1.5	4,000
Lean-To Shed	Storage	1991	1	1,000
Enclosed Shed	Storage	1991	1	150
Wheatshocker Apartments	Residential	1968	6	30,000
Single-Office	Office	1996	1	100
Golf Pro Shop	Retail	1996	1	4,000
Hartman Golf Practice Facility	Golf Practice	2010	1	1,600
Site Utilities				
Drinking Water	City of Wichita			
Wastewater	City of Wichita			

5.2 Overview of Current Site Occupants and Operations

The site is a golf course facility located at WSU, a shop building (and associated lean-to structure and metal enclosed shed), a single-office building, a golf pro shop, Hartman Golf Practice building, plus a multi-story apartment building (Wheatshocker Apartments), situated on approximately 120 acres. The shop building includes equipment maintenance areas, a wash bay area, a fuelling pump island area, storage closets, a restroom, a break room/lounge area, office, and a mezzanine are utilized for storage. The golf pro shop includes a sales floor, kitchen, dining area, storage closets, and restrooms. The Hartman golf practice building includes a golf practice area and storage room.

5.3 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 Otherwise Identified
Site Operations, Processes, and Equipment	Emergency generators	
	Elevators	
	Air compressors	X
	Hydraulic lifts	
	Dry cleaning	
	Photo processing	
	Ventilation hoods and/or incinerators	
	Waste treatment systems and/or water treatment systems	X
	Heating and/or cooling systems	X
	Other processes or equipment	X
Aboveground Chemical or Waste Storage	Aboveground storage tanks	X
	Drums, barrels and/or containers ≥ 5 gallons	X
	MSDS	X
Underground Chemical or Waste Storage, Drainage or Collection Systems	Underground storage tanks or ancillary UST equipment	X
	Sumps, cisterns, catch basins and/or dry wells	
	Grease traps	
	Septic tanks and/or leach fields	
	Oil/water separators	
	Pipeline markers	
	Interior floor drains	X
Electrical Transformers/PCBs	Transformers and/or capacitors	X
	Other equipment	

Category	Item or Feature	Observed or Otherwise Identified
Releases or Potential Releases	Stressed vegetation	
	Stained soil	
	Stained pavement or similar surface	X
	Leachate and/or waste seeps	
	Trash, debris and/or other waste materials	
	Dumping or disposal areas	
	Construction/demolition debris and/or dumped fill dirt	X
	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	X
	Wells	
	Other	X

Site Operations, Processes, and Equipment

Air compressors

An air compressor was observed in the northern portion of the shop building. The air compressor was stored on wooden footers over concrete. *De minimis* surficial staining was observed on the concrete floor below the air compressor at the time of the visual reconnaissance. The air compressor is not considered a REC.

Heating and/or cooling systems

During the site reconnaissance, Terracon observed ventilation and air conditioning (HVAC and window units) system components on site. Facility personnel indicated the site is heated by natural gas. The heating and cooling system components are not considered RECs to the site at this time.

Other processes or equipment

A parts washer was observed in the northern portion of the shop building during the site reconnaissance. Facility personnel indicated the parts washer is serviced by onsite personnel one to two times per year. A 5-gallon container of PSC 1000 – Parts Washer Solvent was observed on the concrete below the parts washer, and utilized in the observed parts washer unit. *De minimis* staining was observed on the concrete below the parts washer. Mr. Scott Hill indicated waste solvents/empty containers are recycled as needed by Midwest Turf. Potential

releases associated with the solvents utilized in the shop parts washer unit is considered a REC.

A “Floboy” water pumping system was observed on the western portion of the site. Mr. Scott Hill indicated the system is utilized in pumping or lifting the water utilized in irrigating the golf course. He indicated this system assists with providing the water pressure needed to water the golf course. The observed water pumping system components are not considered a REC.

Mowing equipment, golf carts, and a large backhoe/front-end loader were observed onsite. Mr. Scott Hill indicated this equipment does utilize hydraulics. He stated the equipment is serviced onsite every 100 hours of use. He is not aware of leaks and/or releases associated with the mowing equipment, golf carts, and/or loader. The hydraulic equipment is not considered a REC at this time.

Aboveground storage tanks

Aboveground storage tank

During the site visit, Terracon observed a 500-gallon diesel steel AST adjacent east of the shop building. Mr. Hill indicated the AST was installed onsite approximately 20 years ago. Mr. Hill is not aware of soil and/or groundwater sampling within the vicinity of the tank. The tank was observed on concrete with no secondary containment. Lines associated with the tank are aboveground. Minor apparent staining was observed on the AST. Mr. Hill is not aware of leaks and/or releases associated with the AST. The AST is not considered a REC at this time.

Drums, barrels, and/or containers >5 gallons

Multiple one gallon containers of oil-based enamel paints, spray paint cans, and quart containers of floor stains were observed in a storage closet located in the southern portion of the shop. Additionally, various containers of liquid pesticides and herbicides were observed in a separate designated storage closet located in the southern portion of the shop. The following chemicals were observed in the herbicide/pesticide storage area: Lesco/Hawkeye – Nonionic Organosilicone Surfactant, Phyton 27 – Fungicide Diluent, Loveland/Liberate - Soy Stick, and Milorganite (organic nitrogen fertilizer). During the site reconnaissance a mixing counter was also observed. Leaks and/or releases of the above-listed chemicals were not observed in the storage areas during the site reconnaissance. Mr. Hill indicated he is not aware of spills and/or releases onsite.

A flammables cabinet was observed in the shop area. The flammables cabinet contained spray paints, one-gallon containers of enamel paint, and a steel gas can. Indications of spills or releases associated with the observed containers and/or flammables cabinet was not observed during the site reconnaissance. The observed flammables cabinet and contents are not considered a REC at this time.

Three 55-gallon steel waste oil drums and one 35-gallon waste oil drum were observed on secondary containment in the northern portion of the shop. Surficial staining was not observed on the drums or on the concrete in the vicinity of the drums. Additionally, multiple 5-gallon containers of new oils and lubricants were observed in a storage closet in the northern portion of the shop building. Surficial staining was not observed on the 5-gallon containers or on the concrete in the vicinity of the containers. Mr. Scott Hill indicated he is not aware of spills and/or releases associated with the observed drums and/or containers. He indicated waste oils and empty drums are recycled by Midwest Turf as needed. The observed waste oil drums and new oils/lubricants containers are not considered a REC at this time.

MSDS

Material Safety Data Sheets (MSDS) were observed in the northern portion of the shop during the visual reconnaissance. Matching of the MSDS to the chemical storage observed on site was not performed as part of the scope of services.

Underground Chemical or Waste Storage, Drainage or Collection Systems

Underground storage tanks or ancillary UST equipment

During the site visit, Terracon observed surface indications (fill ports and a fueling pump) of a UST adjacent east of the shop building. Mr. Hill indicated the 1,000-gallon gasoline fuel UST was installed onsite in approximately 1988. He indicated tank leak tests are performed daily (associated tank leak detection equipment observed in the southern portion of the shop), and he is not aware of leaks/releases associated with the onsite UST. Mr. Hill provided Terracon a recent tank leak test receipt during the site reconnaissance, and the receipt indicated a current “test pass” (Appendix C). Mr. Hill is not aware of soil and/or groundwater sampling within the vicinity of the tank. Potential releases associated with the shop building gasoline UST, associated lines, and dispensing operations are considered a REC at this time.

Interior floor drains

During the site reconnaissance, Terracon observed two floor drains throughout the shop area and in the restrooms and utility closets of the golf pro shop. Evidence of staining or other releases to the floor drains were not observed during the site reconnaissance. Potentially hazardous materials did not appear to be stored in the vicinity of the floor drains observed during the site reconnaissance.

Mr. Scott Hill was not aware of oil/water separators located onsite, and indicated the site floor drains discharge to the city sanitary sewer. A metal grate was observed in the wash bay adjacent southeast of the shop. Mr. Hill indicated the metal grate is stuck in place and has not been able to move (or service) for approximately ten years. Apparent dirt/sediment was observed through the slots in the metal grate. Mr. Hill indicated it is possible that a sediment clean-out is located under the grate, but was unsure. Mr. Hill was unaware of where the drain discharges. The unknown integrity and lack of maintenance on the possible sediment clean-out is considered a REC at this time. Additionally, based on the current use of petroleum products,

fertilizers, pesticides, solvents, etc. at the site, potential releases to the floor drains observed in the shop building is considered a REC at this time.

Electrical Transformers/PCBs

Transformers and/or capacitors

One pad-mounted transformer was observed on the western portion of the site. Information with regard to PCB (polychlorinated biphenyl) content of the transformer fluids was not observed. Transformers manufactured prior to 1978 contain mineral oil that may contain minor amounts of PCB and could be considered “PCB contaminated” (PCB content of 50-500 ppm).

Westar Energy maintains responsibility for the transformers, and if the transformers were “PCB contaminated,” the utility company is not required to replace the transformer fluids until a release is identified. However, obvious indications of releases were not observed near the transformer, which is not considered a REC at this time.

Releases or Potential Releases

Stained pavement or similar surfaces

Terracon observed stained gravel areas adjacent east of the wash bay area located near the shop building (see Photo #1 and #3 in Appendix E). Mr. Scott Hill indicated pesticide/herbicide applicator equipment is rinsed in this area. He stated that since the wash bay drain doesn't appear to discharge, he avoids rinsing equipment in the designated wash bay area. The staining encompasses an approximate 20 foot by 10 foot area of gravel. The observed herbicide/pesticide staining adjacent east of the shop wash bay area is considered a REC at this time.

Construction/demolition debris and/or dumped fill dirt

Various pieces of tubing, wooden pallets, out of commission golf carts, tires, empty 55-gallon poly drums were observed adjacent south and west of the shop building. Based upon visual observation of surface materials only, this area appeared to consist primarily of miscellaneous materials/equipment and did not appear to be hazardous in nature. Leakage, spills or other releases from these materials was not observed during the visual reconnaissance. The observed miscellaneous equipment is not a REC. Additionally, sand, gravel, and dirt fill piles were observed east of the shop building. Based upon visual observation of surface materials only, the fill piles did not appear to be hazardous in nature. Leakage, spills or other releases from these materials were not observed. The fill piles are not considered a REC.

Other Notable Site Features

Surface Water Bodies

Ponds and tributary to Chisholm Creek were observed on the northern portion of the site during the site reconnaissance. No evidence of chemical sheens were observed on the surface of the

waters, and no noxious odors were noted emanating from within the tributary at the time of the site reconnaissance. The observed tributary is not considered a REC.

Quarries or pits

A pit was observed near the south-central portion of the site during the site reconnaissance. The pit was approximately 10 feet deep and had a diameter of approximately 12 feet. According to Mr. Scott Hill, this pit is currently utilized as a burn pit for trees and brush. Materials other than trees/brush were not observed in or around the open pit area. Mr. Hill provided Terracon copies of a City of Wichita tree/brush open burn pit approval letter dated July 23, 2014, and a Wichita Fire Department burn permit dated October 17, 2014. The burn pit is not considered a REC.

Other

Historic and current uses of the site have generally been for golf course activities, including the use of pesticides and herbicides throughout golf course areas. Most currently used lawn maintenance chemicals do not persist for extended periods of time if applied appropriately. Some lawn maintenance chemicals persist especially if misapplied. Although the client should be aware of historic/current uses of herbicides/pesticides, indications of pesticide and/or herbicide misuse or vegetative stress were not throughout the site, except for areas near the shop building (see stained pavement or similar surfaces above).

5.4 Site Reconnaissance Summary

During the site reconnaissance, an air compressor, heating and cooling systems, a parts washer and associated 5-gallon container of solvent, a Floboy water pumping system components, mowing equipment and loader, a 500-gallon diesel AST, various enamel paint containers, spray paints, a flammables cabinet containing paints and a gas can, liquid and dry packaged herbicides and pesticides, four waste oil drums on secondary containment, multiple 5-gallon containers of new oils/lubricants, MSDS, ancillary UST equipment, interior floor drains, wash bay drain (grit trap?), pad-mounted transformer, stained gravel, construction/demolition debris and fill materials, a tributary, and a tree/brush burn pit. The shop UST and fuel dispensing operations are considered RECs at this time. Additionally, the unknown integrity and lack of maintenance on the possible shop wash-bay sediment clean-out is considered a REC at this time, and based on the current uses of petroleum products, fertilizers, pesticides, solvents, etc. at the site potential releases to the floor drains observed in the shop building is also considered a REC.

6.0 ADJOINING PROPERTY RECONNAISSANCE

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

Adjoining Properties

Direction	Description
North	Eck Stadium, WSU Welcome Center, WSU Alumni Center, followed by E 21 st St. N, and then residences.
East	N Oliver Ave., followed by Unity Center, River Community Church, Child Start, Wichita Hebrew Cemetery, White Chapel Memorial Gardens, and residences.
South	E 17 th St. N, followed by residences and Paradise Baptist Church
West	Paved parking areas, a softball field, WSU Police Station, WSU Campus Credit Union, WSU Offices, WSU National Institute for Aviation Research, and WSU Maintenance Facility (Gaddis).

Adjacent north of the site are Eck Stadium, WSU Welcome Center, WSU Alumni Center, followed by E 21st St. N, and then residences. Adjacent east of the site are N Oliver Ave., followed by Unity Center, River Community Church, Child Start, Wichita Hebrew Cemetery, White Chapel Memorial Gardens, and residences. Adjacent south of the site are E 17th St. N, followed by residences and Paradise Baptist Church. Paved parking areas, a softball field, WSU Police Station, WSU Campus Credit Union, WSU Offices, WSU National Institute for Aviation Research, and WSU Maintenance Facility (Gaddis) are located adjacent west of the site. Based on the cross-gradient location the WSU Maintenance Facility (Gaddis) is not considered a REC at this time. Indications of RECs were not observed with the adjoining properties.

7.0 ADDITIONAL SERVICES

Per the agreed scope of services specified in the proposal, a limited threatened/endangered species review and limited historic properties/archeological resources review were conducted for the site.

7.1 Limited Threatened/Endangered Species Review

Literature and agency file searches were conducted to review the potential occurrence of federally- and state-listed threatened and endangered (T&E) species located in the site vicinity. The search included information from the U.S. Fish and Wildlife Service (USFWS) and the Kansas Department of Wildlife, Parks and Tourism (KDWP). The following is a list of federally- and state-listed T&E species potentially located in Sedgwick County, Kansas.

Threatened & Endangered Species

SPECIES	STATUS*	HABITAT
BIRDS		
Whooping crane (<i>Grus americana</i>)	SE/FE	Variety of wetland and other habitats, including coastal

SPECIES	STATUS*	HABITAT
		marshes and estuaries, inland marshes, lakes, ponds, wet meadows and rivers, and agricultural fields.
Least tern (<i>Sterna antillarum</i>)	SE/FE	Barren areas near water such as saline flats in salt marshes, sand bars in river beds, and shores of large impoundments.
Eskimo Curlew (<i>Numenius borealis</i>)	SE/FE	Plowed fields heavily grazed or burned-over grasslands, and prairie-dog towns.
Piping Plover (<i>Charadrius melodus</i>)	ST/FT	Sparsely vegetated shallow wetlands and open beaches and sandbars adjacent to or within streams and impoundments.
Snowy Plover (<i>Charadrius alexandrinus</i>)	ST	Open salt flats, beaches and bars of rivers, and wetlands.
<u>FISH</u>		
Arkansas darter (<i>Etheostoma cragini</i>)	ST/Candidate (USFWS)	Shallow, clear, spring-fed tributary and headwater streams having sand or sandy. Are invariably associated with vegetative cover in spring-fed channels and generally found near-shore areas away from swift currents.
Arkansas River Shiner (<i>Notropis girardi</i>)	SE/FT	Main channels of wide, shallow, sandy-bottomed rivers and large streams.
Arkansas River Speckled Chub – Peppered Chub (<i>Macrhybopsis tetranema</i>)	SE	Shallow channels and permanently flowing streams where currents flow over clean fine sand.
Plains Minnow (<i>Hybognathus placitus</i>)	ST	Areas of sufficient water flow and flow rates with high and low extremes.
Silver Chub (<i>Macrhybopsis storeriana</i>)	SE	Large sandy rivers.
Northern Long-Eared Bat (<i>Myotis septentrionalis</i>)	Proposed Endangered (USFWS)	In cavities or in crevices of both live and dead trees. May also roost in caves and mines. Rarely found roosting in barns and sheds.
Eastern Spotted Skunk (<i>Spilogale</i>)	ST	Forest edges and upland prairie

SPECIES	STATUS*	HABITAT
<i>putorius)</i>		grasslands, especially where rock outcrops and shrub clumps are present.

*Status Codes:
 FE = Federally Endangered
 FT = Federally Threatened
 SE = State Endangered
 ST = State Threatened
 SC = State Special Concern (not a statutory category)

This level of assessment did not evaluate habitat suitability for T&E species. In addition, site observations to evaluate the potential presence/absence of listed species were not conducted. Based on the nature of the site, suitable habitat and/or T&E species may be present on the site. A formal T&E species survey would be required to evaluate habitat suitability and/or the presence of T&E species on the site.

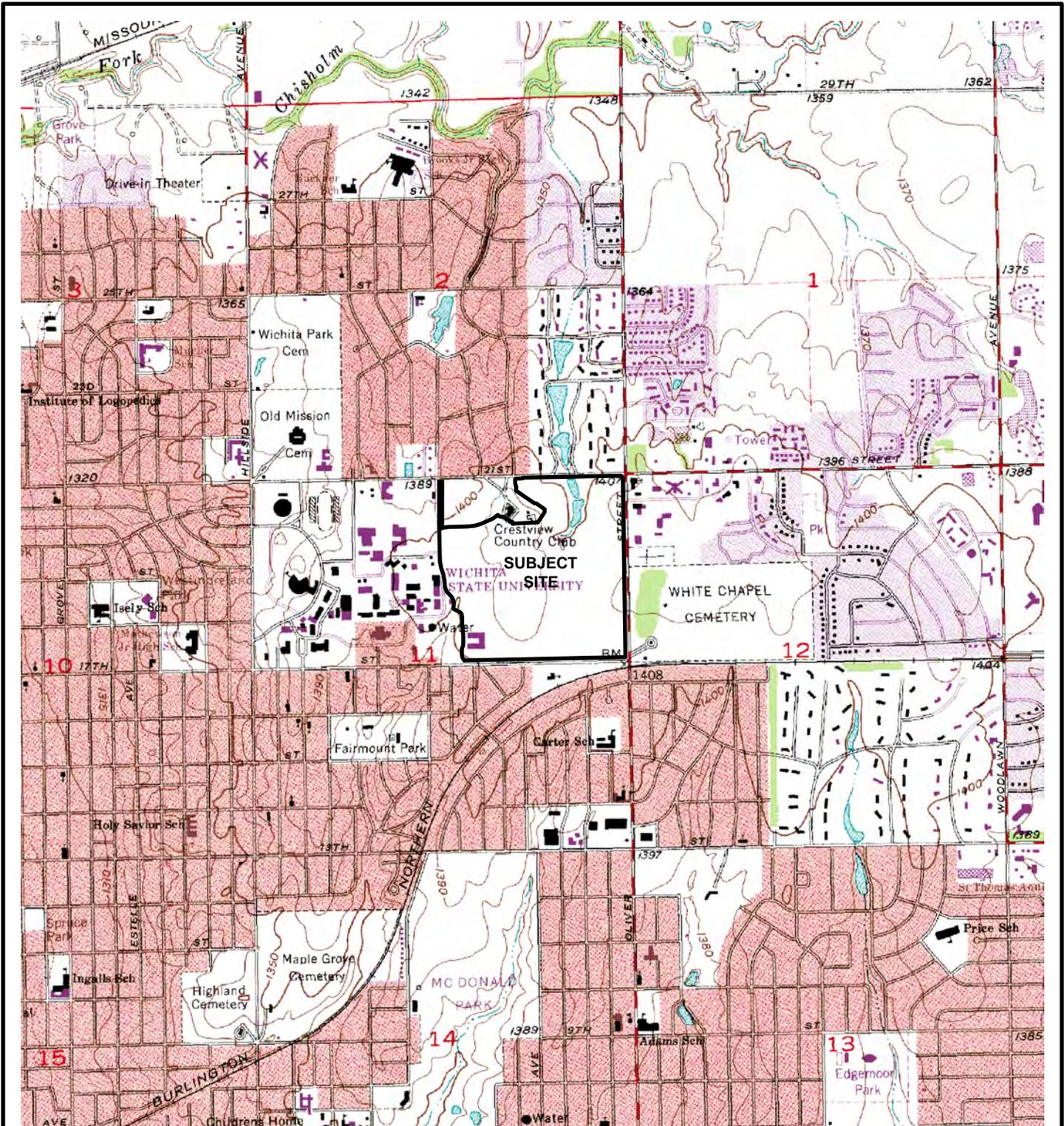
7.2 Limited Historic Properties/Archaeological Resources Review

A limited literature and agency file review was conducted to identify the potential occurrence of cultural resources on the site. Cultural resources are comprised of historic properties and archaeological artifacts. The review included the Kansas State Historical Society - National and State Registers of Historic Places website. Cultural resources or structures of historical significance were not documented on the National and State Registers of Historic Places on the site.

8.0 DECLARATION

I, James C. Bruggeman, 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.

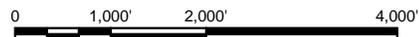
APPENDIX A
FIGURE 1 – TOPOGRAPHIC MAP
FIGURE 2 – SITE DIAGRAM



WICHITA EAST QUADRANGLE
 KANSAS - SEDGWICK COUNTY
 7.5 MINUTE SERIES (TOPOGRAPHIC)
 1961 - PHOTO REVISED IN 1982

APPROXIMATE NE/4
 OF SECTION 11, TOWNSHIP 27
 SOUTH, RANGE 1 EAST.

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



Project Mngr:	MRH
Checked By:	MRH
Approved By:	JCB
Drawn By:	BCB

Scale:	SHOWN
Date:	10/17/14
Project No:	01147766
File Name:	7766F1.dwg

Terracon
 Consulting Engineers and Scientists
 1815 South Eisenhower Wichita, Kansas 67209
 Phone: (316) 262-0171 Fax: (316) 262-6997

TOPOGRAPHIC MAP
 CLIENT: MKEC ENGINEERING CONSULTANTS, INC.
WSU INNOVATION CAMPUS
 4201 E. 21ST STREET N.
 WICHITA, KANSAS 67208

FIGURE
1



2011 AERIAL PHOTOGRAPH PROVIDED BY SEDGWICK COUNTY GEOGRAPHIC INFORMATION SERVICES.

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



Project Mngr:	MRH
Checked By:	MRH
Approved By:	JCB
Drawn By:	BCB
Scale:	SHOWN
Date:	10/17/14
Project No:	01147766
File Name:	7766F2.dwg

Terracon
 Consulting Engineers and Scientists
 1815 South Eisenhower Wichita, Kansas 67209
 Phone: (316) 262-0171 Fax: (316) 262-6997

SITE DIAGRAM
 CLIENT: MKEC ENGINEERING CONSULTANTS, INC.
WSU INNOVATION CAMPUS
 4201 E. 21ST STREET N.
 WICHITA, KANSAS 67208

FIGURE
 2

APPENDIX B
DESCRIPTION OF TERMS AND ACRONYMS

Description of Selected General Terms and Acronyms

<i>Term/Acronym</i>	<i>Description</i>
ACM	<p>Asbestos Containing Material. Asbestos is a naturally occurring mineral, three varieties of which (chrysotile, amosite, crocidolite) have been commonly used as fireproofing or binding agents in construction materials. Exposure to asbestos, as well as ACM, has been documented to cause lung diseases including asbestosis (scarring of the lung), lung cancer and mesothelioma (a cancer of the lung lining).</p> <p>Regulatory agencies have generally defined ACM as a material containing greater than one (1) percent asbestos, however some states (e.g. California) define ACM as materials having 0.1% asbestos. In order to define a homogenous material as non-ACM, a minimum number of samples must be collected from the material dependent upon its type and quantity. Homogenous materials defined as non-ACM must either have 1) no asbestos identified in all of its samples or 2) an identified asbestos concentration below the appropriate regulatory threshold. Asbestos concentrations are generally determined using polarized light microscopy or transmission electron microscopy. Point counting is an analytical method to statistically quantify the percentage of asbestos in a sample. The asbestos component of ACM may either be friable or non-friable. Friable materials, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure and have a higher potential for a fiber release than non-friable ACM. Non-friable ACM are materials that are firmly bound in a matrix by plastic, cement, etc. and, if handled carefully, will not become friable.</p> <p>Federal and state regulations require that either all suspect building materials be presumed ACM or that an asbestos survey be performed prior to renovation, dismantling, demolition, or other activities that may disturb potential ACM. Notifications are required prior to demolition and/or renovation activities that may impact the condition of ACM in a building. ACM removal may be required if the ACM is likely to be disturbed or damaged during the demolition or renovation. Abatement of friable or potentially friable ACM must be performed by a licensed abatement contractor in accordance with state rules and NESHAP. Additionally, OSHA regulations for work classification, worker training and worker protection will apply.</p>
AHERA	Asbestos Hazard Emergency Response Act
AST	Aboveground Storage Tanks. ASTs are generally described as storage tanks less than 10% of which are below ground (i.e., buried). Tanks located in a basement, but not buried, are also considered ASTs. Whether, and the extent to which, an AST is regulated, is determined on a case-by-case basis and depends upon tank size, its contents and the jurisdiction of its location.
BGS	Below Ground Surface
BTEX	Benzene, Toluene, Ethylbenzene, and Xylenes. BTEX are VOC components found in gasoline and commonly used as analytical indicators of a petroleum hydrocarbon release.
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act (a.k.a. Superfund). CERCLA is the federal act that regulates abandoned or uncontrolled hazardous waste sites. Under this Act, joint and several liability may be imposed on potentially responsible parties for cleanup-related costs.
CERCLIS	Comprehensive Environmental Response, Compensation and Liability Information System. An EPA compilation of sites having suspected or actual releases of hazardous substances to the environment. CERCLIS also contains information on site inspections, preliminary assessments and remediation of hazardous waste sites. These sites are typically reported to EPA by states and municipalities or by third parties pursuant to CERCLA Section 103.
CESQG	Conditionally exempt small quantity generators.
CFR	Code of Federal Regulations

Description of Selected General Terms and Acronyms (cont.)

<i>Term/Acronym</i>	<i>Description</i>
CREC	Controlled Recognized Environmental Condition is defined in ASTM E 1527-13 as “a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority) , with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). A condition considered by the environmental professional to be a controlled recognized environmental condition shall be listed in the findings section of the Phase I Environmental Site Assessment report, and as a recognized environmental condition in the conclusions section of the Phase I Environmental Site Assessment report.”
DOT	U.S. Department of Transportation
ERNS	Emergency Response Notification System. An EPA-maintained federal database which stores information on notifications of oil discharges and hazardous substance releases in quantities greater than the applicable reportable quantity under CERCLA. ERNS is a cooperative data-sharing effort between EPA, DOT, and the National Response Center.
ESA	Environmental Site Assessment
FRP	Fiberglass Reinforced Plastic
Hazardous Substance	As defined under CERCLA, this is (A) any substance designated pursuant to section 1321(b)(2)(A) of Title 33, (B) any element, compound, mixture, solution, or substance designated pursuant to section 9602 of this title; (C) any hazardous waste having characteristics identified under or listed pursuant to section 3001 of the Solid Waste Disposal Act (with some exclusions); (D) any toxic pollutant listed under section 1317(a) of Title 33; (E) any hazardous air pollutant listed under section 112 of the Clean Air Act; and (F) any imminently hazardous chemical substance or mixture with respect to which the EPA Administrator has taken action under section 2606 of Title 15. This term does not include petroleum, including crude oil or any fraction thereof which is not otherwise listed as a hazardous substance under subparagraphs (A) through (F) above, and the term include natural gas, or synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas).
Hazardous Waste	This is defined as having characteristics identified or listed under section 3001 of the Solid Waste Disposal Act (with some exceptions). RCRA, as amended by the Solid Waste Disposal Act of 1980, defines this term as a “solid waste, or combination of solid wastes, which because of its quantity, concentration, or physical, chemical, or infectious characteristics may (A) cause, or significantly contribute to an increase in mortality or an increase in serious irreversible, or incapacitating reversible illness; or (B) pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, or disposed of, or otherwise managed.”
HREC	Historical Recognized Environmental Condition is defined in ASTM E 1527-13 as “a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted residential use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). Before calling the past release a historical recognized environmental condition, the environmental professional must determine whether the past release is a recognized environmental condition at the time of the Phase I Environmental Site Assessment is conducted (for example, if there has been a change in the regulatory criteria). If the EP considers the past release to be a recognized environmental condition at the time the Phase I ESA is conducted, the condition shall be included in the conclusions section of the report as a recognized environmental condition.”
ILP	Innocent Landowner/Operator Program
LQG	Large quantity generators.
LUST	Leaking Underground Storage Tank. This is a federal term set forth under RCRA for leaking USTs. Some states also utilize this term.
MCL	Maximum Contaminant Level. This Safe Drinking Water concept (and also used by many states as a ground water cleanup criteria) refers to the limit on drinking water contamination that determines whether a supplier can deliver water from a specific source without treatment.

Description of Selected General Terms and Acronyms (cont.)

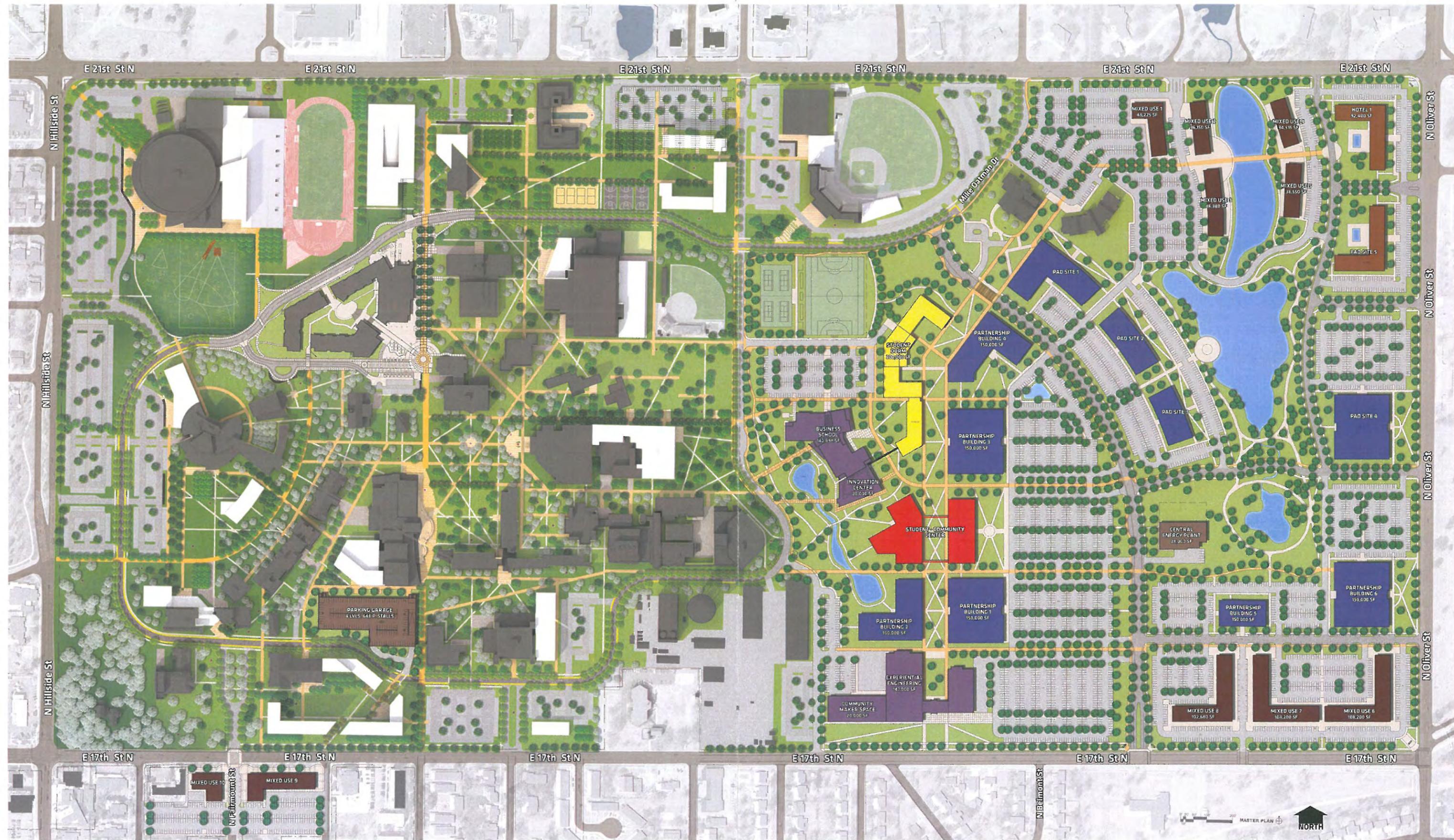
Term/Acronym	Description
PCB	Polychlorinated Biphenyl. A halogenated organic compound commonly in the form of a viscous liquid or resin, a flowing yellow oil, or a waxy solid. This compound was historically used as dielectric fluid in electrical equipment (such as electrical transformers and capacitors, electrical ballasts, hydraulic and heat transfer fluids), and for numerous heat and fire sensitive applications. PCB was preferred due to its durability, stability (even at high temperatures), good chemical resistance, low volatility, flammability, and conductivity. PCBs, however, do not break down in the environment and are classified by the EPA as a suspected carcinogen. 1978 regulations, under the Toxic Substances Control Act, prohibit manufacturing of PCB-containing equipment; however, some of this equipment may still be in use today.
pCi/L	Pico Curies per Liter of Air. Unit of measurement for Radon and similar radioactive materials.
PLM	Polarized Light Microscopy (see ACM section of the report, if included in the scope of services)
PST	Petroleum Storage Tank. An AST or UST that contains a petroleum product.
Radon	A radioactive gas resulting from radioactive decay of naturally-occurring radioactive materials in rocks and soils containing uranium, granite, shale, phosphate, and pitchblende. Radon concentrations are measured in Pico Curies per Liter of Air. Exposure to elevated levels of radon creates a risk of lung cancer; this risk generally increases as the level of radon and the duration of exposure increases. Outdoors, radon is diluted to such low concentrations that it usually does not present a health concern. However, radon can accumulate in building basements or similar enclosed spaces to levels that can pose a risk to human health. Indoor radon concentrations depend primarily upon the building's construction, design and the concentration of radon in the underlying soil and ground water. The EPA recommended annual average indoor "action level" concentration for residential structures is 4.0 pCi/l.
RCRA	Resource Conservation and Recovery Act. Federal act regulating solid and hazardous wastes from point of generation to time of disposal („cradle to grave”). 42 U.S.C. 6901 et seq.
RCRA Generators	The RCRA generators list is part of the RCRIS database maintained by EPA and lists facilities that generate hazardous waste as part of their normal business operations, as more particularly defined under Section 4.1 of this report.
RCRA CORRACTS/TS Ds	The USEPA maintains a database of RCRA facilities associated with treatment, storage, and disposal (TSD) of hazardous materials which are undergoing "corrective action". A "corrective action" order is issued when there is a release of hazardous waste or constituents into the environment from a RCRA facility.
RCRA Non-CORRACTS/TS Ds	The RCRA Non-CORRACTS/TSD Database is a compilation by the USEPA of facilities which report storage, transportation, treatment, or disposal of hazardous waste. Unlike the RCRA CORRACTS/TSD database, the RCRA Non-CORRACTS/TSD database does not include RCRA facilities where corrective action is required.
RCRA Violators List	RAATS. RCRA Administrative Actions Taken. RAATS information is now contained in the RCRIS database and includes records of administrative enforcement actions against facilities for noncompliance.
RCRIS	Resource Conservation and Recovery Information System, as defined in the Records Review section of this report.
REC	Recognized Environmental Conditions are defined by ASTM E1527-13 as "the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: 1) due to any release to the environment; 2) under conditions indicative of a release to the environment; or 3) under conditions that pose a material threat of a future release to the environment. <i>De minimis</i> conditions are not recognized environmental conditions."
SCL	State "CERCLIS" List (see SPL /State Priority List, below).

Description of Selected General Terms and Acronyms (cont.)

Term/Acronym	Description
MSDS	Material Safety Data Sheets. Written/printed forms prepared by chemical manufacturers, importers and employers which identify the physical and chemical traits of hazardous chemicals under OSHA's Hazard Communication Standard.
NESHAP	National Emissions Standard for Hazardous Air Pollutants (Federal Clean Air Act). This part of the Clean Air Act regulates emissions of hazardous air pollutants.
NFRAP	Facilities where there is "No Further Remedial Action Planned," as more particularly described under the Records Review section of this report.
NOV	Notice of Violation. A notice of violation or similar citation issued to an entity, company or individual by a state or federal regulatory body indicating a violation of applicable rule or regulations has been identified.
NPDES	National Pollutant Discharge Elimination System (Clean Water Act). The federal permit system for discharges of polluted water.
NPL	National Priorities List, as more particularly described under the Records Review section of this report.
OSHA	Occupational Safety and Health Administration or Occupational Safety and Health Act
PACM	Presumed Asbestos-Containing Material. A material that is suspected of containing or presumed to contain asbestos but which has not been analyzed to confirm the presence or absence of asbestos.
SPCC	Spill Prevention, Control and Countermeasures. SPCC plans are required under federal law (Clean Water Act and Oil Pollution Act) for any facility storing petroleum in tanks and/or containers of 55-gallons or more that when taken in aggregate exceed 1,320 gallons. SPCC plans are also required for facilities with underground petroleum storage tanks with capacities of over 42,000 gallons. Many states have similar spill prevention programs, which may have additional requirements.
SPL	State Priority List. State list of confirmed sites having contamination in which the state is actively involved in clean up activities or is actively pursuing potentially responsible parties for clean up. Sometimes referred to as a State "CERCLIS" List.
SQG	Small quantity generator.
SWF	Solid Waste Facility
TPH	Total Petroleum Hydrocarbons
TRI	Toxic Release Inventory. Routine EPA report on releases of toxic chemicals to the environment based upon information submitted by entities subject to reporting under the Emergency Planning and Community Right to Know Act.
TSCA	Toxic Substances Control Act. A federal law regulating manufacture, import, processing and distribution of chemical substances not specifically regulated by other federal laws (such as asbestos, PCBs, lead-based paint and radon). 15 U.S.C 2601 et seq.
USACE	United States Army Corps of Engineers
USC	United States Code
USGS	United States Geological Survey
USNRCS	United States Department of Agriculture-Natural Resource Conservation Service
UST	Underground Storage Tank. Most federal and state regulations, as well as ASTM E1527-13, define this as any tank, incl., underground piping connected to the tank, that is or has been used to contain hazardous substances or petroleum products and the volume of which is 10% or more beneath the surface of the ground (i.e., buried).
VCP	Voluntary Cleanup Program
VOC	Volatile Organic Compound

Term/Acronym	Description
Wetlands	<p>Areas that are typically saturated with surface or ground water that creates an environment supportive of wetland vegetation (i.e., swamps, marshes, bogs). The <u>Corps of Engineers Wetlands Delineation Manual</u> (Technical Report Y-87-1) defines wetlands as areas inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. For an area to be considered a jurisdictional wetland, it must meet the following criteria: more than 50 percent of the dominant plant species must be categorized as Obligate, Facultative Wetland, or Facultative on lists of plant species that occur in wetlands; the soil must be hydric; and, wetland hydrology must be present.</p> <p>The federal Clean Water Act which regulates “waters of the US,” also regulates wetlands, a program jointly administered by the USACE and the EPA. Waters of the U.S. are defined as: (1) waters used in interstate or foreign commerce, including all waters subject to the ebb and flow of tides; (2) all interstate waters including interstate wetlands; (3) all other waters such as intrastate lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds, etc., which the use, degradation, or destruction could affect interstate/ foreign commerce; (4) all impoundments of waters otherwise defined as waters of the U. S., (5) tributaries of waters identified in 1 through 4 above; (6) the territorial seas; and (7) wetlands adjacent to waters identified in 1 through 6 above. Only the USACE has the authority to make a final wetlands jurisdictional determination.</p>

APPENDIX C
HISTORICAL DOCUMENTATION AND USER QUESTIONNAIRE



INNOVATION UNIVERSITY MASTER PLAN

Wichita State University MAP AND BUILDING ABBREVIATIONS

CAMPUS

Wichita State's 320-acre campus is located in the northeast section of Wichita. It is bounded by 17th Street on the south, 21st Street on the north, Hillside Avenue on the west and Oliver Street on the east. Visitors coming to campus on the Kansas Turnpike should use Exit 50 (East Wichita) or Exit 53 (K-96 Wichita).

PARKING

Visitors to the Wichita State campus should obtain temporary parking permits from the Wichita State University Police Department, 2000 Gentry. This is the building topped by a tall radio tower on the east side of campus. Visitor parking is available in all lots but the reserved lots, which are designated by a red sign with a number at the top.

Students must pay a facilities fee and register their vehicle before parking on campus. This can be done during the registration/payment process, or separately at the University Police Department. The registration decal or hangtag must be properly displayed. Student parking is available in the lots marked on the next page with diagonal stripes.

MAP LEGEND

Buildings are listed in alphabetical order, and building abbreviations, where they exist, are indicated to the left of the building name. College, student service, and major administrative offices are listed with the building that houses them.

We have tried to indicate buildings where some barriers to handicapped students exist. There is an ongoing program to remove these. Multilevel buildings have an elevator unless otherwise indicated.

ABBREV.	NAME	AREA	ABBREV.	NAME	AREA	ABBREV.	NAME	AREA		
AL	ABLAH LIBRARY ☞	D/5	MH	MORRISON HALL ☞ <i>Wheelchair entry on east side.</i>	C/4	GI	GOLF COURSE, BRAEBURN	E-F/3		
AH	AHLBERG HALL ☞	C-D/6		☞ Central Services, Purchasing		GM	JAMES S. GARVEY INTERNATIONAL CENTER	A-B/7		
AR	☞ College of Health Professions			☞ Institutional Research		GW	GRACE MEMORIAL CHAPEL	C/4		
	☞ Student Health Services			☞ Post Office			GRACE WILKIE HALL ☞	D/4		
				☞ President, Vice Presidents			☞ Career Services			
BH	AVIATION RESEARCH, NATIONAL INSTITUTE FOR	D/5	NH	NEFF HALL ☞	C-D/5		☞ Cooperative Education			
	BEECH (WALTER H.) WIND TUNNEL	D/5		☞ University Relations			☞ Counseling and Testing Center			
	BLAKE HALL (KMUW-FM)	B/7		☞ Honors Program			☞ Liberal Arts and Sciences Advising Center			
	BOMBARDIER LEARJET PRACTICE FACILITY	E/2					☞ Office of Disability Services			
	BOOKSTORE	C/5	OC	NEWMAN CENTER	D/6		☞ Student Affairs			
	(South end of RSC)			OFF-CAMPUS			☞ Student Support Services			
BR	BRENNAN I, II, III	C/7		POLICE DEPARTMENT	D/4	HA	HENNON ANNEX	B-C/6		
	CAMPUS ACTIVITIES CENTER (CAC) ☞	C/5		PRESIDENT'S RESIDENCE	B/6	HG	HENRION HALL (No elevator)	B-C/6		
	See Rhatigan Student Center (RSC)			PRINTING SERVICES	D/4	HC	HESKETT CENTER ☞	D/3		
CA	CAC THEATER	C/5	RS	RHATICAN STUDENT CENTER (RSC) ☞	C/5	HP	HOSPITAL (Off-campus hospitals)			
	Wheelchair entry possible at side (east) door.			Wheelchair entry possible at north and west entrances. Electric doors on both.		HH	R. DEE HUBBARD HALL ☞	C/3		
				☞ Center for Student Leadership		HR	HUMAN RESOURCES CENTER	C/5		
CD	CHILD DEVELOPMENT CENTER, UNIVERSITY	A/1	SC	SOUTH CAMPUS		IA	INTENSIVE ENGLISH LANGUAGE CENTER ANNEX A/7			
	CLINTON HALL ☞	C/5		(Derby: 200 W. Greenway, Suite 150)		JB	JABARA HALL ☞	C/4		
	Wheelchair ramp on southwest corner.			SHELDON COLEMAN TENNIS COMPLEX	C/6		☞ Computing Center			
	☞ W. Frank Barton School of Business			STUDENT HEALTH SERVICES (See Ahiberg Hall) C-D/4		JH	JARDINE HALL ☞	C/5		
CE	CORBIN EDUCATION CENTER ☞	D/2		ULRICH MUSEUM OF ART, EDWIN A.	B/6		☞ College of Fine Arts			
	☞ College of Education			VETERANS HOSPITAL (5500 E. Kellogg)			☞ Financial Operations			
CU	CREDIT UNION	D/4		VISUAL COMMUNICATIONS	D/5		☞ Graduate School			
	ADVANCED EDUCATION IN GENERAL DENTISTRY	C/2		(Directly outside east door of Beech Wind Tunnel)			☞ Registrar			
	DEVLIN HALL ☞	C/2		WALLACE HALL ☞	D/5		☞ Financial Aid			
	DUERIKSEN FINE ARTS CENTER ☞	B/5		Wheelchair entry at north end.			KMUW-FM (See BLAKE HALL.)	B/7		
	Wheelchair entry possible but not at every entrance.			☞ College of Engineering			CHARLES KOCH ARENA	B/2		
	☞ School of Music and Miller Concert Hall			WAREHOUSE	E/6		LINDQUIST HALL ☞	C-D/4		
ES	ECK STADIUM (TYLER FIELD)	E/2		WEST CAMPUS (37th and Maize)	E/6		(also see Grace Wilkie Hall)			
	ENGINEERING BUILDING	C-D/5		WHEATSHOCKER APARTMENTS	E/6		MC	McKINLEY HALL ☞	B-C/5	
	ENGINEERING RESEARCH LAB ☞	D/5		WIEDEMANN HALL	B/4			Wheelchair entry at north and south ends.		
	ELLIOTT HALL	C/6		WILNER AUDITORIUM ☞	B/6		MK	McKNIGHT ART CENTER ☞	B/6	
	FAIRMOUNT COMMONS	A/1		☞ School of Performing Arts				Wheelchair entry for the south building, take sidewalk around the side closest to Wilner, and enter west door.		
	☞ Housing and Residence Life			WOODMAN ALUMNI CENTER	F/3			☞ School of Art and Design		
	☞ Cafeteria			☞ Alumni Association				MAR	MARCUS WELCOME CENTER	F/3
	FAIRMOUNT TOWERS	A/1		☞ Board of Trustees					☞ Admissions (Undergraduate)	
	2221 N. Hillside			☞ WSU Foundation					MEDIA RESOURCES CENTER	D/5
	Wheelchair ramps exist but not at every entrance.								MEMORIAL '70	B/6
									HUGHES METROPOLITAN COMPLEX (23TH AND OLIVER)	
FH	FISKE HALL	B/6							☞ Conferences and Non-Credit Programs	
	Wheelchair entry very difficult. No elevator.								☞ Small Business Development Center	
PC	GADDIS PHYSICAL PLANT COMPLEX	D-E/6							☞ Speech-Language-Hearing Clinic	
	GEOLGY BUILDING	C-D/5							☞ Wichita Radio Reading Service	

☞ Free campus phone on ground floor
The building abbreviations used here may not match those used in other publications.



Parcel Information

Property Address: 4000 E 17TH ST N
 City, Zip Code: WICHITA, 67260
 Control Number: 176811
 PIN Number: 121110140000100
 Key Number: C 31448
 Total Appraised Value: 24455220
 Year Built:
 Building Grade:
 Building Condition-Desireability-Utility:
 Square Feet: 0
 Living Area:
 Land Use Code: Golf Course

For the most current and accurate information, please visit the [Sedgwick County Appraisers Office](#) website.

Zoning Information

Jurisdiction Information

Zoning District: **SF-5**
 Special Purpose Case Number: U
 DR 83-8
 Historic Site: none
 Historic District: none
 State/National Historic Environs: none
 In/Near 1994 ACUIZ boundary: No. Not within 200 feet

Council District: **1**
 Year/Decade Annexed: 1801
 School District: WICHITA
 Wichita Public School: none found

Neighborhood Information

Neighborhood Assoc: none found
 Home Owner Assoc: none found
 Neighborhood Revitalization Area: none found
 Local Investment Area: none found
 Tax Increment Finance District: none found
 Park: none found

FEMA Information

FEMA Firm Panel: [20173C0356E](#) (FEMA official FIRM site)
 FEMA Flood Zone: **X**

Census Information

Census Tract#: 000900

Disclaimer: This information is not an official record, and cannot be used as such. The user should rely only upon official records available from the custodian of records in the appropriate City and/or County department. Some data provided here and used for the preparation of these maps has been obtained from public records not created or maintained by the City of Wichita.





PROPERTY DETAIL INFORMATION

4000 E 17TH ST N 627

View Property Record Card

Effective date is shown on the top right side of the page.

\$ PAY TAXES

View Valuation Notice

Current year Valuation Notices are available after March 1st.

Legal Description: NE1/4 EXC BEG NW COR E 1207.5 FT TOPT 1450 FT W NE COR S 600 FT W 363.4 FT SW 318.99 FT W 491.73 FT S580.51 FT E 30 FT S 498.17 FT SE 623.62 FT TH S 157 E 127.8 FT S 91.52 FT SE 331.6 FT S 40 FT TO S LI NE1/4 TH W 990 FT TO SW COR N TOBEG EXC STS SEC 11-2

Property Owner Name: WICHITA STATE UNIVERSITY

Mailing Address: PO BOX 47 WICHITA KS 67260-0047

Geo Code: C 31448 PIN: 00176811 AIN: 121110140000100

Tax Unit: 6702 001 WICHITA U-259 Land Use: 5374 Golf Course

Market Land Square Feet: 5,386,646 Total Acres: 123.66

2014 Appraisal Value: \$24,455,220.00 2014 Assessment Value: \$0.00

Appraisal Values

Table with 6 columns: Year, Class, Land, Improvements, Total, Percent Change. Rows from 2014 to 2005.

Assessment Values

Table with 6 columns: Year, Class, Land, Improvements, Total, Percent Change. Rows from 2014 to 2005.

Tax Authorities

0518 CITY OF WICHITA

0201 COUNTY

9999 MV Average Levy for ST

0101 STATE
0602 USD 259
0602 USD 259 SG
0754 USD 259 BOND 3 (2000)
0704 USD 259 NEW BOND
0703 USD 259 OLD BOND

Billings

Tax Year	Tax Bill Id	Tax Rate	General Tax Billed	Specials Tax Billed	Interest Billed	Fees Billed	Total Billed	Amount Paid	Balance Due
2013	3920879	120.6007	\$0.00	\$4.46	\$0.00	\$0.00	\$4.46	(\$4.46)	\$0.00
2012	3169297	120.6024	\$0.00	\$4.10	\$0.00	\$0.00	\$4.10	(\$4.10)	\$0.00
2011	2357120	120.3048	\$0.00	\$4.10	\$0.00	\$0.00	\$4.10	(\$4.10)	\$0.00
2010	1673075	120.059	\$0.00	\$4.10	\$0.00	\$0.00	\$4.10	(\$4.10)	\$0.00
2009	379294	120.36	\$0.00	\$3.30	\$0.00	\$0.00	\$3.30	(\$3.30)	\$0.00
2008	379293	117.242	\$0.00	\$3.30	\$0.00	\$0.00	\$3.30	(\$3.30)	\$0.00
2007	379292	118.05	\$0.00	\$2.93	\$0.00	\$0.00	\$2.93	(\$2.93)	\$0.00
2006	379291	116.064	\$0.00	\$2.93	\$0.00	\$0.00	\$2.93	(\$2.93)	\$0.00
2005	379290	113.456	\$0.00	\$2.86	\$0.00	\$0.00	\$2.86	(\$2.86)	\$0.00

WSU Innovation Campus

21st & Oliver
Wichita, KS 67208

Inquiry Number: 4095462.5
October 07, 2014

The EDR-City Directory Image Report

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

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

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

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>
2013	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cole Information Services
2008	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cole Information Services
2003	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cole Information Services
1999	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cole Information Services
1995	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cole Information Services
1992	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cole Information Services
1987	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory
1982	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory
1977	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory
1972	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory
1967	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory
1964	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory
1955	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory
1942	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Polk's City Directory

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FINDINGS

TARGET PROPERTY STREET

21st & Oliver
Wichita, KS 67208

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
<u>E 21ST ST</u>		
1992	pg A17	Cole Information Services

E 21ST ST N

2013	pg A1	Cole Information Services
2008	pg A3	Cole Information Services
2003	pg A5	Cole Information Services
1999	pg A7	Cole Information Services
1995	pg A12	Cole Information Services
1992	pg A18	Cole Information Services
1987	pg A22	Polk's City Directory
1987	pg A23	Polk's City Directory
1982	pg A25	Polk's City Directory
1977	pg A27	Polk's City Directory
1972	pg A29	Polk's City Directory
1967	pg A31	Polk's City Directory
1964	pg A33	Polk's City Directory
1955	pg A35	Polk's City Directory
1942	pg A37	Polk's City Directory

N OLIVER ST

2013	pg A2	Cole Information Services
2008	pg A4	Cole Information Services
2003	pg A6	Cole Information Services
1999	pg A9	Cole Information Services
1995	pg A13	Cole Information Services
1992	pg A19	Cole Information Services
1987	pg A24	Polk's City Directory
1982	pg A26	Polk's City Directory

FINDINGS

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
1977	pg A28	Polk's City Directory
1972	pg A30	Polk's City Directory
1967	pg A32	Polk's City Directory
1964	pg A34	Polk's City Directory
1955	pg A36	Polk's City Directory
1942	pg A38	Polk's City Directory

FINDINGS

CROSS STREETS

No Cross Streets Identified

City Directory Images

E 21ST ST N 2013

3424 DUNSFORD JOE R FUNRL DIR
OLD MISSION FUNERAL HOME
QUIRING OLD MISSION FUNERAL HOME

3912 ALPHA PHI SORORITY
BETA CHI OF GAMMA PHI BETA INC
DELTA GAMMA SORORITY
ROXANNE MONTGOMERY
TIMOTHY STRANIMIER

4000 PHI DELTA THETA KANSAS DELTA CHAPTER

4902 WILLIAMS MICHAEL N

4910 24 RENT TO OWN
ELEGANT BEAUTY SALON THE
ELEGANT BOUTIQUE THE
SUNMART

4921 ERIN IS HOPE FOUNDATION INC POLLARD

4930 FAMILY DOLLAR

4940 ALL OCCASIONS EVENTS CENTER

4960 AMERICAN FAMILY INSURANCE
BOOKSTOGO

5005 ALMA WEED
COLLEGE HILL NURSING & REHABILITATIO
J RENNAKER
LUCILLE WALHOITE



-

N OLIVER ST

2013

2020 CHILD START INCMARTIN LUTHER
2300 LINDSEY AYRES

E 21ST ST N 2008

- 3424 OLD MISSION MORTUARY & CEMETERY
 OLD MISSION WICHITA PARK MORTUARY CE
 QUIRING OLD MISSION FUNERAL HOME
 SERVICE CORP INTERNATIONAL
 WICHITA PARK CMTRY & MAUSOLEUM
- 3912 ALPHA PHI SORORITY
 BETA CHI OF GAMMA PHI BETA INC
 BRANDON MCLAUGHLIN
 DELTA DELTA DELTA SORORITY
 DELTA GAMMA FRATERNITY
 MARIA OROZCO
- 4000 BRYCE CAVENEE
 PHI DELTA THETA INTERNATIONAL FRATER
- 4201 BRAEBURN GOLF COURSE
 REFLECTION RIDGE GOLF CORP
 TRADITIONS CAFE
- 4902 MICHAEL N WILLIAMS
- 4910 CISROS
 DESIGNERS CONNECTION
 SUN MART
 THOMAS L NELSON AGENCY
 UNIVERSITY PLZ COSMETOLOGY ACADEMY
- 4921 ERIN IS HOPE FOUNDATION INC
- 4930 FAMILY DOLLAR
- 4940 ALL OCCASIONS EVENT CENTER
- 4950 24 RENT TO OWN INC
 SIGNATURE MARKETING GROUP KS LLC
- 5005 BIRDA BUFFORD
 DAVID MASON
 E CRINER

N OLIVER ST

2008

1702 BRIAN FRANKLIN
1720 KASSANDRA ADAMS
1721 FRANCES SHELLY
1726 CARNELL HOPE
MADWESTMUSIC ENTERTAINMENT
1806 WHITE CHAPEL MEMORIAL CORP
1824 WHITE CHAPEL MEMORIAL GARDENS
1834 CINDI OLIVER
2046 DANCEL CORNER
DENTAL
PRICE RON DDS
2130 RIVER COMMUNITY CHURCH
2160 UNITY CHURCH OF WICHITA
2320 ROSE MBUTHI

E 21ST ST N

2003

3424 OCCUPANT UNKNOWN
 OLD MISSION MORTUARY
 OLD MISSION PRE NEED DEPT
 OLD MISSION WCHT PARK CMTRY
 QUIRING OLD MISSION FNRL HOME

3801 SUNRISE TV CORP

3912 A GIBBS
 ALPHA PHI SORORITY
 CASEY THOMPSON
 DELTA DELTA DELTA SORORITY
 DELTA GAMMA SORORITY
 DOROTHY GOWAN
 GAMMA PHI BETA

4000 ADAM STEWART
 EVAN BORST
 PHI DELTA THETA
 STELLA LEISZLER

4201 BRBRN GOLF CRS AT WCHT STATE
 TRADITIONS CAFE

4902 MICHAEL N WILLIAMS
 OCCUPANT UNKNOWN
 WILLIAMS MICHAEL N DDS

4910 BOMB FASHIONS
 UNIVERSITY PLAZA CSMTLGY ACDMY

4921 ERIN IS HOPE FOUNDATION INC
 JUDY L POLLARD MACCC
 JUDY MACPOLLARD
 POLLARD LICKLIDER CLINIC

4930 OCCUPANT UNKNOWN
 SUN MART

4950 24 RENT TO OWN
 FINNEY PROPERTIES
 OCCUPANT UNKNOWN

5005 DORIS MOORE
 FREEDA NEUMAN
 LEO PARKS
 MARY CORTEZ

N OLIVER ST 2003

1701 DIANA EARSERY
1702 GARY CHILDERS
1707 JOSEPH GILKEY
1715 PAUL TURNER
1720 CEDRIC VANN
1721 FRANCIS SHELLY
1726 KIM HOPE
1806 GAIL WEBB
1824 WHITE CHAPEL MEMORIAL GRDN
2046 CHARLES ROGERS
 DENTAL CORNER
 FORESTER LLOYD DDS
 GREISEN NORMAN DDS
 NEARING SCOTT DDS
 SHULER RONALD L DDS
2130 RIVER COMMUNITY CHURCH
2160 DIAL A PRAYER
 UNITY CHURCH OF WICHITA
2230 HARISHANKE NAGARAJAN

E 21ST ST N 1999

3424 MCPHERRON R GLEN OLD MISSION
 OLD MISSION WICHITA
 QUIRING OLD MISSION FUNERAL HOME MAUSOLEUM

3912 ALPHA PHI SORORITY
 DELTA DELTA DELTA SORORITY
 DELTA GAMMA SORORITY
 GAMMA PHI BETA
 KAPPA SIGMA FRATERNITY FLOOR 2

4000 BRYCE CAVENEE
 PHI DELTA THETA

4100 ECK STADIUM

4201 WICHITA STAT UNIVERSITY MULTI CLTRL RESRC CENTER
 WICHITA STAT UNIVERSITY NATIONAL INSTITUTE FOR AVN RESEARCH
 WICHITA STAT UNIVERSITY STUDENT FINANCIAL PLAN & ASSTNCE
 WICHITA STAT UNIVERSITY SUNFLOWER/STUDENT NSWPPR
 WICHITA STAT UNIVERSITY UNIVERSITY CMPTG & TELECOMMUNICATION
 WICHITA STAT UNIVERSITY UNIVERSITY DINING SERVICES
 WICHITA STAT UNIVERSITY WICHITA RDO READING SERVICE
 WICHITA STAT UNIVERSITY WICHITA TECHNOLOGY CORPORATION
 WICHITA STAT UNIVERSITY WOMENS PRGMNG RESOURCES
 WICHITA STATE UNIVERSITY CAMPUS CREDIT UNION
 WICHITA STATE UNIVERSITY CAMPUS LIFE
 WICHITA STATE UNIVERSITY CAREER SERVICES
 WICHITA STATE UNIVERSITY CHILD DEVELOPMENT CENTER
 WICHITA STATE UNIVERSITY COLLEGES AND SCHOOLS
 WICHITA STATE UNIVERSITY LEARNING RESOURCE CENTER
 WICHITA STATE UNIVERSITY LIBRARY
 WICHITA STATE UNIVERSITY MEDIA RESOURCES CENTER
 WICHITA STATE UNIVERSITY METROPOLITAN COMPLEX
 WICHITA STATE UNIVERSITY PHYSICAL PLANT
 WICHITA STATE UNIVERSITY PLANNING OFFICE
 WICHITA STATE UNIVERSITY POLICE
 WICHITA STATE UNIVERSITY POSTAL SERVICES
 WICHITA STATE UNIVERSITY PRESIDENT
 WICHITA STATE UNIVERSITY PRO SHOP
 WICHITA STATE UNIVERSITY PROJECT DISCOVERY
 WICHITA STATE UNIVERSITY PURCHASING
 WICHITA STATE UNIVERSITY RESEARCH ADMINISTRATION
 WICHITA STATE UNIVERSITY RESIDENCE HALL
 WICHITA STATE UNIVERSITY RHATIGAN STUDENT CENTER
 WICHITA STATE UNIVERSITY STUDENT GOVERNMENT
 WICHITA STATE UNIVERSITY STUDENT HEALTH SERVICES
 WICHITA STATE UNIVERSITY STUDENT SUPPORT SERVICES
 WICHITA STATE UNIVERSITY TELEVISION WSU CHANNEL 13
 WICHITA STATE UNIVERSITY UPWARD BOUND
 WICHITA STATE UNIVERSITY VETERANS AFFAIRS
 WICHITA STATE UNIVERSITY VICE PRESIDENTS

4837 OCCUPANT UNKNOWN

4902 WILLIAMS MICHAEL N DDSOFFICE

4921 DCCCA CENTER

E 21ST ST N

1999

(Cont'd)

4921 KANSAS STATE OF DISTRICT COURT OFFICES
4930 SUN MART
4950 24 RENT TO OWN
FINNEY PROPERTIES
5001 OCCUPANT UNKNOWN
5005 BIRDA BUFFORD
E CRINER
INTEGRATED HEALTHSERVICES OF WICHITA
J RENNAKER
LUCILLE WALHOITE

N OLIVER ST 1999

1414 QUIKTRIP CORPORATION STORE NO 325
 1421 KEN MAR LIQUOR
 1427 GIRL FRIDAY
 2020 TRAVEL & TRANSPORT EAST
 2046 DENTAL CORNER
 ROGERS CHARLES DDS
 2130 UNIVERSITY BAPTIST CHURCH
 2160 DIAL A PRAYER
 UNITY CHURCH OF WICHITA
 2330 ALEESIA TRAMMEL
 AMANDA WARD
 AMARNATH JASTI
 AMNA AZIZ
 ANDREW BOHN
 ANDREW PARKER
 ANTHONY BARNETT
 ARTHUR ASOMBWILE
 AUDREY STEELE
 AUGUSTINE OKEMWA
 BEVERLY CHAMPION
 BLAKE WEBSTER
 BRADY FLOCK
 BRANDON MILLER
 BROOK RADER
 BRYAN REYNOLDS
 C DREWES
 CASEY CANTRELL
 CHARLES JAYASOORIYA
 CHESTER REYES
 COURTNEY ROTRAMEL
 DARRIN SCHMIDT
 DAVID CABREJOS
 DAVID MEEK
 DAVID REED
 DAWN INGRAM
 DENEVA LATTIMORE
 DENNIS WARREN
 DIANA TRUONG
 DONALD SAVAGE
 DOROTHY BILLINGS
 ELIZABETH ENGELKEN
 GALENA APOSTOLOVA
 HABTOM GEBREMESKEL
 HEATHER MOSHER
 HENDRA NG
 HUTKA BHATIA
 J FOSSAH
 JACKIE PIGRAM
 JAMES LEE
 JAMES WHITE

N OLIVER ST

1999

(Cont'd)

2330 JAMEY THOMAS
JAMILIA SLY
JANELL MONTAGNE
JAOUAD BENHALIMA
JEFF LOECK
JENNIFER BROWNING
JENNIFER MONTO
JORDAN WIENS
JOSE CECILIANO
JOYCE JANDRAKOVIC
JUSTIN AUGUSTINUS
KAMAL HUSSAIN
KATHRYN HOUCHIN
KATHRYN THACKERY
KATHY MOON
KATIE BAXA
KEVIN CRAIG
KEVIN MONTISANO
KONARA KOLLALPITIYA
LANCE SHAW
LEKSHMI RADHAKRISHNAN
LOGAN BOWERMAN
MAHOGONY SCOTT
MARAT SANATULLOV
MARIA AKRABOVA
MARK AYRES
MARY BARBOSA
MARY MILLER
MATT HUTFLES
MATT JONES
MATTHEW HENDERSON
MELISSA JACKSON
MICHAEL BARRETT
MICHAEL HUNT
MOYAZZAM HOSSAIN
NAGARAJA THANTHRY
NATHAN MASON
NHAN LA
NICHOLAS BARTELL
NICHOLAS HARRIS
NICHOLAS KOUDELIS
NICHOLAS LIES
NORBERT HSU
PATRICK TELLO
PREMSANKA PARAMSOTHY
ROBERT ISBELL
RODRIGO RUBINETTI
RONALD EVERHART
RUDY PEREZ
RUSSEL BROOKS

N OLIVER ST

1999

(Cont'd)

2330 SABRINA NJOGU
SABRINA WATIE
SAGUN SHRESTHA
SAILESH DHAKAL
SEYED SAJJADI
SHANG CHOU
SHASHISHEKAR SHIVASWAMY
SIDNEY NIBLACK
SM ISLAM
STEPHANIE GILMORE
STEPHANIE LILLIE
STEPHANIE TOKARZ
STEVEN SLOAN
SVETOSLAV RAGIN
SYED NOOR
TALL OAKS APARTMENTS
TAYLOR GULLICK
TERESA NEUROTH
TERESA WARREN
TERRY MEIGS
THERESA MURPHY
THOMAS YATES
TOMISLAV TOMOV
TRAVIS GOULETTE
VANESSA ELLIOTT
VICTOR BUTNEV
VIKAS YADAV
WILFRED SULEIMAN
WILMA LEE
YOUHONG LIU

E 21ST ST N 1995

3424 DUNSFORD, JOE R
OLD MISSION CEMETERY
OLD MISSION FUNERAL HOME
QUIRING OLD MISSION FUNERAL

3912 ALPHA PHI SORORITY
DELTA DELTA DELTA SORORITY
DELTA GAMMA SORORITY
DIETZ, J
GADDY, SHARON H
GAMMA PHI BETA
GOWAN, DOROTHY
KAPPA SIGMA FRATERNITY
ORCHARD, DAWN

4000 CLARKE, ROBERT
DOUD, CHIP
DUPONT, DAMON
GEIST, MARK
GRANT, MATT
HAZEN, BRYCE
LAVINE, CHRIS
LEE, DAVID
LEISZLER, STELLA L
MASH, JOHN JR
MCILVAIN, C
OSBORN, GARY
PHI DELTA THETA
ROBINSON, TIMOTHY
SCHWARTZ, DEREK

4201 UNIVERSITY ALUMNI CLUB
WICHITA STATE UNIVERSITY GOLF

4902 MICHAEL N WILLIAMS DDS
MILLER INVESTMENTS

4910 DILLON STORE
WESTERN UNION

4921 SEDGWICK COUNTY DAY TREATMENT

4930 SUN MART

4940 DING HAW RESTAURANT

4950 PAYLESS SHOE SOURCE

5005 NORTHEAST HEALTH CARE CTR

N OLIVER ST 1995

1701	COLLINS, PAUL
1707	SHAVER, C
1714	EVANS, JASON
1720	WASSALL, IRMA
1721	SHELLY, FRANCIS
1726	HOPE, KEITH
2020	KURDIAN TRAVEL AGENCY
2046	B CLASSEN DDS
	D MENDOZA DDS
	DENTAL CORNER
	J HILDRETH DDS
	SPARROW, AARON
	T ROSA DDS
2130	UNIVERSITY BAPTIST CHURCH
2160	UNITY CHURCH OF WICHITA
2330	AARON, P
	ABAYASEKERA, KUSHAN
	ACON, ADRIAN
	ALAM, MANJUR
	ALLISTON, KEVIN
	ASCOLA, JUAN
	AUNE, ERIC
	BAKER, CHRISTI
	BAN, KIRK
	BARBER, M
	BARUA, ABHIK
	BASUKI, DON S
	BEGUM, LUFTE A
	BELTON, JOHNNY
	BENNETT, REINALD T
	BENSON, MANUEL
	BIBLER, C A
	BILLINGS, DOROTHY
	BLACK, DOUGLAS
	BOGGESS, MATT
	BONDY, ROBERT
	BONG, C K
	BOWEN, N
	BRODIER, F
	BROWN, BIRTHAM
	BROWN, CHAD
	BROWN, KENDALL
	BRUNGARDT, DENISE
	CAMPBELL, LEILANI
	CARR, VINCENT L
	CHAO, ANJEN
	CHAVEY, KEITH D
	CHEONG, YEW
	CHEW, PETER P
	CHIANG, MING

N OLIVER ST

1995

(Cont'd)

2330 CHIN, STEVEN
 CHONG, PING
 CHOU, SHANG C
 CHUA, AIK H
 CRISS, MAGGIE
 CRUMLEY, SHAUN C
 DAO, CAM
 DAVIS, D
 DEMBY, S
 DEPPERSCHMIDT, PATRICK
 DESANDRO, VANCE
 DETERS, JULIE
 DEWEESE, ROBIN
 DILLEY, JAMES
 DRAKE, S
 DREILING, JOHN R
 EIDE, KURT
 FENDER, DAVID
 FINLEY, FAKIA J
 FITZGIBBON, GREGORY
 FLEEKER, JOHN W
 FLOYD, MICHAEL V
 FONG, CHOON F
 FRANCIS, WARREN
 FRIEND, SUSAN
 FULLERTON, BEAU
 FUNDABURK, STACEY
 GASSETT, T
 GEER, TRICIA
 GRABILL, KEITH
 GRAIR, CHARLES
 GUIER, LILLI
 GULIFORD, MIA
 HALIM, SUDJAN
 HAMOUDI, A
 HANLEY, WILLIAM T
 HARTER, PIERRE
 HERVAS, DAVID
 HSU, NORBERT
 HUANG, HAUH R
 HUFFMAN, RONNIE
 IRVING, C
 JACKSON, C
 JOHNSON, S R
 JOHNSTON, AARON
 JONES, MAE
 KIM, DOHYUN
 KRUEGER, RANDY
 KUMAR, KRISHNA
 KUMDU, SUDIP

N OLIVER ST

1995

(Cont'd)

2330 LAMASTRES, TROY
 LANE, DOUGLAS
 LENG, TEH W
 LEONG, WENG F
 LOH, MING Y
 LOW, WEN Y
 MANSON, THOMAS
 MCBRIDE, C J
 MEEK, DAVID W
 MERMIS, ANGELA
 MIRZA, SHAHAN
 MISHRA, S
 MITCHELL, ANGELA
 MOORE, A E
 MOORE, COREY
 MOORE, T
 MURPHY, CHRIS H
 NAZIN, NAZMIN
 NIE, XUMIN
 ONG, B
 OWENS, BRAD
 PALMER, ROBERT E
 PARSONS, VALARIE A
 PATEN, TIMOTHY S
 PATRICK, DEBBIE
 PHILLIPS, MARIE
 POTTER, CHRIS
 RADLIN, JAIME O
 RAHMAN, M
 RASTOGI, RENU
 RAVICHANDAR, B C
 RECALDE, JORGE
 REED, SHELBY
 REID, STEVEN
 RICHMOND, ERIKA
 RINCON, DANIELA
 RIVERA, DINA
 ROSENKRANZ, KORI
 RYNO, CYNTHIA
 SAADATI, A II
 SAALMANN, DIETER
 SABACKY, STEVEN
 SAFDAR, SADIA
 SAIKH, FAEQ
 SANDERS, ANGELA B
 SANSTAD, M
 SARWAR, GOLAM
 SCHMITT, RON R
 SHAHZAD, AMIR
 SHAIKH, FAISAL M

N OLIVER ST

1995

(Cont'd)

2330 SHARMA, SATISH
 SHAW, C D
 SHEIKH, RAZI
 SHERROD, BERTHA M
 SHIN, HUNG S
 SHOAT, ROBERTA D
 SINGLETON, S
 SIOW, MENG
 SLOAN, STEVEN
 STARNES, L
 STARNES, TRISTAN
 STEENSTRA, KENNETH
 STUKEY, MARK G
 SUKAIEM, T
 SWEET, BRIAN
 TAGHAVI, M
 TALL OAKS APARTMENTS
 TAN, PEA H
 TAN, THEN H
 TAYLOR, B
 TENG, WESLEY H
 THAMRIN, JOSEPH
 THOMPSON, SHANE
 TIONG, LOUISA
 TJANDRA, EFFY
 TSAI, L
 TSUCHIYA, YOHKO
 WAHOME, KIMAMO
 WASHINGTON, KAREN
 WAYMAN, ANDREA
 WEE, LEON
 WEEKIONG, CHONG R
 WELCH, ALIX
 WHEELER, LEAH
 WHELAN, ROBERT
 WHITE, JAMES
 WILLIAMS, TODD
 WILLSON, D
 WILSON, KENNETH L
 WILTON, JOHN
 WINNER, MARK
 WIRAWATI, ADI
 WODARSKI, KELLY
 WONG, DAVID
 WOODS, R
 YANDLE, M L
 YOUNG, CHRISTA
 YUN, JOJOONG B
 YUN, KEON
 ZHU, JIENING

Target Street

Cross Street

Source

✓

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Cole Information Services

E 21ST ST

1992

4100 ECK STADIUM

E 21ST ST N 1992

3424 OLD MISSION MAUSOLEUM
 OLD MISSION-MISSION CHAPEL MAUSOLEUM
 QUIRING OLD MISSION FUNERAL HM MAUSOLEUM
 QUIRING OLD MISSION FUNERAL HOME CMTRY

3912 ALPHA PHI SORORITY
 ASH, JUNE
 DELTA DELTA DELTA SORORITY
 DELTA GAMMA SORORITY
 GAMMA PHI BETA
 KORDONOWY, SHAWN P
 PI KAPPA ALPHA FRATERNITY
 SCHELL, L
 STANLEY, K

4201 LATOUR MANAGEMENT INC
 UNIVERSITY ALUMNI AND FACULTY CLUB
 WICHITA STATE UNIV GOLF COURSE
 WICHITA STATE UNIV MARCUS CENTER
 WSU GOLF COURSE PRO SHOP

4902 WILLIAMS M N DDS OFFICE

4910 DILLON STORE #55
 WESTERN UNION CONSUMER SERVICES

4921 IDELMAN TELEMARKEING

4930 RELIABLE DRUG STORE

4940 GREAT WALL RESTAURANT

4950 PAYLESS SHOE SOURCE

5001 QUIKTRIP CORP NORTHEAST STR #342

5005 NORTHEAST HEALTH CARE CENTER

N OLIVER ST 1992

1715 TURNER, PAUL E
 1721 SHELLY, FRANCIS
 1806 MEMORIAL GARDENS ASSN
 WHITE CHAPEL MEMORIAL GARDENS & MAUSOLEUM
 2020 KURDIAN TRAVEL AGCY
 2046 KIMBELL VET CLINIC
 2130 BAPTIST STUDENT UNION
 UNIV BAPTIST CHURCH
 2160 UNITY CH OF WICHITA
 2330 AKHTAR, KALEEM
 ALFORD, W M
 ALLEN, BRIAN
 ALLEN, DARREL R
 ALLENBACH, RANDY
 ALMARDINI, M E
 BARNESBLATT, KATHRYN
 BERTHOLS, DAN
 BLAGRAVE, PHIL
 BLAIR, DAWN
 BONDY, ROBERT
 BRIGGS, MIKE
 BRODIER, F
 BROWN, SCOTT
 BUZARD, BRIAN
 CARR, DOUGLAS
 CARTER, STEVE
 COMBS, M J
 CORBETT, MICHAEL B
 CROW, SHELLY
 DAVIS, A
 DEAN, LARRY
 DESOUZA, EROS
 DEVADER, DAYMON
 DICK, MICHAEL
 DIXON, KENNY
 DOUGLASS, JOHN V
 FANNIN, JIMMY
 FINLEY, F J
 FORBES, E
 FRANCIS, HOLLY
 GOLDEN, PAUL
 GORANSON, JIM
 GUIER, LILLI
 HAFLICH, J L
 HART, BRETT A
 HASSANAIN, A
 HERVAS, DAVID
 HILLIARD, JAI
 HOSKINS, K R
 JACQUES-MILLER

N OLIVER ST

1992

(Cont'd)

2330 JAMES, ANDREW
 JEMSEN, LINDA
 JOHNSON, JEFFERY R
 JOHNSON, MELISSA
 JOHNSTON, AARON
 JOHNSTON, JAMES L
 JOHNSTON, SEAN
 KALTHOUM, MOHAMAD
 KELLOGG, C
 KEMMER, ANDY
 KERR, DARIN
 KHAN, NAVEED
 KHAN, TANZEEM
 KHORCHID, YASSER
 KIPPER, BRAD
 KREUTZER, DOUG
 LACORE, L M
 LAPPIN, JEFFREY
 LOGAN, JAMES
 LYNCH, J W
 MANAHAN, KYLE
 MANZ, K L
 MARTIN, LESLIE
 MEEK, DAVID W
 MIKEDIS, IOANNIS
 MISHRA, A
 MOORE, A E
 MUN, CHEE W
 MURILLO, JESUS
 NAJAR, MOHAMED D
 NGU, T
 NUNEZ, JOSE
 PATCH, LISA
 POPEJOY, ROBERT
 RADIYA, ASHVIN
 REID, STEVEN
 RICKERT, GUS
 RIDENS, CHRIS
 RODGERS, STEVE
 ROZALIS, AFFAN
 RUPP, STACI
 SABLIE, ADINI
 SANDERS, KARL G
 SAVOY, KEN
 SCHLITTER, TONI
 SHADOW LAKE APT HMS
 SHAW, M
 SHORE, D L
 SIXKILLER, JACK L
 SLOAN, T

N OLIVER ST

1992

(Cont'd)

2330 SMITH, L E
SNOOK, RICHARD
STEINSTR, KENNY
STOCKSTILL, OLLIE
SWISCHER, KELLY N
TAGHAVI, M
TENNY, LYNN
TERNES, DAVID
THIMESCH, MARK
THOMAS, J
TRAHERN, CHRISTI
VANDENHEEVER, COLLEEN
WELCH, NINA
WELLS, N J
WELTY, LISA
WILLIAMS, D
WILLIAMS, N D
WISEMAN, P
WRISLEY, ELLIE
WUESTEWALD, CRAIG J

E 21ST ST N 1987

4000 Vacant

4201 University Alumni & Faculty Club

684-7231

Wichita State University (Pro Golf Shop) 685-6601

W S U (Swim Club)

Wichita State University (Golf Course)

685-7211

Wichita State University (Marcus Center) 689-3731

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**N OLIVER INTERSECTS
NUMBERED IRREGULARLY**

E 21ST ST N

1987

E 21ST ST—Contd

- 4902 Williams Michl N dentist 684-1470
Twenty Four Hour Emergency Dental
Clinic 684-1470
- 4910 Dillon Stores Co No 55 684-5241
- 4921 Vacant
- 4930 Revco Discount Drug Center 685-5922
- 4940 Great Wall Restaurant Inc 681-3351
- 4950 Payless Shoesource 685-8771
- 5001 Quik Trip 685-2051
- 5005 Northeast Health Care Center 685-9291
- 5010 K-Mart Department Store 683-8561
- 5017 Richecky Retail Liquor Store 685-6861
- 5105 Center P A Of Wichita phys 684-0201

N OLIVER ST 1987

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KENSINGTON INTERSECTS

1806 White Chapel Memorial Gardens

Cemetery & Mausoleum 684-1612

2020 General Motors Acceptance Corp 684-7261

2046 Kimbell Small Animal Hospital 686-8516

2130 University Baptist Church 684-5296

2160 Wichita Unity Church 682-7511

Dial-A-Prayer 682-4546

E 21ST ST INTERSECTS

153

2330 Shadow Lake Apartments 685-1357

E 21ST ST N 1982

4000 No Return
 4201 Shocker Alumni & Faculty Club 684-7231
 Wsu-(Pro Golf Shop) 685-6601
 Wichita State University Golf Course
 685-7211
 Marcus Center For Continued Education
 689-3731
 4321 Vacant

139

N OLIVER INTERSECTS
 NUMBERED IRREGULARLY

4902 Vacant
 4910 Dillon's Food Store 684-5241
 4920 One Day Color Film Service
 4921 Southwestern Bell Telephone
 4930 Revco Discount Drug Center 685-5922
 4940 Great Wall Restaurant Inc 681-3351
 4950 Pay Less Shoes 685-8771
 5001 Quik Trip gro 685-2051
 5005 Northeast Nursing Center 685-9291
 5010 K-Mart Department Store 683-8561
 5017 Beasley's Retail Liquor Store 685-6861
 5105a Vacant
 5105b Vacant
 5105c Mc Clanahan W A orthopedic surgery
 5105d Vacant

N OLIVER ST 1982

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KENSINGTON INTERSECTS

1806 White Chapel Memorial Gardens

Cemetery & Mausoleum 684-1612

2020 General Motors Acceptance Corp 684-7261

Vacant

2046 Kimbell Small Animal Hospital 686-8516

2130 University Baptist Church 684-5296

2160 Wichita Unity Church 682-7511

Dial-A-Prayer church 682-4546

E 21ST ST INTERSECTS

153

2330 Shadow Lake Apartments 685-1357

E 21ST ST N 1977

689-3320
 4000 Wilcox Mary
 4201 Shocker Alumni & Faculty Club 684-7231
 Wichita State University Golf Course
 685-6601
 Marcus Center For Continued Education
 689-3731

139

N OLIVER INTERSECTS
 NUMBERED IRREGULARLY

4800 Swart Phillip J 686-4924
 4921 Chevrolet Motor Division Of General
 Motors zone sls & serv office 685-1311
 5005 Northeast Nursing Center 685-9291
 Ash W J Mrs 942-5929
 Grebe Etta 685-5722
 Harrow Helen R 685-1537
 Hawn Ethel Mrs 686-6035
 Phenneger Alethea 686-6035
 Schweiter Jennie 686-1582
 5001 Quik-Trip Store No 342 gro 685-9924
 5017 Vacant
 5105 Vacant
 Concepcion Eugenio S phys 684-2081
 5105a Carreau Ernest P phys 682-0281
 5105b Buck Benj H Jr phys 684-2081
 Hart Dillis L phys 684-2081
 5105c Mc Clanahan Ward A phys 684-8211
 5107 Bethel Chandler S phys 682-6559
 Landreth Estel L dentist 685-9276
 5111 Bioware Inc laby supplies & eq 686-7000

N OLIVER ST 1977

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KENSINGTON INTERSECTS

1806 White Chapel Memorial Gardens
cemetery 684-1612

2020 General Motors Acceptance Corp 684-7261
Motors Insurance Corp 684-5293

2046 Kimbell Small Animal Hospital 686-8516

2130 University Baptist Church 684-5296

2160 Wichita Unity Church 682-7511

Dial-A-Prayer church 682-4546

E 21ST ST INTERSECTS

ST L S F RY CROSSES

140

2330 Shadow Lake Apartments 685-1357

E 21ST ST N 1972

4000 Poston John W
 4201 Shocker Alumni & Faculty Club 684-7231
 Wichita State University Golf Course
 685-6601

139

N OLIVER INTERSECTS

4802 Melfi John J 682-6313
 4921 Chevrolet Motor Division Of General
 Motors zone sls & serv office 685-1311
 5005 Northeast Nursing Center 685-9291
 Harrow Helen R 685-1537
 Kinkaid Roy C 686-1741
 Marble Leona M Mrs 685-7992
 Winkler C A 685-8319
 Van Buskirk Marvin C 686-1367
 5105 Medical Village Maintenance 682-6711
 Henning Charles E phys 684-8211
 5105a Carreau Ernest P phys 682-0281
 5105b Buck Benj H Jr phys 684-2081
 Hart Dillis L phys 684-2081
 5105c Mc Clanahan Ward A phys 684-8211
 5107 Bethel Chandler S phys 682-6559
 Landreth Estel L dentist 685-9276
 5111 Associated Laboratories 686-6601
 Doolin & Shaw Optical Dispensers
 684-4303

N OLIVER ST 1972

138

KENSINGTON INTERSECTS

**1806 White Chapel Memorial Gardens
cemetery 684-1612**

1936 Vacant

**2020 General Motors Acceptance Corp 684-7261
Motors Insurance Corp 684-5293**

2046 Kimbell Small Animal Hospital 686-8516

2130 University Baptist Church 683-6016

2160 Wichita Unity Church 682-0931

E 21ST ST INTERSECTS

ST L S F RY CROSSES

140

ZIP CODE 67220

2401 Talaty Erach R © 683-1468

2512 Gospel Assembly Church

LOOMAN ST INTERSECTS E & W

3100 Mc Cown Clifton L © 682-1893

E 21ST ST N 1967

4000 CHRISTENSEN HARVEY M MU4-6110
 4201 CRESTVIEW COUNTRY CLUB
 MU3-7541
 ---N OLIVER INTERSECTS
 4802 BELL JACK D MU3-5861
 4921 CHEVROLET MOTOR DIVISION OF
 GENERAL MOTORS ZONE SLS &
 SERV OFFICE MU5-1311
 5105 CARREAU ERNEST P PHYS MU2-0281
 5105B BUCK BEN H JR PHYS MU4-2081
 5105C MC CLANAHAN WARD A PHYS
 MU4-8211
 5111 ASSOCIATED LABORATORIES
 MU6-0601
 MARYMONT JESSE H JR PHYS
 HIRATZKA TOMIHARU PHYS
 DOOLIN & SHAW OPTICAL
 DISPENSERS MU4-4303
 MAULE DRUG CO INC MU3-5661
 5205A WARREN LLOYD P PHYS MU3-7223
 5205B PETERSON D RUTH S MRS PHYS
 MU2-1579
 5205C FRANCIS & GRAY MU4-0288

N OLIVER ST 1967

---KENSINGTON INTERSECTS
 1806 WHITE CHAPEL MEMORIAL GARDENS
 CEMETERY MU4-1612
 1935 HEBREW CEMETERY OF
 CONGREGATION AHAVATH ACHIM
 2046 KIMBELL SMALL ANIMAL HOSPITAL
 MU6-8516
 2130 UNIVERSITY BAPTIST CHURCH
 MU3-6016
 2160 WICHITA UNITY CHURCH MU2-0931

138

---E 21ST ST INTERSECTS
 ---ST L S F RY CROSSES

140

---ZIP CODE 67220
 2401 MC KOWN RUTH A MRS • MU3-0077
 3100 MC COWN CLIFTON L • MU2-1839
 3228 ANDERSON BOBBY C MU3-2533
 3260 POLING BETTY A MRS • MU3-8438
 3332 LEE ROBT E GENL CONTRACTOR •
 MU3-8829

E 21ST ST N

1964

3837 Lansdowne J Douglas © MU6-6830

4000 Vacant

N Oliver intersects

4201 Crestview Country Club MU3-7541

4802 Pauley Vern L © MU3-8201

142

5105a Carreau Ernest P phys MU2-0281

5105b Buck Ben H jr phys MU4-2081

5111 Associated Laboratories MU6-0641

Doolin & Shaw Optical Dispensers

MU4-4303

N OLIVER ST 1964

Kensington intersects**138**1806 White Chapel Memorial Gardens
cemetery MU4-16121935 Hebrew Cemetery of Congregation
Ahavath Achim2046 Kimbell Small Animal Hosp
MU6-8516

2062 University Baptist Church MU3-6016

2160 Wichita Unity Church MU2-0931

E 21st intersects**StL-SFRy crosses****140**

2401 McKown Francis H © MU3-0077

3100 McCown Clifton L © MU2-1893

3228 Ware Jas MU4-5867

3260 Poling Betty A Mrs © MU3-8438

3332 Lee Robt E © MU3-8829

E 21ST ST N

1955

3837△Lansdowne J Douglas ©

4000△Pendleton Iris W ©

4001△Crestview Country Club

Swenson Anton

N Oliver intersects

N OLIVER ST 1955

1720△Koby Ralph W ©
1721△Carman Donald L ©
1726△Watkins Warren K ©
 △Primp Beauty Shop
2046△Kimbell Small Animal
 Hospital
2160△Wichita Unity Church

E 21ST ST N

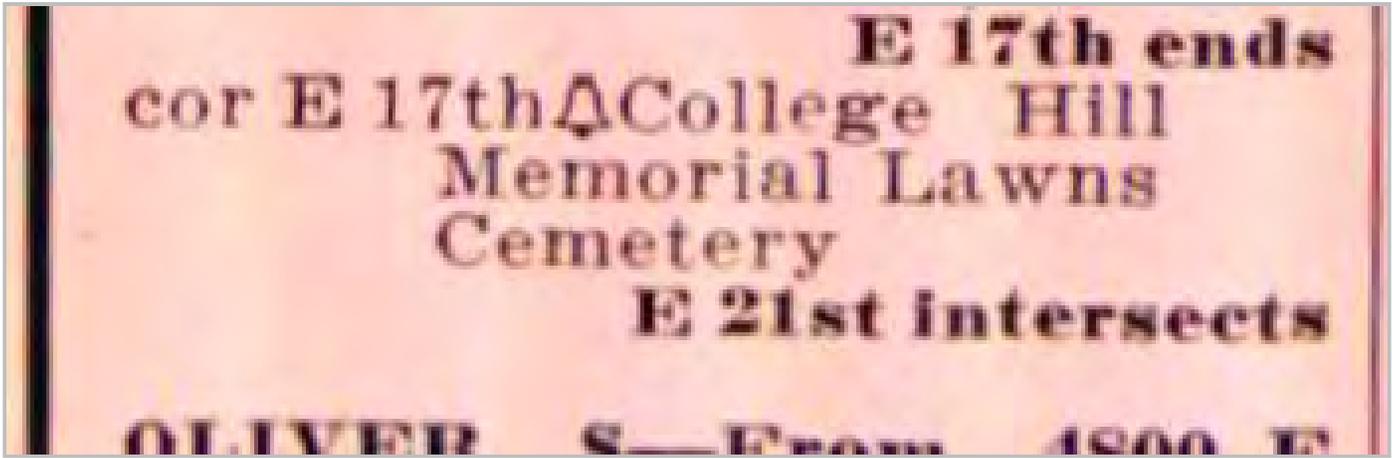
1942

City Limits
3500 Vacant
3625 Δ Peacock Roy A
Δ Weaver U Sidney ©
Δ Weaver & Peacock Press
Δ Barrett G Fred
3635 Δ Cain Joe ©
Cain Mamie Mrs dairy
3837 Δ Hall Kenneth C ©
4000 Vacant
4001 Δ Crestview Country Club
Swensson Anton N
N Oliver intersects
21ST W—From 2200 Park

✓

-

N OLIVER ST 1942





WSU Innovation Campus

21st & Oliver

Wichita, KS 67208

Inquiry Number: 4095462.3

October 06, 2014

Certified Sanborn® Map Report



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

Certified Sanborn® Map Report

10/06/14

Site Name:

WSU Innovation Campus
21st & Oliver
Wichita, KS 67208

Client Name:

Terracon, Inc.
1815 S. Eisenhower
Wichita, KS 67209



EDR Inquiry # 4095462.3

Contact: Meagan Haas

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Terracon, Inc. were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Site Name: WSU Innovation Campus
Address: 21st & Oliver
City, State, Zip: Wichita, KS 67208
Cross Street:
P.O. # 01147766
Project: 01147766
Certification # 5D5D-4AA0-808D



Sanborn® Library search results
Certification # 5D5D-4AA0-808D

Maps Provided:

1964
1950
1935

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

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

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1964 Certified Sanborn Map

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Certification # SD5D-4AA0-808D



Site Name: WSU Innovation Campus
 Address: 21st & Oliver
 City, ST, ZIP: Wichita KS 67208
 Client: Terracon, Inc.
 EDR Inquiry: 4095462.3
 Order Date: 10/6/2014 1:00:00 PM
 Certification # SD5D-4AA0-808D
 Copyright: 1964



1950 Certified Sanborn Map

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Certification # SD5D-4AA0-808D



Site Name: WSU Innovation Campus
 Address: 21st & Oliver
 City, ST, ZIP: Wichita KS 67208
 Client: Terracon, Inc.
 EDR Inquiry: 4095462.3
 Order Date: 10/6/2014 1:00:00 PM
 Certification #: SD5D-4AA0-808D
 Copyright: 1950



1935 Certified Sanborn Map

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Certification # **SD5D-4AA0-808D**



Site Name: WSU Innovation Campus
 Address: 21st & Oliver
 City, ST, ZIP: Wichita KS 67208
 Client: Terracon, Inc.
 EDR Inquiry: 4095462.3
 Order Date: 10/6/2014 1:00:00 PM
 Certification # SD5D-4AA0-808D
 Copyright: 1935



Facility Number: 28578 AboveGround Tanks: 0-Active 0 -Inactive Under Ground Tanks: 1-Active 0-Inactive

Name: **WSU-GOLF COURSE** Facility Phone: **316-685-6831** 24-Hour Contact Name: **SCOTT HILL** Title: **CONTACT PERSON** 24-Hour Phone: **316-516-6253** Update Date: **09/17/2008**
Notification/Owner Signed Date: **08/26/88** Cell Phone: **316-516-6253**

Mail Address: **4110 E 17TH** City: **WICHITA** State: **KS** ZipCode: **67260-0002**

Physical Address: **4110 E 17TH** City: **WICHITA** State: **KS** ZipCode: **67208**

County -- District: **Sedgwick** -- **SC** Legal Description: of of of Sec: Tws: Rng:

Location Method: **GARMIN 3 PLUS** Location Feature: **Facility Center** Latitude: **37.7158767**
Longitude: **-97.28667148** Datum: **WGS84**

Inspection Date: **06/03/2014** Inspection Type: **Compliance** Inspector: **Vincent Ressel**

Observed Releases: **None**

Inventory Control Compliance: **Yes** Deficiencies:

Full Release Prevention Compliance: **No** Deficiencies: **Spill bucket(s) filled with water.**

Full Release Detection Deficiencies: **No** Deficiencies:

Leaking Tank Info*+:

▶ **Owner(28578)(WSU GOLF COURSE-BRAEBURN)(4201 EAST 21ST WICHITA KS 67208)**
(Phone:316-685-6831)

▼ **Tanks**

Type	Tank#	Status	Permit	Exempt	YR-Inst	Substance	Capacity	Fill-Rmv-Compl
U	001	Cur In Use	06/09/2014	No	1988	Gas (Incl Alcohol)	1,000	Yes

KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT

Buried Tank Leak Assessment

TANK CLOSURE
REVISED

02087840

Project Name: white chapel

Date of Initial Report December 16, 1991

Status CLOSED HOLD (ACTIVE) MONITOR

FACILITY INFORMATION:

Contact Name Ray Mc Mannis Company white chapel
Street Address 1806 N. Oliver City wichita
State Kansas Zip 67208 Telephone No. (316) - 684-1612
Legal Location SE SENW Sec 12, T27S, R1E County Sedgwick

OWNER (if different): Contact Name _____
Company Old Mission wichita park Cemetary Address 3424 E. 21st St., wichita
State Kansas Zip _____ Telephone No. _____

INCIDENT: Leak Date Unknown Discovery Date December 16, 1991
Material Leaked Gasoline Quantity Lost Unknown
Leak Duration Unknown Quantity Recovered _____
Leak Type: 1. Tank _____ 2. Piping _____ 3. Overfill ✓

4. Other (Please Describe) _____
Dispenser Type: 1. Pressure _____ 2. Suction _____
Cause of Leak: 1. Corrosion _____ 2. Rupture _____ 3. Installation Practices _____
4. Other (Please Describe) _____

How was the leak discovered? The leak was discovered during UST Removal.

Who reported the leak? Muhammad T. HUSAIN Phone No. (316) - 838-1071
Representing KDHE Address 1919 Amidon, wichita KS-67202

Describe leakage incident: Inspection of tanks and pipelines for corrosion / any other type of damage indicated that the leakage most possibly took place due to overfill practices.

TANK EXCAVATION

- no contaminated soil
- contaminated soil below KDHE remediation levels
- contaminated soil removed, remaining contamination below KDHE remediation levels
- contaminated soil removed, contamination remains above KDHE remediation levels

- Petroleum Storage Tank Release Trust Fund
- Application was provided
- Soil removal was approved by KDHE
- Approved disposal location/treatment method

- LINES
- lines were removed
 - lines were not removed, pressure tested
 - lines were not removed
 - no contaminated soil
 - contaminated soil below KDHE remediation levels
 - contaminated soil removed, remaining contamination below KDHE remediation levels
 - contaminated soil removed, contamination remains above KDHE remediation levels

- OTHER
- Based on Dreger analysis
 - Emergency Response taken
 - Includes any of the following:
 - evacuation
 - venting vapors (sewer, basement)
 - provide bottled water
 - dig trench for immediate interception
 - KDHE will request installation of monitoring well
 - KDHE will request site investigation to be conducted
 - no further action will be requested by KDHE

RECEIVED

APR 15 1992

DURHAM
ENVIRONMENTAL
REMEDATION

Company Ray's Petroleum Equipment, Inc. Contact: D. Thompson Telephone No. (316)- 942-4268
Address 1355 S. Young, Wichita, KS- 67209.

Have all potential sources been ruled out or tested? (Describe and attach list, if numerous) Yes.

Area Geology/Groundwater The area is covered by Alluvium and Terrace deposits of Wisconsin to Holocene age which overlies Wellington formation of Permian age. Ground water in this area range from 18.0'-20.0' depth.

Extent of Groundwater Contamination Dmger analysis indicated that the TPH value gradually decreased with increasing depth and at 10' depth the TPH value was below 100 ppm. No ground water was encountered at this depth.

Attach a map documenting the leak location, other potential sources, area wells, sewers, groundwater flow direction and other threatened or affected facilities. Attach all correspondence, test well logs, tank test results, and other useful information. Describe cleanup measures, current and future.

One 550 gallon steel tank (gasoline) was removed. Total depth of excavation was 10'. The TPH measurement of soil/sand indicated that at 2.5' depth the TPH was <2500 ppm, at 5.0' and 10.0' depth the TPH values were 300 ppm and 50 ppm respectively.

At 10.0' depth very sticky clay was encountered and at this depth presence of no water/water flow was observed. The generalized ground water flow direction in this area is from NE-SW. The contaminated soil/sand was removed from the WST basin and kept for aeration under the supervision of Ray's petroleum, Inc. On March 31, 1992 KDHE requested White Chapel to submit a progress report of remedial action of the contaminated sand/soil.

Investigator Signature Men T. Husain

Date April 13, 1992.

28469
Po. Box only

02087840

KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT

Buried Tank Leak Assessment

White chappel
1806 N. Oliver

Project Name: Wichita, KS-67208

Date of Initial Report December 16, 1991

Status CLOSED HOLD ACTIVE MONITOR

FACILITY INFORMATION:

Contact Name _____ Company White Chappel
Street Address 1806 N. Oliver City Wichita
State Kansas Zip 67208 Telephone No. _____
Legal Location SE SE NW Sec 12, T27S, R1E County Sedgewick SG

OWNER (if different): Contact Name _____
Company _____ Address _____
State _____ Zip _____ Telephone No. _____

INCIDENT: Leak Date Unknown Discovery Date December 16, 1991
Material Leaked Gasoline Quantity Lost Unknown
Leak Duration Unknown Quantity Recovered _____
Leak Type: 1. Tank _____ 2. Piping _____ 3. Overfill

4. Other (Please Describe) _____

Dispenser Type: 1. Pressure _____ 2. Suction _____

Cause of Leak: 1. Corrosion _____ 2. Rupture _____ 3. Installation Practices

4. Other (Please Describe) _____

How was the leak discovered? Dragger analysis indicated high TPH values. Tank was in very good condition. No holes due to Corrosions were observed. It is assumed the leakage took place due to overfill. OS

Who reported the leak? Meat T. Huxsain Phone No. _____

Representing KDHE OS Address 1919 Amidon, Wichita.

Describe leakage incident: During the removal of tank, the measurement of soil sample for TPH showed high values from surface to 2.5' depth and decreasing with higher depth. Inspection of tanks and pipelines for Corrosion or any other damage presented leakage most possibly occurred due to overfill practices.

TANK EXCAVATION

- no contaminated soil
- contaminated soil below KDHE remediation levels
- contaminated soil removed, remaining contamination below KDHE remediation levels
- contaminated soil removed, contamination remains above KDHE remediation levels

- Petroleum Storage Tank Release Trust Fund Application was provided
- Soil removal was approved by KDHE
- Approved disposal location/treatment method

LINES

- lines were removed
- lines were not removed, pressure tested
- lines were not removed
- no contaminated soil
- contaminated soil below KDHE remediation levels
- contaminated soil removed, remaining contamination below KDHE remediation levels
- contaminated soil removed, contamination remains above KDHE remediation levels

OTHER

- Based on Dreger analysis
- Emergency Response taken
 - Includes any of the following:
 - evacuation
 - venting vapors (sewer, basement)
 - provide bottled water
 - dig trench for immediate interception
- KDHE will request installation of monitoring well
- KDHE will request site investigation to be conducted
- no further action will be requested by KDHE

RECEIVED

DEC 18 1991

ENVIRONMENTAL
REMEDATION

02
Company Rays Petroleum Contact: _____ Telephone No. _____

Address 1355 S. Young, Wichita, KS-67209

Have all potential sources been ruled out or tested? (Describe and attach list, if numerous)

The condition of the site exhibited that the TPH measurement of soil would be adequate enough to indicate gasoline contaminant. So at different depth TPH measurements were carried out.

Geology/Groundwater The area is covered by alluvium and terrace deposits of Wisconsin to Holocene age which overlies wellington formation of Permian age.

Extent of Groundwater Contamination The Dragger analysis indicated that TPH value gradually decreased with increasing depth and at 10' depth the value was below 100 ppm. No ground water was encountered at this depth. It is assumed that Contaminants did not extend to ground water at this site.

Attach a map documenting the leak location, other potential sources, area wells, sewers, groundwater flow direction and other threatened or affected facilities. Attach all correspondence, test well logs, tank test results, and other useful information. Describe cleanup measures, current and future. The TPH measurement of soil indicated that at 2.5', TPH was 2500 ppm, at 5.0', TPH was 300 ppm and at 10.0' it was 50 ppm. At 10.0' depth very sticky clay was encountered and no vertical flow of ground water was observed. The generalized ground water flow direction in this area is from NE-SW. The contaminated soil was excavated, and kept under aeration under the supervision of Rays Petroleum before refill the tank's excavated area. Besides this, no remedial action would be required at this site.

Investigator Signature [Signature] Date 12/16/91

21st. st.

OLIVER

WHITE CHAPEL

17th st.



Facility Number: 28469 AboveGround Tanks: 0-Active 0 -Inactive Under Ground Tanks: 0-Active 1-Inactive
Name: WHITE CHAPEL MEMORIAL GARDENS Facility Phone: 24-Hour Contact Name: Title: 24-Hour Phone: Update Date: Notification/Owner Signed Date: Cell Phone:
Mail Address: P.O. BOX 8074 City: WICHITA State: KS ZipCode: 67208
Physical Address: 1806 N OLIVER City: WICHITA State: KS ZipCode: 67208
County -- District: Sedgwick -- SC Legal Description: of SE of SE of NW Sec: 12 Tws: 27 Rng: 01E
Location Method: GARMIN 3 PLUS Location Feature: Facility Center Latitude: 37.72295788585 Longitude: -97.28024777013 Datum: WGS84
Inspection Date: Inspection Type: Inspector: Observed Releases: Inventory Control Compliance: Deficiencies: Full Release Prevention Compliance: Deficiencies: Full Release Detection Deficiencies: Deficiencies:
Leaking Tank Info*+: L/T Project Code:U2-087-00840 Status:Closed CA Date: Applicant:

▶ **Owner(28469)(SERVICE CORP. INTERNATIONAL)(P.O. BOX 13548, 1929 ALLEN PKWAY HOUSTON TX 77219)(Phone:)**

▼ **Tanks**

Type	Tank#	Status	Permit	Exempt	YR-Inst	Substance	Capacity	Fill-Rmv-Compl
U	001	Perm Out		No	1986	Gas (Incl Alcohol)	550	Removed

Print

[ISL Search](#) >> [ISL Results](#) >>

**Kansas Department of Health and Environment
Bureau of Environmental Remediation
Identified Sites List Information**

Project Code: C208773008 **Site Status:** Active
Site Name: REDBUD PATH (OLIVER TO WOODLAWN)
CERCLIS Number:
Other Names:
Address: FROM OLIVER AVE TO WOODLAWN BLVD ADJACENT TO 17TH **City:** WICHITA
Zip Code:
County: SG **River Basin:** Lower Arkansas
Latitude: 37.7155 **Longitude:** -97.27096
Program Name: Voluntary Cleanup **Project Manager:** ROSS, D.
Contaminants:

Environmental Use Control In Place? No

[Documents/Photos Available](#)

Site Narrative:

The Kansas Department of Health and Environment (KDHE) conducted a Phase I Brownfields Targeted Assessment (BTA) for the City of Wichita on the Oliver Ave to Woodlawn Blvd extension of the Redbud Bike/Pedestrian Path in Wichita, Kansas. Extending the existing Redbud Path from Oliver Ave to Woodlawn Blvd has been hindered by the unknown environmental status of the corridor, and the Brownfields assessment is necessary to evaluate the property prior to construction. The future expansion of the Redbud Path would be an excellent benefit to the community. Based on the Phase I report, "Recognized Environmental Conditions" (RECs) were identified as the historic use of the property as a railroad corridor. Due to the potential for soil and groundwater impacts, a Phase II limited site investigation was performed in August 2013.

The Phase II investigation consisted of advancing 24 soil borings at eight transects (three probes at each transect) along the former railroad corridor. Discrete soil samples were collected from each boring location at various intervals for a total of 40 soil samples. All soil samples were submitted to the laboratory and analyzed for polycyclic aromatic hydrocarbons (PAHs) and select metals consisting of arsenic, cadmium, and lead. In addition, two soil samples were also submitted for the Toxicity Characteristic Leaching Procedure (TCLP) for all three metal contaminants to further characterize the potentially impacted soil. Results from the Phase II investigation identified PAHs, arsenic, cadmium, and lead in the soil at concentrations above the KDHE's Risk-Based Standards for Kansas (RSK) most stringent soil levels for a residential scenario. The observed contamination exceeding regulatory levels was identified in 13 of the 40 samples collected and is generally limited to the upper two feet of soil. Additionally, TCLP lead was detected in the P-5-A (2 to 4 feet) sample exceeding the TCLP limit for lead of 5.0 milligrams per liter (mg/L). TCLP arsenic was not detected above laboratory reporting limits and TCLP cadmium was detected at levels below the TCLP limit of 1.0 mg/L.

Based on results of the Phase II investigation, benzo(a)pyrene, naphthalene (PAH constituents), arsenic, cadmium, and lead have been identified in the soil above their respective KDHE RSK soil levels. The City of Wichita is encouraged to apply to the Voluntary Cleanup Program (VCP) to address the soil contamination on the property prior to redevelopment.

Legal Description:

Township	Range	Section	Parcel	Description
27	01E	12		

Actions Completed:

Activity Type	Activity	Start	Completed
ASSESSMENT	Brownfields Targeted Assessment	04/19/2013	06/05/2013

ASSESSMENT	Brownfields Targeted Assessment	06/05/2013	10/02/2013
TRANSFER	Transfer Within Bureau		10/02/2013

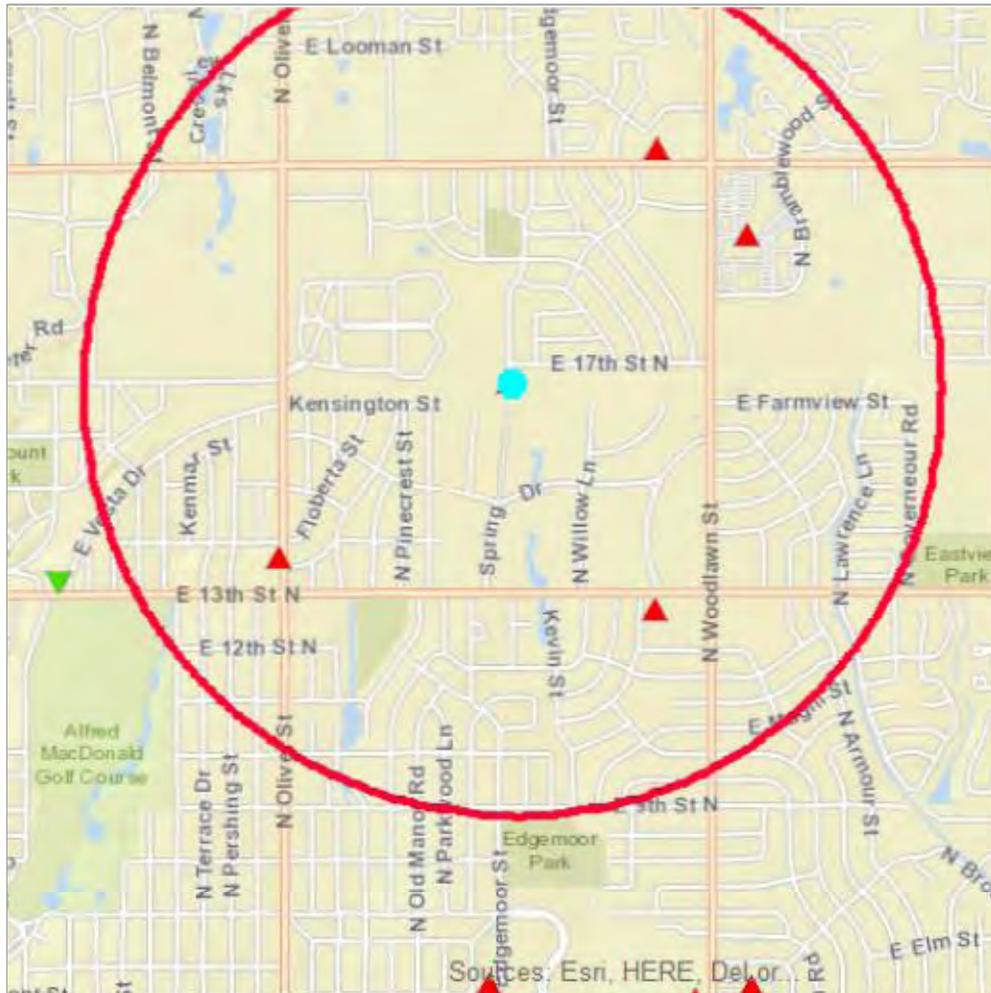
Actions Underway:

Activity Type	Activity	Start	Completed

Actions Proposed:

**Map of Identified Site
(One-mile radius circle around selected site)**

[Click here for interactive map.](#)



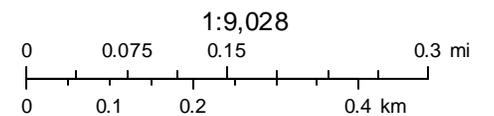
<u>Permit Number:</u>	<u>Permit Code:</u> R-registered	<u>Solid Waste Key:</u>	
<u>Facility Name:</u> Wichita State University		<u>Permittee Name:</u>	
<u>Status:</u> Active		<u>Owner Name:</u> Wichita State University	<u>Ownership:</u> State/Federal Landfill
<u>Permit Types</u> (choose all that apply): Composting			<u>BWM Permit Manager:</u>
<u>Past Permit Types</u> (choose all that apply):			<u>BWM Hydrology Manager:</u>
<u>BER Oversight:</u>			<u>BER Project Manager:</u>
<u>Special Facility/Waste Types</u> (choose all that apply): Composting: yard waste		<u>Industrial Waste Types</u> (choose all that apply):	
<u>Location County:</u> Sedgwick	<u>District:</u>	<u>Location Telephone:</u> 316-978-3444	
<u>Location Address:</u> 4010 E. 17th	<u>Location City:</u> Wichita	<u>Location State:</u> KS	<u>Location Zip Code:</u> 67260
<u>Directions:</u>			
<u>Hours of Operation:</u>			
<u>Comments:</u>			

► **Contacts (facility: Mr Randy Pulec - Director of Facilities Maintenance - 316-978-3444)**

WSU INNOVATION CAMPUS PHASE I ESA



October 16, 2014



Sources: Esri, HERE, DeLorme, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL,

START IN-TANK LEAK TEST
TEST BY PROGRAMMED TIME
SEP 19. 2014 6:00 PM

TEST LENGTH = 24 HOURS

T 1:UNLEAD
VOLUME = 420 GALS
ULLAGE = 614 GALS
90% ULLAGE = 510 GALS
TC VOLUME = 414 GALS
HEIGHT = 20.44 INCHES
WATER VOL = 0 GALS
WATER = 0.00 INCHES
TEMP = 78.5 DEG F

---- IN-TANK ALARM ----
T 1:UNLEAD
TANK TEST ACTIVE
SEP 19. 2014 6:00 PM

STOP IN-TANK LEAK TEST
T 1:UNLEAD
SEP 20. 2014 6:00 PM

LEAK TEST REPORT
T 1:UNLEAD

TEST STARTING TIME:
SEP 19. 2014 6:00 PM

TEST LENGTH = 24.0 HRS
STRT VOLUME = 414.2 GAL

LEAK TEST RESULTS
0.20 GAL/HR TEST PASS



July 23, 2014

Scott Hill
Braeburn Golf Course
4110 E. 17th
Wichita, KS 67208

No tree/brush open burning allowed during the month of April.
No open burning April 1 – October 31 on days when an Ozone
Alert is forecast. Sign up for Ozone Alert Emails at
www.tinyurl.com/wichitaozonealert

Mr. Hill:

I am writing to acknowledge request of an application for an exemption to Kansas Administrative Regulation (K.A.R.) 28-19-645, *Open Burning Prohibited*, for the open burning of trees and brush. The location will be at 4110 E. 17th in the City of Wichita, Sedgwick County, Kansas.

1. This approval is issued to Braeburn Golf Course for the burning of trees and brush only. No other materials may be disposed at this site by burning or other means without permission from this Office as the local representative of the KDHE Bureau of Air.
2. All open burning activities shall be subject to the conditions stated in K.A.R. 28-19-647(e) and KDHE Bureau of Air policies, as well as local fire authority policies and regulations. **By signing the application received, you have acknowledged that you have read and understood the applicable policies and regulations and agree to conduct all open burning in accordance with the required conditions including the type(s) of materials authorized to be burned and the times burning is allowed.**
3. Prior to burning, each scheduled burn shall be reported to the Sedgwick County 911 dispatcher by phone. Note that Sedgwick County 911 does not authorize any burning, but simply gathers information on open burns called in for the day. **It is the responsibility of the person conducting the burn to check weather conditions for suitability before burning and during the burning. If weather conditions become unsuitable during the burning operation, then the burning activity must cease and any remaining material including ash and coals must be extinguished.**
4. This approval expires October 17, 2014. Any burning activity subject to the Kansas Open Burning Regulations conducted after this expiration date will require written approval from this Office as the local representative of the KDHE Bureau of Air.
5. Pursuant to K.A.R. 28-19-647(e)(9), any open burn approval may be revoked with thirty (30) days notice.
6. Any time the local fire authority rescinds approval for this open burn activity, this KDHE Open Burn Approval shall also be rescinded.
7. In granting this approval, the KDHE and the City of Wichita assume no liability for personal injury or property damage. Should any questions or problems arise as a result of this activity, you will be contacted.

Your cooperation with the KDHE and local Environmental Health air quality programs is appreciated. If you have any questions regarding this matter please contact the City of Wichita Air Quality Section at (316) 268-8351.

Sincerely, 

Curtis Redington
City of Wichita Environmental Health
1900 E. Ninth Street
Wichita, KS 67214
Phone: (316) 268-8351
Fax: (316) 268-8390
E-mail: credington@wichita.gov

cc: Russ Brichacek, KDHE Bureau of Air

Open Burning Approval: 4110 E. 17th (Braeburn Golf Course) Expires: October 17, 2014



Wichita Fire Department | 455 N. Main - 11th Floor | Phone 316-268-4441 | www.Wichita.gov

Permission to Burn ~~Tree~~ Limbs and Brush
at 4110 E 17th (WSU Golf Course) is hereby granted to Scott Hill
by Lt Kerschen with the following restrictions: Follow
Directions on Back

Applicant Address 4110 E 17th Phone 516-6253
Air Curtain? NO

The applicant assumes all liability for any damages that may occur by the above listed burn.

Applicant: *[Signature]* Date 7-17-2014
Fire Officer: *[Signature]* Burn Permit # 1017-2 Expires: 10/17/14



Kansas Department of Wildlife, Parks and Tourism

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Sedgwick County



Threatened and Endangered (T&E) Species

ARKANSAS RIVER SHINER *Notropis girardi*

State: Endangered **Federal:** Threatened **Critical Habitat:** Yes

ARKANSAS DARTER *Etheostoma cragini*

State: Threatened **Federal:** Candidate **Critical Habitat:** Yes

ARKANSAS RIVER SPECKLED CHUB (PEPPERED CHUB) *Macrhybopsis tetranema*

State: Endangered **Federal:** N/A **Critical Habitat:** Yes

PLAINS MINNOW *Hybognathus placitus*

State: Threatened **Federal:** N/A **Critical Habitat:** Yes

SILVER CHUB *Macrhybopsis storeriana*

State: Endangered **Federal:** N/A **Critical Habitat:** Yes

EASTERN SPOTTED SKUNK *Spilogale putorius*

State: Threatened **Federal:** N/A **Critical Habitat:** Yes

WHOOPIING CRANE *Grus americana*

State: Endangered **Federal:** Endangered **Critical Habitat:** No

LEAST TERN *Sterna antillarum*

State: Endangered **Federal:** Endangered **Critical Habitat:** No

ESKIMO CURLEW *Numenius borealis*

State: Endangered **Federal:** Endangered **Critical Habitat:** No

PIPING PLOVER *Charadrius melodus*

State: Threatened **Federal:** Threatened **Critical Habitat:** No

SNOWY PLOVER *Charadrius alexandrinus*

State: Threatened Federal: N/A Critical Habitat: No

Species In Need of Conservation (SINC)

River Shiner *Notropis blennioides*

State: SINC Federal: N/A Critical Habitat: No

Western Hognose Snake *Heterodon nasicus*

State: SINC Federal: N/A Critical Habitat: No

Whip-poor-will *Caprimulgus vociferus*

State: SINC Federal: N/A Critical Habitat: No

Yellow-throated Warbler *Dendroica dominica*

State: SINC Federal: N/A Critical Habitat: No

Alligator Snapping Turtle *Macrochelys temminckii*

State: SINC Federal: N/A Critical Habitat: No

Black Tern *Chlidonias niger*

State: SINC Federal: N/A Critical Habitat: No

Short-eared Owl *Asio flammeus*

State: SINC Federal: N/A Critical Habitat: No

Chihuahuan Raven *Corvus cryptoleucus*

State: SINC Federal: N/A Critical Habitat: No

Ferruginous Hawk *Buteo regalis*

State: SINC Federal: N/A Critical Habitat: No

Golden Eagle *Aquila chrysaetos*

State: SINC Federal: N/A Critical Habitat: No

Southern Flying Squirrel *Glaucomys volans*

State: SINC Federal: N/A Critical Habitat: No

Eastern Hognose Snake *Heterodon platirhinos*

State: SINC Federal: N/A Critical Habitat: No

Black Rail *Laterallus jamaicensis*

State: SINC Federal: N/A Critical Habitat: No

Bobolink *Dolichonyx oryzivorus*

State: SINC Federal: N/A Critical Habitat: No

Cerulean Warbler *Dendroica cerulea*

State: SINC Federal: N/A Critical Habitat: No

Henslow's Sparrow *Ammodramus henslowii*

State: SINC Federal: N/A Critical Habitat: No

Long-billed Curlew *Numenius americanus*

State: SINC Federal: N/A Critical Habitat: No

Mountain Plover *Charadrius montanus*

State: SINC Federal: N/A Critical Habitat: No

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U.S. Fish & Wildlife Service

Environmental Conservation Online System

Conserving the Nature of America

Enter Search Term(s):

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- [Species Reports](#)>
- Species By County Report

Species By County Report

The following report contains Species that are known to or are believed to occur in this county. Species with range unrefined past the state level are now excluded from this report. If you are looking for the Section 7 range (for Section 7 Consultations), please visit the [IPaC](#) application.

County: Sedgwick, KS

Group	Name	Population	Status	Lead Office	Recovery Plan Name	Recovery Plan Action Status	Recovery Plan Stage
Birds	Whooping crane (<i>Grus americana</i>)	except where EXPN	Endangered	Assistant Regional Director-ecological Services	Whooping Crane Recovery Plan, Final Third Revision	View Implementation Progress	Final Revision 3
	Least tern (<i>Sterna antillarum</i>)	interior pop.	Endangered	Mississippi Ecological Services Field Office	Least Tern (Interior Pop.)	View Implementation Progress	Final
Fishes	Arkansas darter (<i>Etheostoma cragini</i>)		Candidate	Kansas Ecological Services Field Office	-	-	-
Mammals	Northern Long-eared Bat (<i>Myotis septentrionalis</i>)		Proposed Endangered	Twin Cities Ecological Services Field Office	-	-	-

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APPENDIX D
ENVIRONMENTAL DATABASE INFORMATION

WSU Innovation Campus

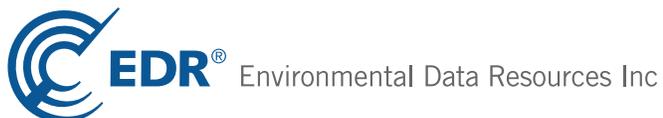
21st & Oliver

Wichita, KS 67208

Inquiry Number: 4095462.2s

October 03, 2014

The EDR Radius Map™ Report



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

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Detail Map	3
Map Findings Summary	4
Map Findings	7
Orphan Summary	73
Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

GeoCheck - Not Requested

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

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EXECUTIVE SUMMARY

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

TARGET PROPERTY INFORMATION

ADDRESS

21ST & OLIVER
WICHITA, KS 67208

COORDINATES

Latitude (North): 37.7195000 - 37° 43' 10.20"
Longitude (West): 97.2849000 - 97° 17' 5.64"
Universal Transverse Mercator: Zone 14
UTM X (Meters): 651162.4
UTM Y (Meters): 4175873.0
Elevation: 1411 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 37097-F3 WICHITA EAST, KS
Most Recent Revision: 1982

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20120618, 20120624
Source: USDA

TARGET PROPERTY SEARCH RESULTS

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

DATABASES WITH NO MAPPED SITES

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

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL..... National Priority List

EXECUTIVE SUMMARY

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

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

Federal CERCLIS list

CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System
FEDERAL FACILITY..... Federal Facility Site Information listing

Federal CERCLIS NFRAP site List

CERC-NFRAP..... CERCLIS No Further Remedial Action Planned

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

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

Federal RCRA generators list

RCRA-LQG..... RCRA - Large Quantity Generators
RCRA-SQG..... RCRA - Small Quantity Generators
RCRA-CESQG..... RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROL..... Sites with Institutional Controls
LUCIS..... Land Use Control Information System

Federal ERNS list

ERNS..... Emergency Response Notification System

State and tribal leaking storage tank lists

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

State and tribal registered storage tank lists

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

State and tribal institutional control / engineering control registries

INST CONTROL..... Institutional Controls Information

State and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

EXECUTIVE SUMMARY

VCP..... Identified Sites List

State and tribal Brownfields sites

BROWNFIELDS..... Identified Sites List

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

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

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations

ODI..... Open Dump Inventory

INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL..... Clandestine Drug Labs

AOCONCERN..... Area of Concern

CDL..... Clandestine Laboratory Data

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

Local Land Records

LIENS 2..... CERCLA Lien Information

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System

SPILLS..... Kansas Spills Database

Other Ascertainable Records

DOT OPS..... Incident and Accident Data

DOD..... Department of Defense Sites

FUDS..... Formerly Used Defense Sites

CONSENT..... Superfund (CERCLA) Consent Decrees

ROD..... Records Of Decision

UMTRA..... Uranium Mill Tailings Sites

US MINES..... Mines Master Index File

TRIS..... Toxic Chemical Release Inventory System

TSCA..... Toxic Substances Control Act

FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing

SSTS..... Section 7 Tracking Systems

ICIS..... Integrated Compliance Information System

PADS..... PCB Activity Database System

MLTS..... Material Licensing Tracking System

RADINFO..... Radiation Information Database

FINDS..... Facility Index System/Facility Registry System

EXECUTIVE SUMMARY

RAATS.....	RCRA Administrative Action Tracking System
RMP.....	Risk Management Plans
UIC.....	Underground Injection Wells Database Listing
DRYCLEANERS.....	Registered Drycleaning Facilities
AIRS.....	Title V Source Information
TIER 2.....	Tier 2 Information Listing
INDIAN RESERV.....	Indian Reservations
SCRD DRYCLEANERS.....	State Coalition for Remediation of Drycleaners Listing
Financial Assurance.....	Financial Assurance Information Listing
2020 COR ACTION.....	2020 Corrective Action Program List
LEAD SMELTERS.....	Lead Smelter Sites
US AIRS.....	Aerometric Information Retrieval System Facility Subsystem
PRP.....	Potentially Responsible Parties
US FIN ASSUR.....	Financial Assurance Information
COAL ASH.....	Coal Ash Disposal Site Listing
COAL ASH EPA.....	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER.....	PCB Transformer Registration Database
COAL ASH DOE.....	Steam-Electric Plant Operation Data
EPA WATCH LIST.....	EPA WATCH LIST

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP.....	EDR Proprietary Manufactured Gas Plants
EDR US Hist Auto Stat.....	EDR Exclusive Historic Gas Stations

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

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

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

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

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

EXECUTIVE SUMMARY

STANDARD ENVIRONMENTAL RECORDS

State- and tribal - equivalent CERCLIS

SHWS: The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Department of Health & Environment's list: Summary of Bureau of Environmental Remediation Sites in Kansas.

A review of the SHWS list, as provided by EDR, and dated 08/04/2014 has revealed that there are 6 SHWS sites within approximately 1 mile of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
BEST CLEANERS - 1427 N OLIVER Facility Status: Active	1427 N OLIVER	SSE 1/4 - 1/2 (0.483 mi.)	15	42
STANDARD PARTS AND EQUIPMENT 1 Facility Status: Resolved	3916 E. 13TH	SSW 1/2 - 1 (0.512 mi.)	17	45
REDBUD PATH (OLIVER TO WOODLAW) Facility Status: Active	FROM OLIVER AVE TO WOODSE	1/2 - 1 (0.544 mi.)	18	48
ABC CLEANERS (FMR) Facility Status: Active	2620 E 21ST	W 1/2 - 1 (0.881 mi.)	E19	53
BEST CLEANERS #2021, 6160 EAST Facility Status: Active	6160 EAST 21ST STREET N	ENE 1/2 - 1 (0.887 mi.)	20	63
21ST STREET CORRIDOR BTA - #4 Facility Status: Resolved	ALONG 21ST ST BETWEEN P	W 1/2 - 1 (0.908 mi.)	E21	70

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

SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the Department of Health & Environment's Directory of Sanitary Landfills, Solid Waste Transfer Stations and Collectors in Kansas.

A review of the SWF/LF list, as provided by EDR, and dated 07/22/2014 has revealed that there is 1 SWF/LF site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
WICHITA STATE UNIVERSITY	4010 E. 17TH	SW 0 - 1/8 (0.019 mi.)	4	10

State and tribal leaking storage tank lists

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Kansas Department of Environmental Protection's LUST Incident Report.

A review of the LUST list, as provided by EDR, and dated 07/28/2014 has revealed that there are 8

EXECUTIVE SUMMARY

LUST sites within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
WHITE CHAPEL Facility Status: Closed	1806 N OLIVER	SE 0 - 1/8 (0.016 mi.)	A3	9
QUIKTRIP #342 Facility Status: Monitor	5001 E 21ST STREET	ENE 1/8 - 1/4 (0.152 mi.)	B7	13
KMART #7117 Facility Status: Closed	5010 E 21ST ST N	ENE 1/8 - 1/4 (0.158 mi.)	B8	16
CEREBRAL PALSY RESEARCH FOUNDA Facility Status: Closed	5111 E 21ST ST	ENE 1/8 - 1/4 (0.229 mi.)	C10	18
QUIRING MORUARY Facility Status: Closed	3425 E 21ST	WNW 1/4 - 1/2 (0.301 mi.)	12	21
WICHITA STATE UNIVERSITY, HASK Facility Status: Closed	1845 FAIRMONT	WSW 1/4 - 1/2 (0.384 mi.)	D13	22
WICHITA STATE UNIVERSITY (WSU) Facility Status: Closed	1845 FAIRMOUNT	WSW 1/4 - 1/2 (0.403 mi.)	D14	23
DANNY'S BURGERS, FORMER Facility Status: Monitor	2147 N HILLSIDE	WNW 1/4 - 1/2 (0.495 mi.)	16	44

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Health & Environment's UST (Report) Listing Including Names.

A review of the UST list, as provided by EDR, and dated 07/28/2014 has revealed that there are 5 UST sites within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
WSU-GOLF COURSE	4110 E 17TH	SSW 0 - 1/8 (0.006 mi.)	1	7
WHITE CHAPEL MEMORIAL GARDENS	P.O. BOX 8074	SE 0 - 1/8 (0.022 mi.)	A5	11
QUIKTRIP #342	5001 E 21ST STREET	ENE 1/8 - 1/4 (0.152 mi.)	B7	13
KMART #7117	5010 E 21ST ST N	ENE 1/8 - 1/4 (0.158 mi.)	B8	16
CEREBRAL PALSY RESEARCH FOUNDA	5111 E 21ST ST	ENE 1/8 - 1/4 (0.229 mi.)	C10	18

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 06/10/2014 has revealed that

EXECUTIVE SUMMARY

there are 3 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
WHITE CHAPLE	1806 N OLIVER	SE 0 - 1/8 (0.016 mi.)	A2	8
QUIKTRIP #342	5001 E 21ST ST N	ENE 1/8 - 1/4 (0.152 mi.)	B6	11
CEREBAL PALSY RESEARCH FOUNDAT	5111 E 21ST ST N	ENE 1/8 - 1/4 (0.229 mi.)	C11	20

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR US Hist Cleaners: EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR US Hist Cleaners list, as provided by EDR, has revealed that there is 1 EDR US Hist Cleaners site within approximately 0.25 miles of the target property.

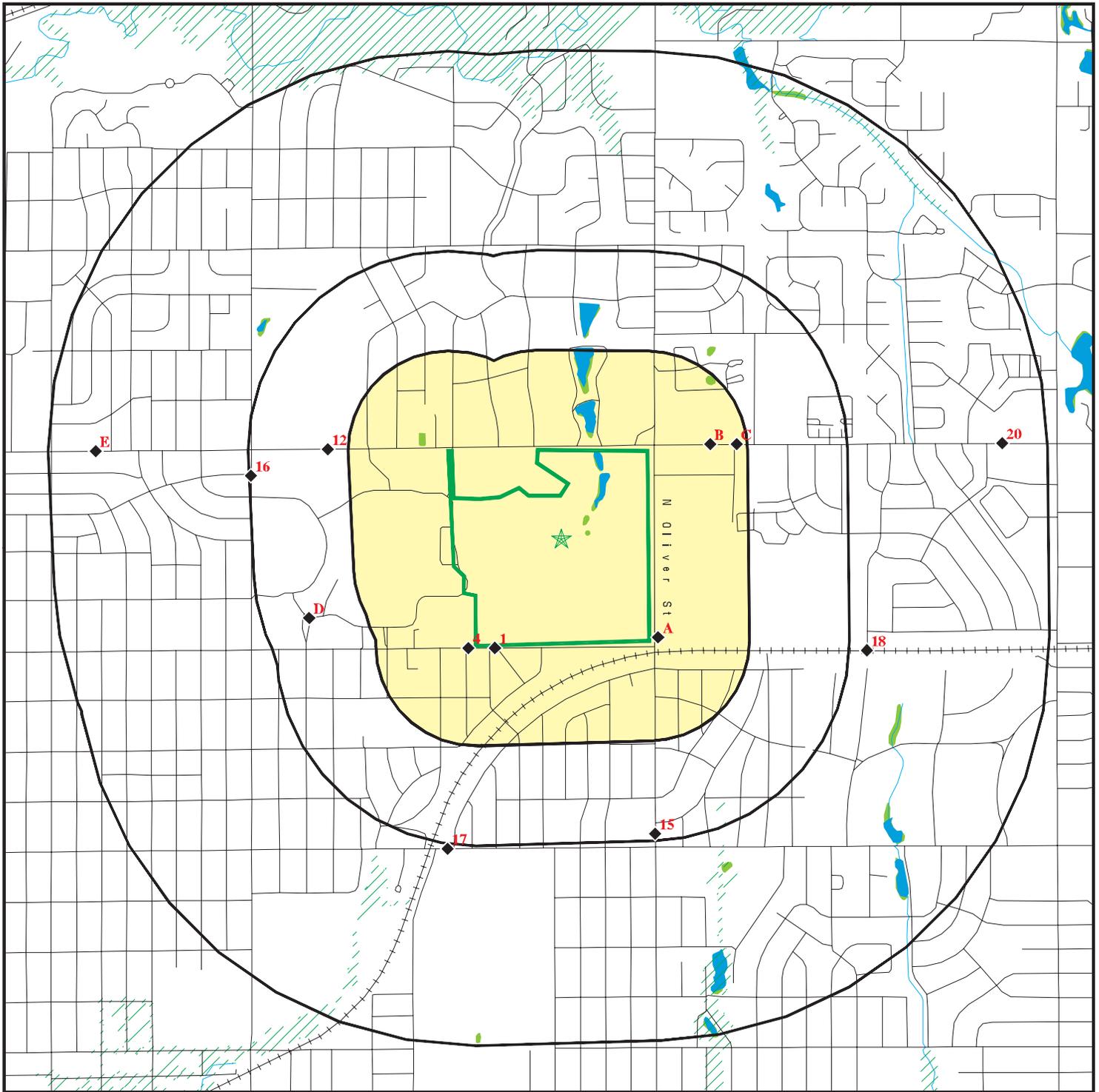
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
Not reported	5110 E 21ST ST N	ENE 1/8 - 1/4 (0.223 mi.)	C9	17

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 10 records.

<u>Site Name</u>	<u>Database(s)</u>
UNIVERSAL LUBRICANTS, INC. 31ST AND CLIFTON ERA	SWF/LF, SPILLS SHWS
RESOURCE RECOVERY MANAGEMENT, LLC. WASTE DISPOSAL L.L.C. TRANSFER STA	SWF/LF SWF/LF
21ST & MAPLEWOOD CONTAMINATION, WI DOUGS AUTO & TRUCK RPR	LUST RCRA NonGen / NLR, FINDS
WSU	RGA LUST
WSU	RGA LUST
WSU, CENTRAL POWER PLANT VIA CHRISTI, ST JOSEPH CAMPUS	RGA LUST RGA LUST

OVERVIEW MAP - 4095462.2S



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

Oil & Gas pipelines from USGS

100-year flood zone

500-year flood zone

National Wetland Inventory

Areas of Concern



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: WSU Innovation Campus
 ADDRESS: 21st & Oliver
 Wichita KS 67208
 LAT/LONG: 37.7195 / 97.2849

CLIENT: Terracon, Inc.
 CONTACT: Meagan Haas
 INQUIRY #: 4095462.2s
 DATE: October 03, 2014 4:37 pm

DETAIL MAP - 4095462.2S



-  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
-  Oil & Gas pipelines from USGS
-  100-year flood zone
-  500-year flood zone
-  National Wetland Inventory
-  Areas of Concern

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: WSU Innovation Campus
 ADDRESS: 21st & Oliver
 Wichita KS 67208
 LAT/LONG: 37.7195 / 97.2849

CLIENT: Terracon, Inc.
 CONTACT: Meagan Haas
 INQUIRY #: 4095462.2S
 DATE: October 03, 2014 4:39 pm

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
<i>Federal NPL site list</i>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
<i>Federal Delisted NPL site list</i>								
Delisted NPL	1.000		0	0	0	0	NR	0
<i>Federal CERCLIS list</i>								
CERCLIS	0.500		0	0	0	NR	NR	0
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
<i>Federal CERCLIS NFRAP site List</i>								
CERC-NFRAP	0.500		0	0	0	NR	NR	0
<i>Federal RCRA CORRACTS facilities list</i>								
CORRACTS	1.000		0	0	0	0	NR	0
<i>Federal RCRA non-CORRACTS TSD facilities list</i>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<i>Federal RCRA generators list</i>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
<i>Federal institutional controls / engineering controls registries</i>								
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
LUCIS	0.500		0	0	0	NR	NR	0
<i>Federal ERNS list</i>								
ERNS	TP		NR	NR	NR	NR	NR	0
<i>State- and tribal - equivalent CERCLIS</i>								
SHWS	1.000		0	0	1	5	NR	6
<i>State and tribal landfill and/or solid waste disposal site lists</i>								
SWF/LF	0.500		1	0	0	NR	NR	1
<i>State and tribal leaking storage tank lists</i>								
LUST	0.500		1	3	4	NR	NR	8
LAST	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
<i>State and tribal registered storage tank lists</i>								
UST	0.250		2	3	NR	NR	NR	5

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
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
FEMA UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
INST CONTROL	0.500		0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL	TP		NR	NR	NR	NR	NR	0
AOCONCERN	1.000		0	0	0	0	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
SPILLS	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		1	2	NR	NR	NR	3
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1.000		0	0	0	0	NR	0
FUDS	1.000		0	0	0	0	NR	0
CONSENT	1.000		0	0	0	0	NR	0
ROD	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
TRIS	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
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
TIER 2	TP		NR	NR	NR	NR	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	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 US Hist Auto Stat	0.250		0	0	NR	NR	NR	0
EDR US Hist Cleaners	0.250		0	1	NR	NR	NR	1

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0
RGA LF	TP		NR	NR	NR	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

1
SSW
 < 1/8
 0.006 mi.
 33 ft.

WSU-GOLF COURSE
4110 E 17TH
WICHITA, KS 67260

UST **U000874106**
Financial Assurance **N/A**

Relative:
Lower

UST:

Facility ID: 28578
 Facility 911 Address: 4110 E 17TH
 Facility 911 City, State, Zip: WICHITA, KS 67208
 Facility Phone: 316-685-6831
 Phone 24 Hours: 316-516-6253
 Facility District: SC
 Facility Location Method: GARMIN 3 PLUS
 Facility Feature: Facility Center
 Facility Datum: WGS84
 Facility Lat/Long: 37.715879999999999/-97.286670000000001
 Owner ID: 28578
 Owner: WSU GOLF COURSE-BRAEBURN
 Owner Type: Current,State Govt.
 Owner/Rep Name: SCOTT HILL
 Owner/Rep Title: CONTACT PERSON
 Owner Address: 4201 EAST 21ST
 Owner City, State, Zip: WICHITA, KS 67208
 Owner County: SEDGWICK
 Contact: SCOTT HILL
 Contact Title: CONTACT PERSON

Actual:
1401 ft.

Tank ID: 001
 Tank Type: Underground
Tank Status: Current In Use
 Total Capacity (Gals): 1000
Hazards: Fire,Chronic,Acute
 Petroleum Substance: Gas (Incl Alcohol)
 NonPetroleum Substance: Not reported
 Estimated Yr In Service: 1988
 Date Removed: Not reported
 Last Permit Printed: 2013-06-25 00:00:00
 Current Permit Printed: 2014-06-09 00:00:00
 QTY Remaining in Tank: Not reported
 Filled/Removed: Not reported
 Tank Empty: Not reported
 Out of Service Mo/Yr: Not reported
 Material of Construction: Fbr Ref Plastic
 Piping: Bare Steel
 Tank Internal Protection: None
 Tank External Protection: Fbr Ref Plstc Coat

KS Financial Assurance:
 Facility ID: 28578
 Financial Responsibility: 3rd Party Liability Insurance

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

A2
SE
< 1/8
0.016 mi.
83 ft.

WHITE CHAPLE
1806 N OLIVER
WICHITA, KS 67208

RCRA NonGen / NLR 1004702964
KSD138023353

Site 1 of 3 in cluster A

Relative:
Lower

RCRA NonGen / NLR:

Date form received by agency: 02/12/1986

Facility name: WHITE CHAPLE

Facility address: 1806 N OLIVER
WICHITA, KS 67208

EPA ID: KSD138023353

Mailing address: PO BOX 8074
WICHITA, KS 67208

Contact: WADE MCCART

Contact address: PO BOX 8074
WICHITA, KS 67208

Contact country: US

Contact telephone: (316) 684-1612

Contact email: Not reported

EPA Region: 07

Classification: Non-Generator

Description: Handler: Non-Generators do not presently generate hazardous waste

Actual:
1406 ft.

Owner/Operator Summary:

Owner/operator name: SERVICE CORP INTERNATIONAL

Owner/operator address: Not reported
Not reported

Owner/operator country: Not reported

Owner/operator telephone: Not reported

Legal status: Private

Owner/Operator Type: Owner

Owner/Op start date: Not reported

Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No

Mixed waste (haz. and radioactive): No

Recycler of hazardous waste: No

Transporter of hazardous waste: No

Treater, storer or disposer of HW: No

Underground injection activity: No

On-site burner exemption: No

Furnace exemption: No

Used oil fuel burner: No

Used oil processor: No

User oil refiner: No

Used oil fuel marketer to burner: No

Used oil Specification marketer: No

Used oil transfer facility: No

Used oil transporter: No

Hazardous Waste Summary:

Waste code: D001

Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET,

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

WHITE CHAPLE (Continued)

1004702964

WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D008
 Waste name: LEAD

Violation Status: No violations found

A3
SE
 < 1/8
 0.016 mi.
 83 ft.

WHITE CHAPEL
1806 N OLIVER
WICHITA, KS 67208

LUST S101833608
N/A

Site 2 of 3 in cluster A

Relative:
Lower

LUST:

Actual:
1406 ft.

Facility ID: 28469
Site Status: Closed
 Release Date: Not reported
 Initial Report Date: 12/16/1991
 Project Number: U2-087-00840
 Project Name: White Chappel
 Legal Desc Section: 12
 Legal Desc Township: 27S
 Legal Desc Range: 01E
 Initial Ranking: Not reported
 Current Ranking: Not reported
 Facility Contact: Ray Mcmannis
 Facility Phone Number: 316-684-1612
 Facility Owner Identification number: 28469
 Facility Owner: Old Mission Wichita Park Cemet
 Owner Contact Person: Not reported
 Owner Address: 3424 E 21st St, Wichita
 Owner City: Not reported
 Owner State: KS
 Owner Zip Code: Not reported
 Owner Phone number: Not reported
 Contractor license number: Not reported
 Contractor phone number: 931-694-2426
 Leak duration (if known): Ukwn
 Quantity released (if known): Not reported
 Quantity recorded: Not reported
 Leak Type: Spill/Overfill
 Reported By: Meer T Husain
 Reported by persons phone number: Not reported
 Reported by person address: Scdo
 Ground water Impacted (yes/no): alluvium and terrace deposits of wisconsin to holocene age overlying wellington formation of permian age. groundwater in this area ranges from 18-20' depth. generalized gw flom = southwest.
 Static groundwater level: Not reported
 Groundwater flow direction: Not reported
 District staff names: Meer Husain
 Assessment of release: 1-550 gal ust & lines removed. soil tph(ppm) @ 2.5'=2500 @ 5'=300 , @ 10'=50. contam soil was removed for aeration, will be returned to excv when levels < kals. tank was in good condition, no corrosion holes observed. most likely overfills.
 Contamination assesement: yes.
 Extent of contamination impact: drager analysis indicated tph decreased w/ depth to <100 ppm @ 10'. no groundwater was encountered at this depth. it is assumed that

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

WHITE CHAPEL (Continued)

S101833608

contaminants did not extend to groundwater at this site. 1992: soil below kals--site closed.

Updated information: Not reported
 Invoice initiated: 19921
 Invoice on going: Not reported
 Invoice completed: 19921
 Release confirmed: 19921
 Emergency contact: Not reported
 Enforcement action: Not reported
 Cost recovery: Not reported
 Cost recovery initiated: 19921
 Cost recovery initiated by: Responsible Party
 Cost recovery completed: 19922
 Cost recovery completed by: Responsible Party
 Application to trust fund: Not reported

4
SW
< 1/8
0.019 mi.
101 ft.

WICHITA STATE UNIVERSITY
4010 E. 17TH
WICHITA, KS 67260

FINDS 1007471402
SWF/LF N/A

Relative:
Lower

FINDS:

Registry ID: 110017468952

Actual:
1395 ft.

Environmental Interest/Information System

KS-FP (Kansas - Facility Profiler) is a geographically-based data warehouse site that presents information about facilities and locations of interest to the KDHE. This site has in excess of twenty environmental interest which contains information on closed facilities, completed cleanups, and past operations as well as data on current operations and activities.

SWF/LF:

Facility Status: Active
 Permit Number: Not reported
 Owner Type: State/Federal Landfill
 Owner Name: Wichita State University
 Facility Phone: 316-978-3444
 Permit Type: Composting
 Permit Code: R-registered
 Solid Waste Key: Not reported
 Permittee Name: Not reported
 BWM Permit Manager: Not reported
 Past Permit Types: Not reported
 BWM Hydrology Manager: Not reported
 BER Oversight: Not reported
 BER Project Manager: Not reported
 Special Facility/Waste Types: Not reported
 Industrial Waste Types: Not reported
 District: Not reported
 Hours of Operation: Not reported
 Comments: Not reported
 Directions: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

A5
SE
 < 1/8
 0.022 mi.
 116 ft.

WHITE CHAPEL MEMORIAL GARDENS
P.O. BOX 8074
WICHITA, KS 67208
 Site 3 of 3 in cluster A

UST **U000874061**
 N/A

Relative:
Lower

UST:
 Facility ID: 28469
 Facility 911 Address: 1806 N OLIVER
 Facility 911 City, State, Zip: WICHITA, KS 67208
 Facility Phone: Not reported
 Phone 24 Hours: Not reported
 Facility District: SC
 Facility Location Method: GARMIN 3 PLUS
 Facility Feature: Facility Center
 Facility Datum: WGS84
 Facility Lat/Long: 37.72296/-97.28024999999995
 Owner ID: 28469
 Owner: SERVICE CORP. INTERNATIONAL
 Owner Type: Not reported
 Owner/Rep Name: Not reported
 Owner/Rep Title: Not reported
 Owner Address: P.O. BOX 13548, 1929 ALLEN PKW
 Owner City, State, Zip: HOUSTON, TX 77219
 Owner County: Not reported
 Contact: Not reported
 Contact Title: Not reported

Actual:
1407 ft.

Tank ID: 001
 Tank Type: Underground
Tank Status: Permanently Out Of Use
 Total Capacity (Gals): 550
Hazards: Fire,Chronic,Acute
 Petroleum Substance: Gas (Incl Alcohol)
 NonPetroleum Substance: Not reported
 Estimated Yr In Service: 1986
 Date Removed: 12/15/1991
 Last Permit Printed: Not reported
 Current Permit Printed: Not reported
 QTY Remaining in Tank: 0
 Filled/Removed: Removed
 Tank Empty: Not reported
 Out of Service Mo/Yr: 121991
 Material of Construction: Steel
 Piping: Galv Steel
 Tank Internal Protection: Cat Prot,Int Lining
 Tank External Protection: Cat Prot,Painted

B6
ENE
 1/8-1/4
 0.152 mi.
 800 ft.

QUIKTRIP #342
5001 E 21ST ST N
WICHITA, KS 67208
 Site 1 of 3 in cluster B

RCRA NonGen / NLR **1004704594**
FINDS **KSD984986653**

Relative:
Lower

RCRA NonGen / NLR:
 Date form received by agency: 01/29/1996
 Facility name: QUIKTRIP STORE #342
 Facility address: 5001 E 21ST ST N
 WICHITA, KS 67208
 EPA ID: KSD984986653

Actual:
1405 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

QUIKTRIP #342 (Continued)

1004704594

Mailing address: CHESTERFIELD IND BLVD
CHESTERFIELD, MO 63005
Contact: DAVID CISIEWSKI
Contact address: 173 CHESTERFIELD IND BLVD
CHESTERFIELD, MO 63005
Contact country: US
Contact telephone: (314) 537-4048
Contact email: Not reported
EPA Region: 07
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: QUIKTRIP CORP
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:

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

Hazardous Waste Summary:

Waste code: D018
Waste name: BENZENE

Violation Status: No violations found

FINDS:

Registry ID: 110003188826

Environmental Interest/Information System

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Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

QUIKTRIP #342 (Continued)

1004704594

current operations and activities.

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

B7
ENE
1/8-1/4
0.152 mi.
800 ft.

QUIKTRIP #342
5001 E 21ST STREET
WICHITA, KS 67208
Site 2 of 3 in cluster B

LUST **U003083618**
UST **N/A**
Financial Assurance

Relative:
Lower

LUST:

Actual:
1405 ft.

Facility ID:	07276
Site Status:	Monitor
Release Date:	Not reported
Initial Report Date:	05/12/1994
Project Number:	U2-087-01384
Project Name:	Quik Trip #342
Legal Desc Section:	12
Legal Desc Township:	27S
Legal Desc Range:	01E
Initial Ranking:	54
Current Ranking:	54.00000
Facility Contact:	Dave Cisiewski
Facility Phone Number:	Not reported
Facility Owner Identification number:	07247
Facility Owner:	Quik Trip Corporation
Owner Contact Person:	Not reported
Owner Address:	901 N Mingo Rd, Po Box 3475
Owner City:	Tulsa
Owner State:	OK
Owner Zip Code:	74101
Owner Phone number:	918-836-8551
Contractor license number:	Not reported
Contractor phone number:	Not reported
Leak duration (if known):	Not reported
Quantity released (if known):	Not reported
Quantity recorded:	Not reported
Leak Type:	Not reported
Reported By:	Bryan S. Elledge
Reported by persons phone number:	314-434-8809
Reported by person address:	1862 Craigshire Drive, St Louis
Ground water Impacted (yes/no):	quaternary loess? is underlain by permian wellington formation. none of the formations in this area represent any potential aquifer of kansas.
Static groundwater level:	007
Groundwater flow direction:	SSW
District staff names:	Meer Husain
Assessment of release:	1-12,000, 1-10,000 & 1-6,000 gal steel, gasoline usts removed. contam assessment of 6-13-94 indicated gw contam. soil samples indicatdnon-detect levels of tph & c6h6 & btex ranging from nd to below knl.
Contamination assesement:	leakage most possibly due to overfill.

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

QUIKTRIP #342 (Continued)

U003083618

Extent of contamination impact: remedial investigation will be required to delineate the contaminants plumes. water sample from b-3 indicated c6h6 concentration of 3380 ppb & btex of 7970ppb

Updated information: Not reported

Invoice initiated: 19951

Invoice on going: Not reported

Invoice completed: 19951

Release confirmed: 19951

Emergency contact: Not reported

Enforcement action: 19951

Cost recovery: Not reported

Cost recovery initiated: 19973

Cost recovery initiated by: Responsible Party

Cost recovery completed: Not reported

Cost recovery completed by: Not reported

Application to trust fund: 19951

UST:

Facility ID: 07276

Facility 911 Address: 5001 E 21ST

Facility 911 City, State, Zip: WICHITA, KS 67208

Facility Phone: 316-262-2681

Phone 24 Hours: 316-262-2681

Facility District: SC

Facility Location Method: Garmin GPS III Plus

Facility Feature: Facility Center

Facility Datum: WGS84

Facility Lat/Long: 37.72336/-97.278589999999994

Owner ID: 07247

Owner: QUIKTRIP CORP %LAURA THOMPSON

Owner Type: Current

Owner/Rep Name: LAURA THOMPSON

Owner/Rep Title: CONTACT PERSON

Owner Address: 4705 SOUTH 129TH EAST AVE.

Owner City, State, Zip: TULSA, OK 74134-7008

Owner County: Not reported

Contact: Ron Lewis

Contact Title: Operations Manager

Tank ID: 001

Tank Type: Underground

Tank Status: Permanently Out Of Use

Total Capacity (Gals): 12000

Hazards: Fire,Chronic,Acute

Petroleum Substance: Gas (Incl Alcohol)

NonPetroleum Substance: Not reported

Estimated Yr In Service: 1983

Date Removed: 10/15/1994

Last Permit Printed: Not reported

Current Permit Printed: Not reported

QTY Remaining in Tank: 0

Filled/Removed: Removed

Tank Empty: Not reported

Out of Service Mo/Yr: 101994

Material of Construction: Steel

Piping: Other,COPPER

Tank Internal Protection: Int Lining

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

QUIKTRIP #342 (Continued)

U003083618

Tank External Protection: Painted

Tank ID: 002
Tank Type: Underground
Tank Status: Permanently Out Of Use
Total Capacity (Gals): 10000
Hazards: Fire,Chronic,Acute
Petroleum Substance: Gas (Incl Alcohol)
NonPetroleum Substance: Not reported
Estimated Yr In Service: 1973
Date Removed: 10/15/1994
Last Permit Printed: Not reported
Current Permit Printed: Not reported
QTY Remaining in Tank: 0
Filled/Removed: Removed
Tank Empty: Not reported
Out of Service Mo/Yr: 101994
Material of Construction: Steel
Piping: Other,COPPER
Tank Internal Protection: Int Lining
Tank External Protection: Painted

Tank ID: 003
Tank Type: Underground
Tank Status: Permanently Out Of Use
Total Capacity (Gals): 6000
Hazards: Fire,Chronic,Acute
Petroleum Substance: Gas (Incl Alcohol)
NonPetroleum Substance: Not reported
Estimated Yr In Service: 1973
Date Removed: 10/15/1994
Last Permit Printed: Not reported
Current Permit Printed: Not reported
QTY Remaining in Tank: 0
Filled/Removed: Removed
Tank Empty: Not reported
Out of Service Mo/Yr: 101994
Material of Construction: Steel
Piping: Other,COPPER
Tank Internal Protection: Int Lining
Tank External Protection: Painted

KS Financial Assurance:
Facility ID: 07276
Financial Responsibility: Self Insured

Facility ID: 07276
Financial Responsibility: Self Insured

Facility ID: 07276
Financial Responsibility: Self Insured

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

B8
ENE
1/8-1/4
0.158 mi.
834 ft.

KMART #7117
5010 E 21ST ST N
WICHITA, KS 67208
Site 3 of 3 in cluster B

LUST **U000717937**
UST **N/A**

Relative:
Lower

LUST:

Actual:
1404 ft.

<p>Facility ID: 26430 Site Status: Closed Release Date: Not reported Initial Report Date: 05/31/1990 Project Number: U2-087-00894 Project Name: Kmart #7117 Legal Desc Section: 01 Legal Desc Township: 27S Legal Desc Range: 01E Initial Ranking: Not reported Current Ranking: Not reported Facility Contact: Not reported Facility Phone Number: Not reported Facility Owner Identification number: 26418 Facility Owner: Kmart Corporation Owner Contact Person: Not reported Owner Address: 703 South Ind Blvd, Eules Owner City: Not reported Owner State: TX Owner Zip Code: 76040 Owner Phone number: 817-354-3776 Contractor license number: Not reported Contractor phone number: 317-849-4990 Leak duration (if known): Unkn Quantity released (if known): Not reported Quantity recorded: Not reported Leak Type: Tank Reported By: Tamra Rogue, K Mart Reported by persons phone number: 817-354-3776 Reported by person address: 703 S Ind Blvd, Eules, Tx Ground water Impacted (yes/no): Not reported Static groundwater level: Not reported Groundwater flow direction: Not reported District staff names: Stan Marcotte Assessment of release: 1-1000 gal waste oil ust removed. ~27 cu/yds contam soil removed-taken to landfill. soil samples from basin following overexcavation=contamination resolved. site closed</p>	<p>Contamination assesement: yes, removed the tank. Extent of contamination impact: none suspected. Updated information: Not reported Invoice initiated: 19903 Invoice on going: Not reported Invoice completetd: 19922 Release confirmed: 19903 Emergency contact: Not reported Enforcement action: Not reported Cost recovery: Not reported Cost recovery initiated: 19903 Cost recovery initiated by: Responsible Party Cost recovery completed: 19903 Cost recovery completed by: Responsible Party Application to trust fund: Not reported</p>
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Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KMART #7117 (Continued)

U000717937

UST:

Facility ID: 26430
Facility 911 Address: 5010 E 21ST N
Facility 911 City, State, Zip: WICHITA, KS 67208
Facility Phone: 316-683-8561
Phone 24 Hours: 316-683-8561
Facility District: SC
Facility Location Method: Garmin GPS III Plus
Facility Feature: Facility Center
Facility Datum: WGS84
Facility Lat/Long: 37.724089999999997/-97.278400000000005
Owner ID: 26418
Owner: K-MART CORPORATION
Owner Type: Private Or Corp.
Owner/Rep Name: J B Ronan
Owner/Rep Title: Assistant Contr
Owner Address: 3100 W BIG BEAVER
Owner City, State, Zip: TROY, MI 48084
Owner County: OAKLAND
Contact: H B Pugh
Contact Title: Manager

Tank ID: 001
Tank Type: Underground
Tank Status: Permanently Out Of Use
Total Capacity (Gals): 1000
Hazards: Fire,Chronic
Petroleum Substance: Used Oil
NonPetroleum Substance: Not reported
Estimated Yr In Service: 1977
Date Removed: 5/15/1990
Last Permit Printed: Not reported
Current Permit Printed: Not reported
QTY Remaining in Tank: 0
Filled/Removed: Removed
Tank Empty: Not reported
Out of Service Mo/Yr: 051990
Material of Construction: Steel
Piping: Galv Steel
Tank Internal Protection: None
Tank External Protection: Painted

C9
ENE
1/8-1/4
0.223 mi.
1179 ft.

5110 E 21ST ST N
WICHITA, KS 67208
Site 1 of 3 in cluster C

EDR US Hist Cleaners 1015070211
N/A

Relative:
Lower

EDR Historical Cleaners:
Name: POPS LAUNDROMAT
Year: 1999
Address: 5110 E 21ST ST N

Actual:
1404 ft.

Name: POPS LAUNDROMAT
Year: 2000
Address: 5110 E 21ST ST N

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

(Continued)

1015070211

Name: POPS LAUNDROMAT
 Year: 2001
 Address: 5110 E 21ST ST N

Name: POPS LAUNDROMAT
 Year: 2002
 Address: 5110 E 21ST ST N

Name: POPS LAUNDROMAT
 Year: 2003
 Address: 5110 E 21ST ST N

Name: POPS LAUNDROMAT
 Year: 2004
 Address: 5110 E 21ST ST N

Name: POPS LAUNDROMAT
 Year: 2005
 Address: 5110 E 21ST ST N

C10
ENE
1/8-1/4
0.229 mi.
1207 ft.

CEREBRAL PALSY RESEARCH FOUNDA
5111 E 21ST ST
WICHITA, KS 67208

Site 2 of 3 in cluster C

LUST **U000198766**
UST **N/A**
Financial Assurance

Relative:
Lower

LUST:

Actual:
1404 ft.

Facility ID: 28241
Site Status: Closed
 Release Date: Not reported
 Initial Report Date: 04/11/2003
 Project Number: U2-087-13405
 Project Name: Cerebral Palsy Research Foundation of Kansas
 Legal Desc Section: 12
 Legal Desc Township: 27S
 Legal Desc Range: 01E
 Initial Ranking: Not reported
 Current Ranking: Not reported
 Facility Contact: Ken Degenhard
 Facility Phone Number: 316-688-1888
 Facility Owner Identification number: 28241
 Facility Owner: CEREBRAL PALSY RESEARCH FOUNDTION OF KANSAS, INC.
 Owner Contact Person: Ken Degenhard
 Owner Address: 5111 E. 21ST STREET
 Owner City: WICHITA
 Owner State: KS
 Owner Zip Code: 67208
 Owner Phone number: 316-688-1888
 Contractor license number: Not reported
 Contractor phone number: Not reported
 Leak duration (if known): Not reported
 Quantity released (if known): Not reported
 Quantity recorded: Not reported
 Leak Type: Not reported
 Reported By: Not reported
 Reported by persons phone number: Not reported
 Reported by person address: Not reported
 Ground water Impacted (yes/no): Sandy and silty clays are underlain by shales.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CEREBRAL PALSY RESEARCH FOUNDA (Continued)

U000198766

Static groundwater level: Not reported
Groundwater flow direction: Not reported
District staff names: Meer Husain
Assessment of release: Not reported
Contamination assessment: Yes.
Extent of contamination impact: Not reported
Updated information: One 560 gallon, steel tank of 17 years of age removed. The tank was found in good condition. No contamination detected in soil sample from UST basin.

Invoice initiated: 20033
Invoice on going: Not reported
Invoice completed: 20033
Release confirmed: Not reported
Emergency contact: Not reported
Enforcement action: Not reported
Cost recovery: Not reported
Cost recovery initiated: Not reported
Cost recovery initiated by: Not reported
Cost recovery completed: Not reported
Cost recovery completed by: Not reported
Application to trust fund: Not reported

UST:

Facility ID: 28241
Facility 911 Address: 5111 E 21ST ST
Facility 911 City, State, Zip: WICHITA, KS 67208
Facility Phone: 316-688-1888
Phone 24 Hours: 316-688-1888
Facility District: SC
Facility Location Method: Garmin GPS III Plus
Facility Feature: Facility Center
Facility Datum: WGS84
Facility Lat/Long: 37.722749999999998/-97.278180000000006
Owner ID: 28241
Owner: CEREBRAL PALSY RESEARCH FOUNDT
Owner Type: Current,Private Or Corp.
Owner/Rep Name: R.J. PUTMAN
Owner/Rep Title: SR. V.P., CFO
Owner Address: 5111 E. 21ST STREET
Owner City, State, Zip: WICHITA, KS 67208
Owner County: SEDGWICK
Contact: KEN DEGENHARDT
Contact Title: FACILITIES MGR

Tank ID: 001
Tank Type: Underground
Tank Status: Permanently Out Of Use
Total Capacity (Gals): 560
Hazards: Not reported
Petroleum Substance: Diesel
NonPetroleum Substance: Not reported
Estimated Yr In Service: 1986
Date Removed: 4/11/2003
Last Permit Printed: Not reported
Current Permit Printed: Not reported
QTY Remaining in Tank: Not reported
Filled/Removed: Removed

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CEREBRAL PALSY RESEARCH FOUNDA (Continued)

U000198766

Tank Empty: Not reported
Out of Service Mo/Yr: 04/11/
Material of Construction: Steel
Piping: Bare Steel
Tank Internal Protection: Unknown
Tank External Protection: Painted

KS Financial Assurance:
Facility ID: 28241
Financial Responsibility: State Trust Fund,3rd Party Liability Insurance

C11
ENE
1/8-1/4
0.229 mi.
1207 ft.

CEREBAL PALSY RESEARCH FOUNDATION OF KS
5111 E 21ST ST N
WICHITA, KS 67208
Site 3 of 3 in cluster C

RCRA NonGen / NLR **1004705673**
KSR000015487

Relative:
Lower

RCRA NonGen / NLR:
Date form received by agency:07/15/2004
Facility name: CEREBAL PALSY RESEARCH FOUNDATION OF KS
Facility address: 5111 E 21ST ST N
WICHITA, KS 67208
EPA ID: KSR000015487
Mailing address: E 21ST ST N
WICHITA, KS 67208
Contact: ROBERT GRAHAM
Contact address: 5111 E 21ST ST N
WICHITA, KS 67208
Contact country: US
Contact telephone: (316) 630-0440
Contact email: Not reported
EPA Region: 07
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Actual:
1404 ft.

Owner/Operator Summary:
Owner/operator name: KENRA BLACK
Owner/operator address: 5111 E 21ST ST N
WICHITA, KS 67208
Owner/operator country: Not reported
Owner/operator telephone: (316) 630-0440
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

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

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

CEREBAL PALSY RESEARCH FOUNDATION OF KS (Continued)

1004705673

Used oil processor: No
 User oil refiner: No
 Used oil fuel marketer to burner: No
 Used oil Specification marketer: No
 Used oil transfer facility: No
 Used oil transporter: No

Historical Generators:

Date form received by agency: 07/19/2000
 Site name: IMAGING SOLUTIONS CO
 Classification: Small Quantity Generator

Hazardous Waste Summary:

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

Waste code: D011
 Waste name: SILVER

Violation Status: No violations found

12
 WNW
 1/4-1/2
 0.301 mi.
 1588 ft.

QUIRING MORUARY
3425 E 21ST
WICHITA, KS 67208

LUST S101833603
N/A

Relative:
 Lower

LUST:

Facility ID: 07722
Site Status: Closed
 Release Date: Not reported
 Initial Report Date: 12/17/1991
 Project Number: U2-087-00830
 Project Name: Quiring Mortuary
 Legal Desc Section: 02
 Legal Desc Township: 27S
 Legal Desc Range: 01E
 Initial Ranking: Not reported
 Current Ranking: Not reported
 Facility Contact: Ray Mcmannis
 Facility Phone Number: Not reported
 Facility Owner Identification number: 28469
 Facility Owner: Old Mission Wichita Park Cemet
 Owner Contact Person: Not reported
 Owner Address: 3425 E 21st St, Wichita
 Owner City: Not reported
 Owner State: KS
 Owner Zip Code: Not reported
 Owner Phone number: Not reported
 Contractor license number: Not reported
 Contractor phone number: 316-942-4268
 Leak duration (if known): Not reported

Actual:
 1378 ft.

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

QUIRING MORUARY (Continued)

S101833603

Quantity released (if known):	Not reported
Quantity recorded:	Not reported
Leak Type:	Not reported
Reported By:	Meer T Husain
Reported by persons phone number:	Not reported
Reported by person address:	Scdo
Ground water Impacted (yes/no):	alluvium and terrace deposits of wisconsin and holocene age which overlies wellington formation. generalized groundwater in area is from 12-15'. gw flow = southwest.
Static groundwater level:	Not reported
Groundwater flow direction:	Not reported
District staff names:	Meer Husain
Assessment of release:	1-550 gal gas ust & lines removed. no sign of corrosion/damage seen.drager analysis of soil/sand @1&7' tested <50 ppm tph. noo further action/remedial action will be required at this site. closed.
Contamination assesment:	yes.
Extent of contamination impact:	no contamination was suspected.
Updated information:	Not reported
Invoice initiated:	19921
Invoice on going:	Not reported
Invoice completetd:	19921
Release confirmed:	Not reported
Emergency contact:	Not reported
Enforcement action:	Not reported
Cost recovery:	Not reported
Cost recovery initiated:	Not reported
Cost recovery initiated by:	Not reported
Cost recovery completed:	Not reported
Cost recovery completed by:	Not reported
Application to trust fund:	Not reported

D13
WSW
 1/4-1/2
 0.384 mi.
 2025 ft.

WICHITA STATE UNIVERSITY, HASKET
1845 FAIRMONT
WICHITA, KS 67208
 Site 1 of 2 in cluster D

LUST S101833244
N/A

Relative:
Lower

LUST:

Facility ID:	24212
Site Status:	Closed
Release Date:	Not reported
Initial Report Date:	11/12/1999
Project Number:	U2-087-12794
Project Name:	Wichita State University, Haskett Center
Legal Desc Section:	11
Legal Desc Township:	27S
Legal Desc Range:	01E
Initial Ranking:	Not reported
Current Ranking:	Not reported
Facility Contact:	Randy Pulec
Facility Phone Number:	316-928-3444
Facility Owner Identification number:	Not reported
Facility Owner:	Wichita State University
Owner Contact Person:	Not reported
Owner Address:	Not reported
Owner City:	Not reported
Owner State:	Not reported
Owner Zip Code:	Not reported

Actual:
1393 ft.

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

WICHITA STATE UNIVERSITY, HASKET (Continued)

S101833244

Owner Phone number:	Not reported
Contractor license number:	Not reported
Contractor phone number:	Not reported
Leak duration (if known):	Not reported
Quantity released (if known):	Not reported
Quantity recorded:	Not reported
Leak Type:	Not reported
Reported By:	Not reported
Reported by persons phone number:	Not reported
Reported by person address:	Not reported
Ground water Impacted (yes/no):	silty clay, weathered wellington shale.
Static groundwater level:	Not reported
Groundwater flow direction:	Not reported
District staff names:	Stan Marcotte
Assessment of release:	1250 gal diesel ust removed. fuel leaked through corrosionhole. overexcav to 11ft, no odors/stain. nd for tph. soil will be spread for treatment on site. closed.
Contamination assesement:	Not reported
Extent of contamination impact:	Not reported
Updated information:	Not reported
Invoice initiated:	20001
Invoice on going:	Not reported
Invoice completetd:	20001
Release confirmed:	20001
Emergency contact:	Not reported
Enforcement action:	Not reported
Cost recovery:	Not reported
Cost recovery initiated:	20001
Cost recovery initiated by:	Responsible Party
Cost recovery completed:	20001
Cost recovery completed by:	Responsible Party
Application to trust fund:	Not reported

D14
WSW
 1/4-1/2
 0.403 mi.
 2130 ft.

WICHITA STATE UNIVERSITY (WSU)
1845 FAIRMOUNT
WICHITA, KS 67208
Site 2 of 2 in cluster D

LUST **U003542238**
UST **N/A**
AST

Financial Assurance

Relative:
Lower

LUST:
 Facility ID: 24212
Site Status: Closed
 Release Date: Not reported
 Initial Report Date: 11/15/1989
 Project Number: U2-087-00624
 Project Name: Wsu, Wind Tunnel
 Legal Desc Section: Not reported
 Legal Desc Township: Not reported
 Legal Desc Range: Not reported
 Initial Ranking: Not reported
 Current Ranking: Not reported
 Facility Contact: Randy Pulec
 Facility Phone Number: 316-689-3444
 Facility Owner Identification number: 24212
 Facility Owner: Wsu
 Owner Contact Person: Not reported
 Owner Address: 1845 Fairmount
 Owner City: Wichita

Actual:
1392 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WICHITA STATE UNIVERSITY (WSU) (Continued)

U003542238

Owner State: KS
Owner Zip Code: Not reported
Owner Phone number: 316-689-3444
Contractor license number: Not reported
Contractor phone number: Not reported
Leak duration (if known): 0
Quantity released (if known): Not reported
Quantity recorded: Not reported
Leak Type: Not reported
Reported By: Not reported
Reported by persons phone number: Not reported
Reported by person address: Not reported
Ground water Impacted (yes/no): Not reported
Static groundwater level: Not reported
Groundwater flow direction: Not reported
District staff names: Kyle Parker
Assessment of release: removed contaminated soil to 60 ppm tph in shale.
Contamination assessment: tank removed.
Extent of contamination impact: none.
Updated information: Not reported
Invoice initiated: 19901
Invoice on going: Not reported
Invoice completed: 19901
Release confirmed: Not reported
Emergency contact: Not reported
Enforcement action: Not reported
Cost recovery: Not reported
Cost recovery initiated: Not reported
Cost recovery initiated by: Not reported
Cost recovery completed: Not reported
Cost recovery completed by: Not reported
Application to trust fund: Not reported

Facility ID: 24212
Site Status: Closed
Release Date: Not reported
Initial Report Date: 11/15/1989
Project Number: U2-087-00625
Project Name: Wsu, Grace Wilkie Hall
Legal Desc Section: Not reported
Legal Desc Township: Not reported
Legal Desc Range: Not reported
Initial Ranking: Not reported
Current Ranking: Not reported
Facility Contact: Randy Pulec
Facility Phone Number: 316-689-3444
Facility Owner Identification number: 24212
Facility Owner: Wsu
Owner Contact Person: Not reported
Owner Address: 1845 Fairmont
Owner City: Wichita
Owner State: KS
Owner Zip Code: Not reported
Owner Phone number: 316-689-3444
Contractor license number: Not reported
Contractor phone number: Not reported
Leak duration (if known): 0

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WICHITA STATE UNIVERSITY (WSU) (Continued)

U003542238

Quantity released (if known):	Not reported
Quantity recorded:	Not reported
Leak Type:	Not reported
Reported By:	Not reported
Reported by persons phone number:	Not reported
Reported by person address:	Not reported
Ground water Impacted (yes/no):	Not reported
Static groundwater level:	Not reported
Groundwater flow direction:	Not reported
District staff names:	Kyle Parker
Assessment of release:	small amount of lightly contaminated soil removed to county landfill.
Contamination assesement:	tank removed.
Extent of contamination impact:	none .
Updated information:	Not reported
Invoice initiated:	Not reported
Invoice on going:	Not reported
Invoice completetd:	Not reported
Release confirmed:	Not reported
Emergency contact:	Not reported
Enforcement action:	Not reported
Cost recovery:	Not reported
Cost recovery initiated:	Not reported
Cost recovery initiated by:	Not reported
Cost recovery completed:	Not reported
Cost recovery completed by:	Not reported
Application to trust fund:	Not reported
Facility ID:	24212
Site Status:	Closed
Release Date:	Not reported
Initial Report Date:	11/15/1989
Project Number:	U2-087-00576
Project Name:	Wsu, Henry Le
Legal Desc Section:	Not reported
Legal Desc Township:	Not reported
Legal Desc Range:	Not reported
Initial Ranking:	Not reported
Current Ranking:	Not reported
Facility Contact:	Randy Pulec
Facility Phone Number:	316-689-3444
Facility Owner Identification number:	24212
Facility Owner:	Not reported
Owner Contact Person:	Not reported
Owner Address:	Not reported
Owner City:	Not reported
Owner State:	Not reported
Owner Zip Code:	Not reported
Owner Phone number:	Not reported
Contractor license number:	Not reported
Contractor phone number:	Not reported
Leak duration (if known):	Not reported
Quantity released (if known):	Not reported
Quantity recorded:	Not reported
Leak Type:	Not reported
Reported By:	Not reported
Reported by persons phone number:	Not reported
Reported by person address:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WICHITA STATE UNIVERSITY (WSU) (Continued)

U003542238

Ground water Impacted (yes/no):	Not reported
Static groundwater level:	Not reported
Groundwater flow direction:	Not reported
District staff names:	Not reported
Assessment of release:	lightly contaminated sand backfill removed from excavation of 5000 gallon tank. resolved.
Contamination assessment:	Not reported
Extent of contamination impact:	Not reported
Updated information:	Not reported
Invoice initiated:	19901
Invoice on going:	Not reported
Invoice completed:	19901
Release confirmed:	19901
Emergency contact:	Not reported
Enforcement action:	Not reported
Cost recovery:	Not reported
Cost recovery initiated:	19901
Cost recovery initiated by:	Responsible Party
Cost recovery completed:	19901
Cost recovery completed by:	Responsible Party
Application to trust fund:	Not reported
Facility ID:	24212
Site Status:	Closed
Release Date:	Not reported
Initial Report Date:	11/15/1989
Project Number:	U2-087-00575
Project Name:	Wsu, Brennan
Legal Desc Section:	Not reported
Legal Desc Township:	Not reported
Legal Desc Range:	Not reported
Initial Ranking:	Not reported
Current Ranking:	Not reported
Facility Contact:	Randy Pulec
Facility Phone Number:	316-689-3444
Facility Owner Identification number:	24212
Facility Owner:	Not reported
Owner Contact Person:	Not reported
Owner Address:	Not reported
Owner City:	Not reported
Owner State:	Not reported
Owner Zip Code:	Not reported
Owner Phone number:	Not reported
Contractor license number:	Not reported
Contractor phone number:	Not reported
Leak duration (if known):	Not reported
Quantity released (if known):	Not reported
Quantity recorded:	Not reported
Leak Type:	Not reported
Reported By:	Not reported
Reported by persons phone number:	Not reported
Reported by person address:	Not reported
Ground water Impacted (yes/no):	Not reported
Static groundwater level:	Not reported
Groundwater flow direction:	Not reported
District staff names:	Not reported
Assessment of release:	removed 1-2000 gallon diesel/fuel oil tank. sand backfill and small

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WICHITA STATE UNIVERSITY (WSU) (Continued)

U003542238

amount of over excavated soil removed to county landfill. resolved.

Contamination assesment: Not reported
Extent of contamination impact: Not reported
Updated information: Not reported
Invoice initiated: Not reported
Invoice on going: Not reported
Invoice completetd: Not reported
Release confirmed: Not reported
Emergency contact: Not reported
Enforcement action: Not reported
Cost recovery: Not reported
Cost recovery initiated: Not reported
Cost recovery initiated by: Not reported
Cost recovery completed: Not reported
Cost recovery completed by: Not reported
Application to trust fund: Not reported

Facility ID: 24212
Site Status: Closed
Release Date: Not reported
Initial Report Date: 11/15/1989
Project Number: U2-087-00579
Project Name: Wsu, Old Physical
Legal Desc Section: Not reported
Legal Desc Township: Not reported
Legal Desc Range: Not reported
Initial Ranking: Not reported
Current Ranking: Not reported
Facility Contact: Randy Pulec
Facility Phone Number: 316-689-3444
Facility Owner Identification number: 24212
Facility Owner: Not reported
Owner Contact Person: Not reported
Owner Address: Not reported
Owner City: Not reported
Owner State: Not reported
Owner Zip Code: Not reported
Owner Phone number: Not reported
Contractor license number: Not reported
Contractor phone number: Not reported
Leak duration (if known): Not reported
Quantity released (if known): Not reported
Quantity recorded: Not reported
Leak Type: Not reported
Reported By: Not reported
Reported by persons phone number: Not reported
Reported by person address: Not reported
Ground water Impacted (yes/no): Not reported
Static groundwater level: Not reported
Groundwater flow direction: Not reported
District staff names: Not reported
Assessment of release: 2-2000 gallon gasoline tanks. soil excavated to below accepted levels. contaminated soil to be landfilled.

Contamination assesment: Not reported
Extent of contamination impact: Not reported
Updated information: Not reported
Invoice initiated: 19901

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WICHITA STATE UNIVERSITY (WSU) (Continued)

U003542238

Invoice on going:	Not reported
Invoice completetd:	19901
Release confirmed:	19901
Emergency contact:	Not reported
Enforcement action:	Not reported
Cost recovery:	Not reported
Cost recovery initiated:	19901
Cost recovery initiated by:	Responsible Party
Cost recovery completed:	19901
Cost recovery completed by:	Responsible Party
Application to trust fund:	Not reported
Facility ID:	24212
Site Status:	Closed
Release Date:	Not reported
Initial Report Date:	10/27/1997
Project Number:	U2-087-11734
Project Name:	Wsu, Central Power Plant
Legal Desc Section:	Not reported
Legal Desc Township:	Not reported
Legal Desc Range:	Not reported
Initial Ranking:	Not reported
Current Ranking:	Not reported
Facility Contact:	Randy Pulec
Facility Phone Number:	316-978-3444
Facility Owner Identification number:	Not reported
Facility Owner:	Not reported
Owner Contact Person:	Not reported
Owner Address:	Not reported
Owner City:	Not reported
Owner State:	Not reported
Owner Zip Code:	Not reported
Owner Phone number:	Not reported
Contractor license number:	Not reported
Contractor phone number:	Not reported
Leak duration (if known):	Not reported
Quantity released (if known):	Not reported
Quantity recorded:	Not reported
Leak Type:	Not reported
Reported By:	Not reported
Reported by persons phone number:	Not reported
Reported by person address:	Not reported
Ground water Impacted (yes/no):	weathered wellington shale
Static groundwater level:	Not reported
Groundwater flow direction:	Not reported
District staff names:	Kyle Parker
Assessment of release:	4-25,000 gal diesel usts removed. ~40yds of contaminated sand backfill excavated to be landfarmed on site. samples nd for tph or btex.
Contaimination assesement:	Not reported
Extent of contamination impact:	Not reported
Updated information:	Not reported
Invoice initiated:	19981
Invoice on going:	Not reported
Invoice completetd:	19981
Release confirmed:	19981
Emergency contact:	Not reported
Enforcement action:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WICHITA STATE UNIVERSITY (WSU) (Continued)

U003542238

Cost recovery:	Not reported
Cost recovery initiated:	19981
Cost recovery initiated by:	Responsible Party
Cost recovery completed:	19981
Cost recovery completed by:	Responsible Party
Application to trust fund:	Not reported
Facility ID:	24212
Site Status:	Closed
Release Date:	Not reported
Initial Report Date:	11/15/1989
Project Number:	U2-087-00169
Project Name:	Wsu, Cac
Legal Desc Section:	Not reported
Legal Desc Township:	Not reported
Legal Desc Range:	Not reported
Initial Ranking:	Not reported
Current Ranking:	Not reported
Facility Contact:	Randy Pulec
Facility Phone Number:	316-689-3444
Facility Owner Identification number:	24212
Facility Owner:	Wsu
Owner Contact Person:	Not reported
Owner Address:	1845 Fairmount
Owner City:	Wichita
Owner State:	KS
Owner Zip Code:	Not reported
Owner Phone number:	316-689-3444
Contractor license number:	Not reported
Contractor phone number:	Not reported
Leak duration (if known):	0
Quantity released (if known):	Not reported
Quantity recorded:	Not reported
Leak Type:	Not reported
Reported By:	Not reported
Reported by persons phone number:	Not reported
Reported by person address:	Not reported
Ground water Impacted (yes/no):	Not reported
Static groundwater level:	Not reported
Groundwater flow direction:	Not reported
District staff names:	Kyle Parker
Assessment of release:	no leakage.
Contamination assesement:	tanks removed.
Extent of contamination impact:	none.
Updated information:	Not reported
Invoice initiated:	19901
Invoice on going:	Not reported
Invoice completetd:	19901
Release confirmed:	Not reported
Emergency contact:	Not reported
Enforcement action:	Not reported
Cost recovery:	Not reported
Cost recovery initiated:	Not reported
Cost recovery initiated by:	Not reported
Cost recovery completed:	Not reported
Cost recovery completed by:	Not reported
Application to trust fund:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WICHITA STATE UNIVERSITY (WSU) (Continued)

U003542238

Facility ID: 24212
Site Status: **Closed**
Release Date: Not reported
Initial Report Date: 11/15/1989
Project Number: U2-087-00173
Project Name: Wsu, Dfac
Legal Desc Section: Not reported
Legal Desc Township: Not reported
Legal Desc Range: Not reported
Initial Ranking: Not reported
Current Ranking: Not reported
Facility Contact: Randy Pulec
Facility Phone Number: 316-689-3444
Facility Owner Identification number: 24212
Facility Owner: Wsu
Owner Contact Person: Not reported
Owner Address: 1845 Fairmount
Owner City: Wichita
Owner State: KS
Owner Zip Code: Not reported
Owner Phone number: 316-689-3444
Contractor license number: Not reported
Contractor phone number: Not reported
Leak duration (if known): 0
Quantity released (if known): Not reported
Quantity recorded: Not reported
Leak Type: Not reported
Reported By: Not reported
Reported by persons phone number: Not reported
Reported by person address: Not reported
Ground water Impacted (yes/no): Not reported
Static groundwater level: Not reported
Groundwater flow direction: Not reported
District staff names: Kyle Parker
Assessment of release: no leakage.
Contamination assesement: tank removed.
Extent of contamination impact: none.
Updated information: Not reported
Invoice initiated: 19901
Invoice on going: Not reported
Invoice completetd: 19901
Release confirmed: Not reported
Emergency contact: Not reported
Enforcement action: Not reported
Cost recovery: Not reported
Cost recovery initiated: Not reported
Cost recovery initiated by: Not reported
Cost recovery completed: Not reported
Cost recovery completed by: Not reported
Application to trust fund: Not reported

Facility ID: 24212
Site Status: **Closed**
Release Date: Not reported
Initial Report Date: 11/15/1989
Project Number: U2-087-00172
Project Name: Wsu, Anlberg

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WICHITA STATE UNIVERSITY (WSU) (Continued)

U003542238

Legal Desc Section:	Not reported
Legal Desc Township:	Not reported
Legal Desc Range:	Not reported
Initial Ranking:	Not reported
Current Ranking:	Not reported
Facility Contact:	Randy Pulec
Facility Phone Number:	316-689-3444
Facility Owner Identification number:	24212
Facility Owner:	Wsu
Owner Contact Person:	Not reported
Owner Address:	1845 N. Fairmont, Wichita
Owner City:	Not reported
Owner State:	KS
Owner Zip Code:	Not reported
Owner Phone number:	316-689-3444
Contractor license number:	Not reported
Contractor phone number:	Not reported
Leak duration (if known):	0
Quantity released (if known):	Not reported
Quantity recorded:	Not reported
Leak Type:	Not reported
Reported By:	Not reported
Reported by persons phone number:	Not reported
Reported by person address:	Not reported
Ground water Impacted (yes/no):	Not reported
Static groundwater level:	Not reported
Groundwater flow direction:	Not reported
District staff names:	Kyle Parker
Assessment of release:	some contaminated backfill encountered in both excavations. removed to county lankfill .
Contamination assesement:	tank removed.
Extent of contamination impact:	none
Updated information:	Not reported
Invoice initiated:	19901
Invoice on going:	Not reported
Invoice completetd:	19901
Release confirmed:	Not reported
Emergency contact:	Not reported
Enforcement action:	Not reported
Cost recovery:	Not reported
Cost recovery initiated:	Not reported
Cost recovery initiated by:	Not reported
Cost recovery completed:	Not reported
Cost recovery completed by:	Not reported
Application to trust fund:	Not reported
Facility ID:	24212
Site Status:	Closed
Release Date:	Not reported
Initial Report Date:	11/15/1989
Project Number:	U2-087-00170
Project Name:	Wsu, Fairmount Towers
Legal Desc Section:	Not reported
Legal Desc Township:	Not reported
Legal Desc Range:	Not reported
Initial Ranking:	Not reported
Current Ranking:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WICHITA STATE UNIVERSITY (WSU) (Continued)

U003542238

Facility Contact: Randy Pulec
Facility Phone Number: 316-689-3444
Facility Owner Identification number: 24212
Facility Owner: Wsu
Owner Contact Person: Not reported
Owner Address: 1845 Fairmount
Owner City: Wichita
Owner State: KS
Owner Zip Code: Not reported
Owner Phone number: 316-689-3444
Contractor license number: Not reported
Contractor phone number: Not reported
Leak duration (if known): 0
Quantity released (if known): Not reported
Quantity recorded: Not reported
Leak Type: Not reported
Reported By: Not reported
Reported by persons phone number: Not reported
Reported by person address: Not reported
Ground water Impacted (yes/no): Not reported
Static groundwater level: Not reported
Groundwater flow direction: Not reported
District staff names: Kyle Parker
Assessment of release: all tanks had been used by wsu to store fuel oil/diesel. tanks held gas in the past. soil contaminated with gasoline & fuel oil. contaminated soil overexcavated sent to landfill

Contamination assesement: tanks removed.
Extent of contamination impact: none .
Updated information: Not reported
Invoice initiated: 19901
Invoice on going: Not reported
Invoice completetd: 19901
Release confirmed: Not reported
Emergency contact: Not reported
Enforcement action: Not reported
Cost recovery: Not reported
Cost recovery initiated: Not reported
Cost recovery initiated by: Not reported
Cost recovery completed: Not reported
Cost recovery completed by: Not reported
Application to trust fund: Not reported

UST:

Facility ID: 28563
Facility 911 Address: 1845 FAIRMOUNT
Facility 911 City, State, Zip: WICHITA, KS 67260-0023
Facility Phone: 316-978-3447
Phone 24 Hours: 316-978-3447
Facility District: SC
Facility Location Method: GARMIN 3 PLUS
Facility Feature: Facility Center
Facility Datum: WGS84
Facility Lat/Long: 37.71678/-97.29000999999995
Owner ID: 24212
Owner: WSU
Owner Type: Current
Owner/Rep Name: WSU/WOODROW DEPONTIER

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

EDR ID Number
EPA ID Number
Database(s)

WICHITA STATE UNIVERSITY (WSU) (Continued)

U003542238

Owner/Rep Title: Not reported
Owner Address: 1845 FAIRMOUNT, BOX 23
Owner City, State, Zip: WICHITA, KS 67260-0023
Owner County: SEDGWICK
Contact: WOODROW DEPONTIER
Contact Title: CONTACT PERSON

Tank ID: 001
Tank Type: Underground
Tank Status: Current In Use
Total Capacity (Gals): 2000
Hazards: Fire,Chronic,Acute
Petroleum Substance: Biodiesel B02 Soy
NonPetroleum Substance: Not reported
Estimated Yr In Service: 1988
Date Removed: Not reported
Last Permit Printed: 2013-06-18 00:00:00
Current Permit Printed: 2014-06-11 00:00:00
QTY Remaining in Tank: Not reported
Filled/Removed: Not reported
Tank Empty: Not reported
Out of Service Mo/Yr: Not reported
Material of Construction: Fbr Ref Plastic
Piping: Fbr Ref Plstc
Tank Internal Protection: None
Tank External Protection: Cat Prot,Fbr Ref Plstc Coat

Tank ID: 001
Tank Type: Underground
Tank Status: Permanently Out Of Use
Total Capacity (Gals): 2000
Hazards: Not reported
Petroleum Substance: Diesel
NonPetroleum Substance: Not reported
Estimated Yr In Service: 1973
Date Removed: 3/15/1989
Last Permit Printed: Not reported
Current Permit Printed: Not reported
QTY Remaining in Tank: 0
Filled/Removed: Removed
Tank Empty: Not reported
Out of Service Mo/Yr: 031989
Material of Construction: Steel
Piping: Cat Prot,Other,ASPHALTIC COATED
Tank Internal Protection: None
Tank External Protection: Cat Prot,Painted

Tank ID: 002
Tank Type: Underground
Tank Status: Current In Use
Total Capacity (Gals): 2000
Hazards: Fire,Chronic,Acute
Petroleum Substance: Gas Unleaded Regular
NonPetroleum Substance: Not reported
Estimated Yr In Service: 1988

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WICHITA STATE UNIVERSITY (WSU) (Continued)

U003542238

Date Removed: Not reported
Last Permit Printed: 2013-06-18 00:00:00
Current Permit Printed: 2014-06-11 00:00:00
QTY Remaining in Tank: Not reported
Filled/Removed: Not reported
Tank Empty: Not reported
Out of Service Mo/Yr: Not reported
Material of Construction: Fbr Ref Plastic
Piping: Fbr Ref Plstc
Tank Internal Protection: None
Tank External Protection: Cat Prot,Fbr Ref Plstc Coat

Tank ID: 002
Tank Type: Underground
Tank Status: Permanently Out Of Use
Total Capacity (Gals): 4000
Hazards: Not reported
Petroleum Substance: Diesel
NonPetroleum Substance: Not reported
Estimated Yr In Service: 1974
Date Removed: 6/15/1989
Last Permit Printed: Not reported
Current Permit Printed: Not reported
QTY Remaining in Tank: Not reported
Filled/Removed: Removed
Tank Empty: Not reported
Out of Service Mo/Yr: 061989
Material of Construction: Steel
Piping: Cat Prot,Other,ASPHALTIC COATED
Tank Internal Protection: None
Tank External Protection: Cat Prot,Painted

Tank ID: 003
Tank Type: Underground
Tank Status: Permanently Out Of Use
Total Capacity (Gals): 2000
Hazards: Not reported
Petroleum Substance: Diesel
NonPetroleum Substance: Not reported
Estimated Yr In Service: 1962
Date Removed: 2/15/1989
Last Permit Printed: Not reported
Current Permit Printed: Not reported
QTY Remaining in Tank: Not reported
Filled/Removed: Removed
Tank Empty: Not reported
Out of Service Mo/Yr: 021989
Material of Construction: Steel
Piping: Unknown
Tank Internal Protection: None
Tank External Protection: Painted

Tank ID: 004
Tank Type: Underground

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WICHITA STATE UNIVERSITY (WSU) (Continued)

U003542238

Tank Status: Permanently Out Of Use
Total Capacity (Gals): 258
Hazards: Not reported
Petroleum Substance: Diesel
NonPetroleum Substance: Not reported
Estimated Yr In Service: 1984
Date Removed: 11/3/1999
Last Permit Printed: 1998-07-15 00:00:00
Current Permit Printed: Not reported
QTY Remaining in Tank: 0
Filled/Removed: Removed
Tank Empty: Not reported
Out of Service Mo/Yr: 111999
Material of Construction: Steel
Piping: Cat Prot
Tank Internal Protection: None
Tank External Protection: Cat Prot,Painted

Tank ID: 005
Tank Type: Underground
Tank Status: Permanently Out Of Use
Total Capacity (Gals): 5000
Hazards: Not reported
Petroleum Substance: Diesel
NonPetroleum Substance: Not reported
Estimated Yr In Service: 1956
Date Removed: 4/15/1989
Last Permit Printed: Not reported
Current Permit Printed: Not reported
QTY Remaining in Tank: Not reported
Filled/Removed: Removed
Tank Empty: Not reported
Out of Service Mo/Yr: 041989
Material of Construction: Steel
Piping: Unknown
Tank Internal Protection: None
Tank External Protection: Painted

Tank ID: 006
Tank Type: Underground
Tank Status: Permanently Out Of Use
Total Capacity (Gals): 2000
Hazards: Not reported
Petroleum Substance: Diesel
NonPetroleum Substance: Not reported
Estimated Yr In Service: 1979
Date Removed: 2/15/1989
Last Permit Printed: Not reported
Current Permit Printed: Not reported
QTY Remaining in Tank: Not reported
Filled/Removed: Removed
Tank Empty: Not reported
Out of Service Mo/Yr: 021989
Material of Construction: Steel
Piping: Cat Prot,Other,ASPHALTIC COATED

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WICHITA STATE UNIVERSITY (WSU) (Continued)

U003542238

Tank Internal Protection: None
Tank External Protection: Cat Prot,Painted

Tank ID: 007
Tank Type: Underground
Tank Status: Permanently Out Of Use
Total Capacity (Gals): 4000
Hazards: Not reported
Petroleum Substance: Diesel
NonPetroleum Substance: Not reported
Estimated Yr In Service: 1900
Date Removed: 10/15/1989
Last Permit Printed: Not reported
Current Permit Printed: Not reported
QTY Remaining in Tank: Not reported
Filled/Removed: Removed
Tank Empty: Not reported
Out of Service Mo/Yr: 101989
Material of Construction: Steel
Piping: Other,NO-PIPING
Tank Internal Protection: None
Tank External Protection: Painted

Tank ID: 008
Tank Type: Underground
Tank Status: Permanently Out Of Use
Total Capacity (Gals): 5000
Hazards: Not reported
Petroleum Substance: Diesel
NonPetroleum Substance: Not reported
Estimated Yr In Service: 1961
Date Removed: 3/15/1989
Last Permit Printed: Not reported
Current Permit Printed: Not reported
QTY Remaining in Tank: Not reported
Filled/Removed: Removed
Tank Empty: Not reported
Out of Service Mo/Yr: 031989
Material of Construction: Steel
Piping: Other,NO-PIPING
Tank Internal Protection: None
Tank External Protection: Painted

Tank ID: 009
Tank Type: Underground
Tank Status: Permanently Out Of Use
Total Capacity (Gals): 23470
Hazards: Not reported
Petroleum Substance: Diesel
NonPetroleum Substance: Not reported
Estimated Yr In Service: 1971
Date Removed: 7/15/1995
Last Permit Printed: 1995-07-18 00:00:00
Current Permit Printed: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WICHITA STATE UNIVERSITY (WSU) (Continued)

U003542238

QTY Remaining in Tank: 0
Filled/Removed: Removed
Tank Empty: Not reported
Out of Service Mo/Yr: 071995
Material of Construction: Steel
Piping: Cat Prot
Tank Internal Protection: None
Tank External Protection: Cat Prot,Painted

Tank ID: 010
Tank Type: Underground
Tank Status: Permanently Out Of Use
Total Capacity (Gals): 23470
Hazards: Not reported
Petroleum Substance: Diesel
NonPetroleum Substance: Not reported
Estimated Yr In Service: 1971
Date Removed: 7/15/1995
Last Permit Printed: 1995-07-18 00:00:00
Current Permit Printed: Not reported
QTY Remaining in Tank: 0
Filled/Removed: Removed
Tank Empty: Not reported
Out of Service Mo/Yr: 071995
Material of Construction: Steel
Piping: Cat Prot
Tank Internal Protection: None
Tank External Protection: Cat Prot,Painted

Tank ID: 011
Tank Type: Underground
Tank Status: Permanently Out Of Use
Total Capacity (Gals): 23470
Hazards: Not reported
Petroleum Substance: Diesel
NonPetroleum Substance: Not reported
Estimated Yr In Service: 1971
Date Removed: 7/15/1995
Last Permit Printed: 1995-07-18 00:00:00
Current Permit Printed: Not reported
QTY Remaining in Tank: 0
Filled/Removed: Removed
Tank Empty: Not reported
Out of Service Mo/Yr: 071995
Material of Construction: Steel
Piping: Cat Prot
Tank Internal Protection: None
Tank External Protection: Cat Prot,Painted

Tank ID: 012
Tank Type: Underground
Tank Status: Permanently Out Of Use
Total Capacity (Gals): 23470
Hazards: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WICHITA STATE UNIVERSITY (WSU) (Continued)

U003542238

Petroleum Substance: Diesel
NonPetroleum Substance: Not reported
Estimated Yr In Service: 1971
Date Removed: 7/15/1995
Last Permit Printed: 1995-07-18 00:00:00
Current Permit Printed: Not reported
QTY Remaining in Tank: 0
Filled/Removed: Removed
Tank Empty: Not reported
Out of Service Mo/Yr: 071995
Material of Construction: Steel
Piping: Cat Prot
Tank Internal Protection: None
Tank External Protection: Cat Prot,Painted

Tank ID: 013
Tank Type: Underground
Tank Status: Permanently Out Of Use
Total Capacity (Gals): 5000

Hazards: Not reported
Petroleum Substance: Diesel
NonPetroleum Substance: Not reported
Estimated Yr In Service: 1960
Date Removed: 5/15/1989
Last Permit Printed: Not reported
Current Permit Printed: Not reported
QTY Remaining in Tank: Not reported
Filled/Removed: Removed
Tank Empty: Not reported
Out of Service Mo/Yr: 051989
Material of Construction: Steel
Piping: Unknown
Tank Internal Protection: None
Tank External Protection: Painted

Tank ID: 014
Tank Type: Underground
Tank Status: Permanently Out Of Use
Total Capacity (Gals): 550

Hazards: Not reported
Petroleum Substance: Diesel
NonPetroleum Substance: Not reported
Estimated Yr In Service: 1900
Date Removed: 3/15/1989
Last Permit Printed: Not reported
Current Permit Printed: Not reported
QTY Remaining in Tank: Not reported
Filled/Removed: Removed
Tank Empty: Not reported
Out of Service Mo/Yr: 031989
Material of Construction: Steel
Piping: Other,NO-PIPING
Tank Internal Protection: Unknown
Tank External Protection: Painted

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WICHITA STATE UNIVERSITY (WSU) (Continued)

U003542238

Tank ID: 015
Tank Type: Underground
Tank Status: Permanently Out Of Use
Total Capacity (Gals): 2000
Hazards: Not reported
Petroleum Substance: Diesel
NonPetroleum Substance: Not reported
Estimated Yr In Service: 1900
Date Removed: 3/15/1989
Last Permit Printed: Not reported
Current Permit Printed: Not reported
QTY Remaining in Tank: Not reported
Filled/Removed: Removed
Tank Empty: Not reported
Out of Service Mo/Yr: 031989
Material of Construction: Steel
Piping: Other,NO-PIPING
Tank Internal Protection: Unknown
Tank External Protection: Painted

Tank ID: 016
Tank Type: Underground
Tank Status: Permanently Out Of Use
Total Capacity (Gals): 3000
Hazards: Not reported
Petroleum Substance: Diesel
NonPetroleum Substance: Not reported
Estimated Yr In Service: 1900
Date Removed: 3/15/1989
Last Permit Printed: Not reported
Current Permit Printed: Not reported
QTY Remaining in Tank: Not reported
Filled/Removed: Removed
Tank Empty: Not reported
Out of Service Mo/Yr: 031989
Material of Construction: Steel
Piping: Other,NO-PIPING
Tank Internal Protection: Unknown
Tank External Protection: Painted

Tank ID: 017
Tank Type: Underground
Tank Status: Permanently Out Of Use
Total Capacity (Gals): 4000
Hazards: Not reported
Petroleum Substance: Diesel
NonPetroleum Substance: Not reported
Estimated Yr In Service: 1900
Date Removed: 3/15/1989
Last Permit Printed: Not reported
Current Permit Printed: Not reported
QTY Remaining in Tank: Not reported
Filled/Removed: Removed
Tank Empty: Not reported
Out of Service Mo/Yr: 031989

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WICHITA STATE UNIVERSITY (WSU) (Continued)

U003542238

Material of Construction: Steel
Piping: Other,NO-PIPING
Tank Internal Protection: Unknown
Tank External Protection: Painted

Tank ID: 018
Tank Type: Underground
Tank Status: Permanently Out Of Use
Total Capacity (Gals): 4000
Hazards: Not reported
Petroleum Substance: Diesel
NonPetroleum Substance: Not reported
Estimated Yr In Service: 1900
Date Removed: 3/15/1989
Last Permit Printed: Not reported
Current Permit Printed: Not reported
QTY Remaining in Tank: Not reported
Filled/Removed: Removed
Tank Empty: Not reported
Out of Service Mo/Yr: 031989
Material of Construction: Steel
Piping: Other,NO-PIPING
Tank Internal Protection: Unknown
Tank External Protection: Painted

Tank ID: 019
Tank Type: Underground
Tank Status: Permanently Out Of Use
Total Capacity (Gals): 2000
Hazards: Fire,Chronic,Acute
Petroleum Substance: Gas (Incl Alcohol)
NonPetroleum Substance: Not reported
Estimated Yr In Service: 1979
Date Removed: 10/15/1989
Last Permit Printed: Not reported
Current Permit Printed: Not reported
QTY Remaining in Tank: Not reported
Filled/Removed: Removed
Tank Empty: Not reported
Out of Service Mo/Yr: 101989
Material of Construction: Not reported
Piping: Other,ASPHALTIC COATING
Tank Internal Protection: None
Tank External Protection: Cat Prot,Painted

Tank ID: 020
Tank Type: Underground
Tank Status: Permanently Out Of Use
Total Capacity (Gals): 2000
Hazards: Fire,Chronic,Acute
Petroleum Substance: Gas (Incl Alcohol)
NonPetroleum Substance: Not reported
Estimated Yr In Service: 1979
Date Removed: 10/15/1989

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WICHITA STATE UNIVERSITY (WSU) (Continued)

U003542238

Last Permit Printed: Not reported
Current Permit Printed: Not reported
QTY Remaining in Tank: Not reported
Filled/Removed: Removed
Tank Empty: Not reported
Out of Service Mo/Yr: 101989
Material of Construction: Steel
Piping: Other,ASPHALTIC COATING
Tank Internal Protection: None
Tank External Protection: Cat Prot,Painted

Tank ID: 021
Tank Type: Underground
Tank Status: Permanently Out Of Use
Total Capacity (Gals): 1000
Hazards: Fire,Chronic,Acute
Petroleum Substance: Gas (Incl Alcohol)
NonPetroleum Substance: Not reported
Estimated Yr In Service: 1956
Date Removed: Not reported
Last Permit Printed: Not reported
Current Permit Printed: Not reported
QTY Remaining in Tank: 0
Filled/Removed: Removed
Tank Empty: Not reported
Out of Service Mo/Yr: 001900
Material of Construction: Steel
Piping: Unknown
Tank Internal Protection: Unknown
Tank External Protection: Painted

AST:

Facility ID: 28563
Facility 911 Address: 1845 FAIRMOUNT
Facility 911 City,St,Zip: WICHITA, KS 67260-0023
Facility Phone: 316-978-3447
24 Hour Phone Num: 316-978-3447
Facility District: SC
Facility Location Method: GARMIN 3 PLUS
Facility Feature: Facility Center
Facility Datum: WGS84
Facility Lat/Long: 37.71678 -97.29000999999995
Owner ID: 24212
Owner Type: Current
Owner Name: WSU
Owner Address: 1845 FAIRMOUNT, BOX 23
Owner City,St Zip: WICHITA, KS 67260-0023
Owner County: SEDGWICK
Owner Phone: 316-978-3456
Owner Replacement Name: WSU/WOODROW DEPONTIER
Owner Replacement Title: Not reported
Contact: WOODROW DEPONTIER
Contact Title: CONTACT PERSON

Tank ID: 001
Tank Type: Aboveground

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WICHITA STATE UNIVERSITY (WSU) (Continued)

U003542238

Tank Status: Current In Use
Tank Empty: Not reported
Installation Year: 1992
Date Removed: Not reported
Last Permit Printed: 2013-06-18 00:00:00
Current Permit Printed: 2014-06-09 00:00:00
QTY remaining in Tank: Not reported
Out of service Mo/Yr: Not reported
Material of Construction: Double Wall
Petroleum Substance: Fuel Oil
NonPetroleum Substance: Not reported
Hazards: Fire
Tank Internal Protection: Not reported
Tank External Protection: Painted
Principal CERCLA Substance/Chem Abstract Service Num: 64742-81-0

Tank ID: 002
Tank Type: Aboveground
Tank Status: Current In Use
Tank Empty: Not reported
Installation Year: 2007
Date Removed: Not reported
Last Permit Printed: 2013-06-18 00:00:00
Current Permit Printed: 2014-06-09 00:00:00
QTY remaining in Tank: Not reported
Out of service Mo/Yr: Not reported
Material of Construction: Double Wall
Petroleum Substance: Used Oil
NonPetroleum Substance: Not reported
Hazards: Fire,Chronic
Tank Internal Protection: Not reported
Tank External Protection: Painted
Principal CERCLA Substance/Chem Abstract Service Num: 68334-30-5

KS Financial Assurance:
Facility ID: 28563
Financial Responsibility: State Self Insured

Facility ID: 28563
Financial Responsibility: State Self Insured

15
SSE
1/4-1/2
0.483 mi.
2551 ft.

BEST CLEANERS - 1427 N OLIVER
1427 N OLIVER
WICHITA, KS 67208

SHWS S108954050
N/A

Relative:
Lower

SHWS:
Site ID: 2302
Has Env Use Control: No
Project code: C208772357
PM Name: BER - Assessment and Rest
Site Status: Active
District Office: SCDO
Lat/Long: 37.709538 / -97.28081
River Basin: Lower Arkansas

Actual:
1397 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BEST CLEANERS - 1427 N OLIVER (Continued)

S108954050

Aquifer Yield: Alluvial
Other Aquifers: Not reported
Parent PC: Not reported
Parent Name: Not reported
CERCLIS ID: Not reported
Discovery Date: 02/18/2008
Depth To GW: 0-10 feet
Depth To Bedrock: 11-20 feet
Aquifer Yield: 0-10 gpm
GW Flow Direction: Not reported
Acres Affected: Unknown
Waste Present: No
Product Present: No
Program: Drycleaning
Lead Agency: BER - Assessment and Restoration
Contaminants: VOC
Media Act: Ground Water
Media Pot: Soil
Source: Drycleaner
Land Use: Commercial
Private well: Monitoring
Waste Present: Not reported
Product: Not reported
Receptor Act: Not reported
Receptor Pot: Not reported
Remed Air: Not reported
Remed Soil: Not reported
Remed Water: Not reported
Remedir: Not reported
Alias: Not reported
Eucan Number: Not reported
Date: Not reported
Activity Type: Phase II Assessment
Activity Status: Completed
Activity Start Date: Not reported
Activity End Date: 01/11/2008
Narrative: February, 19, 2008 - Site was accepted into Dry Cleaning Trust Fund and prioritized for fund expenditures. The application was submitted by Madison Properties Group, Inc. for the former Best Cleaners. The site did not rank high enough for immediate funding. Groundwater contamination has been identified on-site, however the remaining downgradient contaminant plume has not been delineated. Site was placed on backlog list waiting future funding.

Site ID: 2302
Has Env Use Control: No
Project code: C208772357
PM Name: BER - Assessment and Rest
Site Status: Active
District Office: SCDO
Lat/Long: 37.709538 / -97.28081
River Basin: Lower Arkansas
Aquifer Yield: Alluvial
Other Aquifers: Not reported
Parent PC: Not reported
Parent Name: Not reported
CERCLIS ID: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

BEST CLEANERS - 1427 N OLIVER (Continued)

S108954050

Discovery Date: 02/18/2008
 Depth To GW: 0-10 feet
 Depth To Bedrock: 11-20 feet
 Aquifer Yield: 0-10 gpm
 GW Flow Direction: Not reported
 Acres Affected: Unknown
 Waste Present: No
 Product Present: No
 Program: Drycleaning
 Lead Agency: BER - Assessment and Restoration
 Contaminants: VOC
 Media Act: Ground Water
 Media Pot: Soil
 Source: Drycleaner
 Land Use: Commercial
 Private well: Monitoring
 Waste Present: Not reported
 Product: Not reported
 Receptor Act: Not reported
 Receptor Pot: Not reported
 Remed Air: Not reported
 Remed Soil: Not reported
 Remed Water: Not reported
 Remedir: Not reported
 Alias: Not reported
 Eucan Number: Not reported
 Date: Not reported
 Activity Type: Application to Program
 Activity Status: Completed
 Activity Start Date: 02/15/2008
 Activity End Date: 02/19/2008
 Narrative: February, 19, 2008 - Site was accepted into Dry Cleaning Trust Fund and prioritized for fund expenditures. The application was submitted by Madison Properties Group, Inc. for the former Best Cleaners. The site did not rank high enough for immediate funding. Groundwater contamination has been identified on-site, however the remaining downgradient contaminant plume has not been delineated. Site was placed on backlog list waiting future funding.

16
 WNW
 1/4-1/2
 0.495 mi.
 2614 ft.

**DANNY'S BURGERS, FORMER
 2147 N HILLSIDE
 WICHITA, KS 67214**

**LUST S101833492
 N/A**

**Relative:
 Lower**

LUST:
 Facility ID: 29046
Site Status: Monitor
 Release Date: Not reported
 Initial Report Date: 09/20/1990
 Project Number: U2-087-00627
 Project Name: Dannys Burgers, Former
 Legal Desc Section: 10
 Legal Desc Township: 27S
 Legal Desc Range: 01E
 Initial Ranking: 62
 Current Ranking: 58.00000
 Facility Contact: Not reported

**Actual:
 1358 ft.**

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

DANNY'S BURGERS, FORMER (Continued)

S101833492

Facility Phone Number:	Not reported
Facility Owner Identification number:	29046
Facility Owner:	Not reported
Owner Contact Person:	Lee Luinstra
Owner Address:	137 Rice Drive
Owner City:	El Dorado
Owner State:	KS
Owner Zip Code:	67042
Owner Phone number:	Not reported
Contractor license number:	Not reported
Contractor phone number:	Not reported
Leak duration (if known):	Not reported
Quantity released (if known):	Not reported
Quantity recorded:	Not reported
Leak Type:	Not reported
Reported By:	Not reported
Reported by persons phone number:	Not reported
Reported by person address:	Not reported
Ground water Impacted (yes/no):	some fill sand and clay together with weathered shale.'
Static groundwater level:	Not reported
Groundwater flow direction:	Not reported
District staff names:	Not reported
Assessment of release:	water table @ 40-60' but perched water @ 8-10'. btex = 20 -130 ppm; tph = 29-1900 ppm. 9/93: 4-6000 gal gas usts removed. strong gas odor & staining. excav to '22ft w/strong petroleum odor & >2500 ppm tp
Contamination assesement:	Not reported
Extent of contamination impact:	may be to nw based on b-12 analysis
Updated information:	Not reported
Invoice initiated:	19912
Invoice on going:	Not reported
Invoice completetd:	19912
Release confirmed:	19912
Emergency contact:	Not reported
Enforcement action:	19912
Cost recovery:	Not reported
Cost recovery initiated:	19912
Cost recovery initiated by:	Responsible Party
Cost recovery completed:	Not reported
Cost recovery completed by:	Not reported
Application to trust fund:	19912

17
 SSW
 1/2-1
 0.512 mi.
 2703 ft.

STANDARD PARTS AND EQUIPMENT 13TH
3916 E. 13TH
WICHITA, KS

SHWS S109981262
N/A

Relative:
Lower

SHWS:
 Site ID: 2477
 Has Env Use Control: No
 Project code: C208772529
 PM Name: WHEELER, K.
Site Status: Resolved
 District Office: SCDO
 Lat/Long: 37.708643 / -97.290265
 River Basin: Lower Arkansas
 Aquifer Yield: Unknown
 Other Aquifers: Not reported

Actual:
1391 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STANDARD PARTS AND EQUIPMENT 13TH (Continued)

S109981262

Parent PC: Not reported
Parent Name: Not reported
CERCLIS ID: Not reported
Discovery Date: Not reported
Depth To GW: 21-30 feet
Depth To Bedrock: 21-30 feet
Aquifer Yield: Not reported
GW Flow Direction: W-SW
Acres Affected: Not reported
Waste Present: No
Product Present: No
Program: Sector ID/Assessment
Lead Agency: BER - Assessment and Restoration
Contaminants: Not reported
Media Act: Not reported
Media Pot: Not reported
Source: Not reported
Land Use: Not reported
Private well: Not reported
Waste Present: Not reported
Product: Not reported
Receptor Act: Not reported
Receptor Pot: Not reported
Remed Air: Not reported
Remed Soil: Not reported
Remed Water: Not reported
Remedir: Not reported
Alias: Not reported
Eucan Number: Not reported
Date: Not reported
Activity Type: Resolved
Activity Status: Completed
Activity Start Date: Not reported
Activity End Date: 02/08/2010
Narrative: The Standard Parts and Equipment Corp Aircraft (Standard Parts and Equipment) property was recommended for an environmental assessment as a result of a process that identified and ranked radium dial shop facilities in Kansas. The assessment is referred to as an Unified Focused Assessment (UFA) because elements of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) assessment; American Society for Testing and Materials (ASTM) Phase One and Phase Two environmental assessments; and All Appropriate Inquiry (AAI) components are included in the scope of the UFA assessment process. The purpose of this UFA is to determine whether the Standard Parts and Equipment property poses a threat to human health and the environment, and to propose recommendations for further action if necessary. The UFA performed for this property was consistent with the KDHE Work Scope for Radium Dial Shops.
The sampling objective was to evaluate environmental conditions by collecting data for the contaminants of concern including radium-226, metals, and VOCs. Intrusive sampling and laboratory analysis was conducted under specific quality control and data validation guidelines.
While an HREC was identified in this UFA, with radium-226 concentrations in soil did not exceed EPA screening levels. All groundwater

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STANDARD PARTS AND EQUIPMENT 13TH (Continued)

S109981262

samples were below the EPA screening level of 5 pCi/L plus background (5.27 pCi/L). Standard Parts and Equipment is not an identified hazardous waste generator. Further CERCLA site assessment is not recommended for the former Standard Parts and Equipment site.

Site ID: 2477
Has Env Use Control: No
Project code: C208772529
PM Name: WHEELER, K.
Site Status: Resolved
District Office: SCDO
Lat/Long: 37.708643 / -97.290265
River Basin: Lower Arkansas
Aquifer Yield: Unknown
Other Aquifers: Not reported
Parent PC: Not reported
Parent Name: Not reported
CERCLIS ID: Not reported
Discovery Date: Not reported
Depth To GW: 21-30 feet
Depth To Bedrock: 21-30 feet
Aquifer Yield: Not reported
GW Flow Direction: W-SW
Acres Affected: Not reported
Waste Present: No
Product Present: No
Program: Sector ID/Assessment
Lead Agency: BER - Assessment and Restoration
Contaminants: Not reported
Media Act: Not reported
Media Pot: Not reported
Source: Not reported
Land Use: Not reported
Private well: Not reported
Waste Present: Not reported
Product: Not reported
Receptor Act: Not reported
Receptor Pot: Not reported
Remed Air: Not reported
Remed Soil: Not reported
Remed Water: Not reported
Remedir: Not reported
Alias: Not reported
Eucan Number: Not reported
Date: Not reported
Activity Type: Unified Focused Assessment (UFA)
Activity Status: Completed
Activity Start Date: 10/01/2003
Activity End Date: 02/08/2010
Narrative: The Standard Parts and Equipment Corp Aircraft (Standard Parts and Equipment) property was recommended for an environmental assessment as a result of a process that identified and ranked radium dial shop facilities in Kansas. The assessment is referred to as an Unified Focused Assessment (UFA) because elements of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) assessment; American Society for Testing and Materials (ASTM) Phase One and Phase Two environmental assessments; and All Appropriate

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

STANDARD PARTS AND EQUIPMENT 13TH (Continued)

S109981262

Inquiry (AAI) components are included in the scope of the UFA assessment process. The purpose of this UFA is to determine whether the Standard Parts and Equipment property poses a threat to human health and the environment, and to propose recommendations for further action if necessary. The UFA performed for this property was consistent with the KDHE Work Scope for Radium Dial Shops.

The sampling objective was to evaluate environmental conditions by collecting data for the contaminants of concern including radium-226, metals, and VOCs. Intrusive sampling and laboratory analysis was conducted under specific quality control and data validation guidelines.

While an HREC was identified in this UFA, with radium-226 concentrations in soil did not exceed EPA screening levels. All groundwater samples were below the EPA screening level of 5 pCi/L plus background (5.27 pCi/L). Standard Parts and Equipment is not an identified hazardous waste generator. Further CERCLA site assessment is not recommended for the former Standard Parts and Equipment site.

18
ESE
1/2-1
0.544 mi.
2874 ft.

REDBUD PATH (OLIVER TO WOODLAWN)
FROM OLIVER AVE TO WOODLAWN BLVD ADJACENT TO 17TH
WICHITA, KS

SHWS S113441233
VCP N/A

Relative:
Lower

SHWS:
 Site ID: 2959
 Has Env Use Control: No
 Project code: C208773008
 PM Name: ROSS, D.
Site Status: Active
 District Office: SCDO
 Lat/Long: 37.7155 / -97.27096
 River Basin: Lower Arkansas
 Aquifer Yield: Not reported
 Other Aquifers: Not reported
 Parent PC: Not reported
 Parent Name: Not reported
 CERCLIS ID: Not reported
 Discovery Date: Not reported
 Depth To GW: Not reported
 Depth To Bedrock: Not reported
 Aquifer Yield: Not reported
 GW Flow Direction: Not reported
 Acres Affected: 5-25 acres
 Waste Present: No
 Product Present: No
 Program: Voluntary Cleanup
 Lead Agency: BER - Assessment and Restoration
 Contaminants: Not reported
 Media Act: Not reported
 Media Pot: Not reported
 Source: Not reported
 Land Use: Not reported
 Private well: Not reported
 Waste Present: Not reported
 Product: Not reported

Actual:
1405 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REDBUD PATH (OLIVER TO WOODLAWN) (Continued)

S113441233

Receptor Act: Not reported
Receptor Pot: Not reported
Remed Air: Not reported
Remed Soil: Not reported
Remed Water: Not reported
Remedir: Not reported
Alias: Not reported
Eucan Number: Not reported
Date: Not reported
Activity Type: Brownfields Targeted Assessment
Activity Status: Completed
Activity Start Date: 04/19/2013
Activity End Date: 06/05/2013

Narrative: The Kansas Department of Health and Environment (KDHE) conducted a Phase I Brownfields Targeted Assessment (BTA) for the City of Wichita on the Oliver Ave to Woodlawn Blvd extension of the Redbud Bike/Pedestrian Path in Wichita, Kansas. Extending the existing Redbud Path from Oliver Ave to Woodlawn Blvd has been hindered by the unknown environmental status of the corridor, and the Brownfields assessment is necessary to evaluate the property prior to construction. The future expansion of the Redbud Path would be an excellent benefit to the community. Based on the Phase I report, ?Recognized Environmental Conditions? (RECs) were identified as the historic use of the property as a railroad corridor. Due to the potential for soil and groundwater impacts, a Phase II limited site investigation was performed in August 2013.

The Phase II investigation consisted of advancing 24 soil borings at eight transects (three probes at each transect) along the former railroad corridor. Discrete soil samples were collected from each boring location at various intervals for a total of 40 soil samples. All soil samples were submitted to the laboratory and analyzed for polycyclic aromatic hydrocarbons (PAHs) and select metals consisting of arsenic, cadmium, and lead. In addition, two soil samples were also submitted for the Toxicity Characteristic Leaching Procedure (TCLP) for all three metal contaminants to further characterize the potentially impacted soil. Results from the Phase II investigation identified PAHs, arsenic, cadmium, and lead in the soil at concentrations above the KDHE?s Risk-Based Standards for Kansas (RSK) most stringent soil levels for a residential scenario. The observed contamination exceeding regulatory levels was identified in 13 of the 40 samples collected and is generally limited to the upper two feet of soil. Additionally, TCLP lead was detected in the P-5-A (2 to 4 feet) sample exceeding the TCLP limit for lead of 5.0 milligrams per liter (mg/L). TCLP arsenic was not detected above laboratory reporting limits and TCLP cadmium was detected at levels below the TCLP limit of 1.0 mg/L.

Based on results of the Phase II investigation, benzo(a)pyrene, na phthalene (PAH constituents), arsenic, cadmium, and lead have been identified in the soil above their respective KDHE RSK soil levels. The City of Wichita is encouraged to apply to the Voluntary Cleanup Program (VCP) to address the soil contamination on the property prior to redevelopment.

Site ID: 2959
Has Env Use Control: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REDBUD PATH (OLIVER TO WOODLAWN) (Continued)

S113441233

Project code: C208773008
PM Name: ROSS, D.
Site Status: Active
District Office: SCDO
Lat/Long: 37.7155 / -97.27096
River Basin: Lower Arkansas
Aquifer Yield: Not reported
Other Aquifers: Not reported
Parent PC: Not reported
Parent Name: Not reported
CERCLIS ID: Not reported
Discovery Date: Not reported
Depth To GW: Not reported
Depth To Bedrock: Not reported
Aquifer Yield: Not reported
GW Flow Direction: Not reported
Acres Affected: 5-25 acres
Waste Present: No
Product Present: No
Program: Voluntary Cleanup
Lead Agency: BER - Assessment and Restoration
Contaminants: Not reported
Media Act: Not reported
Media Pot: Not reported
Source: Not reported
Land Use: Not reported
Private well: Not reported
Waste Present: Not reported
Product: Not reported
Receptor Act: Not reported
Receptor Pot: Not reported
Remed Air: Not reported
Remed Soil: Not reported
Remed Water: Not reported
Remedir: Not reported
Alias: Not reported
Eucan Number: Not reported
Date: Not reported
Activity Type: Brownfields Targeted Assessment
Activity Status: Completed
Activity Start Date: 06/05/2013
Activity End Date: 10/02/2013
Narrative: The Kansas Department of Health and Environment (KDHE) conducted a Phase I Brownfields Targeted Assessment (BTA) for the City of Wichita on the Oliver Ave to Woodlawn Blvd extension of the Redbud Bike/Pedestrian Path in Wichita, Kansas. Extending the existing Redbud Path from Oliver Ave to Woodlawn Blvd has been hindered by the unknown environmental status of the corridor, and the Brownfields assessment is necessary to evaluate the property prior to construction. The future expansion of the Redbud Path would be an excellent benefit to the community. Based on the Phase I report, ?Recognized Environmental Conditions? (RECs) were identified as the historic use of the property as a railroad corridor. Due to the potential for soil and groundwater impacts, a Phase II limited site investigation was performed in August 2013.
The Phase II investigation consisted of advancing 24 soil borings

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REDBUD PATH (OLIVER TO WOODLAWN) (Continued)

S113441233

at eight transects (three probes at each transect) along the former railroad corridor. Discrete soil samples were collected from each boring location at various intervals for a total of 40 soil samples. All soil samples were submitted to the laboratory and analyzed for polycyclic aromatic hydrocarbons (PAHs) and select metals consisting of arsenic, cadmium, and lead. In addition, two soil samples were also submitted for the Toxicity Characteristic Leaching Procedure (TCLP) for all three metal contaminants to further characterize the potentially impacted soil. Results from the Phase II investigation identified PAHs, arsenic, cadmium, and lead in the soil at concentrations above the KDHE's Risk-Based Standards for Kansas (RSK) most stringent soil levels for a residential scenario. The observed contamination exceeding regulatory levels was identified in 13 of the 40 samples collected and is generally limited to the upper two feet of soil. Additionally, TCLP lead was detected in the P-5-A (2 to 4 feet) sample exceeding the TCLP limit for lead of 5.0 milligrams per liter (mg/L). TCLP arsenic was not detected above laboratory reporting limits and TCLP cadmium was detected at levels below the TCLP limit of 1.0 mg/L.

Based on results of the Phase II investigation, benzo(a)pyrene, na phthalene (PAH constituents), arsenic, cadmium, and lead have been identified in the soil above their respective KDHE RSK soil levels. The City of Wichita is encouraged to apply to the Voluntary Cleanup Program (VCP) to address the soil contamination on the property prior to redevelopment.

Site ID: 2959
Has Env Use Control: No
Project code: C208773008
PM Name: ROSS, D.
Site Status: Active
District Office: SCDO
Lat/Long: 37.7155 / -97.27096
River Basin: Lower Arkansas
Aquifer Yield: Not reported
Other Aquifers: Not reported
Parent PC: Not reported
Parent Name: Not reported
CERCLIS ID: Not reported
Discovery Date: Not reported
Depth To GW: Not reported
Depth To Bedrock: Not reported
Aquifer Yield: Not reported
GW Flow Direction: Not reported
Acres Affected: 5-25 acres
Waste Present: No
Product Present: No
Program: Voluntary Cleanup
Lead Agency: BER - Assessment and Restoration
Contaminants: Not reported
Media Act: Not reported
Media Pot: Not reported
Source: Not reported
Land Use: Not reported
Private well: Not reported
Waste Present: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REDBUD PATH (OLIVER TO WOODLAWN) (Continued)

S113441233

Product: Not reported
Receptor Act: Not reported
Receptor Pot: Not reported
Remed Air: Not reported
Remed Soil: Not reported
Remed Water: Not reported
Remedir: Not reported
Alias: Not reported
Eucan Number: Not reported
Date: Not reported
Activity Type: Transfer Within Bureau
Activity Status: Completed
Activity Start Date: Not reported
Activity End Date: 10/02/2013

Narrative: The Kansas Department of Health and Environment (KDHE) conducted a Phase I Brownfields Targeted Assessment (BTA) for the City of Wichita on the Oliver Ave to Woodlawn Blvd extension of the Redbud Bike/Pedestrian Path in Wichita, Kansas. Extending the existing Redbud Path from Oliver Ave to Woodlawn Blvd has been hindered by the unknown environmental status of the corridor, and the Brownfields assessment is necessary to evaluate the property prior to construction. The future expansion of the Redbud Path would be an excellent benefit to the community. Based on the Phase I report, ?Recognized Environmental Conditions? (RECs) were identified as the historic use of the property as a railroad corridor. Due to the potential for soil and groundwater impacts, a Phase II limited site investigation was performed in August 2013.

The Phase II investigation consisted of advancing 24 soil borings at eight transects (three probes at each transect) along the former railroad corridor. Discrete soil samples were collected from each boring location at various intervals for a total of 40 soil samples. All soil samples were submitted to the laboratory and analyzed for polycyclic aromatic hydrocarbons (PAHs) and select metals consisting of arsenic, cadmium, and lead. In addition, two soil samples were also submitted for the Toxicity Characteristic Leaching Procedure (TCLP) for all three metal contaminants to further characterize the potentially impacted soil. Results from the Phase II investigation identified PAHs, arsenic, cadmium, and lead in the soil at concentrations above the KDHE?s Risk-Based Standards for Kansas (RSK) most stringent soil levels for a residential scenario. The observed contamination exceeding regulatory levels was identified in 13 of the 40 samples collected and is generally limited to the upper two feet of soil. Additionally, TCLP lead was detected in the P-5-A (2 to 4 feet) sample exceeding the TCLP limit for lead of 5.0 milligrams per liter (mg/L). TCLP arsenic was not detected above laboratory reporting limits and TCLP cadmium was detected at levels below the TCLP limit of 1.0 mg/L.

Based on results of the Phase II investigation, benzo(a)pyrene, na phthalene (PAH constituents), arsenic, cadmium, and lead have been identified in the soil above their respective KDHE RSK soil levels. The City of Wichita is encouraged to apply to the Voluntary Cleanup Program (VCP) to address the soil contamination on the property prior to redevelopment.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

REDBUD PATH (OLIVER TO WOODLAWN) (Continued)

S113441233

VCP:

Site ID: 2959
Project code: C208773008
PM Name: ROSS, D.
Site Status: Active
Program: Voluntary Cleanup

E19
West
1/2-1
0.881 mi.
4652 ft.

ABC CLEANERS (FMR)
2620 E 21ST
WICHITA, KS
Site 1 of 2 in cluster E

SHWS S10666086
N/A

Relative:
Lower

SHWS:

Actual:
1333 ft.

Site ID: 1870
Has Env Use Control: No
Project code: C208771938
PM Name: DOM, J.
Site Status: Active
District Office: SCDO
Lat/Long: 37.72307 / -97.305662
River Basin: Lower Arkansas
Aquifer Yield: Alluvial
Other Aquifers: Not reported
Parent PC: C208771819
Parent Name: 19TH & GROVE SITE
CERCLIS ID: Not reported
Discovery Date: 07/31/2003
Depth To GW: 21-30 feet
Depth To Bedrock: 31-50 feet
Aquifer Yield: Not reported
GW Flow Direction: S
Acres Affected: Unknown
Waste Present: No
Product Present: No
Program: Drycleaning
Lead Agency: BER - Assessment and Restoration
Contaminants: VOC
Media Act: Ground Water
Media Pot: Soil
Source: Drycleaner
Land Use: Commercial, Residential
Private well: Monitoring
Waste Present: Not reported
Product: Not reported
Receptor Act: Not reported
Receptor Pot: Not reported
Remed Air: Not reported
Remed Soil: Not reported
Remed Water: Not reported
Remedir: Not reported
Alias: Not reported
Eucan Number: Not reported
Date: Not reported
Activity Type: Integrated PA/SSI
Activity Status: Completed
Activity Start Date: 12/01/2003

MAP FINDINGS

ABC CLEANERS (FMR) (Continued)

S106666086

Activity End Date: 07/01/2004

Narrative:

July 2003 -Tetrachloroethylene (PCE) was discovered in ground water near the intersection of 19th Street and Grove Street by an environmental contractor during field work at another site known as the 29th and Grove Site (C2-087-70135). The contractor, The Forrester Group, discovered the PCE while collecting ground water samples to delineate an extensive trichloroethylene (TCE) plume in ground water. The site was referred to KDHE's Site Assessment Program for further evaluation as a newly discovered site.

December 2003 - The Site Assessment Program completed a pre-CERCLIS Site Reconnaissance and Evaluation (SRE) at the site. A records search identified 34 dry cleaners or laundries in the site area. The SRE concluded that the site is large and complex, requiring more evaluation than can be provided by a Pre-CERCLIS survey and recommended CERCLIS entry and completion of a PA/SI consistent with 300.420 of the NCP.

January 2004 - A PA/SI was initiated and included the collection and analysis of more than 120 ground water samples using direct-push technology and existing UST monitoring wells. A spatial analysis of PCE concentrations in ground water was completed to build a conceptual model of the dispersion of PCE in the ground water at the site. The spatial analysis was completed using ESRI ArcGIS Spatial Analyst software using a geostatistical mathematical function known as spline interpolation. The dispersion of PCE in the ground water at the site suggests that the contamination originates from sources located on five properties:

- (1) a strip mall at 2620 E. 21st Street that contained ABC Cleaners and Giant Laundry;
- (2) a former Ryan's Cleaners/Dime-o-mat (currently a large housing complex) at 2121 E. 21st Street;
- (3) a strip mall at 2412 E. 17th Street that contained Terrie's Cleaners;
- (4) a strip mall at 1806 E. 13th St. that contained Plaza Mono Wash, Ryan's Cleaners and Coin-o-mat; (5) the former Majestic Cleaners and A-One Cleaners (currently Urban League) at 2418 E. 9th Street.

The PCE released from these facilities occurs in three contaminant plumes in ground water. Two of the plumes are nearly 2 miles in length. The length of the third plume is unknown.

8/12/04 - The site was referred to the Kansas Drycleaning Facilities Release Trust Fund. Site was ranked for funding prioritization, but did not rank high enough for immediate corrective action so the site is currently on the backlog list awaiting future funding. KDHE Dry Cleaning Trust Fund continues to encourage property owners of impacted active and former dry cleaner property to apply to the trust fund, but no application to the Kansas Dry Cleaning Facility Release Trust Fund has been received by KDHE.

11/30/04 - KDHE held a Public Availability Session at the Sedgwick County Environmental Dept. in Wichita to answer questions regarding the Dry Cleaning Trust Fund Program and encourage property owners to make application to the Trust Fund. All potential responsible parties/property owners within the 19th & Grove site were invited to

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ABC CLEANERS (FMR) (Continued)

S10666086

the
session.

2008 - Four suspected source areas are being funded for source investigations. The four include ABC Cleaners, 2620 E. 21st; A-One Cleaners, 2424 E. 9th; Ryan's Cleaners, 1806 E. 13th N.; and Terrie's Cleaners, 2412 E. 17th. Investigation is planned for Summer 2008.

An Expanded Site Assessment (ESA) Work Plan was completed on January 30, 2009. In March 2009, 53 groundwater probes were conducted to further define the PCE plume from the former Ryan's, Terries, A-One, and ABC Cleaners. The next phase will be the completion of a Source Investigation at each of the sites to determine the extent of contamination in the vadose zone..

Numerous attempts to obtain an access agreement from the out-of-state property owners have been unsuccessful. KDHE will explore using legal staff to obtain access.

Site ID: 1870
Has Env Use Control: No
Project code: C208771938
PM Name: DOM, J.
Site Status: Active
District Office: SCDO
Lat/Long: 37.72307 / -97.305662
River Basin: Lower Arkansas
Aquifer Yield: Alluvial
Other Aquifers: Not reported
Parent PC: C208771819
Parent Name: 19TH & GROVE SITE
CERCLIS ID: Not reported
Discovery Date: 07/31/2003
Depth To GW: 21-30 feet
Depth To Bedrock: 31-50 feet
Aquifer Yield: Not reported
GW Flow Direction: S
Acres Affected: Unknown
Waste Present: No
Product Present: No
Program: Drycleaning
Lead Agency: BER - Assessment and Restoration
Contaminants: VOC
Media Act: Ground Water
Media Pot: Soil
Source: Drycleaner
Land Use: Commercial, Residential
Private well: Monitoring
Waste Present: Not reported
Product: Not reported
Receptor Act: Not reported
Receptor Pot: Not reported
Remed Air: Not reported
Remed Soil: Not reported
Remed Water: Not reported
Remedir: Not reported
Alias: Not reported
Eucan Number: Not reported

MAP FINDINGS

ABC CLEANERS (FMR) (Continued)

S106666086

Date: Not reported
Activity Type: Transfer Within Bureau
Activity Status: Completed
Activity Start Date: Not reported
Activity End Date: 08/12/2004
Narrative: July 2003 -Tetrachloroethylene (PCE) was discovered in ground water near the intersection of 19th Street and Grove Street by an environmental contractor during field work at another site known as the 29th and Grove Site (C2-087-70135). The contractor, The Forrester Group, discovered the PCE while collecting ground water samples to delineate an extensive trichloroethylene (TCE) plume in ground water. The site was referred to KDHE's Site Assessment Program for further evaluation as a newly discovered site.
December 2003 - The Site Assessment Program completed a pre-CERCLIS Site Reconnaissance and Evaluation (SRE) at the site. A records search identified 34 dry cleaners or laundries in the site area. The SRE concluded that the site is large and complex, requiring more evaluation than can be provided by a Pre-CERCLIS survey and recommended CERCLIS entry and completion of a PA/SI consistent with 300.420 of the NCP.
January 2004 - A PA/SI was initiated and included the collection and analysis of more than 120 ground water samples using direct-push technology and existing UST monitoring wells. A spatial analysis of PCE concentrations in ground water was completed to build a conceptual model of the dispersion of PCE in the ground water at the site. The spatial analysis was completed using ESRI ArcGIS Spatial Analyst software using a geostatistical mathematical function known as spline interpolation. The dispersion of PCE in the ground water at the site suggests that the contamination originates from sources located on five properties:
(1) a strip mall at 2620 E. 21st Street that contained ABC Cleaners and Giant Laundry;
(2) a former Ryan's Cleaners/Dime-o-mat (currently a large housing complex) at 2121 E. 21st Street;
(3) a strip mall at 2412 E. 17th Street that contained Terrie's Cleaners;
(4) a strip mall at 1806 E. 13th St. that contained Plaza Mono Wash, Ryan's Cleaners and Coin-o-mat; (5) the former Majestic Cleaners and A-One Cleaners (currently Urban League) at 2418 E. 9th Street.
The PCE released from these facilities occurs in three contaminant plumes in ground water. Two of the plumes are nearly 2 miles in length. The length of the third plume is unknown.
8/12/04 - The site was referred to the Kansas Drycleaning Facilities Release Trust Fund. Site was ranked for funding prioritization, but did not rank high enough for immediate corrective action so the site is currently on the backlog list awaiting future funding. KDHE Dry Cleaning Trust Fund continues to encourage property owners of impacted active and former dry cleaner property to apply to the trust fund, but no application to the Kansas Dry Cleaning Facility Release Trust Fund has been received by KDHE.
11/30/04 - KDHE held a Public Availability Session at the Sedgwick

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ABC CLEANERS (FMR) (Continued)

S10666086

County Environmental Dept. in Wichita to answer questions regarding the Dry Cleaning Trust Fund Program and encourage property owners to make application to the Trust Fund. All potential responsible parties/property owners within the 19th & Grove site were invited to the session.

2008 - Four suspected source areas are being funded for source investigations. The four include ABC Cleaners, 2620 E. 21st; A-One Cleaners, 2424 E. 9th; Ryan's Cleaners, 1806 E. 13th N.; and Terrie's Cleaners, 2412 E. 17th. Investigation is planned for Summer 2008.

An Expanded Site Assessment (ESA) Work Plan was completed on January 30, 2009. In March 2009, 53 groundwater probes were conducted to further define the PCE plume from the former Ryan's, Terries, A-One, and ABC Cleaners. The next phase will be the completion of a Source Investigation at each of the sites to determine the extent of contamination in the vadose zone..

Numerous attempts to obtain an access agreement from the out-of-state property owners have been unsuccessful. KDHE will explore using legal staff to obtain access.

Site ID: 1870
Has Env Use Control: No
Project code: C208771938
PM Name: DOM, J.
Site Status: Active
District Office: SCDO
Lat/Long: 37.72307 / -97.305662
River Basin: Lower Arkansas
Aquifer Yield: Alluvial
Other Aquifers: Not reported
Parent PC: C208771819
Parent Name: 19TH & GROVE SITE
CERCLIS ID: Not reported
Discovery Date: 07/31/2003
Depth To GW: 21-30 feet
Depth To Bedrock: 31-50 feet
Aquifer Yield: Not reported
GW Flow Direction: S
Acres Affected: Unknown
Waste Present: No
Product Present: No
Program: Drycleaning
Lead Agency: BER - Assessment and Restoration
Contaminants: VOC
Media Act: Ground Water
Media Pot: Soil
Source: Drycleaner
Land Use: Commercial, Residential
Private well: Monitoring
Waste Present: Not reported
Product: Not reported
Receptor Act: Not reported
Receptor Pot: Not reported
Remed Air: Not reported
Remed Soil: Not reported

MAP FINDINGS

ABC CLEANERS (FMR) (Continued)

S106666086

Remed Water: Not reported
 Remedir: Not reported
 Alias: Not reported
 Eucan Number: Not reported
 Date: Not reported
 Activity Type: Availability Session
 Activity Status: Completed
 Activity Start Date: Not reported
 Activity End Date: 11/30/2004
 Narrative: July 2003 -Tetrachloroethylene (PCE) was discovered in ground water near the intersection of 19th Street and Grove Street by an environmental contractor during field work at another site known as the 29th and Grove Site (C2-087-70135). The contractor, The Forrester Group, discovered the PCE while collecting ground water samples to delineate an extensive trichloroethylene (TCE) plume in ground water. The site was referred to KDHE's Site Assessment Program for further evaluation as a newly discovered site.

December 2003 - The Site Assessment Program completed a pre-CERCLIS Site Reconnaissance and Evaluation (SRE) at the site. A records search identified 34 dry cleaners or laundries in the site area. The SRE concluded that the site is large and complex, requiring more evaluation than can be provided by a Pre-CERCLIS survey and recommended CERCLIS entry and completion of a PA/SI consistent with 300.420 of the NCP.

January 2004 - A PA/SI was initiated and included the collection and analysis of more than 120 ground water samples using direct-push technology and existing UST monitoring wells. A spatial analysis of PCE concentrations in ground water was completed to build a conceptual model of the dispersion of PCE in the ground water at the site. The spatial analysis was completed using ESRI ArcGIS Spatial Analyst software using a geostatistical mathematical function known as spline interpolation. The dispersion of PCE in the ground water at the site suggests that the contamination originates from sources located on five properties:

- (1) a strip mall at 2620 E. 21st Street that contained ABC Cleaners and Giant Laundry;
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- (4) a strip mall at 1806 E. 13th St. that contained Plaza Mono Wash, Ryan's Cleaners and Coin-o-mat; (5) the former Majestic Cleaners and A-One Cleaners (currently Urban League) at 2418 E. 9th Street.

The PCE released from these facilities occurs in three contaminant plumes in ground water. Two of the plumes are nearly 2 miles in length. The length of the third plume is unknown.

8/12/04 - The site was referred to the Kansas Drycleaning Facilities Release Trust Fund. Site was ranked for funding prioritization, but did not rank high enough for immediate corrective action so the site is currently on the backlog list awaiting future funding. KDHE Dry Cleaning Trust Fund continues to encourage property owners of impacted active and former dry cleaner property to apply to the trust

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ABC CLEANERS (FMR) (Continued)

S106666086

fund, but no application to the Kansas Dry Cleaning Facility Release Trust Fund has been received by KDHE.

11/30/04 - KDHE held a Public Availability Session at the Sedgwick County Environmental Dept. in Wichita to answer questions regarding the Dry Cleaning Trust Fund Program and encourage property owners to make application to the Trust Fund. All potential responsible parties/property owners within the 19th & Grove site were invited to the session.

2008 - Four suspected source areas are being funded for source investigations. The four include ABC Cleaners, 2620 E. 21st; A-One Cleaners, 2424 E. 9th; Ryan's Cleaners, 1806 E. 13th N.; and Terrie's Cleaners, 2412 E. 17th. Investigation is planned for Summer 2008.

An Expanded Site Assessment (ESA) Work Plan was completed on January 30, 2009. In March 2009, 53 groundwater probes were conducted to further define the PCE plume from the former Ryan's, Terries, A-One, and ABC Cleaners. The next phase will be the completion of a Source Investigation at each of the sites to determine the extent of contamination in the vadose zone..

Numerous attempts to obtain an access agreement from the out-of-state property owners have been unsuccessful. KDHE will explore using legal staff to obtain access.

Site ID: 1870
Has Env Use Control: No
Project code: C208771938
PM Name: DOM, J.
Site Status: Active
District Office: SCDO
Lat/Long: 37.72307 / -97.305662
River Basin: Lower Arkansas
Aquifer Yield: Alluvial
Other Aquifers: Not reported
Parent PC: C208771819
Parent Name: 19TH & GROVE SITE
CERCLIS ID: Not reported
Discovery Date: 07/31/2003
Depth To GW: 21-30 feet
Depth To Bedrock: 31-50 feet
Aquifer Yield: Not reported
GW Flow Direction: S
Acres Affected: Unknown
Waste Present: No
Product Present: No
Program: Drycleaning
Lead Agency: BER - Assessment and Restoration
Contaminants: VOC
Media Act: Ground Water
Media Pot: Soil
Source: Drycleaner
Land Use: Commercial, Residential
Private well: Monitoring
Waste Present: Not reported
Product: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ABC CLEANERS (FMR) (Continued)

S10666086

Receptor Act: Not reported
Receptor Pot: Not reported
Remed Air: Not reported
Remed Soil: Not reported
Remed Water: Not reported
Remedir: Not reported
Alias: Not reported
Eucan Number: Not reported
Date: Not reported
Activity Type: Expanded Site Assessment
Activity Status: Completed
Activity Start Date: 01/01/2009
Activity End Date: 02/24/2010

Narrative: July 2003 -Tetrachloroethylene (PCE) was discovered in ground water near the intersection of 19th Street and Grove Street by an environmental contractor during field work at another site known as the 29th and Grove Site (C2-087-70135). The contractor, The Forrester Group, discovered the PCE while collecting ground water samples to delineate an extensive trichloroethylene (TCE) plume in ground water. The site was referred to KDHE's Site Assessment Program for further evaluation as a newly discovered site.

December 2003 - The Site Assessment Program completed a pre-CERCLIS Site Reconnaissance and Evaluation (SRE) at the site. A records search identified 34 dry cleaners or laundries in the site area. The SRE concluded that the site is large and complex, requiring more evaluation than can be provided by a Pre-CERCLIS survey and recommended CERCLIS entry and completion of a PA/SI consistent with 300.420 of the NCP.

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The PCE released from these facilities occurs in three contaminant plumes in ground water. Two of the plumes are nearly 2 miles in length. The length of the third plume is unknown.

8/12/04 - The site was referred to the Kansas Drycleaning Facilities Release Trust Fund. Site was ranked for funding prioritization,

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ABC CLEANERS (FMR) (Continued)

S106666086

but did not rank high enough for immediate corrective action so the site is currently on the backlog list awaiting future funding. KDHE Dry Cleaning Trust Fund continues to encourage property owners of impacted active and former dry cleaner property to apply to the trust fund, but no application to the Kansas Dry Cleaning Facility Release Trust Fund has been received by KDHE.

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Numerous attempts to obtain an access agreement from the out-of-state property owners have been unsuccessful. KDHE will explore using legal staff to obtain access.

Site ID: 1870
Has Env Use Control: No
Project code: C208771938
PM Name: DOM, J.
Site Status: Active
District Office: SCDO
Lat/Long: 37.72307 / -97.305662
River Basin: Lower Arkansas
Aquifer Yield: Alluvial
Other Aquifers: Not reported
Parent PC: C208771819
Parent Name: 19TH & GROVE SITE
CERCLIS ID: Not reported
Discovery Date: 07/31/2003
Depth To GW: 21-30 feet
Depth To Bedrock: 31-50 feet
Aquifer Yield: Not reported
GW Flow Direction: S
Acres Affected: Unknown
Waste Present: No
Product Present: No
Program: Drycleaning
Lead Agency: BER - Assessment and Restoration
Contaminants: VOC
Media Act: Ground Water
Media Pot: Soil
Source: Drycleaner

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

ABC CLEANERS (FMR) (Continued)

S10666086

length. The length of the third plume is unknown.

8/12/04 - The site was referred to the Kansas Drycleaning Facilities Release Trust Fund. Site was ranked for funding prioritization, but did not rank high enough for immediate corrective action so the site is currently on the backlog list awaiting future funding. KDHE Dry Cleaning Trust Fund continues to encourage property owners of impacted active and former dry cleaner property to apply to the trust fund, but no application to the Kansas Dry Cleaning Facility Release Trust Fund has been received by KDHE.

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20
 ENE
 1/2-1
 0.887 mi.
 4682 ft.

**BEST CLEANERS #2021, 6160 EAST 21ST
 6160 EAST 21ST STREET NORTH
 WICHITA, KS 67208**

**SHWS S108047973
 N/A**

**Relative:
 Lower**

SHWS:
 Site ID: 2024
 Has Env Use Control: No
 Project code: C208772082
 PM Name: DOM, J.
Site Status: Active
 District Office: SCDO
 Lat/Long: 37.723478 / -97.264534
 River Basin: Lower Arkansas
 Aquifer Yield: Alluvial
 Other Aquifers: Not reported
 Parent PC: Not reported
 Parent Name: Not reported
 CERCLIS ID: Not reported
 Discovery Date: 10/26/2005
 Depth To GW: 11-20 feet
 Depth To Bedrock: 51-100 feet
 Aquifer Yield: Not reported

**Actual:
 1395 ft.**

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BEST CLEANERS #2021, 6160 EAST 21ST (Continued)

S108047973

GW Flow Direction: NE
Acres Affected: Unknown
Waste Present: Yes
Product Present: Yes
Program: Drycleaning
Lead Agency: BER - Assessment and Restoration
Contaminants: VOC
Media Act: Ground Water, Soil
Media Pot: Air, Indoor
Source: Drycleaner
Land Use: Commercial
Private well: Monitoring
Waste Present: Other (see Site Narrative)
Product: Chlorinated DNAPL
Receptor Act: Not reported
Receptor Pot: Not reported
Remed Air: Not reported
Remed Soil: Not reported
Remed Water: Long Term Monitoring
Remedir: Not reported
Alias: Not reported
Eucan Number: Not reported
Date: Not reported
Activity Type: Application to Program
Activity Status: Completed
Activity Start Date: 10/26/2005
Activity End Date: 10/26/2005
Narrative: 5/27/05 - An environmental assessment was conducted at Best Cleaners. Five probe boring were conducted in and around the Best Cleaners facility. PCE was detected at 52,000 ug/kg in the soil near the drycleaning machines. DCE was detected in the groundwater at 1,300 ug/L north of the drycleaner machines.
10/27/05 Best Cleaners #2021 application was received and accepted into the Kansas Dry Cleaning Facility Release Trust Fund. The site has been ranked for prioritization and is currently on the backlog list awaiting funding from the Trust Fund. Evidence of DNAPL in the vadose zone is noted on a boring log. The presence of off-site contamination has not been verified, but off-site contamination is anticipated.
7/1/06 - Site received funding to initiate an Expanded Site Assessment.
10/26/06- Site reconnaissance conducted at Best Cleaners, 6160 E. 21st N, at 13:00. KDHE, property management, operating manager, and Terracon representatives were present. Currently a drycleaner (Best Cleaners) since approximately 1993; before Best it was ABC Cleaners. Located two drycleaning machines in northeast portion of building. Separator water is "misted" off. Some separator water in buckets in boiler room due to broken "mistor". Waste containment was located in the northeast portion of the building due north of the machines. PCE is the solvent used in the machines. It is transported directly from the trucks to the machines. The building has two floor drains: one in the boiler room and one behind the dryers in the most northeast corner of the building.
6/18/07 - Terracon drilled four monitoring wells to assess the groundwater contamination associated with the Best Cleaners facility. Monitoring wells were drilled to bedrock. Depths ranged from 55 to

MAP FINDINGS

BEST CLEANERS #2021, 6160 EAST 21ST (Continued)

S108047973

65 feet below ground surface. Soil was collected and evaluated for contamination at 5-foot intervals from each boring. DCE was detected at 138 ug/kg in the soil.

7/18/07- 7/19/07 - Four monitoring wells were sampled using low-flow sampling equipment. Groundwater samples were collected from three intervals from each monitoring well and analyzed for halogenated hydrocarbons. Contaminants detected above MCL included TCE, PCE, and 1,1 DCE. The highest concentration of TCE was 10.7 ug/L. The highest concentration of PCE was 7.6 ug/L. The highest concentration of 1,1 DCE was 10.4 ug/L.

KDHE is continuing to monitor the wells on a semiannual basis. The results will be used to further characterize the contamination and evaluate the trends at the site. The next phase at the site will depend on the monitoring results. The most recent monitoring event occurred in October, 2012. The results from that event are still pending as of December, 2012; however, the results from the May 2012 monitoring event showed that all concentrations were below MCL. Groundwater monitoring last took place in October 2013.

Site ID:	2024
Has Env Use Control:	No
Project code:	C208772082
PM Name:	DOM, J.
Site Status:	Active
District Office:	SCDO
Lat/Long:	37.723478 / -97.264534
River Basin:	Lower Arkansas
Aquifer Yield:	Alluvial
Other Aquifers:	Not reported
Parent PC:	Not reported
Parent Name:	Not reported
CERCLIS ID:	Not reported
Discovery Date:	10/26/2005
Depth To GW:	11-20 feet
Depth To Bedrock:	51-100 feet
Aquifer Yield:	Not reported
GW Flow Direction:	NE
Acres Affected:	Unknown
Waste Present:	Yes
Product Present:	Yes
Program:	Drycleaning
Lead Agency:	BER - Assessment and Restoration
Contaminants:	VOC
Media Act:	Ground Water, Soil
Media Pot:	Air, Indoor
Source:	Drycleaner
Land Use:	Commercial
Private well:	Monitoring
Waste Present:	Other (see Site Narrative)
Product:	Chlorinated DNAPL
Receptor Act:	Not reported
Receptor Pot:	Not reported
Remed Air:	Not reported
Remed Soil:	Not reported
Remed Water:	Long Term Monitoring
Remedir:	Not reported

MAP FINDINGS

BEST CLEANERS #2021, 6160 EAST 21ST (Continued)

S108047973

Alias: Not reported
Eucan Number: Not reported
Date: Not reported
Activity Type: Phase II Assessment
Activity Status: Completed
Activity Start Date: 05/27/2005
Activity End Date: 10/25/2005

Narrative: 5/27/05 - An environmental assessment was conducted at Best Cleaners.

Five probe boring were conducted in and around the Best Cleaners facility. PCE was detected at 52,000 ug/kg in the soil near the drycleaning machines. DCE was detected in the groundwater at 1,300 ug/L north of the drycleaner machines.

10/27/05 Best Cleaners #2021 application was received and accepted into the Kansas Dry Cleaning Facility Release Trust Fund. The site has been ranked for prioritization and is currently on the backlog list awaiting funding from the Trust Fund. Evidence of DNAPL in the vadose zone is noted on a boring log. The presence of off-site contamination has not been verified, but off-site contamination is anticipated.

7/1/06 - Site received funding to initiate an Expanded Site Assessment.

10/26/06- Site reconnaissance conducted at Best Cleaners, 6160 E. 21st N, at 13:00. KDHE, property management, operating manager, and Terracon representatives were present. Currently a drycleaner (Best Cleaners) since approximately 1993; before Best it was ABC Cleaners. Located two drycleaning machines in northeast portion of building. Separator water is "misted" off. Some separator water in buckets in boiler room due to broken "mistor". Waste containment was located in the northeast portion of the building due north of the machines. PCE is the solvent used in the machines. It is transported directly from the trucks to the machines. The building has two floor drains: one in the boiler room and one behind the dryers in the most northeast corner of the building.

6/18/07 - Terracon drilled four monitoring wells to assess the groundwater contamination associated with the Best Cleaners facility. Monitoring wells were drilled to bedrock. Depths ranged from 55 to 65 feet below ground surface. Soil was collected and evaluated for contamination at 5-foot intervals from each boring. DCE was detected at 138 ug/kg in the soil.

7/18/07- 7/19/07 - Four monitoring wells were sampled using low-flow sampling equipment. Groundwater samples were collected from three intervals from each monitoring well and analyzed for halogenated hydrocarbons. Contaminants detected above MCL included TCE, PCE, and 1,1 DCE. The highest concentration of TCE was 10.7 ug/L. The highest concentration of PCE was 7.6 ug/L. The highest concentration of 1,1 DCE was 10.4 ug/L.

KDHE is continuing to monitor the wells on a semiannual basis. The results will be used to further characterize the contamination and evaluate the trends at the site. The next phase at the site will depend on the monitoring results. The most recent monitoring event occurred in October, 2012. The results from that event are still pending as of December, 2012; however, the results from the May 2012 monitoring event showed that all concentrations were below MCL. Groundwater monitoring last took place in October 2013.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BEST CLEANERS #2021, 6160 EAST 21ST (Continued)

S108047973

Site ID: 2024
Has Env Use Control: No
Project code: C208772082
PM Name: DOM, J.
Site Status: Active
District Office: SCDO
Lat/Long: 37.723478 / -97.264534
River Basin: Lower Arkansas
Aquifer Yield: Alluvial
Other Aquifers: Not reported
Parent PC: Not reported
Parent Name: Not reported
CERCLIS ID: Not reported
Discovery Date: 10/26/2005
Depth To GW: 11-20 feet
Depth To Bedrock: 51-100 feet
Aquifer Yield: Not reported
GW Flow Direction: NE
Acres Affected: Unknown
Waste Present: Yes
Product Present: Yes
Program: Drycleaning
Lead Agency: BER - Assessment and Restoration
Contaminants: VOC
Media Act: Ground Water, Soil
Media Pot: Air, Indoor
Source: Drycleaner
Land Use: Commercial
Private well: Monitoring
Waste Present: Other (see Site Narrative)
Product: Chlorinated DNAPL
Receptor Act: Not reported
Receptor Pot: Not reported
Remed Air: Not reported
Remed Soil: Not reported
Remed Water: Long Term Monitoring
Remedir: Not reported
Alias: Not reported
Eucan Number: Not reported
Date: Not reported
Activity Type: Expanded Site Assessment
Activity Status: Completed
Activity Start Date: 07/01/2006
Activity End Date: 12/12/2007
Narrative: 5/27/05 - An environmental assessment was conducted at Best Cleaners. Five probe boring were conducted in and around the Best Cleaners facility. PCE was detected at 52,000 ug/kg in the soil near the drycleaning machines. DCE was detected in the groundwater at 1,300 ug/L north of the drycleaner machines.
10/27/05 Best Cleaners #2021 application was received and accepted into the Kansas Dry Cleaning Facility Release Trust Fund. The site has been ranked for prioritization and is currently on the backlog list awaiting funding from the Trust Fund. Evidence of DNAPL in the vadose zone is noted on a boring log. The presence of off-site contamination has not been verified, but off-site contamination is anticipated.
7/1/06 - Site received funding to initiate an Expanded Site Assess

MAP FINDINGS

BEST CLEANERS #2021, 6160 EAST 21ST (Continued)

S108047973

ment.

10/26/06- Site reconnaissance conducted at Best Cleaners, 6160 E. 21st N, at 13:00. KDHE, property mangement, operating manager, and Terracon representatives were present. Currently a drycleaner (Best Cleaners) since approximately 1993; before Best it was ABC Cleaners. Located two drycleaning machines in northeast portion of building. Seperator water is "misted" off. Some seperator water in buckets in boiler room due to broken "mistor". Waste containment was located in the northeast portion of the building due north of the machines. PCE is the solvent used in the machines. It is transported directly from the trucks to the machines. The building has two floor drains: one in the boiler room and one behind the dryers in the most northeast corner of the building.

6/18/07 - Terracon drilled four monitoring wells to assess the gr oundwater contamination associated with the Best Cleaners facility. Monitoring wells were drilled to bedrock. Depths ranged from 55 to 65 feet below ground surface. Soil was collected and evaluated for contamination at 5-foot intervals from each boring. DCE was detected at 138 ug/kg in the soil.

7/18/07- 7/19/07 - Four monitoring wells were sampled using low-fl ow sampling equipment. Groundwater samples were collected from three intervals from each monitoring well and analyzed for halogenated hydrocarbons. Contaminants detected above MCL included TCE, PCE, and 1,1 DCE. The highest concentration of TCE was 10.7 ug/L. The highest concentration of PCE was 7.6 ug/L. The highest concentration of 1,1 DCE was 10.4 ug/L.

KDHE is continuing to monitor the wells on a semiannual basis. T he results will be used to further characterize the contamination and evaluate the trends at the site. The next phase at the site will depend on the monitoring results. The most recent monitoring event occurred in October, 2012. The results from that event are still pending as of December, 2012; however, the results from the May 2012 monitoring event showed that all concentrations were below MCL. Groundwater monitoring last took place in October 2013.

Site ID: 2024
 Has Env Use Control: No
 Project code: C208772082
 PM Name: DOM, J.
Site Status: Active
 District Office: SCDO
 Lat/Long: 37.723478 / -97.264534
 River Basin: Lower Arkansas
 Aquifer Yield: Alluvial
 Other Aquifers: Not reported
 Parent PC: Not reported
 Parent Name: Not reported
 CERCLIS ID: Not reported
 Discovery Date: 10/26/2005
 Depth To GW: 11-20 feet
 Depth To Bedrock: 51-100 feet
 Aquifer Yield: Not reported
 GW Flow Direction: NE
 Acres Affected: Unknown
 Waste Present: Yes

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BEST CLEANERS #2021, 6160 EAST 21ST (Continued)

S108047973

Product Present: Yes
Program: Drycleaning
Lead Agency: BER - Assessment and Restoration
Contaminants: VOC
Media Act: Ground Water, Soil
Media Pot: Air, Indoor
Source: Drycleaner
Land Use: Commercial
Private well: Monitoring
Waste Present: Other (see Site Narrative)
Product: Chlorinated DNAPL
Receptor Act: Not reported
Receptor Pot: Not reported
Remed Air: Not reported
Remed Soil: Not reported
Remed Water: Long Term Monitoring
Remedir: Not reported
Alias: Not reported
Eucan Number: Not reported
Date: Not reported
Activity Type: Long Term Monitoring
Activity Status: Underway
Activity Start Date: 01/01/2008
Activity End Date: Not reported
Narrative: 5/27/05 - An environmental assessment was conducted at Best Cleaners. Five probe boring were conducted in and around the Best Cleaners facility. PCE was detected at 52,000 ug/kg in the soil near the drycleaning machines. DCE was detected in the groundwater at 1,300 ug/L north of the drycleaner machines.
10/27/05 Best Cleaners #2021 application was received and accepted into the Kansas Dry Cleaning Facility Release Trust Fund. The site has been ranked for prioritization and is currently on the backlog list awaiting funding from the Trust Fund. Evidence of DNAPL in the vadose zone is noted on a boring log. The presence of off-site contamination has not been verified, but off-site contamination is anticipated.
7/1/06 - Site received funding to initiate an Expanded Site Assessment.
10/26/06- Site reconnaissance conducted at Best Cleaners, 6160 E. 21st N, at 13:00. KDHE, property management, operating manager, and Terracon representatives were present. Currently a drycleaner (Best Cleaners) since approximately 1993; before Best it was ABC Cleaners. Located two drycleaning machines in northeast portion of building. Separator water is "misted" off. Some separator water in buckets in boiler room due to broken "mistor". Waste containment was located in the northeast portion of the building due north of the machines. PCE is the solvent used in the machines. It is transported directly from the trucks to the machines. The building has two floor drains: one in the boiler room and one behind the dryers in the most northeast corner of the building.
6/18/07 - Terracon drilled four monitoring wells to assess the groundwater contamination associated with the Best Cleaners facility. Monitoring wells were drilled to bedrock. Depths ranged from 55 to 65 feet below ground surface. Soil was collected and evaluated for contamination at 5-foot intervals from each boring. DCE was detected at 138 ug/kg in the soil.

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

BEST CLEANERS #2021, 6160 EAST 21ST (Continued)

S108047973

7/18/07- 7/19/07 - Four monitoring wells were sampled using low-flow sampling equipment. Groundwater samples were collected from three intervals from each monitoring well and analyzed for halogenated hydrocarbons. Contaminants detected above MCL included TCE, PCE, and 1,1 DCE. The highest concentration of TCE was 10.7 ug/L. The highest concentration of PCE was 7.6 ug/L. The highest concentration of 1,1 DCE was 10.4 ug/L.

KDHE is continuing to monitor the wells on a semiannual basis. The results will be used to further characterize the contamination and evaluate the trends at the site. The next phase at the site will depend on the monitoring results. The most recent monitoring event occurred in October, 2012. The results from that event are still pending as of December, 2012; however, the results from the May 2012 monitoring event showed that all concentrations were below MCL. Groundwater monitoring last took place in October 2013.

E21
West
1/2-1
0.908 mi.
4795 ft.

21ST STREET CORRIDOR BTA - #4
ALONG 21ST ST BETWEEN PRINCE & GROVE
WICHITA, KS

SHWS **S108631413**
BROWNFIELDS **N/A**

Site 2 of 2 in cluster E

Relative:
Lower

SHWS:
 Site ID: 1940
 Has Env Use Control: No
 Project code: C208772003
 PM Name: BER - Assessment and Rest
Site Status: Resolved
 District Office: SCDO
 Lat/Long: 37.72217 / -97.306636
 River Basin: Lower Arkansas
 Aquifer Yield: Alluvial
 Other Aquifers: Not reported
 Parent PC: Not reported
 Parent Name: Not reported
 CERCLIS ID: Not reported
 Discovery Date: 01/31/2005
 Depth To GW: 11-20 feet
 Depth To Bedrock: 51-100 feet
 Aquifer Yield: Not reported
 GW Flow Direction: Not reported
 Acres Affected: Unknown
 Waste Present: No
 Product Present: No
 Program: Brownfields
 Lead Agency: BER - Assessment and Restoration
 Contaminants: Not reported
 Media Act: Not reported
 Media Pot: Not reported
 Source: Not reported
 Land Use: Not reported
 Private well: Not reported
 Waste Present: Not reported
 Product: Not reported
 Receptor Act: Not reported
 Receptor Pot: Not reported
 Remed Air: Not reported

Actual:
1329 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

21ST STREET CORRIDOR BTA - #4 (Continued)

S108631413

Remed Soil: Not reported
Remed Water: Not reported
Remedir: Not reported
Alias: Not reported
Eucan Number: Not reported
Date: Not reported
Activity Type: Resolved
Activity Status: Completed
Activity Start Date: Not reported
Activity End Date: 05/10/2007

Narrative: The City of Wichita applied on January 31, 2005 to have KDHE conduct a Phase I and Phase II Brownfields Targeted assessment at 23 parcels located along 21st Street. The city has designated this area as a redevelopment area in Wichita.

The Kansas Department of Health and Environment (KDHE) conducted a Phase I Environmental Site Assessment at parcel 445721 within the Wichita 21st Street Corridor- Area #4 (Property) in Wichita, Kansas. The Phase I assessments were conducted for the city to evaluate a property they are proposing for redevelopment.

Recognized environmental conditions (RECs) associated with the Property were identified as the following: It is unknown if upgradient LUST sites have impacted ground water beneath the Property with any petroleum products.

Based on information collected during the Phase I report, it appears that the All Appropriate Inquiry (AAI) as a prospective purchaser has been completed with no significant data gaps. After review of the upgradient KDHE LUST Site files it was determined that it is unlikely the BTA Property has been impacted, therefore, no additional environmental response is necessary.

The Kansas Department of Health and Environment (KDHE) conducted a Phase I Environmental Site Assessment at parcels 158961-158969, 158971, 158972 and 158982-158991 within the Wichita 21st Street Corridor- Area #4 (Property) in Wichita, Kansas. The Phase I assessments were conducted for the city to evaluate a property they are proposing for redevelopment.

Recognized environmental conditions (RECs) associated with the Property were identified as the following: It is unknown if upgradient drycleaning or LUST sites have impacted soil and/or ground water beneath the Property with any petroleum products.

Based on information collected during the Phase I report, it appears that the All Appropriate Inquiry (AAI) as a prospective purchaser has been completed with no significant data gaps. After review of the upgradient KDHE LUST Site files it was determined that it is unlikely the BTA Property has been impacted, therefore, no additional environmental response is necessary. Contamination associated with the upgradient drycleaning site is being addressed through KDHE Drycleaner's Trust Fund.

BROWNFIELDS:

Site ID: 1940
Project code: C208772003
PM Name: BER - Assessment and Rest
Site Status: Resolved

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

21ST STREET CORRIDOR BTA - #4 (Continued)

S108631413

Program: Brownfields

Count: 10 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
SEDGWICK COUNTY	S109088868	RESOURCE RECOVERY MANAGEMENT, LLC.	WEST OF RIDGE ROAD AND NORTH O		SWF/LF
WICHITA	S106423141	21ST & MAPLEWOOD CONTAMINATION, WI	21ST & MAPLEWOOD	67214	LUST
WICHITA	S114005213	31ST AND CLIFTON ERA	31ST STREET SOUTH AND CLIFTON		SHWS
WICHITA	S116549976	WASTE DISPOSAL L.L.C. TRANSFER STA	55TH ST S. & HOOVER RD (NE COR		SWF/LF
WICHITA	S115559562	WSU	1845 N. FAIRMONT		RGA LUST
WICHITA	S115559560	WSU	1845 N FAIRMONT		RGA LUST
WICHITA	S115559556	WSU, CENTRAL POWER PLANT	1845 FAIRMOUNT		RGA LUST
WICHITA	S115562210	VIA CHRISTI, ST JOSEPH CAMPUS	3600 E HARRY		RGA LUST
WICHITA	S105285253	UNIVERSAL LUBRICANTS, INC.	2824 N. OHIO	67219	SWF/LF, SPILLS
WICHITA	1004701779	DOUGS AUTO & TRUCK RPR	6007 N OLIVER RR 3	67220	RCRA NonGen / NLR, FINDS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: N/A
Date Made Active in Reports: 01/28/2014	Last EDR Contact: 09/19/2014
Number of Days to Update: 78	Next Scheduled EDR Contact: 10/20/2014
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: N/A
Date Made Active in Reports: 01/28/2014	Last EDR Contact: 09/19/2014
Number of Days to Update: 78	Next Scheduled EDR Contact: 10/20/2014
	Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/15/2011
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: N/A
Date Made Active in Reports: 01/28/2014	Last EDR Contact: 09/19/2014
Number of Days to Update: 78	Next Scheduled EDR Contact: 10/20/2014
	Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: 703-412-9810
Date Made Active in Reports: 02/13/2014	Last EDR Contact: 08/28/2014
Number of Days to Update: 94	Next Scheduled EDR Contact: 12/08/2014
	Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 04/01/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/08/2014	Telephone: 703-603-8704
Date Made Active in Reports: 08/22/2014	Last EDR Contact: 07/08/2014
Number of Days to Update: 45	Next Scheduled EDR Contact: 10/20/2014
	Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: 703-412-9810
Date Made Active in Reports: 02/13/2014	Last EDR Contact: 08/28/2014
Number of Days to Update: 94	Next Scheduled EDR Contact: 12/08/2014
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/10/2014
Date Data Arrived at EDR: 07/02/2014
Date Made Active in Reports: 09/18/2014
Number of Days to Update: 78

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 10/01/2014
Next Scheduled EDR Contact: 01/12/2015
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/10/2014
Date Data Arrived at EDR: 07/02/2014
Date Made Active in Reports: 09/18/2014
Number of Days to Update: 78

Source: Environmental Protection Agency
Telephone: 913-551-7003
Last EDR Contact: 10/01/2014
Next Scheduled EDR Contact: 01/12/2015
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/10/2014
Date Data Arrived at EDR: 07/02/2014
Date Made Active in Reports: 09/18/2014
Number of Days to Update: 78

Source: Environmental Protection Agency
Telephone: 913-551-7003
Last EDR Contact: 10/01/2014
Next Scheduled EDR Contact: 01/12/2015
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 06/10/2014
Date Data Arrived at EDR: 07/02/2014
Date Made Active in Reports: 09/18/2014
Number of Days to Update: 78

Source: Environmental Protection Agency
Telephone: 913-551-7003
Last EDR Contact: 10/01/2014
Next Scheduled EDR Contact: 01/12/2015
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/10/2014
Date Data Arrived at EDR: 07/02/2014
Date Made Active in Reports: 09/18/2014
Number of Days to Update: 78

Source: Environmental Protection Agency
Telephone: 913-551-7003
Last EDR Contact: 10/01/2014
Next Scheduled EDR Contact: 01/12/2015
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 06/23/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/15/2014	Telephone: 703-603-0695
Date Made Active in Reports: 09/18/2014	Last EDR Contact: 09/08/2014
Number of Days to Update: 65	Next Scheduled EDR Contact: 12/22/2014
	Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 06/23/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/15/2014	Telephone: 703-603-0695
Date Made Active in Reports: 09/18/2014	Last EDR Contact: 09/08/2014
Number of Days to Update: 65	Next Scheduled EDR Contact: 12/22/2014
	Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/28/2014	Source: Department of the Navy
Date Data Arrived at EDR: 05/30/2014	Telephone: 843-820-7326
Date Made Active in Reports: 06/17/2014	Last EDR Contact: 08/14/2014
Number of Days to Update: 18	Next Scheduled EDR Contact: 12/01/2014
	Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/30/2013	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 10/01/2013	Telephone: 202-267-2180
Date Made Active in Reports: 12/06/2013	Last EDR Contact: 09/30/2014
Number of Days to Update: 66	Next Scheduled EDR Contact: 01/12/2015
	Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: Identified Sites List

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 08/04/2014	Source: Department of Health and Environment
Date Data Arrived at EDR: 08/08/2014	Telephone: 785-296-1660
Date Made Active in Reports: 08/26/2014	Last EDR Contact: 07/14/2014
Number of Days to Update: 18	Next Scheduled EDR Contact: 10/27/2014
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

SWF/LF: Directory of Sanitary Landfills, Solid Waste Transfer Stations and Collector in Kansas Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 07/22/2014	Source: Department of Health and Environment
Date Data Arrived at EDR: 07/22/2014	Telephone: 785-296-1590
Date Made Active in Reports: 08/25/2014	Last EDR Contact: 07/18/2014
Number of Days to Update: 34	Next Scheduled EDR Contact: 11/03/2014
	Data Release Frequency: Annually

State and tribal leaking storage tank lists

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

Date of Government Version: 07/28/2014	Source: Department of Health and Environment
Date Data Arrived at EDR: 08/01/2014	Telephone: 785-296-1685
Date Made Active in Reports: 08/26/2014	Last EDR Contact: 07/07/2014
Number of Days to Update: 25	Next Scheduled EDR Contact: 10/20/2014
	Data Release Frequency: Quarterly

LAST: Leaking Aboveground Storage Tanks
Leaking aboveground storage tank site locations.

Date of Government Version: 07/28/2014	Source: Department of Health & Environment
Date Data Arrived at EDR: 08/01/2014	Telephone: 785-296-1685
Date Made Active in Reports: 08/26/2014	Last EDR Contact: 07/07/2014
Number of Days to Update: 25	Next Scheduled EDR Contact: 10/20/2014
	Data Release Frequency: Quarterly

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

Date of Government Version: 05/20/2014	Source: EPA Region 10
Date Data Arrived at EDR: 06/10/2014	Telephone: 206-553-2857
Date Made Active in Reports: 08/22/2014	Last EDR Contact: 04/28/2014
Number of Days to Update: 73	Next Scheduled EDR Contact: 11/10/2014
	Data Release Frequency: Quarterly

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

Date of Government Version: 08/13/2014	Source: EPA Region 8
Date Data Arrived at EDR: 08/15/2014	Telephone: 303-312-6271
Date Made Active in Reports: 08/22/2014	Last EDR Contact: 07/22/2014
Number of Days to Update: 7	Next Scheduled EDR Contact: 11/10/2014
	Data Release Frequency: Quarterly

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

Date of Government Version: 08/04/2014	Source: EPA, Region 5
Date Data Arrived at EDR: 08/05/2014	Telephone: 312-886-7439
Date Made Active in Reports: 08/22/2014	Last EDR Contact: 04/28/2014
Number of Days to Update: 17	Next Scheduled EDR Contact: 11/10/2014
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

Date of Government Version: 03/01/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2013	Telephone: 415-972-3372
Date Made Active in Reports: 04/12/2013	Last EDR Contact: 07/22/2014
Number of Days to Update: 42	Next Scheduled EDR Contact: 11/10/2014
	Data Release Frequency: Quarterly

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 02/01/2013	Source: EPA Region 1
Date Data Arrived at EDR: 05/01/2013	Telephone: 617-918-1313
Date Made Active in Reports: 11/01/2013	Last EDR Contact: 08/01/2014
Number of Days to Update: 184	Next Scheduled EDR Contact: 11/10/2014
	Data Release Frequency: Varies

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

Date of Government Version: 07/30/2014	Source: EPA Region 4
Date Data Arrived at EDR: 08/12/2014	Telephone: 404-562-8677
Date Made Active in Reports: 08/22/2014	Last EDR Contact: 04/22/2014
Number of Days to Update: 10	Next Scheduled EDR Contact: 08/11/2014
	Data Release Frequency: Semi-Annually

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

Date of Government Version: 05/14/2014	Source: EPA Region 6
Date Data Arrived at EDR: 05/15/2014	Telephone: 214-665-6597
Date Made Active in Reports: 07/15/2014	Last EDR Contact: 07/22/2014
Number of Days to Update: 61	Next Scheduled EDR Contact: 11/20/2014
	Data Release Frequency: Varies

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

Date of Government Version: 05/22/2014	Source: EPA Region 7
Date Data Arrived at EDR: 08/22/2014	Telephone: 913-551-7003
Date Made Active in Reports: 09/18/2014	Last EDR Contact: 04/28/2014
Number of Days to Update: 27	Next Scheduled EDR Contact: 11/10/2014
	Data Release Frequency: Varies

State and tribal registered storage tank lists

UST: Underground Storage Tank Data
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 07/28/2014	Source: Department of Health and Environment
Date Data Arrived at EDR: 08/01/2014	Telephone: 785-296-1685
Date Made Active in Reports: 08/25/2014	Last EDR Contact: 07/07/2014
Number of Days to Update: 24	Next Scheduled EDR Contact: 10/20/2014
	Data Release Frequency: Quarterly

AST: Aboveground Storage Tank Data
Registered Aboveground Storage Tanks.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/28/2014
Date Data Arrived at EDR: 08/01/2014
Date Made Active in Reports: 08/25/2014
Number of Days to Update: 24

Source: Department of Health and Environment
Telephone: 785-296-1685
Last EDR Contact: 07/07/2014
Next Scheduled EDR Contact: 10/20/2014
Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land

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

Date of Government Version: 02/01/2013
Date Data Arrived at EDR: 05/01/2013
Date Made Active in Reports: 01/27/2014
Number of Days to Update: 271

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/01/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

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

Date of Government Version: 07/30/2014
Date Data Arrived at EDR: 08/12/2014
Date Made Active in Reports: 08/22/2014
Number of Days to Update: 10

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 04/22/2014
Next Scheduled EDR Contact: 08/11/2014
Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

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

Date of Government Version: 08/04/2014
Date Data Arrived at EDR: 08/05/2014
Date Made Active in Reports: 08/22/2014
Number of Days to Update: 17

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 04/28/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

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

Date of Government Version: 07/25/2014
Date Data Arrived at EDR: 07/28/2014
Date Made Active in Reports: 08/22/2014
Number of Days to Update: 25

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 07/22/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Semi-Annually

INDIAN UST R7: Underground Storage Tanks on Indian Land

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

Date of Government Version: 08/20/2014
Date Data Arrived at EDR: 08/22/2014
Date Made Active in Reports: 09/18/2014
Number of Days to Update: 27

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/28/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/13/2014	Source: EPA Region 8
Date Data Arrived at EDR: 08/15/2014	Telephone: 303-312-6137
Date Made Active in Reports: 08/22/2014	Last EDR Contact: 07/22/2014
Number of Days to Update: 7	Next Scheduled EDR Contact: 11/10/2014
	Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land

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

Date of Government Version: 05/20/2014	Source: EPA Region 10
Date Data Arrived at EDR: 06/10/2014	Telephone: 206-553-2857
Date Made Active in Reports: 08/15/2014	Last EDR Contact: 07/22/2014
Number of Days to Update: 66	Next Scheduled EDR Contact: 11/10/2014
	Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land

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

Date of Government Version: 08/14/2014	Source: EPA Region 9
Date Data Arrived at EDR: 08/15/2014	Telephone: 415-972-3368
Date Made Active in Reports: 08/22/2014	Last EDR Contact: 07/22/2014
Number of Days to Update: 7	Next Scheduled EDR Contact: 11/10/2014
	Data Release Frequency: Quarterly

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010	Source: FEMA
Date Data Arrived at EDR: 02/16/2010	Telephone: 202-646-5797
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 07/08/2014
Number of Days to Update: 55	Next Scheduled EDR Contact: 10/27/2014
	Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

INST CONTROL: Institutional Controls Information

Sites that have institutional control information entered into the Identified Sites List database.

Date of Government Version: 08/20/2014	Source: Department of Health & Environment
Date Data Arrived at EDR: 08/22/2014	Telephone: 785-296-8049
Date Made Active in Reports: 09/10/2014	Last EDR Contact: 04/11/2014
Number of Days to Update: 19	Next Scheduled EDR Contact: 07/28/2014
	Data Release Frequency: Quarterly

State and tribal voluntary cleanup sites

VCP: Identified Sites List

Sites included in the Identified Sites List that are identified as Voluntary Cleanup sites.

Date of Government Version: 08/04/2014	Source: Department of Health & Environment
Date Data Arrived at EDR: 08/08/2014	Telephone: 785-296-8049
Date Made Active in Reports: 08/26/2014	Last EDR Contact: 07/14/2014
Number of Days to Update: 18	Next Scheduled EDR Contact: 10/27/2014
	Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/30/2014
Date Data Arrived at EDR: 07/01/2014
Date Made Active in Reports: 08/15/2014
Number of Days to Update: 45

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 10/01/2014
Next Scheduled EDR Contact: 01/12/2015
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Listing

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

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Identified Sites List

Sites included in the Identified Sites List that are identified as Brownfields sites.

Date of Government Version: 08/04/2014
Date Data Arrived at EDR: 08/08/2014
Date Made Active in Reports: 08/26/2014
Number of Days to Update: 18

Source: Department of Health & Environment
Telephone: 785-296-8049
Last EDR Contact: 07/14/2014
Next Scheduled EDR Contact: 10/27/2014
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 07/03/2014
Date Made Active in Reports: 07/28/2014
Number of Days to Update: 25

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 09/23/2014
Next Scheduled EDR Contact: 01/05/2015
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 07/25/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: No Update Planned

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 08/01/2014
Next Scheduled EDR Contact: 11/17/2014
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 05/28/2014
Date Data Arrived at EDR: 06/20/2014
Date Made Active in Reports: 07/15/2014
Number of Days to Update: 25

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 09/03/2014
Next Scheduled EDR Contact: 12/15/2014
Data Release Frequency: Quarterly

AOCONCERN: Area of Concern

The City of Wichita has taken the lead for the investigation and remediation efforts with the Kansas Department of Health & Environment, Bureau of Remediation. The primary contaminants of concern are chlorinated solvents and their degradation products.

Date of Government Version: N/A
Date Data Arrived at EDR: 04/25/2002
Date Made Active in Reports: 06/28/2002
Number of Days to Update: 64

Source: Department of Environmental Health
Telephone: 315-268-8351
Last EDR Contact: 03/13/2007
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CDL: Clandestine Laboratory Data

Clandestine meth lab location

Date of Government Version: 09/29/2009
Date Data Arrived at EDR: 10/02/2009
Date Made Active in Reports: 10/20/2009
Number of Days to Update: 18

Source: Department of Health and Environment
Telephone: 785-368-7301
Last EDR Contact: 08/14/2014
Next Scheduled EDR Contact: 12/01/2014
Data Release Frequency: Varies

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/28/2014
Date Data Arrived at EDR: 06/20/2014
Date Made Active in Reports: 07/15/2014
Number of Days to Update: 25

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 09/03/2014
Next Scheduled EDR Contact: 12/15/2014
Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014
Date Data Arrived at EDR: 03/18/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 07/22/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

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

Date of Government Version: 06/30/2014
Date Data Arrived at EDR: 07/01/2014
Date Made Active in Reports: 09/18/2014
Number of Days to Update: 79

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 10/01/2014
Next Scheduled EDR Contact: 01/12/2015
Data Release Frequency: Annually

SPILLS: Kansas Spills Database

All spills reported under the regulatory authority of the Department of Health & Environment and the Kansas Corporation Commission.

Date of Government Version: 08/04/2014
Date Data Arrived at EDR: 08/08/2014
Date Made Active in Reports: 09/17/2014
Number of Days to Update: 40

Source: Department of Health and Environment
Telephone: 785-296-1660
Last EDR Contact: 07/14/2014
Next Scheduled EDR Contact: 10/27/2014
Data Release Frequency: Semi-Annually

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 06/10/2014
Date Data Arrived at EDR: 07/02/2014
Date Made Active in Reports: 09/18/2014
Number of Days to Update: 78

Source: Environmental Protection Agency
Telephone: 913-551-7003
Last EDR Contact: 10/01/2014
Next Scheduled EDR Contact: 01/12/2015
Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transportation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 08/06/2014
Next Scheduled EDR Contact: 11/17/2014
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 11/10/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 07/18/2014
Number of Days to Update: 62	Next Scheduled EDR Contact: 10/27/2014
	Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 06/06/2014	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 09/10/2014	Telephone: 202-528-4285
Date Made Active in Reports: 09/18/2014	Last EDR Contact: 09/10/2014
Number of Days to Update: 8	Next Scheduled EDR Contact: 12/22/2014
	Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2013	Source: Department of Justice, Consent Decree Library
Date Data Arrived at EDR: 01/24/2014	Telephone: Varies
Date Made Active in Reports: 02/24/2014	Last EDR Contact: 09/30/2014
Number of Days to Update: 31	Next Scheduled EDR Contact: 01/12/2015
	Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013	Source: EPA
Date Data Arrived at EDR: 12/12/2013	Telephone: 703-416-0223
Date Made Active in Reports: 02/24/2014	Last EDR Contact: 09/09/2014
Number of Days to Update: 74	Next Scheduled EDR Contact: 12/22/2014
	Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010	Source: Department of Energy
Date Data Arrived at EDR: 10/07/2011	Telephone: 505-845-0011
Date Made Active in Reports: 03/01/2012	Last EDR Contact: 08/20/2014
Number of Days to Update: 146	Next Scheduled EDR Contact: 12/08/2014
	Data Release Frequency: Varies

US MINES: Mines Master Index File

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

Date of Government Version: 01/30/2014	Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 03/05/2014	Telephone: 303-231-5959
Date Made Active in Reports: 07/15/2014	Last EDR Contact: 09/04/2014
Number of Days to Update: 132	Next Scheduled EDR Contact: 12/15/2014
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2011	Source: EPA
Date Data Arrived at EDR: 07/31/2013	Telephone: 202-566-0250
Date Made Active in Reports: 09/13/2013	Last EDR Contact: 08/29/2014
Number of Days to Update: 44	Next Scheduled EDR Contact: 12/08/2014
	Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2006	Source: EPA
Date Data Arrived at EDR: 09/29/2010	Telephone: 202-260-5521
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 09/26/2014
Number of Days to Update: 64	Next Scheduled EDR Contact: 01/05/2015
	Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/19/2014
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/08/2014
	Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

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

Date of Government Version: 04/09/2009	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/19/2014
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/08/2014
	Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2007
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 07/22/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 05/06/2014
Date Data Arrived at EDR: 05/16/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 10/09/2014
Next Scheduled EDR Contact: 10/27/2014
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 06/01/2013
Date Data Arrived at EDR: 07/17/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 107

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 07/18/2014
Next Scheduled EDR Contact: 10/27/2014
Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/22/2013
Date Data Arrived at EDR: 08/02/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 91

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 09/08/2014
Next Scheduled EDR Contact: 12/22/2014
Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/07/2014
Date Data Arrived at EDR: 07/10/2014
Date Made Active in Reports: 07/28/2014
Number of Days to Update: 18

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 07/10/2014
Next Scheduled EDR Contact: 10/20/2014
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 11/18/2013	Source: EPA
Date Data Arrived at EDR: 02/27/2014	Telephone: (913) 551-7003
Date Made Active in Reports: 03/12/2014	Last EDR Contact: 09/10/2014
Number of Days to Update: 13	Next Scheduled EDR Contact: 12/22/2014
	Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 04/01/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/23/2014	Telephone: 202-564-8600
Date Made Active in Reports: 07/28/2014	Last EDR Contact: 07/22/2014
Number of Days to Update: 66	Next Scheduled EDR Contact: 11/10/2014
	Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2011	Source: EPA/NTIS
Date Data Arrived at EDR: 02/26/2013	Telephone: 800-424-9346
Date Made Active in Reports: 04/19/2013	Last EDR Contact: 08/29/2014
Number of Days to Update: 52	Next Scheduled EDR Contact: 12/08/2014
	Data Release Frequency: Biennially

UIC: Underground Injection Wells Database Listing

A listing of underground injection wells.

Date of Government Version: 08/08/2014	Source: Department of Health & Environment
Date Data Arrived at EDR: 08/12/2014	Telephone: 785-296-1367
Date Made Active in Reports: 08/27/2014	Last EDR Contact: 08/08/2014
Number of Days to Update: 15	Next Scheduled EDR Contact: 11/10/2014
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DRYCLEANERS: Registered Drycleaning Facilities

A listing of registered drycleaners.

Date of Government Version: 09/04/2014
Date Data Arrived at EDR: 09/05/2014
Date Made Active in Reports: 09/10/2014
Number of Days to Update: 5

Source: Department of Health & Environment
Telephone: 785-291-3250
Last EDR Contact: 09/02/2014
Next Scheduled EDR Contact: 12/15/2014
Data Release Frequency: Varies

AIRS: Title V Source Information

A listing of title V sources, including emissions information.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 10/02/2013
Date Made Active in Reports: 12/04/2013
Number of Days to Update: 63

Source: Department of Health & Environment
Telephone: 785-296-6427
Last EDR Contact: 09/29/2014
Next Scheduled EDR Contact: 01/12/2015
Data Release Frequency: Annually

TIER 2: Tier 2 Information Listing

A listing of facilities which store or manufacture hazardous materials and submit a chemical inventory report.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 07/11/2014
Date Made Active in Reports: 08/25/2014
Number of Days to Update: 45

Source: Department of Health & Environment
Telephone: 785-296-1688
Last EDR Contact: 09/22/2014
Next Scheduled EDR Contact: 01/05/2015
Data Release Frequency: Annually

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 07/18/2014
Next Scheduled EDR Contact: 10/27/2014
Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 34

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 07/25/2014
Next Scheduled EDR Contact: 11/03/2014
Data Release Frequency: Varies

Financial Assurance: Financial Assurance Information Listing

A listing of financial assurance information for underground storage tank facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 07/28/2014
Date Data Arrived at EDR: 08/01/2014
Date Made Active in Reports: 08/26/2014
Number of Days to Update: 25

Source: Department of Health & Environment
Telephone: 785-296-1685
Last EDR Contact: 07/07/2014
Next Scheduled EDR Contact: 10/20/2014
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 11/11/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/18/2012	Telephone: 703-308-4044
Date Made Active in Reports: 05/25/2012	Last EDR Contact: 08/15/2014
Number of Days to Update: 7	Next Scheduled EDR Contact: 11/24/2014
	Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 06/04/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/12/2014	Telephone: 703-603-8787
Date Made Active in Reports: 07/28/2014	Last EDR Contact: 07/01/2014
Number of Days to Update: 46	Next Scheduled EDR Contact: 10/20/2014
	Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

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

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

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 04/15/2013	Source: EPA
Date Data Arrived at EDR: 07/03/2013	Telephone: 202-564-6023
Date Made Active in Reports: 09/13/2013	Last EDR Contact: 09/30/2014
Number of Days to Update: 72	Next Scheduled EDR Contact: 01/12/2015
	Data Release Frequency: Quarterly

FEDLAND: Federal and Indian Lands

Federally and Indian administered lands of the United States. Lands included are administered by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005	Source: U.S. Geological Survey
Date Data Arrived at EDR: 02/06/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 07/18/2014
Number of Days to Update: 339	Next Scheduled EDR Contact: 10/27/2014
	Data Release Frequency: N/A

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 06/19/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/20/2014	Telephone: 202-566-1917
Date Made Active in Reports: 07/28/2014	Last EDR Contact: 08/14/2014
Number of Days to Update: 38	Next Scheduled EDR Contact: 12/01/2014
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COAL ASH: Coal Ash Disposal Site Listing

A listing of coal combustion waste landfills.

Date of Government Version: 04/28/2014
Date Data Arrived at EDR: 05/05/2014
Date Made Active in Reports: 05/12/2014
Number of Days to Update: 7

Source: Department of Health & Environment
Telephone: 785-296-1600
Last EDR Contact: 07/18/2014
Next Scheduled EDR Contact: 11/03/2014
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 03/14/2014
Date Data Arrived at EDR: 06/11/2014
Date Made Active in Reports: 07/28/2014
Number of Days to Update: 47

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 09/10/2014
Next Scheduled EDR Contact: 12/22/2014
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 08/01/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Varies

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

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

Date of Government Version: 10/23/2013
Date Data Arrived at EDR: 11/06/2013
Date Made Active in Reports: 12/06/2013
Number of Days to Update: 30

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/29/2014
Next Scheduled EDR Contact: 01/12/2015
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/23/2013
Date Data Arrived at EDR: 11/06/2013
Date Made Active in Reports: 12/06/2013
Number of Days to Update: 30

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/29/2014
Next Scheduled EDR Contact: 01/12/2015
Data Release Frequency: Annually

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 07/18/2014
Next Scheduled EDR Contact: 10/27/2014
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/21/2014	Telephone: 617-520-3000
Date Made Active in Reports: 06/17/2014	Last EDR Contact: 08/15/2014
Number of Days to Update: 88	Next Scheduled EDR Contact: 11/24/2014
	Data Release Frequency: Quarterly

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

EDR US Hist Auto Stat: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Health and Environment in Kansas.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/03/2014
Number of Days to Update: 186

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

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

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

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/03/2014
Number of Days to Update: 186

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

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Health and Environment in Kansas.

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

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

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013
Date Data Arrived at EDR: 08/19/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 08/19/2014
Next Scheduled EDR Contact: 12/01/2014
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 05/01/2014
Date Data Arrived at EDR: 05/07/2014
Date Made Active in Reports: 06/10/2014
Number of Days to Update: 34

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 08/07/2014
Next Scheduled EDR Contact: 11/17/2014
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 07/15/2014
Date Made Active in Reports: 08/13/2014
Number of Days to Update: 29

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 08/26/2014
Next Scheduled EDR Contact: 12/08/2014
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 06/20/2014
Date Made Active in Reports: 08/07/2014
Number of Days to Update: 48

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 09/15/2014
Next Scheduled EDR Contact: 12/29/2014
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health
Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics
Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics
Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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APPENDIX E
SITE PHOTOGRAPHS



Photo #1 View of the shop building looking northwest.



Photo #2 View of the wash bay area.



Photo #3 View of herbicide/pesticide staining in the foreground, followed by a lean-to storage shed and enclosed metal shed.



Photo #4 View of the UST fill ports and fueling pump, followed by a 500-gallon diesel AST located adjacent east of the shop.



Photo #5 View of the 500-gallon diesel AST.



Photo #6 View of a typical new fill material (sand) pile located east of the shop building.



Photo #7 View of typical miscellaneous storage observed adjacent south and west of the shop.



Photo #8 Interior view of the southern portion of the shop.



Photo #9 View of the paint storage located in the shop.



Photo #10 Close-up view of the UST monitoring system located in a storage room located in the southern portion of the shop.



Photo #11 View of the pesticide/herbicide storage room located in the southern portion of the shop.



Photo #12 View of the pesticide/herbicide applicator observed in the southern portion of the shop.



Photo #13 View of a flammables cabinet located in the shop.



Photo #14 View of Milorganite (nitrogen fertilizer) bags stored in the southern portion of the shop.



Photo #15 Interior view of the northern portion of the shop.



Photo #16 View of a parts washer observed in the northern portion of the shop.



Photo #17 View of parts washer solvent observed beneath the parts washer.

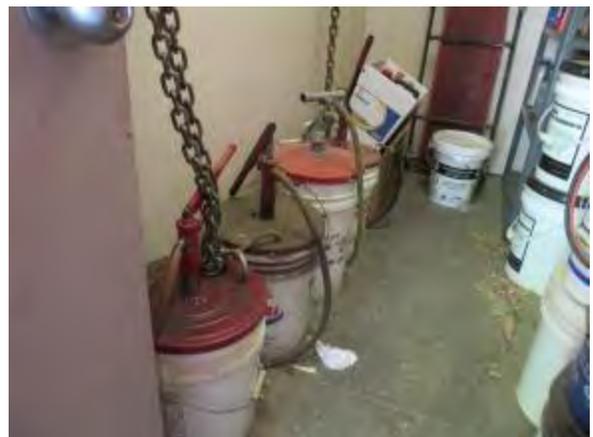


Photo #18 View of new oils/lubricants observed in a storage closet in the northern portion of the shop.



Photo #19 View of an air compressor located in the northern portion of the shop.



Photo #20 View of the floor drain located in the northern portion of the shop.



Photo #21 View of the break room/lounge area located in the northern portion of the shop.



Photo #22 View of an office located in the northern portion of the shop.



Photo #23 View of the Wheatshocker Apartment building located on the southwestern portion of the site.



Photo #24 View of the golf pro shop located on the northern portion of the site.



Photo #25 Interior view of the golf pro shop.



Photo #26 View of Traditions – A Golfer's Café area located in the eastern portion of the golf pro shop.



Photo #27 Interior view of a typical storage closet located in the golf pro shop.



Photo #28 View of a typical restroom located onsite.



Photo #29 View of the small single-office building located adjacent northwest of the golf pro shop.



Photo #30 Interior view of the single-office building.



Photo #31 View of the Heartman golf practice building located on the northeastern portion of the site.



Photo #32 Interior view of the Heartman golf practice building.



Photo #33 View of a storage room located in the Heartman golf practice building.



Photo #34 View of the golf course fairways.



Photo #35 Typical view of more golf course fairway areas.



Photo #36 View of the tree/brush burn pit area located near the south-central portion of the site.



Photo #37 View inside of burn pit.



Photo #38 View of the Floboy pumping system components located on the western portion of the site.



Photo #39 View of a pad-mounted transformer located on the western portion of the site.



Photo #40 View of the tributary that crosses the northern portions of the site.



Photo #41 View of Mike Oatman Dr., followed by Eck Stadium located adjacent north of the site.



Photo #42 View of the WSU Welcome Center located adjacent north of the site.



Photo #43 View of the WSU Alumni Center located adjacent north of the site.



Photo #44 View of E 21st St. N, followed by residences located adjacent north of the site.



Photo #45 View of N Oliver Ave., followed by commercial development located adjacent east and northeast of the site.



Photo #46 View of N Oliver Ave., followed by cemetery areas located adjacent east and southeast of the site.



Photo #47 View of E 17th St. N, followed by Paradise Baptist Church.



Photo #48 View of WSU Campus (maintenance buildings and water tower) located adjacent west of the site.



Photo #49 View of a typical WSU Campus building (National Institute for Aviation Research) located adjacent west of the site.

**APPENDIX F
CREDENTIALS**

MEAGAN HAAS

FIELD GEOLOGIST

PROFESSIONAL EXPERIENCE

Ms. Haas is a field geologist in Terracon's Wichita, Kansas office. Her responsibilities include performing Phase I Environmental Site Assessments, performing Phase II Limited Site Investigations, Leaking Underground Storage Tank (LUST) groundwater sampling, and project management.

Prior to working at Terracon Ms. Haas performed various surface water and ground water sampling for the U.S. Geological Survey. She primarily monitored the water quality of the Equus Beds (potable aquifer for the City of Wichita drinking water supply) near Sedgwick, Kansas, as well as surface water sites including the Little Arkansas River and Cheney Reservoir.

PROJECT EXPERIENCE

Phase I Environmental Site Assessments

Ms. Haas has managed and completed Phase I ESAs for multiple agricultural, retail, commercial, industrial, tribal land, and telecommunication facilities in Kansas, Nebraska, South Dakota, Oklahoma, and Missouri. Ms. Haas has successfully managed several multi-site ESA portfolio projects within a limited time frame and with a limited budget.

Phase II Environmental Site Assessments / Limited Subsurface Investigations

Ms. Haas has managed and completed Phase II ESAs/LSIs for multiple agricultural and commercial sites in Kansas. As project manager, Ms. Haas's responsibilities have included developing scope of work documents, obtaining historical information, contacting various government entities, conducting soil and groundwater sampling, field work oversight, and report preparation.

LUST Groundwater Sampling

Ms. Haas has completed multiple LUST Groundwater Sampling events for commercial sites located in Kansas in accordance with the State of Kansas Underground Storage Tank guidelines. Ms. Haas' responsibilities include field preparation, monitoring and sample collection, and data evaluation.

FIELD EXPERIENCE

Ground, Surface, and Wastewater Sampling: used various field equipment to analyze water quality of the Equus Beds, the Little Arkansas River, Cheney Reservoir, and Hutchinson Wastewater Facility.

Lab work including: microbiological analysis and processing

Education

Bachelor of Art in Geology, Wichita State University, 2011

*Associate of Arts
Hutchinson Community College,
2007*

Certifications

40-Hour HAZWOPER

*HAZWOPER 8-hour Annual
Refresher Course-2014*

*Geo-Seal Vapor Intrusion Barrier
Certified Inspector-2013*

Red Cross Adult CPR-2013

*Certification of Visible Opacity
Reading-2014*

Affiliations

Kansas Geological Society Member

Work History

*Terracon Consultants, Inc., Field
Geologist, September 2012-Present*

*Kansas Geological Society, Data
Integrator, May 2011-September
2012*

*City of Hutchinson, Laboratory
Technician, October 2011- April
2012*

*U.S. Geological Survey, Hydrologic
Technician, July 2008-May 2011*

JAMES C. BRUGGEMAN, P.G.

DUE DILIGENCE DEPARTMENT MANAGER/SENIOR PROJECT MANAGER

PROFESSIONAL EXPERIENCE

Mr. Bruggeman is the Due Diligence Department Manager, a Senior Project Manager, and a hydrogeologist in Terracon's Wichita, Kansas office. He is responsible for business development, management, and technical supervision of the site assessment personnel and projects in the Wichita, Kansas region. As a professional geologist, he performs laboratory and field investigations, evaluates data, develops solutions and recommendations, and directs site assessment and hydrogeological investigations.

Mr. Bruggeman's 31 years of experience includes performance and management of dozens of site assessment/due diligence projects, including multi-site portfolio projects for a variety of commercial, industrial, and residential properties, including State and EPA Brownfields sites. Mr. Bruggeman has conducted numerous site assessment, water quality, and hydrogeologic investigations of sites impacted by chlorinated hydrocarbons, petroleum hydrocarbons and agricultural chemicals, including CERCLA sites and solid waste landfills. Mr. Bruggeman has performed data collection, data interpretation and report preparation for RCRA facility investigations and closure of a RCRA site.

As a petroleum geologist, he performed geologic mapping, lease appraisal, lease acquisitions, prospect generation, well-site supervision and expert witness testimony.

PROJECT EXPERIENCE

Environmental Site Assessment/Due Diligence – Kansas

Performed portfolio projects for banks, a restaurant chain, chemical facilities, and franchise commercial properties, which included a compressed time frame and confidentiality to meet client goals. In addition, Mr. Bruggeman has made numerous presentations to attorneys, realtors, bankers, etc. regarding All Appropriate Inquiry regulations and site assessments in general.

Environmental Site Assessments – Large Acreage Tracts

Performed ESAs on large acreage projects for Wind Farms and agricultural clients. The ESAs included aerial and ground reconnaissance on select projects, as well as other services: T&E species; historical/archeological; wetlands; and avian surveys.

Terracon Fee: \$5,000 - \$35,000

Brownfields Site – Chanute, Kansas

Provided Phase I and Phase II services for a Brownfields site that the City wished to redevelop. The site history included use as a lumber yard since the late 1800s, and concerns included petroleum products and heavy metals. Following assessment and soil removal, the site was redeveloped as a movie theater.

Terracon Fee: \$25,000

Education

*Master of Science, Geology,
Oklahoma State University, 1992*

*Bachelor of Science, Geology,
Wright State University, 1979*

Registrations

*Professional Geologist; Missouri,
Kansas,*

Certifications

40-Hour HAZWOPER

8-HOUR OSHA Supervisor Training

Affiliations

*Association of Ground Water
Scientists and Engineers*

Kansas Geological Society

Work History

*Terracon Consultants, Inc.,
Hydrogeologist, 1992-Present*

*Stover and Associates,
Hydrogeologist, 1991-1992*

*OXY USA, Inc., Petroleum
Geologist, 1981-1989*

Industrial Site – Wichita, Kansas

Performed characterization of groundwater impacted by chlorinated hydrocarbons at CI/CAS site. Assessment included plume delineation, aquifer testing and remedial design. Data evaluation included determination of aquifer characteristics, product degradation and natural attenuation of chlorinated hydrocarbons. Obtained No Further Action determination from KDHE.

Terracon Fee Exceeded: \$250,000

Grain Storage Facilities – Kansas

Conducted investigations at several grain storage facilities where groundwater was impacted by chlorinated hydrocarbons. The studies involved performance of soil and groundwater probes, field and laboratory analyses, monitor well installation, data evaluation and preparation of comprehensive reports, including remedial alternatives.

McConnell AFB – Wichita, Kansas

Managed the modification and operation of several groundwater recovery and treatment systems. The systems incorporated an interceptor trench or recovery wells which removed groundwater impacted with TCE and other chlorinated hydrocarbons. The on-site treatment systems included chemical treatment, carbon filtration and/or removal of contaminants with air stripper technology.

Terracon Fee: \$45,000

Various Sites – Wichita, Kansas

Performed hydrogeological investigations for a municipality and a manufacturing facility regarding flood conditions, involving: installation of piezometers; identification and evaluation of historic and current groundwater elevations, precipitation and river stage trends and preparation of comprehensive reports that included courtroom exhibits.

Terracon Fee: \$136,000

Major Grocery Chain – Wichita, Kansas

Performed the investigation and managed remediation of phase-separated hydrocarbons, which had been released to the groundwater. Supervised the installation of an underslab vent system, a dual-phase groundwater extraction system with venturi pumps and a treatment system consisting of an oil/water separator, an air stripper and a granular activated carbon polisher.

Terracon Fee Exceeded: \$200,000

Truck Terminal – Wichita, Kansas

Managed operation of a remedial system that had not been effectively operated by the previous consultant. The remedial system addressed a petroleum fuels release and incorporated high-vacuum, total fluids (and vapor) removal from two recovery wells and a recovery trench, with granular activated carbon treatment of both recovered groundwater and vapor. Increased the effectiveness of the system, completed the remediation of the site, obtained a letter of No Further Action and decommissioned the system.

Terracon Fee: \$78,000

Presentations/Published Articles

Bruggeman, James C. *Hydrogeologic Characterization, Contaminant Assessment, and Computer Modeling at an Industrial Site in Rogers County, Oklahoma*, Master's Thesis, Oklahoma State University, Stillwater, Oklahoma, 1992.

Additional Training

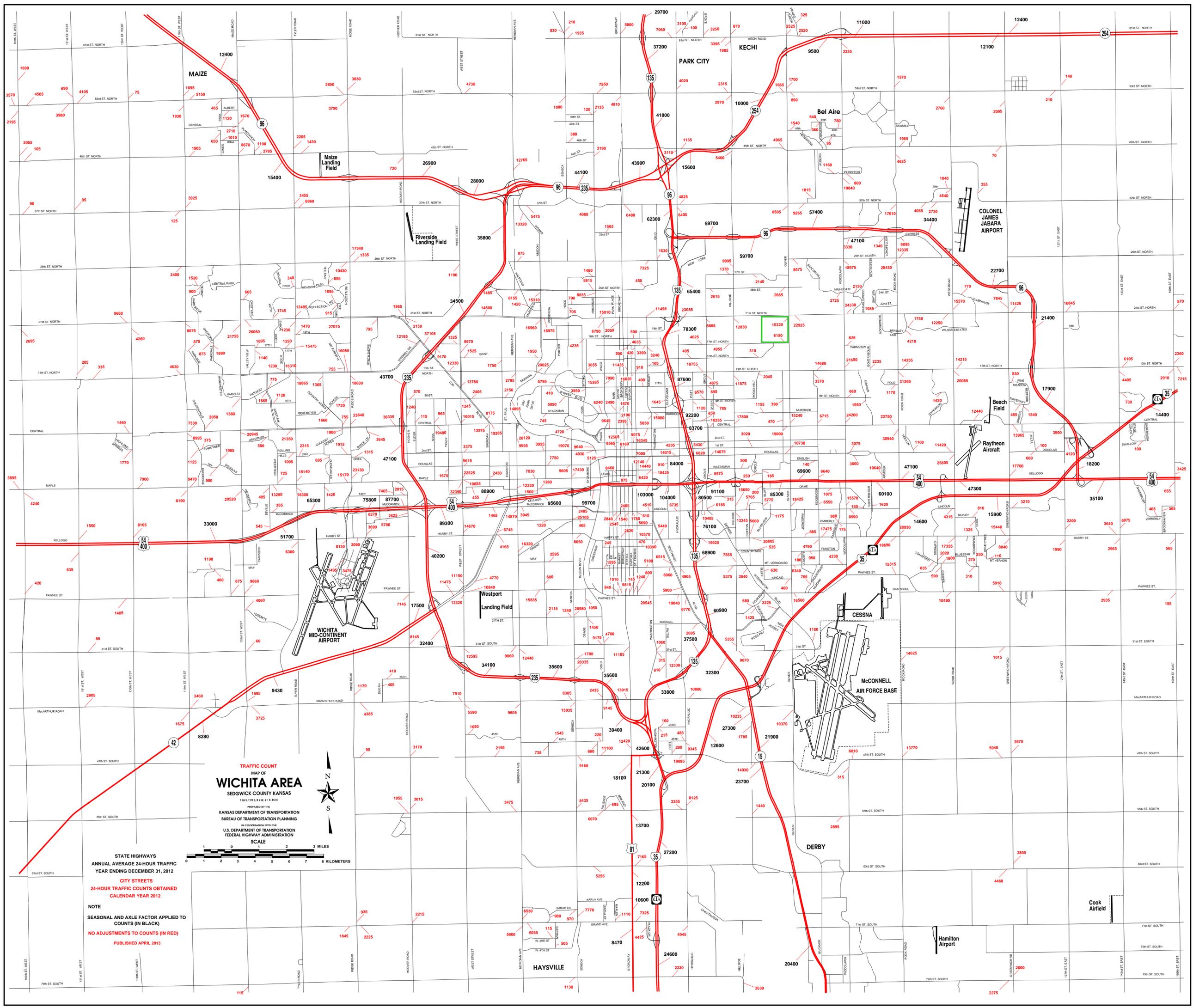
Various in-house and industry seminars such as: All Appropriate Inquiry, Brownfields Vapor Intrusion and Vapor Assessment, Radon, Site Assessments, and Contaminant Transport, 2002-Current.

The Princeton Groundwater Remediation Course, 2001.

Permit requirements and wetland identification, Corps of Engineers/KDOT, 1997.

Attachment Q-1

KDOT Traffic Map



**TRAFFIC COUNT
MAP OF
WICHITA AREA**
SEDGWICK COUNTY KANSAS

130 S. 17th & E. 24th St.
KANSAS DEPARTMENT OF TRANSPORTATION
BUREAU OF TRANSPORTATION PLANNING
IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION



STATE HIGHWAYS
ANNUAL AVERAGE 24-HOUR TRAFFIC
YEAR ENDING DECEMBER 31, 2012

CITY STREETS
24-HOUR TRAFFIC COUNTS OBTAINED
CALENDAR YEAR 2012

NOTE
SEASONAL AND AXLE FACTOR APPLIED TO
COUNTS (IN BLACK)

NO ADJUSTMENTS TO COUNTS (IN RED)

PUBLISHED APRIL 2013

Appendix A: Certification Clauses