



TETRA TECH

December 18, 2012

Mr. Todd Davis
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U.S. Environmental Protection Agency, Region 7
11201 Renner Blvd.
Lenexa, Kansas 66219

**Subject: Phase I Targeted Brownfields Assessment
KCMO Municipal Farms
Animal Shelter Site at 4400 Raytown Road in Kansas City, Missouri
EPA Region 7, START 3, Contract No. EP-S7-06-01, Task Order No. 0002.015.022
Task Monitor: Todd Davis, Site Assessment Team Leader**

Dear Mr. Davis:

Tetra Tech EM Inc. is submitting the enclosed Phase I Targeted Brownfields Assessment (TBA) report regarding the Animal Shelter in Kansas City, Missouri. The goal of the TBA is to identify recognized environmental conditions associated with the subject property. This TBA was completed in accordance with industry standard practice for Phase I Environmental Site Assessments.

If you have any questions or comments regarding this submittal, please call the project manager at (816) 412-1788.

Sincerely,

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START Project Manager

Ted Faile, PG, CHMM
START Program Manager

Enclosures

cc: Roy Crossland, START Project Officer (cover letter only)

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X9004.06.0002.015.022

PHASE I TARGETED BROWNFIELDS ASSESSMENT

**ANIMAL SHELTER
4400 RAYTOWN ROAD, KANSAS CITY, MISSOURI**

Superfund Technical Assessment and Response Team (START) 3

Contract No. EP-S7-06-01, Task Order No. 0002.015.022

Prepared For:

U.S. Environmental Protection Agency
Region 7
11201 Renner Blvd.
Lenexa, Kansas 66219

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Prepared By:

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EXECUTIVE SUMMARY

The Tetra Tech EM Inc. (Tetra Tech) Region 7 Superfund Technical Assessment and Response Team (START) was tasked by the U.S. Environmental Protection Agency (EPA) Region 7 Superfund Division to conduct a Phase I Targeted Brownfields Assessment (TBA) of the approximately 1.9-acre Animal Shelter at 4400 Raytown Road in Kansas City, Jackson County, Missouri (subject property). The City of Kansas City, Missouri (City) applied for a Brownfields grant from EPA Region 7 for assessment of the Animal Shelter for future institutional/civic and/or destination commercial use. START generally conducted this TBA in accordance with the *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*, ASTM International (ASTM) designation E 1527-05, and otherwise in compliance with EPA's "All Appropriate Inquiries" Rule (AAI Rule) (40 *Code of Federal Regulations* [CFR] Part 312).

The purposes of the TBA are to identify recognized environmental conditions (REC) associated with the subject property, and to identify the nature of contamination and the risks posed by the contamination, if present. RECs include the presence or likely presence of any hazardous substances or petroleum products, even under conditions complying with applicable laws, that present a material risk of harm to public health or the environment (ASTM 2005 [Section 1.1.1 E]).

The subject property is defined as one parcel with three buildings encompassing approximately 12,000 square feet at 4400 Raytown Road in Kansas City, Missouri. The buildings on the subject property are currently used as an animal shelter operated by Kansas City Pet Project.

Findings and Opinions

The following findings and opinions resulted from the TBA, primarily based on interviews and examination of historical documentation:

- Interviews and historical documentation revealed that the City of Kansas City Health Emergency Hazmat Site (HEHS) is closely proximate to the subject property. In the mid 1980s, the City Health Department began to use a small, rectangular, fenced-in area including two structures to store household hazardous waste (HHW), school laboratory waste, and other hazardous wastes generated by City operations and hazardous materials (hazmat) cleanups. This site was not permitted to accept or store hazardous waste. A deed restriction has been filed regarding the HEHS property. Based on the location of this facility upgradient of the subject property, it poses a REC to the subject property.
- Based on historical and current use of the subject property as an animal shelter, storage of animal food there likely was accompanied by use of pesticides and rodenticides. Possible presence of pesticide and/or rodenticide contamination poses a REC to the subject property.

- Environmental Advisors and Engineers, Inc. [EAE] prepared an Area Wide Brownfields Plan (AWBP) for the Municipal Farms properties to be used to facilitate sustainable reuse and development of the area. Based on available information, possibly present contaminants within these conceptual land use plan (CLUP) areas covering the subject property would have derived from applications of herbicides and pesticides, vehicle and machinery maintenance, storage tanks, hazardous waste storage at HEHS, rodenticides, and other Municipal Farm activities.
- The Municipal Farm Sustainable Reuse Plan, prepared by the City and several stakeholders, provides a path to revitalize the city-owned property at Municipal Farm. That Plan recommended the following: (1) a preliminary environmental assessment of the former agricultural use areas and the Kansas City Missouri Animal Shelter; (2) an evaluation of ongoing practices in the operation of on-site animal incinerators for compliance with the Air Pollution Operating Permit; (3) an evaluation of procedures for use, storage, and handling of any hazmat such as rodenticides for compliance with federal and state regulations; and (4) additional investigations of former croplands, including sampling of sediment at the drainage relief point downgradient of most of the area (a biased sampling location).

To summarize, possible presence of hazardous waste contamination derived from incineration of medical waste and deceased animals, and possible current and past uses of rodenticides and/or pesticides at the subject property pose RECs to the subject property. Moreover, past unpermitted storage of hazardous waste at the HEHS facility (derived from school laboratory waste), other hazardous wastes generated by City operations and hazmat cleanups there, and location of that facility upgradient of the subject property pose RECs to the subject property.

Recommendations

Because this Phase I TBA is predominantly based on a review of available public records, and according to accepted practices, no official judgment about levels or extent of contamination associated with any site can be made without conducting an environmental investigation that includes sampling and chemical analysis, START recommends a Phase II Environmental Site Assessment (ESA) of the subject property to confirm or eliminate the RECs identified in the Phase I investigation:

- Collect surface and subsurface soil and sediment samples for laboratory analyses. Analyze the samples for volatile organic compounds (VOC), semivolatile organic compounds (SVOC), the eight Resource Conservation and Recovery Act (RCRA) metals, total petroleum hydrocarbons (TPH), herbicides, and pesticides.

- Install four temporary monitoring wells and sample groundwater for the same analytes as the soils samples. Collect filtered and unfiltered groundwater samples for the analyses for RCRA metals. If groundwater is present, analyze it for total dissolved solids. As part of the Phase II ESA, START will calculate the hydraulic conductivity of the water bearing unit.
- Collect a soil sample from the subject property to classify the soil type based on grain size. That information would be used to help determine the appropriate Tier 1 risk-based target levels under the current Missouri-Risk Based Corrective Action (MRBCA) model if contaminants are identified at the site.

1.0 INTRODUCTION

The Tetra Tech EM Inc. (Tetra Tech) Region 7 Superfund Technical Assessment and Response Team (START) was tasked by the U.S. Environmental Protection Agency (EPA) Region 7 Superfund Division to conduct a Phase I Targeted Brownfields Assessment (TBA) of the approximately 1.9-acre Animal Shelter at 4400 Raytown Road in Kansas City, Jackson County, Missouri (subject property). The City of Kansas City, Missouri (City) applied for a Brownfields grant from EPA Region 7 to assess current environmental conditions at the subject property prior to future development plans for institutional/civic and/or destination commercial use.

START conducted this TBA in accordance with the *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*, ASTM International (ASTM) designation E 1527-05, and otherwise in compliance with EPA's "All Appropriate Inquiries" Rule (AAI Rule) (Title 40 *Code of Federal Regulations* [40 CFR] Part 312). For the purpose of this TBA, the *users* are defined as the EPA and the City (ASTM 2005 [Section 3.2.93]). EPA tasked START to conduct a TBA of the subject property to identify recognized environmental conditions (REC) associated with the property, and to identify the nature of contamination and risks posed by the contamination, if present (see Appendix A).

For the purpose of this TBA, the subject property is defined as one parcel with three buildings encompassing approximately 12,000 square feet in Kansas City, Missouri.

1.1 PURPOSE

The goal of this TBA is to identify RECs to the subject property. RECs are the presence or likely presence of any hazardous substances or petroleum products on a subject property under conditions that indicate an existing release, a past release, or a material threat of release of any hazardous substances or petroleum products into structures on the subject property or into the ground, groundwater, or surface water of the subject property. The term includes hazardous substances or petroleum products, even under conditions in compliance with laws. The term is not intended to include de minimis conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies (ASTM 2005 [Section 1.1.1]). Historical recognized environmental conditions (HREC) are environmental conditions that in the past would have been considered RECs, but that may or may not be considered RECs currently (ASTM 2005 [Section 3.2.39]).

This TBA is intended to satisfy one of the requirements for the innocent landowner defense, the contiguous property exemption, and the bona fide prospective purchaser exemption to Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) liability: that is, the practices that constitute “all appropriate inquiry into the previous ownership and uses of the subject property consistent with good customary practice,” as defined in 42 U.S. Code Section 9601 (35)(B).

1.2 SCOPE OF WORK

EPA developed a Statement of Work (SOW) for TBA activities to be performed at the animal shelter. The SOW, based on ASTM designation E1527-05, was to identify RECs to the subject property. Phase I TBAs typically are conducted in a four-phase process, including: (1) records review; (2) site reconnaissance; (3) interviews with current and previous owners and occupants of the subject property, adjacent property owners and occupants, and local government agencies; and (4) preparation of a report. The EPA SOW is included as Appendix A.

Any items listed in the ASTM standard that the report does not specifically identify as present can be assumed not present within the subject property or within such distance to the subject property as to be of potential concern to the subject property. Any item mentioned but not specifically identified as a REC can be assumed not a REC.

1.3 SIGNIFICANT ASSUMPTIONS

The following are beyond the scope of this evaluation: sampling and analysis for radon in indoor air, and for lead in drinking water; evaluations of indoor and/or outdoor air quality, regulatory compliance, industrial hygiene, and noise impacts; and identification of geological or geotechnical hazards.

1.4 DEVIATIONS

Deletions or deviations from ASTM E 1527-05 or the SOW are as follows. For each deviation noted, the Tetra Tech Environmental Professional (EP) has conducted an analysis of the data gaps or failures, and impacts of these on Tetra Tech’s ability to render an opinion regarding conditions indicative of releases or threatened releases of petroleum products or hazardous substances.

- Time gaps of more than 5 years were noted in available historical information. Based on the consistent, observed use of the subject property as undeveloped land or developed as an animal shelter in all reviewed historical information, the EP believes the presence of time gaps does not impact START’s ability to render an opinion regarding RECs.

- Interviews with previous land owners were not conducted. Based on the consistent, observed use of the subject property as undeveloped land or developed as an animal shelter in all reviewed historical information, the EP believes information likely to be obtained from past owners, operators, or occupants of the subject property likely would not be additional to that obtained from other resources.
- No interviews with adjacent property owners or occupants were conducted. ASTM Practice E 1527-05 does not require interviews with adjacent property owners unless a property has been abandoned and potential unauthorized uses or evidence of uncontrolled access to the abandoned property is evident. Based on the consistent use of the subject property as undeveloped land or developed as an animal shelter in all reviewed historical information, the EP believes that information obtained from other adjacent property owners or occupants likely would not be additional to that obtained from other resources.

1.5 LIMITATIONS AND EXCEPTIONS

This report was based partially on information supplied to START from outside sources and on other information available in the public domain. The conclusions and opinions reported herein are based on the information START obtained in compiling the report. This information is on file at START's office in Kansas City, Missouri. START makes no warranty as to the accuracy of statements made by others which may be contained in the report, nor are any other warranties or guarantees, expressed or implied, included or intended by the report except that it has been prepared in accordance with the current generally accepted practices and standards consistent with the level of care and skill exercised under similar circumstances by other professional consultants or firms performing the same or similar services. Because the facts forming the basis for the report are subject to professional interpretation, differing conclusions could be reached. START does not assume responsibility for the discovery and elimination of hazards that could possibly cause accidents, injuries, or damage. Compliance with submitted recommendations or suggestions does not assure elimination of hazards or the fulfillment of the client's obligations under local, state, or federal laws or any modifications or changes to such laws. None of the work performed hereunder shall constitute or be represented as a legal opinion of any kind or nature, but shall be a representation of findings of fact from records examined.

1.6 SPECIAL TERMS AND CONDITIONS

There were no special terms or conditions for the TBA.

1.7 STATEMENT OF USER RELIANCE

START is not required to verify independently the information provided to it by the user or gathered throughout the course of this TBA. For this TBA, EPA Region 7 and the City may rely on information provided unless actual knowledge is possessed that certain information is incorrect based on additional information obtained during the TBA or otherwise known by the person preparing this report.

2.0 SITE DESCRIPTION

This section provides a brief description of the subject property and the physical setting based on information obtained from EPA Region 7, the City, and a records review prior to the site reconnaissance. Observations during the site reconnaissance regarding current land use of the subject property and adjoining properties are described in Section 4.0.

2.1 SITE LOCATION AND LEGAL DESCRIPTION

For the purposes of the TBA, the subject property is an approximately 1.9-acre tract of land at 4400 Raytown Road in Kansas City, Jackson County, Missouri (see Figure 1, Appendix B). According to the City of Kansas City, Missouri KC Mapper website, the property description for the tract of land that encompasses the subject property is “Sec 30-49-32 NW ¼, all that pt of NW ¼ ly E of Eastern Avenue and North of Ozark Road and swly of Raytown Road (ex W 180 thof)” (City of Kansas City [City] 2012a) (see Appendix C). The subject property is depicted on the United States Geological Survey (USGS) 7.5-minute series Independence, Missouri topographic quadrangle map (USGS 1996) in northwest ¼, Section 30, Township 49 north, Range 32 west (see Figure 1, Appendix B). The coordinates at the approximate center of the property are 39° 2’ 40.08” north latitude and 94° 29’ 36.53” west longitude (Google Earth 2012).

2.2 SITE AND VICINITY GENERAL CHARACTERISTICS

The subject property is near a wooded area in Kansas City, Missouri. The subject property is bounded north by Raytown Road and the closed Raytown Road Landfill, with forest land beyond; east by forest land; south by forest land, with the former City of Kansas City, Missouri Municipal Farm and Health Emergency Hazmat Site (HEHS) beyond; and west by forest land, with the Police Department Helicopter Maintenance Facility beyond. The subject property is located in a stream valley with the landfill across the stream to the north.

2.3 CURRENT AND PAST USES OF THE SITE

The subject property is currently occupied by an animal shelter. Exact dates of historical subject property use are unknown but can be approximated through review of historical records (see Section 6.2 for detailed information). Aerial photographs show the subject property as forest land or green space until 1955, when and thereafter the photographs show the subject property developed as an animal shelter. City directories identify the subject property as an animal shelter as early as 1951.

2.4 DESCRIPTIONS OF STRUCTURES, ROADS, AND OTHER IMPROVEMENTS ON THE SITE

The subject property, currently used as an animal shelter, encompasses approximately 1.9 acres of land. A paved driveway from Raytown Road leads to the subject property buildings. A paved parking lot is on the north and west sides of the subject property buildings, and a paved driveway circles all of the subject property buildings. A gravel road continues from the west parking lot and dead ends into forest land. The three buildings on the subject property are attached and encompass approximately 12,000 square feet.

Utilities to the building on the subject property are as follows:

- Electricity: Kansas City Power & Light
- Gas: Missouri Gas Energy
- Water & Sewer: City of Kansas City, Missouri.

2.5 CURRENT AND PAST USES OF ADJOINING/SURROUNDING PROPERTIES

Currently, the subject property is bounded north by Round Grove Creek and the closed Raytown Road Landfill, with forest land beyond; east by forest land; southeast by vacant land that formerly housed the Men's Reformatory and the former Municipal Correctional Institution (MCI) facility; south by forest land, with the former City of Kansas City Missouri Municipal Farm and HEHS beyond; and west by forest land, with the former Tuberculosis Hospital Dump Site and the City Police Department Helicopter and K-O Training Facility beyond. A review of historical documents indicates the area surrounding the subject property has been used for a variety of residential and industrial purposes (see Section 6.2 for detailed information). Historically, the Men's Reformatory, MCI, the Raytown Road Landfill, and the former Tuberculosis Hospital Dump Site have been adjacent to the subject property.

Possible past releases of hazardous materials (hazmat) or hazardous waste from neighboring commercial and industrial facilities pose RECs to the subject property. See Section 6 for additional details on the neighboring commercial and industrial facilities.

2.6 GEOLOGIC, HYDROGEOLOGIC, HYDROLOGIC, AND TOPOGRAPHIC CONDITIONS

The following sections describe the environmental setting of the subject property and surrounding area.

2.6.1 Topography

Jackson County is within the west-central part of Missouri, in the Iowa and Missouri Deep Loess Hills Resource Area of the Central Feed Grains and Livestock Region of the United States. The Missouri River is the northern boundary of the county. The northern part of the county is the nearly level flood plain of the Missouri River. Adjacent to the flood plain and south are moderately sloping to steep, loess-covered bluffs and hills. The rest of the county consists of gently sloping to moderately sloping uplands and flood plains of the Blue River, Little Blue River, Sni-A-Bar Creek, and their tributaries (U.S. Department of Agriculture [USDA] 1984).

Elevations in Jackson County range from 1,105 feet above mean sea level (amsl) on the divide in the south-central part of the county to 690 feet amsl at normal water level on the Missouri River at the county line on the eastern side of the county (USDA 1984). Based on a review of the USGS 7.5-minute series Independence, Missouri, topographic quadrangle map (USGS 1996), the subject property is approximately 764 feet amsl. The subject property appears flat to gently sloping. Area topography slopes north toward Raytown Road.

2.6.2 Geologic Setting

Soils on the subject property consist of Knox-Urban Land complex and Knox silty clay loam. The Knox-Urban Land complex has 5- to 9-percent slopes. The typical soil profile is 0 to 6 inches silt loam, 6 to 46 inches silty clay loam, and 46 to 80 inches silt loam. The Knox silty clay loam has 9- to 14-percent slopes that are severely eroded. The typical soil profile is 0 to 4 inches silty clay loam, 4 to 54 inches silty clay loam, and 54 to 60 inches silt loam (USDA 2011).

The upper bedrock formation in the vicinity of the subject property consists of the middle Kansas City Group, Missourian Series, Pennsylvania System (Missouri Bureau of Geology and Mines 1917). Underlying the Kansas City Group are the shales of the Pleasanton Group. Underlying the Pleasanton Group are predominantly shales of the Marmaton and Cherokee Groups of the Desmoinesian Series (Missouri Department of Natural Resources [MDNR] 1997). The maximum thickness for these groups are as follows: 135 feet for the Kansas City Group; 150 feet for the Pleasanton Group; and 190 feet for the Marmaton Group (Stohr, St. Ivany, and Williams, 1981).

2.6.3 Hydrogeology

Local Pennsylvanian-age bedrock units generally yield low quantities of marginal quality groundwater high in dissolved solids—particularly chlorides, iron, and bicarbonates (Stohr, St. Ivany, and

Williams 1981). Non-potable water for the subject property is supplied by the City of Kansas City, Missouri, Water Department, and is obtained from the Missouri River and groundwater sources near the river.

Mississippian and Pennsylvania formations form the bedrock aquifers in this region. The Pennsylvanian aquifers are characterized by water table conditions; however, because of the geologic structure in the region, artesian conditions may exist locally in shallow wells. Artesian conditions exist in deeper wells that were drilled to Ordovician bedrock. Water yields are low, one gallon per minute (gpm) to 15 gpm, and the water is high in chlorides, sodium, iron, bicarbonates, and other dissolved solids. Water yields increase in deeper wells, but quality decreases significantly with depth. The water table depths in the alluvium and terraces of the flood plains in the region are 20 to 30 feet (Stohr, St. Ivany, and Williams 1981).

Mississippian and older bedrock aquifers exhibit leaky artesian conditions; however, water table conditions exist near the border of the Ozark Plateaus. Water yields vary from 25 gpm to a few hundred gpm. The water quality is the highest near the eastern border of the Osage Plains and decreases toward the northwest, with increasing concentrations of chlorides, sodium, and other dissolved solids. Recharge is by regional water movement from the Ozark Plateaus and by limited infiltration of precipitation (Stohr, St. Ivany, and Williams 1981).

Numerous drainageways dissect the bedrock in this area and flow into the Blue River. Transient water may be encountered within fracture zones and along bedding planes, and frequently discharges at bedrock outcrops.

Environmental Data Resources, Inc. (EDR), a START subcontractor, identified two federal USGS wells and 18 state database wells within 1 mile of the subject property by searching state and USGS database listings. The reported total depths of the wells ranged from 36 to 405 feet below ground surface (bgs). Static water levels were not provided for the wells, and EDR extracted no data on groundwater flow and velocity (EDR 2012a). In the absence of site-specific data or other indicators, the direction of groundwater flow may be inferred from the regional topographic gradient. Therefore, groundwater flow is inferred to the north-northeast in the direction of the topographic gradient and surface water flow.

2.6.4 Hydrology

Based on the visual site assessment by START personnel on November 2, 2012, surface water on the subject property appears to follow surface topography and either infiltrates the ground or flows to the north toward Round Grove Creek. Round Gove Creek flows west northwest for about 0.85 miles before discharging to the Little Blue River.

3.0 USER-PROVIDED INFORMATION

The following section summarizes information provided by EPA Region 7 and the City (users) with regard to the TBA.

3.1 EXISTING STRUCTURE INFORMATION AND DRAWINGS

The City provided a copy of the Municipal Farm Sustainable Reuse Plan, which includes a comprehensive land use map of the Municipal Farms, including the subject property (see Appendix C).

3.2 SUMMARY OF TITLE INFORMATION

The City was granted the land, a municipal corporation, via a Missouri Warranty Deed dated May 20, 1943, from Mary T. Ulreich and Joseph Ulreich; Frank Bleier and Roas Bleier; August Bleier and Golda Bleier; Julia Marschler; Elizabeth Selle and Joseph Selle; and Bertha Noel and Frank Noel (see Appendix D). The City has owned the property since 1943. According to the chain of title certificate, the legal description of the subject property is as follows:

All of the North Half (1/2) of the East Half (1/2) of the Northwest Quarter (1/4) of Section Thirty (30) Township Forty-nine (49) Range Thirty-two (32), Kansas City, Jackson County, Missouri, EXCEPT that part thereof lying North of the public road running from Kansas City to Raytown, Missouri containing Thirty-three and Four Hundred Forty Eight one thousandths (33.448/1000) acres, more or less.

ALSO a part of the Southeast Quarter (1/4) of the Northwest Quarter (1/4) of Section Thirty (30) Township Forty-nine (49) Range Thirty-two (32), Kansas City, Jackson County, Missouri, beginning at a point Eight Hundred Forty Two (842) feet North of the Southwest corner of said Quarter Quarter section running thence North Four Hundred Fifty Three and 25/100 (453.25/100) feet, thence East Twelve Hundred Seventy Nine (1279) feet, thence South Four Hundred Fifty Five (455) feet, thence West Twelve Hundred Seventy Nine and 3/10 (1279.3/10) feet to the place of beginning, containing Thirteen and 325/1000 (13.325/1000) acres more or less.

ALSO Beginning at the Southwest corner of the East One Half (1/2) of the Northwest Quarter (1/4) of Section Thirty (30), Township Forty-nine (49), Range Thirty-two (32), Kansas City, Jackson County, Missouri, thence North Eight Hundred Forty-Two (842) feet, thence East Twelve Hundred Seventy Nine and Three Tenths (1279.3/10) feet, thence South Eight Hundred Forty Two (842) feet, thence West Twelve Hundred Eighty (1280) feet to beginning, being the South Twenty-four and Seven Hundred Thirty-five Thousandths (24.735/1000) acres more or less of the East One-Half of the Northwest Quarter of Section Thirty (30) Township Forty-nine (49) Range Thirty-two (32) aforesaid.

ALSO All of the North Forty (40) acres of the West Half (1/2) of the Northwest Quarter (1/4) of Section Thirty (30) Township Forty-nine (49) of Range Thirty-two (32), Kansas City, Jackson County, Missouri.

ALSO All that part of the West Half of the Northwest (Fractional) Quarter of Section Thirty (30) in Township Forty-Nine (49) of Range Thirty-two (32), Kansas City, Jackson County,

Missouri, bounded as follows: Beginning at the Southwest corner of said Quarter Section and running thence North along the West Section line Four Hundred and Forty-Five (445) feet, more or less to land conveyed to Charles H. and Effa L. Gollhofer, by deed recorded in Book 213 at Page 286, in Recorder of Deeds Office at Independence, Missouri being the only such deed, thence East parallel to the South line of said Quarter Section Twelve Hundred and Seventy-Nine and Sixty Five Hundredths (1279.65) feet to the East line of said West Half of Quarter Section, thence South 446.85 feet to South line of said Quarter Section, thence West along said South line 1280 feet to beginning, containing 13.10 acres. ALSO All of the North Thirty One (31) feet of the Southwest Quarter of the Northwest Quarter of Section Thirty (30) Township Forty-Nine (49) Range Thirty-two (32), Kansas City, Jackson County, Missouri, being all the land lying between the land in the Northwest Quarter of the Northwest Quarter of said Section and the land heretofore conveyed by us to Charles H. Gollhofer and Effa L. Gollhofer.

ALSO Beginning at a point on Section line Four Hundred and Forty-five feet North of the Southwest corner of the Southwest Quarter of the Northwest Quarter of Section Thirty (30) Township Forty-Nine (49) Range Thirty-two (32), Kansas City, Jackson County, Missouri, thence North Eight Hundred and Forty Eight & 4/10 (848.4) feet to a point Thirty One (31) feet South of the Northwest corner of said Quarter of Quarter Section, thence East parallel with North line of said Quarter of Quarter Section Six Hundred & Forty Two (642) feet thence South Eight Hundred Forty Eight & 4/10 (848.4) feet, thence West Six Hundred Forty One & 5/10 (641.5) feet to Place of Beginning, containing Twelve & 50/100 (12.50) acres.

ALSO All that part of Section 30, Township 49, Range 32, in Kansas City, Jackson County, Missouri, described as follows: Beginning at a point 31 feet South and 642 feet East of the Northwest corner of the Southwest 1/4 of the Northwest 1/4 of said section; thence East and parallel to the North line of said Section 642 feet to a point; thence South and parallel to the West line of said Section 848.4 feet to a point; thence West and parallel to the South line of said Section 641.5 feet to a point; thence North and parallel to the West line of said Section 848.4 feet to Point of Beginning, containing 12 1/2 acres, the South 10 feet thereof being used a public road in connection with the North 10 feet of the A. H. Cole tract adjoining.

3.3 ENVIRONMENTAL LIENS OR ACTIVITY AND USE LIMITATIONS

The City was unaware of any information regarding environmental liens or activity and use limitations (AUL) for the subject property. According to the EDR Environmental LienSearch™ Report, the subject property is owned by Kansas City, a municipal corporation of the State of Missouri. No environmental liens or AULs were identified by EDR (EDR 2012f) (see Appendix D).

3.4 SPECIALIZED KNOWLEDGE

Interviews with City employees provided historical knowledge on the subject property, as well as adjacent properties. The City also discussed a nearby former landfill and the HEHS (see Section 5.1). START reviewed available documents regarding the HEHS including the Phase I Site Characterization Report and the Summary of Closure Corrective Action Sampling Results (see Section 6.2.6).

In March 2011, on behalf of the City, Tetra Tech prepared a Phase I Environmental Site Assessment (ESA) of the Municipal Garden Farm Community Garden project, southeast of the subject property. At

the time, the City proposed to development a community garden in the area. In April 2011, Tetra Tech finalized a limited Phase II ESA of the Municipal Garden Farm Community Garden project. Based on sampling during the Phase II ESA, the soil and groundwater did not appear to have been affected by historical activities within the area proposed for the community garden or within adjacent properties (Tetra Tech 2011).

3.5 OWNER, SITE MANAGER, AND OCCUPANT INFORMATION

The subject property is owned by the City. Mr. Patrick Egberuare, Division Manager, City of Kansas City, Missouri Neighborhood & Housing Services Department, is considered the key site manager for the subject property. The subject property is currently used as an animal shelter.

3.6 REASON FOR PERFORMING PHASE I TBA

This TBA was requested by EPA to provide an environmental assessment of the 4400 Raytown Road property. This TBA intends to accurately assess the subject property to promote the sustainable reuse of the property, and, if necessary, identify areas requiring cleanup. The four main goals of the TBA program are protecting human health and the environment, sustaining reuse, promoting partnerships, and strengthening the market place. Although this TBA does not intend to satisfy the requirement for the innocent landowner defense to CERCLA liability, it does incorporate the “all appropriate inquiry into the previous ownership and uses of the property consistent with good customary practice,” as defined in 42 U. S. Code Section 9601 (35)(B).

4.0 SITE RECONNAISSANCE

START Team member Kaitlyn Bahr conducted the site reconnaissance on November 2, 2012.

Photographic documentation of the site reconnaissance is included in Appendix E.

4.1 METHODOLOGY AND LIMITING CONDITIONS

The site reconnaissance consisted of a visual inspection of the subject property in accordance with requirements set forth in 40 CFR Part 312. The purpose of the reconnaissance of the subject property was to seek out “conditions indicative of releases or threatened releases” as required by ASTM 1527-05.

START conducted the reconnaissance of the subject property for evidence of the following:

- Use, storage, treatment, disposal, or generation of hazardous substances, “controlled substances,” or petroleum products
- Landfills, dumps, or evidence of burial activities or solid waste disposal
- Aboveground storage tanks (AST), underground storage tanks (UST), drums, or containers capable of storing hazardous substances or petroleum products
- Transformers or other electrical or mechanical equipment potentially containing polychlorinated biphenyls (PCB)
- Evidence of petroleum-based heating fuel sources
- Drains, pits, sumps, cisterns, cesspools, or similar receptacles where liquids drain, collect, or are stored
- Pits, ponds, lagoons, or open pools likely to contain hazardous substances or petroleum products or waste
- Staining on pavement or areas of dead, distressed, discolored, or stained vegetation that may indicate RECs
- Grading or fill material that may indicate contaminated soils or dumping
- Chemical smells, petroleum gases, foul odors, wells, and/or other site-specific environmental conditions.

START mobilized to the subject property to observe current conditions and obtain additional information relevant to the TBA. START also observed the exteriors of adjacent and select nearby properties to assess presence of environmental concerns.

Any items listed in the ASTM method not identified in this section can be assumed not present. Likewise, any item mentioned but not identified as a REC can be assumed not a REC. General recommendations regarding the subject property are offered in Section 8.0.

4.2 GENERAL SITE SETTING

The following sections describe the subject property's current and past uses and exterior and interior features.

4.2.1 Site Description

The subject property currently encompasses an area of approximately 1.9 acres with three buildings encompassing approximately 12,000 square feet. The subject property is currently owned by the City and is used as an animal shelter by the Kansas City Pet Project.

4.2.2 Exterior Observations

The subject property is at the base of a sloping forested area, with drainage flowing from the subject property north-northeast toward Raytown Road. The subject property building is constructed of metal and concrete with a metal roof. The subject property building is surrounded by a paved parking lot on the north and west sides, and by a paved driveway on the south and east sides. A gravel road extends from the paved parking lot on the west side of the subject property into the wooded area beyond (see Appendix E, Photographs 2 through 6).

4.2.3 Interior Observations

The interior of the subject property building is finished with the following materials: drywall, floor tile, and ceiling tile in the offices, surgery rooms, bathrooms, and the cat kennel rooms. The dog kennel room has concrete floors and metal walls (see Appendix E, Photographs 22 and 24 through 26). A garage on the east side of the subject property building has metal walls and a concrete floor. Two incinerators are at the subject property—one with one smokestack in the garage on the south side of the building, and one on the east side of the building (see Appendix E, Photographs 16 and 18).

4.3 SPECIFIC RECONNAISSANCE ITEMS

The following sections are related to items observed during reconnaissance.

4.3.1 Hazardous Substances and Petroleum Products

Various cleaning products, including aerosols, are used for cleaning purposes at the subject property. Presence of cleaning products does not pose a REC to the subject property.

4.3.2 Hazardous Waste

The animal shelter generates medical waste including used needles, animal parts, and other waste generated from surgeries. Most of the medical waste generated at the animal shelter is incinerated or disposed of through the city trash service. The animal shelter does have an air pollution permit according to the manager of the animal shelter; however personnel there could not provide a copy of the permit or any information about the permit. No evidence of discharge of hazardous waste was noted on the subject property.

4.3.3 Landfills, Dumps, Burials, or Solid Waste Disposal

Two incinerators are utilized at the subject property to dispose of medical waste and deceased animals from the shelter and city animal control. The gas-powered incinerators are used daily; ash generated from incineration is scooped out of the incinerator with shovels, disposed of in roll-away metal dumpsters, and collected by the city trash service (see Appendix E, Photographs 13, 16, and 18).

No landfills, dumps, evidence of burial activities, or solid waste disposal was observed on the subject property.

4.3.4 Storage Tanks

Underground Storage Tanks

No visual evidence of past or present on-site USTs—including pipes, pumps, or stains—was apparent during the site reconnaissance.

Aboveground Storage Tanks

No visual evidence of past or present on-site ASTs—including pipes, pumps, or stains—was apparent on the subject property during the site reconnaissance.

4.3.5 Polychlorinated Biphenyls-containing Equipment

One pole-mounted transformer was observed along the southern boundary of the subject property; it was labeled “no-PCBs” and was in good condition with no stains or leaks, and therefore does not pose a REC to the subject property (see Appendix E, Photograph 11).

4.3.6 Heating, Ventilation, and Air Conditioning System and Fuel Source

Heat is provided to the subject property building by the furnace located in a storage closet on the east side of the subject property building. The subject property building is cooled by four air conditioning units on the exterior west side of the subject property building (see Appendix E, Photograph 10). Presence of the heating, ventilation, and air conditioning units does not pose a REC to the subject property.

4.3.7 Drains, Sumps, Pools of Liquids, Standing Water, Cisterns, and Cesspools

No sumps, pools of liquid, standing water, cisterns, or cesspools were observed on the subject property at the time of the reconnaissance.

A stormwater drain was observed in the parking lot on the west side of the subject property (see Appendix E, Photograph 8). Floor drains were observed in the bathrooms, the dog kennel room, and the garage within the subject property building (see Appendix E, Photographs 17, 21, and 25). The animal control vehicles are cleaned out on the east side of the subject property after dropping off animals at the animal shelter. Waste water generated during cleaning of the vehicles flows into the stormwater drain in the parking lot and then drains toward Raytown Road. Presence of the stormwater drains does not pose a REC to the subject property.

4.3.8 Pits, Ponds, and Lagoons

No pits, ponds, lagoons, or open pools likely to contain or to have been used in disposal of hazardous substances or petroleum products, or for waste disposal or waste treatment, were observed on the subject property.

4.3.9 Stains or Corrosion and Stained Soil or Pavement

No stained soil or pavement or corrosion was observed on the subject property at the time of the site reconnaissance.

4.3.10 Areas of Dead, Distressed, Discolored, or Stained Vegetation

No areas of dead, distressed, discolored, or stained vegetation that indicate RECs were observed on the subject property during the site reconnaissance.

4.3.11 Possible Fill, Grading, or Solid Waste Disposal

Grading and disturbed soil were observed on the gravel road on the west side of the subject property. The reason for the disturbed soil is unknown, but this soil does not pose a REC to the subject property. No other evidence of fill, grading, or solid waste disposal was observed at the subject property. Presence of disturbed soil and grading does not pose a REC to the subject property.

4.3.12 Smells of Chemical Gases, Petroleum Products, or Noxious Odors

No smells of chemical gases or petroleum products were noted at the time of the site reconnaissance.

4.3.13 Wastewater and Stormwater Systems and Discharges

A stormwater drain was observed in the west parking lot and on the driveway by the garage door on the east side of the subject property building. No other wastewater systems or discharges were observed on the subject property. The stormwater drain does not pose a REC to the subject property.

4.3.14 Wells and Potable Water Supply

No dry, irrigation, injection, abandoned, or other wells were observed on the subject property.

4.3.15 Other Site-specific Environmental Conditions

No other site-specific environmental conditions were noted during the site reconnaissance.

4.4 VICINITY RECONNAISSANCE

The reconnaissance consisted of a survey of adjoining properties and land uses that could exert adverse environmental impacts on the subject property. The subject property is surrounded by open fields and forest land in all directions. Raytown Road is on the north side of the subject property.

5.0 INTERVIEWS

The objective of conducting interviews is to obtain information concerning RECs in connection with the subject property. This information was obtained verbally, as indicated below. Interviewees were cooperative and forthcoming with information, unless otherwise specified. Interview documentation is in Appendix F.

5.1 INTERVIEW WITH OWNER

The subject property is owned by the City. START interviewed Messrs. Gerald Williams (City Planning and Development Department) and Andrew Bracker (City Planning and Development Department Brownfields Coordinator) to identify past and current uses of the subject property (see Appendix F). According to Mr. Bracker, the subject property is used as an animal shelter.

Mr. Bracker provided historical information, as well as copies of reports regarding multiple properties surrounding the subject property. HEHS is southeast of the subject property. HEHS was used from the mid 1980s to 1993 to store hazardous substances, but this site was not permitted or equipped for these activities. This storage occurred in two structures historically associated with the Municipal Farm. HEHS was closed in 1993 after an inspection by MDNR. A consent decree was issued specifying cleanup requirements and limiting future use of the site to industrial/commercial use, leading to a deed restriction on the property (City 2009).

Mr. Bracker also mentioned a former landfill directly north of the subject property. The Raytown Road Landfill was operated by the City in 1971 and 1972. A soil cap was installed on the landfill after it closed in 1972. The landfill encompasses approximately 32.7 acres and runs parallel to Raytown Road and Raytown Road. The landfill accepted approximated 70,000 tons of waste, primarily residential, construction, demolition, and hospital waste (City 2009).

Mr. Bracker was not aware of: (1) any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the subject property; (2) any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the subject property, or (3) any notices from any government entity regarding any possible environmental violations relating to hazardous substances or petroleum products for the subject property.

5.2 INTERVIEWS WITH KEY SITE MANAGER

Mr. Patrick Egberuare, Neighborhood & Housing Services Department Division Manager, is considered the key site manager for the subject property. START interviewed Mr. Egberuare, and a transcription of the interview is in Appendix F. Mr. Egberuare stated that the animal shelter on the subject property was built in 1973, and that the vacant lot directly north of the animal shelter was once a landfill.

5.3 INTERVIEWS WITH CURRENT OCCUPANTS

Ms. Teresa Johnson is the Shelter Director for the KC Pet Project and a current occupant of the animal shelter. Ms. Johnson escorted Ms. Bahr around the subject property building during the site reconnaissance and provided information about the shelter's daily activities. Ms. Johnson stated that the two incinerators at the subject property are gas powered and are used daily. The incinerators burn medical waste, deceased animals brought in by animal control and private citizens, and animals euthanized at the animal shelter. The animal shelter has an air pollution permit for the incinerators; however, Ms. Johnson did not have any information about the permit and could not provide a copy of the permit.

According to the Municipal Farm Area-Wide Brownfields Plan, the animal shelter currently has an Air Pollution Control Operating Permit that expires in 2014 for the animal incinerator (Environmental Advisors and Engineers, Inc. [EAE] 2012). According to Ms. Johnson, ash generated by the incinerators is removed with a shovel, placed in a wheelbarrow, and disposed of in metal roll-away dumpsters collected by Deffenbaugh trash service.

5.4 INTERVIEWS WITH PAST SITE OWNERS/OCCUPANTS

No interviews were conducted with past owners/occupants of the subject property based on the consistent, observed use of the subject property as an animal shelter in the reviewed historical information.

5.5 INTERVIEWS WITH LOCAL/STATE GOVERNMENT OFFICIALS

START also interviewed Mr. Don Stein with the Kansas City Missouri Fire Prevention Division regarding the subject property. Mr. Stein stated that no records dated within the previous 12 years had been found through the Hazardous Materials Team, no permits had been issued for installation or removal of any fuel storage tanks within the last 4 years, and the most recent fire prevention inspection had occurred on September 12, 2012, resulting in discovery of one non-environmental violation that

subsequently was corrected during the 30-day grace period. Mr. Stein stated that he was not aware of any environmental- or fire-related responses to the subject property.

6.0 RECORDS REVIEW

The purpose of the records review is to obtain and review records that will help identify RECs in connection with the subject property.

6.1 ENVIRONMENTAL RECORDS SOURCES

The following sources of environmental records were accessed and reviewed as part of this assessment.

6.1.1 Environmental Database Search

Federal, state, regional, and local records were reviewed to assess whether the subject property or surrounding properties have undergone significant unauthorized releases of hazardous substances or other events with potentially adverse environmental effects. EDR performed a database search of the subject property in accordance with ASTM E 1527-05 (EDR 20012a). A copy of this report is included as Appendix G.

The databases searched have been developed and are updated by federal, state, and local agencies. While these databases generally are reliable and comprehensive, cases in which data are out of date and no longer reflect actual property conditions may occur. The Government Records Searched/Data Currency Tracking section of the environmental report identifies when each record was updated (see Appendix G).

The database search identifies properties with environmental records from numerous federal, state, tribal, and local regulatory agencies, and their distances from a specified geographic location (typically the perimeter of the subject property). The environmental databases searched and their recommended search radii are listed on the Map Findings Summary on pages 4 through 6 of Appendix G.

The facilities cited in the environmental database are summarized on Table 6-1. The subject property was not identified in any of the databases searched by EDR. EDR identified six database listings for other facilities that could be mapped within the search radii, as well as 20 database listings for “non-geocoded” or “orphan” facilities that, because of poor or inadequate address information, could not be mapped by EDR.

TABLE 6-1

SUMMARY OF REGULATORY AGENCY DATABASE REVIEW

Database Searched	Search Distance (miles)	Subject Property Identified	Number of Other Facilities within Search Distance
Federal Records			
CERCLIS	0.50	No	1
RCRA-SQG	0.25	No	1
State and Local Records			
SHWS	1.00	No	1
UST	0.25	No	2
LUST	0.50	No	1
Total Number of Database Listings *			6

Notes:

* Note that a facility may occur in more than one database.

CERCLIS Comprehensive Environmental Response, Compensation, and Liability Information System
LUST Leaking Underground Storage Tank
RCRA Resource Conservation and Recovery Act
SHWS State Hazardous Waste Site
SQG Small Quantity Generator
UST Underground Storage Tank

START reviewed the facilities listed within the EDR Report (EDR 2012a), as summarized in Table 6-2. In some cases, additional review of MDNR or EPA records was necessary to determine whether a database listing posed an environmental issue to the subject property. Information gained during additional record review is summarized following Table 6-2.

TABLE 6-2

SUMMARY OF REGULATORY AGENCY DATABASE LISTINGS
WITHIN APPROPRIATE SEARCH RADII

Distance from Subject Property (miles)	Address	Direction from Subject Property	Facility Name	Database	Current Status	REC to Subject Property? (Basis)
0.125-0.25	Int of Raytown Rd & Eastern	NNW	Truman Sports Complex Park	UST	4,000-gallon UST containing gasoline was removed in 1998; no violations noted	No (status)
	Raytown Rd & Eastern Ave	NNW	Raytown Road	CERCLIS	Raytown Landfill is the alias for this site; no further remedial assessment in 2001	No (downgradient)
	4601 Eastern	W	Police Heliport	UST	One tank removed – NFA letter 7/31/2006; one tank removed – NFA letter 1/31/1994; one 560-gallon tank containing used oil is currently in use	No (crossgradient and status)
	4601 Eastern	W	Kansas City Police Helicopter	RCRA-SQG	No violations noted	No (crossgradient and status)
	8100 Ozark Road	SW	Municipal Correctional Institution	LUST	5,000-gallon gasoline UST removed; contamination was over-excavated, and site is closed	No (status)
				UST	Removed in 1994	
	6817 Stadium Drive	NNW	GM Leeds Plant	SHWS	The site has applied to be removed from this program; appeal is unresolved.	No (crossgradient)

TABLE 6-2 (Continued)

**SUMMARY OF REGULATORY AGENCY DATABASE LISTINGS
WITHIN APPROPRIATE SEARCH RADII**

Notes:

CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information System
LUST	Leaking Underground Storage Tank
NFA	No Further Action
NNW	North-northwest
RCRA	Resource Conservation and Recovery Act
REC	Recognized environmental condition
SHWS	State Hazardous Waste Site
SQG	Small Quantity Generator
SW	Southwest
UST	Underground Storage Tank
W	West

According to the EPA Envirofacts Warehouse, the former landfill, listed as Raytown Road in the CERCLIS database, was referred to the removal section. It was determined in 2001 that no further remedial assessment would be required, according to the CERCLIS database (EPA 2011). The former landfill is downgradient of the subject property and thus does not pose a REC to the subject property.

As noted above, EDR identified 20 database listings for “non-geocoded” or “orphan” facilities that, because of poor or inadequate address information, could not be mapped by EDR. According to a street map, on-line mapping resources, and information obtained during the site reconnaissance, none of these sites is within the appropriate search radius from the subject property.

6.1.2 Valuation Reduction for Environmental Issues

The City provided no information regarding valuation reduction for environmental issues associated with the assessed properties. The City was unaware of any information regarding environmental liens or AULs for the assessed property. No environmental liens at the subject property were identified in the search performed by EDR (EDR 20012f).

6.1.3 Engineering and Institutional Controls

As part of the environmental records search by EDR, federal and state databases for institutional and engineering controls were searched, including EPA’s Engineering Controls Sites List and Sites with Institutional Controls, the Navy’s Land Use Control Information System, and Missouri’s Department of Natural Resources AUL – Sites with Controls. No record information was reported.

6.1.4 Title Records

A copy of the title is included in Appendix D. According to the City of Kansas City, Missouri KC Mapper website, the tract of land that encompasses the subject property is “Sec 30-49-32 NW ¼, all that pt of NW ¼ ly E of Eastern Avenue and North of Ozark Road and swly of Raytown Road (ex W 180 thof)” (City 2012a) (see Appendix C). The subject property is owned by the City of Kansas City, Missouri. No indications of environmental liens or activity and use limitations were noted in the title information.

6.2 HISTORICAL USE INFORMATION FOR THE SITE AND ADJOINING PROPERTIES

Historical data regarding the subject property and surrounding area were gathered to determine past uses and evaluate visible environmental issues that may pose RECs. The following sections describe aerial photographs, Sanborn® maps, topographic maps, city directories, and past environmental reports that were available for the subject property. Historical use documentation referenced in the following sections is included as Appendix H.

6.2.1 Sanborn® Map Report

A search of Fire Insurance Maps was conducted by EDR (EDR 2012e). According to EDR, no Fire Insurance Maps were available for the subject property. However, the Mid-Continent Public Library had two Fire Insurance Maps available for the subject property (see Appendix H-1). The 1906-1917 and the 1909-1951 Fire Insurance Maps show the subject property as undeveloped land adjacent to the Men’s Reformatory. According to the maps, the Men’s Reformatory was built between 1911 and 1914. The Men’s Reformatory structure did contain a 30-gallon tank of some sort of oil enclosed in concrete. The buildings south of the Men’s Reformatory close to current-day Ozark Road are labeled as pig sties, feed building, stable and garage, canning factory, and a dwelling. West of the Men’s Reformatory the Fire Insurance Maps identify poultry houses, a dwelling, and a hot bed. Pesticides and other chemicals likely were used during grounds keeping activities near the pig sties, feed building, stable and garage, and canning factory. Historical releases to the subject property of petroleum products from the Men’s Reformatory tank, and of hazmat or hazardous waste from the adjacent facilities such as the Men’s Reformatory or farm structures could have occurred; however, because of the distances of these structures from the subject property and their locations crossgradient of the subject property, they do not pose RECs to the subject property.

6.2.2 Aerial Photographs

START reviewed aerial photographs of the subject property and surrounding area for the years 1955, 1957, 1963, 1969, 1970, 1979, 1986, 1990, 1996, 1997, 2005, 2006, and 2007 (EDR 2012b) (see Appendix H-2). Table 6-3 is a summary of information obtained from the aerial photographs.

TABLE 6-3
SUMMARY OF AERIAL PHOTOGRAPHS

Year	Comments
1955	<p>Subject Property: The subject property appears to be developed into multiple structures; however, the visibility is poor and features are difficult to distinguish.</p> <p>Surrounding Properties: Raytown Road is north of the subject property. The surrounding area is primarily agricultural land with sporadic improved roadways and farmsteads.</p>
1957	<p>Subject Property: The subject property appears similar to 1955.</p> <p>Surrounding Properties: The area surrounding the subject property appears similar to 1955. Multiple structures are visible associated with the former Tuberculosis Hospital to the west and former City of Kansas City, Missouri Health Emergency HAZMAT Site (HEHS) south of the subject property. The former Men's Reformatory is visible southeast of the subject property.</p>
1963	<p>Subject Property: The subject property appears similar to 1957.</p> <p>Surrounding Properties: The area surrounding the subject property appears similar to 1957.</p>
1969	<p>Subject Property: The subject property appears similar to 1963.</p> <p>Surrounding Properties: The area surrounding the subject property appears similar to 1963. The Municipal Correctional Institution (MCI) is visible to the southeast, and disturbed land for construction of the sports stadiums appears to the north. I-435 highway is visible to the west.</p>
1970	<p>Subject Property: The subject property appears similar to 1969.</p> <p>Surrounding Properties: The area surrounding the subject property appears similar to 1969. A clearing is visible north of the subject property but south of Raytown Road, likely associated with the former landfill. The animal shelter is buildings are constructed.</p>
1979	<p>Subject Property: The subject property appears to be developed for its current use as an animal shelter.</p> <p>Surrounding Properties: The area surrounding the subject property appears similar to 1970. The National Guard Armory is visible southwest of the subject property. The cellular communications tower is present southeast of the subject property in a grassy area. Construction of the sports stadiums has been completed. The Tuberculosis Hospital and Women's Reformatory are no longer visible.</p>
1986	<p>Subject Property: The subject property appears similar to 1979.</p> <p>Surrounding Properties: The area surrounding the subject property appears similar to 1979. The landfill appears to be grown over with grass and is no longer disturbed.</p>
1990	<p>Subject Property: The subject property appears similar to 1986.</p> <p>Surrounding Properties: The area surrounding the subject property appears similar to 1986.</p>

TABLE 6-3 (Continued)

SUMMARY OF AERIAL PHOTOGRAPHS

Year	Comments
1996	Subject Property: The subject property appears similar to 1990. Surrounding Properties: The area surrounding the subject property appears similar to 1990. Apparently, some of the HEHS buildings have been demolished, and area is growing over with brush.
1997	Subject Property: The subject property appears similar to 1996. Surrounding Properties: The area surrounding the subject property appears similar to 1996.
2005	Subject Property: The subject property appears similar to 1997. Surrounding Properties: The area surrounding the subject property appears similar to 1997. The former Men’s Reformatory has been demolished. Woods appear to be growing over the former Municipal Farm and HEHS structures.
2006	Subject Property: The subject property appears similar to 2005. Surrounding Properties: The area surrounding the subject property appears similar to 2005.
2007	Subject Property: The subject property appears similar to 2006. Surrounding Properties: The area surrounding the subject property appears similar to 2006.

Aerial photographs can be used in conjunction with other historical records presented in this section to determine previous land use on the subject property. According to the EPA Envirofacts Warehouse, the former Raytown Road landfill, shown directly north of the subject property in aerial photographs, was referred to the removal section. In 2001, according to the CERCLIS database, it was determined that no further remedial assessment would be required (EPA 2011). The former landfill is downgradient of the subject property and does not pose a REC to the subject property. The former City HEHS site is located upgradient of the subject property. As noted above, the HEHS was used to store hazardous substances, but this site was not permitted or equipped for these activities. A consent decree was issued specifying cleanup requirements and limiting future use of the site to industrial/commercial use, leading to a deed restriction on the property. Based on the historical practices of the HEHS and its upgradient location, runoff from the former HEHS site poses a REC to the subject property.

6.2.3 Historical Topographic Maps

Topographic maps can be used as indicators of land use and structural changes on the subject property, and thus can help determine historical land use that might pose an environmental issue to the subject property. START reviewed USGS Independence, Missouri quadrangle topographic maps of the subject property and surrounding area for the years 1894, 1940, 1957, 1964, 1970, 1975, 1990, and 1996 (EDR 2012c) (see Appendix H-3). Table 6-4 is a summary of information obtained from the historical topographic maps.

TABLE 6-4
SUMMARY OF HISTORICAL TOPOGRAPHIC MAPS

Year	Description
1894	No structures appear on the subject property. The Raytown Road is visible north and the Missouri Pacific Railroad north and east of the subject property.
1940	The subject property appears similar to 1894. Raytown Road is visible north of the subject property, the Municipal Farm is visible south, the Kansas City Tubercular Hospital is visible west, and various small residences are visible in all directions from the subject property. A cemetery is shown between the Tuberculosis Hospital and the Women’s Reformatory.
1957	The subject property appears similar to 1940. The Women’s Reformatory appears to the southwest and the Men’s Reformatory appears south of the subject property.
1964	The subject property and surrounding area appear similar to 1957. I-435 is being built to the west of the subject property.
1970	The subject property and surrounding area appear similar to 1964. The Truman Sports Complex has been constructed to the northeast. The MCI is being built to the southeast of the subject property.
1975	The subject property building is visible and the surrounding area appears similar to 1970. The Tuberculosis Hospital is no longer visible and the Missouri National Guard Armory is visible to the south of the subject property.
1990	The subject property building is visible and the surrounding area appears similar to 1975.
1996	The subject property building is visible and the surrounding area appears similar to 1990.

Review of topographic maps did not identify specific potential source areas or environmental issues; however, topographic maps can be used in conjunction with other historical records presented in this section to determine previous land use on the subject property.

6.2.4 City Directories

START reviewed city directory listings for the subject property at 4400 Raytown Road, Kansas City, Missouri, and nearby properties for the years 1909, 1920, 1925, 1930, 1935, 1940, 1945, 1951, 1956, 1961, 1966, 1970, 1975, 1980, 1985, 1990, 1995, 2000, 2006, 2007, and 2012 (EDR 2012d) (see Appendix H-4).

City directories can be used in conjunction with other historical records presented in this section to determine previous land use on the site. Review of city directories identified the address of the subject property as Municipal Animal Shelter in 1951, 1956, 1961, and 1970. The Champlin Oil & Gas, Bens Service Station Gas Station, Cox Virgil, and Bens Service Station were identified successively at 4329 Raytown Road in the city directories from 1951-1966.

The gas station identified at 4329 Raytown Road is 0.13 mile west of the subject property. Historical releases to the subject property of petroleum products, hazmat, or hazardous waste from this adjacent facility could have occurred; however, the facility does not pose a REC to the subject property because of its location crossgradient of the subject property.

6.2.5 Other Historical Documents

START reviewed additional historical aerials provided by the City. Table 6-5 presents a summary of additional historical information obtained. These documents are provided in Appendix H-5 (City 2012b).

TABLE 6-6
SUMMARY OF OTHER HISTORICAL DOCUMENTS

Year	Description
1922	The 1922 historical aerials show a cleared area on the subject property, but it is difficult to determine if buildings are present. The Men’s Reformatory is southeast of the subject property, with an area of clearing visible north of the building beyond the driveway. The Tuberculosis Hospital is to the west.
1925	The 1925 Atlas shows the Men’s Reformatory building to the southeast, the Women’s Reformatory beyond to the southwest, and the Tuberculosis Hospital to the west of the subject property.
1947	The 1947 historical aerials show the animal shelter building on the subject property. The Men’s Reformatory is southeast, the HEHS is south, the Women’s Reformatory is southwest, and the Tuberculosis Hospital is west of the subject property.
1955	The 1955 topographic map denotes one building on the subject property, the Men’s Reformatory southeast of the subject property. Outlines of the structures associated with the HEHS are visible south of the subject property. The former Women’s Reformatory is labeled as “Municipal Farm” southwest of the subject property. The Kansas City Tuberculosis Hospital is labeled west of the subject property.
1964	The subject property building is visible. The surrounding properties are similar to appearances in the 1947 photographs. The HEHS is south of the subject property.
1966	The subject property is visible in the 1966 aerial photographs from several angles. The land north and east of the subject property appears to be undeveloped. The HEHS is visible south, the Men’s reformatory southeast, the Women’s Reformatory southwest, and the Tuberculosis hospital west of the subject property. Raytown Road is visible directly northwest of the subject property.

According to the EPA Envirofacts Warehouse, the former Raytown Road landfill (shown directly north of the subject property in aerial photographs) was referred to the removal section. In 2001, according to the CERCLIS database, it was determined that no further remedial assessment would be required (EPA 2011). The former landfill is downgradient of the subject property and thus does not pose a REC to the subject property. The Men’s Reformatory and MCI are shown adjacent to the subject property in the aerial photographs. The Men’s Reformatory and MCI both housed a tank that contained a petroleum product, according to the fire insurance maps and the environmental database search. The Men’s

Reformatory and MCI likely used pesticides and other chemicals during groundskeeping activities. Historical releases to the subject property of petroleum products from the Men's Reformatory tank, and of hazmat or hazardous waste from the adjacent facilities such as the Men's Reformatory or MCI could have occurred; however, because of the distances of these structures from the subject property and their locations crossgradient of the subject property, they do not pose RECs to the subject property. The HEHS is south of the subject property. In the mid 1980s, the City Health Department began to use a small, rectangular, fenced-in area including two structures to store HHW, school laboratory waste, and other hazardous wastes generated by City operations and hazmat cleanups. This site was not permitted to accept or store hazardous waste. A deed restriction has been filed regarding the HEHS property. Based on the location of this facility upgradient of the subject property, it poses a REC to the subject property.

6.2.6 Previous Reports

According to the Municipal Farm Redevelopment Site Analysis, the former Raytown Road Landfill is directly north of the subject property. The landfill encompasses approximately 32.7 acres and runs parallel to Raytown Road and Raytown Road. The landfill was operated by the City in 1971 and 1972. A soil cap was installed on the landfill after it closed in 1972. The landfill accepted approximated 70,000 tons of waste—primarily residential, construction, demolition, and hospital waste (City 2009). According to the EPA Envirofacts Warehouse, the former landfill was referred to the removal section. In 2001, according to the CERCLIS database, it was determined that no further remedial assessment would be required (EPA 2011). The former landfill is downgradient of the subject property and thus does not pose a REC to the subject property.

The Municipal Farm Redevelopment Site Analysis listed Potters Field Cemetery as an environmental issue. According to this document, the City buried paupers, tuberculosis victims, and murder victims in a Potters Field just north of the National Guard Armory from around 1900 to 1940 (City 2009). This cemetery is crossgradient of the subject property and does not pose a REC to the subject property.

A Phase I Site Characterization report, Investigation Addendum Report and Remedial Action Plan, Closure Plan, and a Summary of Closure Corrective Action Sampling Results were prepared on behalf of the City by Burns & McDonnell Waste Consultants, Inc., for the HEHS. The HEHS is south of the subject property. In the mid 1980s, the City Health Department began to use a small, rectangular, fenced-in area that contained two structures to store household hazardous waste (HHW), school laboratory waste, and other hazardous wastes generated by City operations and hazmat cleanups. This site was not permitted to accept or store hazardous waste. In November 1993, the City received a Notice of Violation

(NOV) from the MDNR after an inspection found numerous violations. The State sought an assessment of penalties for the City's non-compliance. The State and the City agreed to settle the matter by entering into a Consent Decree. A deed restriction has also been filed for the HEHS property. Since that time, the HEHS property has been sampled, all the structures have been demolished, the contaminated soil has been excavated, and the site has been closed (City 2008). The subject property is not included in the deed restriction (Burns & McDonnell Waste Consultants, Inc. 1999). Surface drainage from the HEHS drains northeast through the subject property toward Round Creek; therefore, HEHS poses a REC to the subject property.

EAE prepared an Area-Wide Brownfields Plan (AWBP) for the Municipal Farms properties to be used to facilitate sustainable reuse and development of the area. The AWBP includes known and potential Brownfields concerns, prior assessment and cleanup activities, background environmental studies, and results of sampling in the area. Brownfields and areas of potential concern were highlighted in the AWBP. The animal shelter on the subject property was discussed in the AWBP. A Phase I ESA of these areas was recommended as a preliminary investigation. Following the initial investigation, targeted screening or Phase II ESA sampling was recommended to assess presence of contamination at unacceptable levels. Based on available information, possibly present contaminants within these conceptual land use plan (CLUP) areas covering the subject property would have derived from applications of herbicides and pesticides, sawmill and dairy operations, grain silo and feed house operations, vehicle and machinery maintenance, storage tanks, quarry operations, hazardous waste storage at HEHS, storage houses, dust, fumes, rodenticides, and other Municipal Farm activities (EAE 2012).

The City provided a copy of the Municipal Farm Sustainable Reuse Plan prepared in 2012. That Plan provides a path to revitalize the city-owned property at Municipal Farm and the surrounding Eastwood Hills Neighborhood. The Plan sets the stage for assessment and required cleanup of known and potential Brownfields (including the subject property); restoration of the site's natural resources; and proactive, sustainable development that embraces research, innovation, and recreation. The subject property is discussed under the sections specific to conceptual land use plan (CLUP) area 19. Based on the Sustainability Reuse Plan, the subject property is likely to be reused for future institutional/civic and/or destination commercial use based on its location, physiography, and relationship to the land uses on the remainder of the Municipal Farm site. The Plan recommended a preliminary environmental assessment of the former agricultural use areas and the Kansas City, Missouri Animal Shelter. The Plan also recommended additional historical research and interviews with local experts regarding the possibility of unknown contamination from unknown animal shelter practices, possible use of rodenticides in the vicinity of the animal food storage, and dust or fumes associated with the on-site animal incinerators.

Moreover, the Plan recommended additional investigations of the former agricultural use sub-area, including sampling of the sediment and drainage relief point downgradient of most of the area (City 2012c).

7.0 FINDINGS AND OPINIONS

The following findings and opinions resulted from the TBA, primarily based on interviews and examination of historical documentation:

- Interviews and historical documentation revealed that the City of Kansas City HEHS is closely proximate to the subject property. In the mid 1980s, the City Health Department began to use a small, rectangular, fenced-in area including two structures to store HHW, school laboratory waste, and other hazardous wastes generated by City operations and hazmat cleanups. This site was not permitted to accept or store hazardous waste. A deed restriction has been filed regarding the HEHS property. Based on the location of this facility upgradient of the subject property, it poses a REC to the subject property.
- Based on historical and current use of the subject property as an animal shelter, storage of animal food there likely was accompanied by use of pesticides and rodenticides. Possible presence of pesticide and/or rodenticide contamination poses a REC to the subject property.
- EAE prepared an AWBP for the Municipal Farms properties to be used to facilitate sustainable reuse and development of the area. Based on available information, possibly present contaminants within these CLUP areas covering the subject property would have derived from applications of herbicides and pesticides, vehicle and machinery maintenance, storage tanks, quarry operations, hazardous waste storage at HEHS, rodenticides, and other Municipal Farm activities.
- The Municipal Farm Sustainable Reuse Plan, prepared by the City and several stakeholders, provides a path to revitalize the city-owned property at Municipal Farm. That Plan recommended the following: (1) a preliminary environmental assessment of the former agricultural use areas and the Kansas City Missouri Animal Shelter; (2) an evaluation of ongoing practices in the operation of on-site animal incinerators for compliance with the Air Pollution Operating Permit; (3) an evaluation of procedures for use, storage, and handling of any hazmat such as rodenticides for compliance with federal and state regulations; and (4) additional investigations of former croplands, including sampling of sediment at the drainage relief point downgradient of most of the area (a biased sampling location).

To summarize, possible presence of hazardous waste contamination derived from incineration of medical waste and deceased animals, and possible current and past uses of rodenticides and/or pesticides at the subject property pose RECs to the subject property. Moreover, unpermitted storage of hazardous waste at the HEHS facility (derived from school laboratory waste), other hazardous wastes generated by City operations and hazmat cleanups there, and location of that facility upgradient of the subject property pose RECs to the subject property.

8.0 CONCLUSIONS AND RECOMMENDATIONS

START has performed a TBA in conformance with the scope and limitations of ASTM E 1527-05 for the animal shelter site in Kansas City, Jackson County, Missouri. Exceptions to, or deletions from, this practice are described in Section 1.4 of this report. Based on available information, this assessment has revealed evidence of several RECs and environmental issues in connection with the subject property, as described in Section 7.0.

Because this Phase I TBA is predominantly based on a review of available public records, and according to accepted practices, no official judgment about levels or extent of contamination associated with any site can be made without conducting an environmental investigation that includes sampling and chemical analysis, START recommends a Phase II ESA of the subject property to confirm or eliminate the RECs identified in the Phase I investigation:

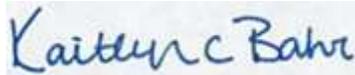
- Collect surface and subsurface soil and sediment samples for laboratory analyses. Analyze the samples for volatile organic compounds (VOC), semivolatile organic compounds (SVOC), the eight Resource Conservation and Recovery Act (RCRA) metals, herbicides, and pesticides.
- Install four temporary monitoring wells and sample groundwater for the same analytes as the soils samples. Collect filtered and unfiltered groundwater samples for the analyses for RCRA metals. If groundwater is present, analyze it for total dissolved solids. As part of the Phase II ESA, START will calculate the hydraulic conductivity of the groundwater, if groundwater is encountered.
- Collect a soil sample from the subject property to classify the soil type based on grain size. That information would be used to help determine the appropriate Tier 1 risk-based target levels under the current Missouri-Risk Based Corrective Action (MRBCA) model if contaminants are identified at the site.

9.0 CERTIFICATION STATEMENT

Resumes of the Environmental Assessor who conducted the site reconnaissance and the Environmental Professional who prepared the report and oversaw completion of this work are provided in Appendix I. We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in 40 CFR Part 312.10. We have the specific qualifications based on education, training, and experience to assess the nature, history, and setting of the subject property addressed in this report. We have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312, and attest to the completeness and accuracy of the information contained in this report.

If you have any questions concerning the findings and conclusions contained in this report, please call START Program Manager Ted Faile at (816) 412-1754 and START Project Manager David Zimmermann at (816) 412-1788.

Assessor



Kaitlyn Bahr
Environmental Scientist

Environmental Professional



Stephanie Luebbering, CHMM
Environmental Scientist

10.0 REFERENCES

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APPENDIX A
STATEMENT OF WORK

**EPA Targeted Brownfields Assessment
TASK ORDER
KCMO Municipal Farms
Animal Shelter Site 4400 Raytown Road
LaFarge Site 4701, 4721, and 4725 E. Coal Mine Road
MCI Site 8100 Ozark Road
Kansas City, MO 64129
October 19, 2012**

1.0 Introduction/Background Discussion

The EPA's Targeted Brownfields Assessment (TBA) program is designed to assist States, tribes and local governments to minimize the uncertainties of contamination often associated with brownfields. TBAs supplement and work with other efforts under EPA's Brownfields Program to promote cleanup and redevelopment of brownfields properties.

The City of Kansas City, Missouri has requested EPA to perform Phase I and Phase II environmental site assessments on the KCMO Municipal Farms:

1. Animal Shelter Site located at 2200 Raytown Road in Kansas City, Jackson County, Missouri 64129.
2. LaFarge Site located at 4701, 4721, and 4725 E. Coal Mine Road Kansas City, Jackson County Missouri 64130.
3. MCI Site and located at 8100 Ozark Road Kansas City, Jackson County Missouri 64129.

2.0 Site Description

The Animal Shelter Site covers 1.9 acres and contains three (3) buildings with a total square footage of approximately 12,000 sq ft. The LaFarge Site covers 49.5 acres and contains two Public Works facility buildings at 4721 and 4725 E. Coal Mine Road. The MCI Site covers 21.8 acres and contains a radio tower.

2.1 Location

The Municipal Farms Site consists of three areas located at the following locations:

1. Animal Shelter Site located at 2200 Raytown Road in Kansas City, Jackson County, Missouri 64129.
2. LaFarge Site located at 4701, 4721, and 4725 E. Coal Mine Road Kansas City, Jackson County Missouri 64130.
3. MCI Site and located at 8100 Ozark Road Kansas City, Jackson County Missouri 64129.

2.2 Description and Current Conditions of Sites

The referenced properties were historically used as an animal shelter, mining, concrete batch plant, correctional institution, and canning factory in addition to various agricultural uses. The Site may contain various products associated with previous and current uses such as rodenticides, insecticides, and other agricultural and commercial uses, etc. Access to the site is being provided through an agreement with the property owner/applicant.

3.0 History of Operation

The Site has been used as an animal shelter, mining, concrete batch plant, correctional institution, and canning factory in addition to various agricultural uses. Other potential contaminants may occur from possible petroleum contamination or the site's historical mining, canning, concrete batch plant or as a correctional institution.

4.0 Summary of Pertinent Previous Investigations

EPA Region 7 does not have any record of previous investigations. Information regarding previous investigations may be obtained from the Applicant.

5.0 Scope of Work

The contractor shall perform a Phase I and Phase II environmental site assessment (ESA) on the property. Structures at the site will be sampled for Asbestos Containing Material Survey and have a Lead Based Paint Survey performed.

The Phase I ESA will identify any potential recognized environmental conditions (REC) located on or in the vicinity of the sites in accordance with ASTM Standard E 1527-05, Standard Practice for Phase I Environmental Site Assessments, and conduct an inventory of household hazardous waste and hazardous waste identified at the Site. The Phase II ESA will further assess the site in accordance with ASTM Standard E 1903-97-11, Standard Guide for Phase II Environmental Site Assessments.

The Phase II ESA Report will include an Assessment of Brownfield Cleanup Alternatives and cost estimate for Cleanup Alternatives. A completed Property Profile Form will also be included in the Report.

6.0 Description of Tasks

Task 1 – ASTM/AAI Phase I and Phase II ESA and Reporting

The contractor will conduct the Phase I ESAs in accordance with EPA's final regulations governing All Appropriate Inquiries (40 CFR 312) or ASTM International's E 1527-05 and E1903-97-11 standard for Phase I & II ESAs as well as the guidance documents

listed at the end of this task order.

From the information and documents reviewed for the Phase I and Phase II ESAs and inclusive of all EPA comments on the draft report, the contractor shall prepare 3 bound color hard copies and one electronic copy of each of the ASTM/AAI Phase I and Phase II site investigation reports covering the individual site and including a property profile form for the site. The report will detail the execution of the site inspections and summarize the findings of the site investigation. All hard copies and the electronic copy will be provided to the EPA Project Contact identified below.

6.1 Quality Assurance Project Plan (QAPP)

The Contractor shall prepare a Quality Assurance Project Plan for the environmental assessment. If structures are found on the properties the QAPP may include lead based paint and asbestos surveys to be performed during the Phase II Environmental Site Assessment. The QAPP shall present the objectives, organization, activities, and quality control procedures that will be employed to ensure that all technical data generated during the assessment and the asbestos and lead-based paint surveys are accurate and representative of the conditions at the project site. The QAPP shall contain a Title and Approval Page. A draft version of the QAPP shall be submitted to the EPA Task Order Project Officer (TOPO) and must be approved by the EPA TOPO prior to conducting the surveys. Electronic submittal is acceptable for the QAPP. For guidance on creating a QAPP, refer to the guide EPA Requirements for Quality Assurance Project Plans (QA/R-5) found at: <http://www.epa.gov/quality/qs-docs/r5-final.pdf>

6.2 Phase I Environmental Site Assessment

The Contractor shall conduct a Phase I Environmental Site Assessment (ESA) in accordance with the American Society for Testing and Materials (ASTM) Standard Practice for Environmental Site Assessments, E1527-05, to meet the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) “all appropriate inquiry” standard and identify all “recognized environmental conditions” associated with the property. The Phase I ESA shall be as complete as possible with all ASTM requirements attempted and documented (including title search for environmental liens, assessments of any specialized knowledge or experience of the prospective landowner, and commonly known or reasonably ascertainable information the prospective purchaser is aware of.). The Phase I ESA shall be submitted in draft and final versions.

6.3 Phase II Environmental Site Assessment

The Contractor shall conduct a limited Phase II Environmental Site Assessment (ESA) in accordance with the American Society for Testing and Materials (ASTM) Standard Practice for Environmental Site Assessments, Standard E 1903-97-11, Standard Guide for Phase II Environmental Site Assessments, to meet the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) “all appropriate inquiry” standard. The Phase II ESA shall be submitted in draft and final versions.

6.3.1 Asbestos Containing Materials (ACM) Survey

The Contractor may conduct an Asbestos Survey on the building. Personnel conducting the asbestos inspection shall be licensed. The asbestos survey, if necessary, shall be conducted in accordance with the protocols established by EPA regulation 40 CFR 763, the Asbestos Hazard Emergency Response Act (AHERA). Inspectors shall be properly attired and shall use wet sampling methods as applicable to reduce the potential for fiber release. Inspectors shall visually assess the interior and exterior of the building to identify homogeneous areas of materials suspected to contain asbestos. A physical assessment of each homogeneous area of suspect ACM shall be conducted to assess the condition of the material as friable or non-friable as classified by NESHAP, i.e. Friable, Non-friable Category I or Non-friable Category II. Based on results of the visual assessment, bulk samples of suspect ACM shall be collected. Samples shall be placed in sealable containers and labeled with unique sample numbers using indelible marker. Samples shall be submitted under chain of custody procedures to a Licensed and NVLAP accredited laboratory for analysis by Polarized Light Microscopy (PLM). A representative number of samples with low asbestos results (less than 3 percent) shall be analyzed by Point Count. Each homogeneous area shall be identified and noted as such in the field notes, and location where the sample is taken shall be identified at the location of the sampled item using a label, or permanent marker. The Inspector shall photograph each sample location and shall show location on a sketch or drawing. The Inspector shall estimate the quantity (e.g., sq. ft., linear feet, each) of each building component containing ACM. All investigative derived waste shall be collected and removed from the building and disposed of according to current regulations.

6.3.2 Asbestos Survey Report

The results of the survey must be documented in a report signed by the licensed asbestos inspector. There are no known as-built drawings, renovation records, etc., of the buildings so the inspector must prepare a floor plan sketch or drawing to record sample locations. At a minimum, the sketch shall include outside dimensions in feet. The report shall include the sketch or drawing showing sample locations, photo of sampled area, presentation of test results, friable category, copies of the lab report, and estimated quantities. The report shall also provide rough order of magnitude cost estimates for asbestos abatement (that will be used for budgetary planning). The abatement costs should be sufficiently detailed to show quantity and how costs were derived. The Asbestos Survey Report shall be combined with the Lead-Based Paint Survey Report with combined cover page titled, "Targeted Brownfields Assessment Survey Reports for Asbestos Containing Materials and Lead-Based Paint at the KCMO Municipal Farms Site".

6.3.3 Lead-Based Paint Survey

The Contractor may conduct a lead-based paint survey on the buildings in accordance with H.U.D. guidelines. The LBP survey, if necessary, shall be conducted by a licensed lead inspector. Screening of painted surfaces on the interior and exterior of the buildings shall be conducted using a portable X-Ray Fluorescence (XRF) analyzer. Standard operating procedures for the instrument shall be followed.

6.3.4 Lead-Based Paint Survey Report

The results of the survey must be documented in a report signed by the licensed lead inspector. All test readings shall be reported including negative and inconclusive readings. A building sketch shall be included showing general locations of LBP materials and photos shall be provided. Approximate quantities of LBP materials shall be provided. The report shall also provide rough order of magnitude cost estimates for lead abatement (that will be used for budgetary planning). The abatement costs should be sufficiently detailed to show quantity and how costs were derived. The Lead-Based Paint Survey Report shall be combined with the Asbestos Survey Report.

7. Project Schedule

- The contractor will submit to the EPA Project Contact identified below an electronic copy of a 90% draft submittal of the site investigation reports within 60 days from the date the sites are assigned to the contractor.
- Comments will be made and returned to the contractor within 60 business days.
- The final deliverables as described above are due 30 business days after EPA provides comments on the draft reports.

8. Project Contacts

Todd H. Davis, Site Assessment Manager, EPA Region 7
Phone: 913-551-7749
Email: davis.toddh@epa.gov
Address: US EPA Region 7
Todd H. Davis
901 N 5th Street
Kansas City, KS 66101

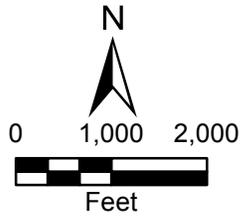
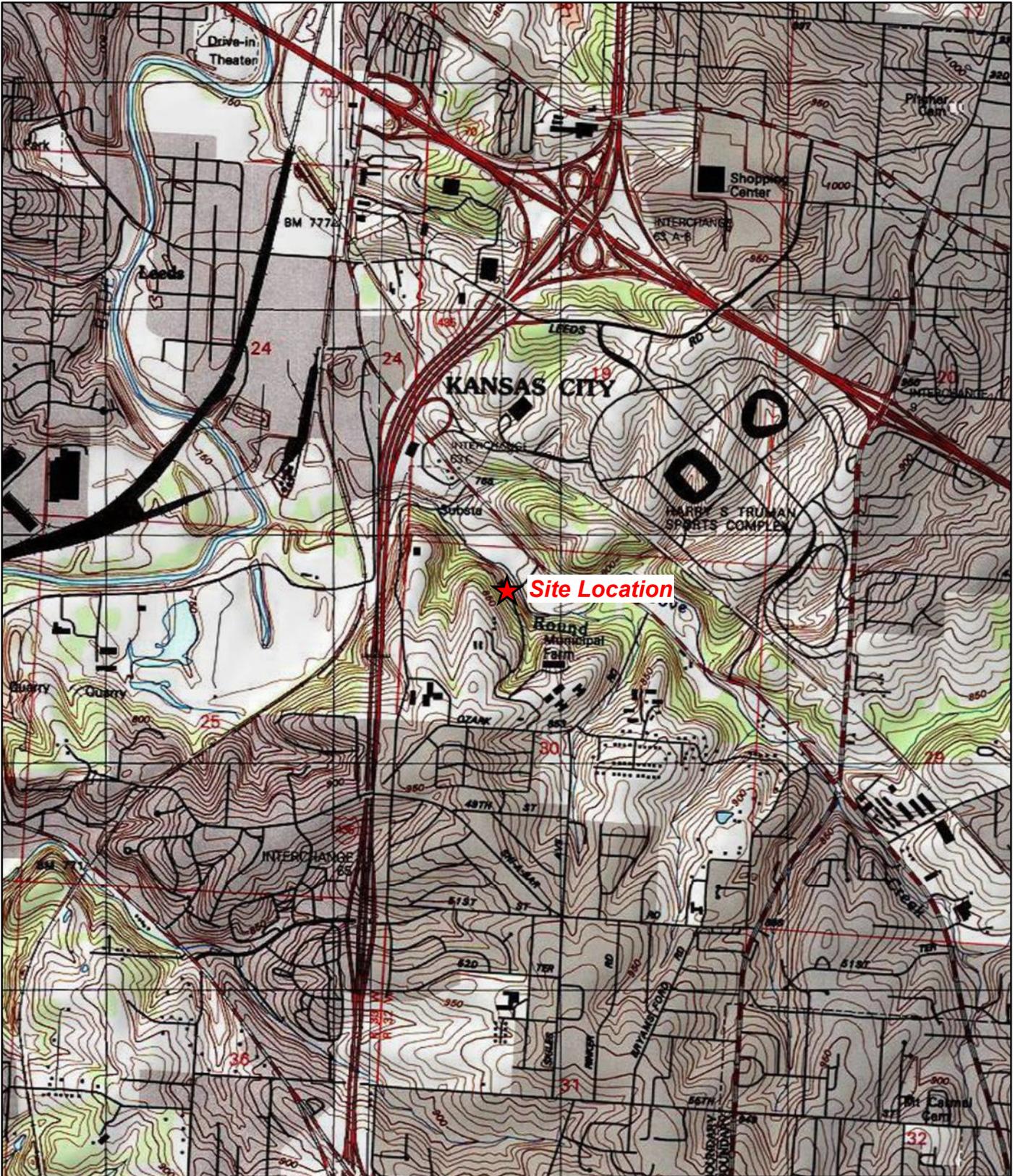
Guidance Documents/References

- “Standard Practice for Environmental Site Assessment: Phase I Environmental Site Assessment Process,” ASTM, E 1527-00
- “Standard Practice for Environmental Assessments: Phase II Environmental Site Assessment Process,” ASTM 1903-97; and
- “Generic Quality Assurance Project Plan for the Superfund Site Assessment and Targeted Brownfields Assessment Programs,” EPA-Region VII, Superfund Division,

July 2007

APPENDIX B

FIGURES



Kansas City Municipal Farms - Animal Shelter
 4400 Raytown Road
 Kansas City, Missouri

Figure 1
 Site Location Map



Source: USGS Independence, MO 7.5 Minute Topo Quad, 1996
 USGS Kansas City, MO 7.5 Minute Topo Quad, 1996

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Legend

- Major road
- Street
- Stream/River
- Approximate subject property boundary
- HEHS Health Emergency Hazmat Site

Kansas City Municipal Farms - Animal Shelter
 4400 Raytown Road
 Kansas City, Missouri

Figure 2
 Site Layout Map



X:\93004\002\015\022\Animal_Shelter\Projects\mxd\Figure2.mxd

Source: ArcGIS Online, Bing Maps Hybrid, 2012; HSIP Gold, 2007

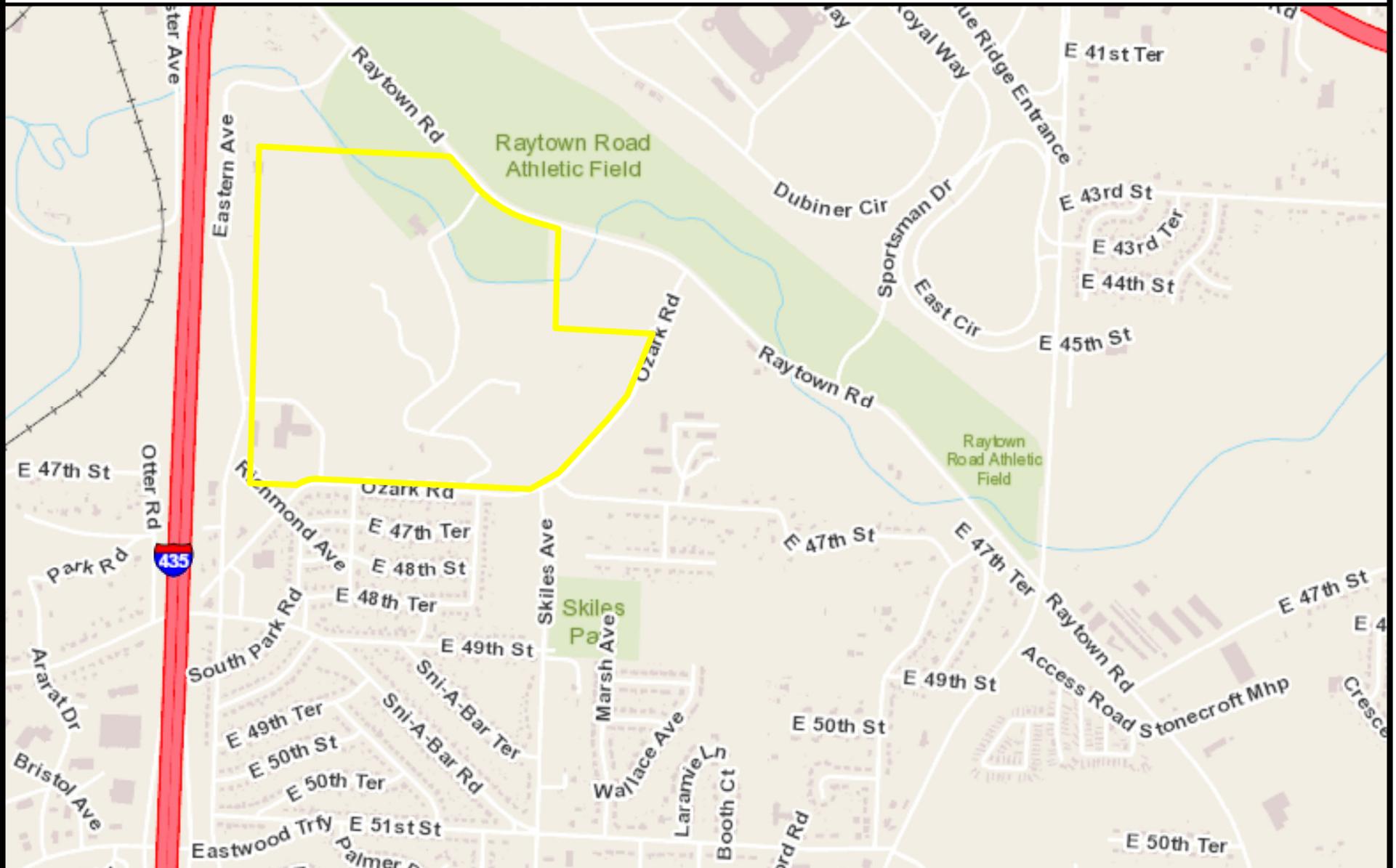
Date: 12/7/12

Drawn By: Nick Wiederholt

Project No: X9004.L06.0002.015.022

APPENDIX C
USER-PROVIDED INFORMATION

My Map



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0 740 1,480 Feet

Printed Date: 10/26/2012



My Map

Pin: 50340

APN: JA3242002010000000

Subdivision:

Block:

Lot:

Owner: CITY OF KANSAS CITY

414 E 12TH ST

KANSAS CITY, MO 64106-

Address: 8100 OZARK RD

ZIP Code: 64129

Council District: 3rd

Trash Day: Tuesday

School District: RAYTOWN 150

Census Neighborhood: Eastwood Hills East

Park Region: Central

PW Maintenance District: D2

Zoning: R-2.5, R-7.5

Land Use: 4800 - Institutional

Bldv Front Footage:

Effective Date: 5/6/2012

Assessed Land: 513600

Assessed Improve: 1076848

Exempt Land: 513600

Exempt Improve: 1076848

Square Feet: 6,365,137.536

Acres: 146.123

Perimeter: 10,550.168

Legal: SEC 30-49-32 NW1/4

DEL RAY TOWN NORTH EX 1/16 E OF E, EASTERN AVE & NORTH OF OZARK RD & SWLY

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Printed Date: 10/26/2012



Fire Department

Fire Prevention Division

635 Woodland Ave., Suite 2103
Kansas City, Missouri 64106

(816) 784-9100
Fax: (816) 784-9130

November 1, 2012

TetraTech
Attn: Ms. Kaitlyn Bahr
415 Oak St
Kansas City, MO 64105

Dear Ms. Bahr:

In reply to your request for information regarding the property at 4400 Raytown Rd, our Hazardous Materials Team has checked their records for any responses in the last twelve years and none. There have been no permits issued for installation or removal of any fuel storage tanks in the last four years. The last fire prevention inspection was done on September 12, 2012 and one non-environmental violation was found and corrected during the 30 day grace period..

Hopefully you will find this information useful for your purposes.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Donald B. Stein".

Donald B. Stein
Administrative Assistant

APPENDIX D
ENVIRONMENTAL LIENS

Chicago Title Insurance Company

CHAIN OF TITLE CERTIFICATE

Order No: 20122576

Charge: \$350.00

Property Address (according to the tax records):

4400 Raytown Road, Kansas City, MO 64129

The undersigned Company hereby certifies:

1. That there is no matter appearing of record either in the office of the Recorder of Deeds for Jackson, Missouri, or the offices of the Clerk of the Circuit Court of said county or the Clerk of the Probate Court of said county, since the last instrument(s) or record purporting to convey title to the property hereinafter described, which last instrument(s) show the name of the Grantee(s) therein to be:

KANSAS CITY, MISSOURI

2. That the Legal Description of the property searched is described as follows:

All of the North Half (1/2) of the East Half (1/2) of the Northwest Quarter (1/4) of Section Thirty (30) Township Forty-nine (49) Range Thirty-two (32), Kansas City, Jackson County, Missouri, EXCEPT that part thereof lying North of the public road running from Kansas City to Raytown, Missouri containing Thirty-three and Four Hundred Forty Eight one thousandths (33.448/1000) acres, more or less.

ALSO a part of the Southeast Quarter (1/4) of the Northwest Quarter (1/4) of Section Thirty (30) Township Forty-nine (49) Range Thirty-two (32), Kansas City, Jackson County, Missouri, beginning at a point Eight Hundred Forty Two (842) feet North of the Southwest corner of said Quarter Quarter section running thence North Four Hundred Fifty Three and 25/100 (453.25/100) feet, thence East Twelve Hundred Seventy Nine (1279) feet, thence South Four Hundred Fifty Five (455) feet, thence West Twelve Hundred Seventy Nine and 3/10 (1279.3/10) feet to the place of beginning, containing Thirteen and 325/1000 (13.325/1000) acres more or less.

ALSO Beginning at the Southwest corner of the East One Half (1/2) of the Northwest Quarter (1/4) of Section Thirty (30), Township Forty-nine (49), Range Thirty-two (32), Kansas City, Jackson County, Missouri, thence North Eight Hundred Forty-Two (842) feet, thence East Twelve Hundred Seventy Nine and Three Tenths (1279.3/10) feet, thence South Eight Hundred Forty Two (842) feet, thence West Twelve Hundred Eighty (1280) feet to beginning, being the South Twenty-four and Seven Hundred Thirty-five Thousandths (24.735/1000) acres more or less of the East One-Half of the Northwest Quarter of Section Thirty (30) Township Forty-nine (49) Range Thirty-two (32) aforesaid.

ALSO All of the North Forty (40) acres of the West Half (1/2) of the Northwest Quarter (1/4) of Section Thirty (30) Township Forty-nine (49) of Range Thirty-two (32), Kansas City, Jackson County, Missouri.

ALSO All that part of the West Half of the Northwest (Fractional) Quarter of Section Thirty (30) in Township Forty-Nine (49) of Range Thirty-two (32), Kansas City, Jackson County, Missouri, bounded as follows: Beginning at the Southwest corner of said Quarter Section and running thence North along the West Section line Four Hundred and Forty-Five (445) feet, more or less to land conveyed to Charles H. and Effa L. Gollhofer, by deed recorded in Book 213 at Page 286, in Recorder of Deeds Office at Independence, Missouri being the only such deed, thence East parallel to the South line of said Quarter Section Twelve Hundred and Seventy-Nine and Sixty Five Hundredths (1279.65) feet to the East line of said West Half of Quarter Section, thence South 446.85 feet to South line of said Quarter Section, thence West along said South line 1280 feet to beginning, containing 13.10 acres.

OWNERSHIP AND ENCUMBRANCE REPORT WITH EASEMENTS

(Continued)

ALSO All of the North Thirty One (31) feet of the Southwest Quarter of the Northwest Quarter of Section Thirty (30) Township Forty-Nine (49) Range Thirty-two (32), Kansas City, Jackson County, Missouri, being all the land lying between the land in the Northwest Quarter of the Northwest Quarter of said Section and the land heretofore conveyed by us to Charles H. Gollhofer and Effa L. Gollhofer.

ALSO Beginning at a point on Section line Four Hundred and Forty-five feet North of the Southwest corner of the Southwest Quarter of the Northwest Quarter of Section Thirty (30) Township Forty-Nine (49) Range Thirty-two (32), Kansas City, Jackson County, Missouri, thence North Eight Hundred and Forty Eight & 4/10 (848.4) feet to a point Thirty One (31) feet South of the Northwest corner of said Quarter of Quarter Section, thence East parallel with North line of said Quarter of Quarter Section Six Hundred & Forty Two (642) feet thence South Eight Hundred Forty Eight & 4/10 (848.4) feet, thence West Six Hundred Forty One & 5/10 (641.5) feet to Place of Beginning, containing Twelve & 50/100 (12.50) acres.

ALSO All that part of Section 30, Township 49, Range 32, in Kansas City, Jackson County, Missouri, described as follows: Beginning at a point 31 feet South and 642 feet East of the Northwest corner of the Southwest 1/4 of the Northwest 1/4 of said section; thence East and parallel to the North line of said Section 642 feet to a point; thence South and parallel to the West line of said Section 848.4 feet to a point; thence West and parallel to the South line of said Section 641.5 feet to a point; thence North and parallel to the West line of said Section 848.4 feet to Point of Beginning, containing 12 1/2 acres, the South 10 feet thereof being used a public road in connection with the North 10 feet of the A. H. Cole tract adjoining.

THE FOLLOWING IS A 75 YEAR CHAIN OF TITLE FROM FEBRUARY 21, 1907 FORWARD THAT AFFECT THE SUBJECT PROPERTY:

- a) General Warranty Deed dated February 8, 1907, recorded February 21, 1907, as Document No. 56127, in Book 270 at Page 248 from Benjamin B. Jaffee and Leah Jaffee, his wife, Grantors to Kansas City, a municipal corporation of the State of Missouri, Grantee.**
- b) General Warranty Deed dated February 8, 1907, recorded February 21, 1907, as Document No. 56128, in Book 270 at Page 249 from John C. Howe and Maggie B. Howe, his wife, Grantors to Kansas City, a municipal corporation of the State of Missouri, Grantee.**
- c) General Warranty Deed dated February 11, 1907, recorded February 21, 1907, as Document No. 56129, in Book 270 at Page 250 from Joseph S. Rust, an unmarried man, Grantor to Kansas City, a municipal corporation of the State of Missouri, Grantee.**
- d) Ordinance approved by the City of Kansas City accepting a Warranty Deed from John C. and Maggie B. Howe, recorded July 13, 1907, as Document No. 58273, in Book 273 at Page 172.**
- e) Ordinance approved by the City of Kansas City accepting a Warranty Deed from Benjamin B. Joffee and Leah Joffee, his wife, recorded July 13, 1907, as Document No. 58274, in Book 272 at Page 305.**
- f) Ordinance approved by the City of Kansas City accepting a Warranty Deed from Joseph S. Rust, recorded July 13, 1907, as Document No. 58275, in Book 273 at Page 173.**
- g) Ordinance approved by the City of Kansas City accepting a Warranty Deed from Henry H. Stone, recorded February 26, 1914, as Document No. 94170, in Book 324 at Page 463.**
- h) General Warranty Deed dated February 14, 1914, recorded February 26, 1914, as Document No. 94171, in Book 327 at Page 178, from Henry H. Stone, a single man, Grantor to Kansas City, municipal corporation, Grantee.**

OWNERSHIP AND ENCUMBRANCE REPORT WITH EASEMENTS

(Continued)

- i) Quit-Claim Deed dated June 9, 1916, recorded June 23, 1916, as Document No. 108259, in Book 342 at Page 128 from Alfred Hewitt Cole and Catherine E. Cole, his wife, Grantors to Kansas City, a municipal corporation, Grantee.**
- j) General Warranty Deed dated May 23, 1916, recorded June 23, 1916, as Document No. 108260, in Book 339 at Page 265 from Elvira C. Thomson, a widow and Sallie Thomson, a single person, Grantors to Kansas City, Missouri, Grantee.**
- k) Ordinance approved by the City of Kansas City accepting a Quit Claim Deed from Alfred Hewitt Cole and Catherine E. Cole, recorded February 23, 1918, as Document No. 119218, in Book 362 at Page 207.**
- l) Missouri Warranty Deed dated May 20, 1943, recorded June 7, 1943 as Document No. 483622, in Book 710 at Page 711 from Mary T. Ulreich and Joseph Ulreich; her husband; Frank Bleier and Rosa Bleier, his wife; and August Bleier and Golda Bleier, his wife; Julia Marschler, a widow; Elizabeth Selle and Joseph Selle, her husband; and Bertha Noel and Frank Noel, her husband, Grantors to Kansas City, Missouri, a municipal corporation, Grantee.**
- m) Ordinance approved by the City of Kansas City, approving and confirming the acceptance through the Department of Welfare of the Warranty Deed, recorded July 27, 1943, as Document No. 484740, in Book 701 at Page 514.**
- n) Resolution No. 35764, passed September 6, 1968, by the City of Kansas City, authorizing the City Counselor and the Director of Community Services to effect the removal of the cemetery located on the property of the Municipal Farm.**
- o) Committee Substitute for Ordinance No. 36818 declaring certain City owned Lands to be devoted temporarily for public use as site for sanitary landfill under Department of Public Works and thereafter to be Park and Recreation Uses Forever, recorded July 24, 1969, as Document No. I-43418, in Book I-126 at Page 1014.**
- p) Restriction of Hazardous Waste Activity executed by the City of Kansas City recorded January 21, 1999, as Document No. 1999I0005233.**

NOTE:

Since no search has been made as to whether the Grantor in the instrument set forth under (1) above actually owned the property attempted to be conveyed, nor as to whether the above instrument is a valid conveyance, this Certificate cannot be relied upon as establishing ownership, but is only intended to show the names of the persons presently appearing to claim ownership as reflected by the above records, and the encumbrances described under (4) above.

The Company shall have no liability for this report unless the invoice for the same is paid in full within 30 days of the invoice date.

The Company's liability for this Report is limited to \$10,000.00. No liability is assumed for items not indexed or misindexed, or for matters that would be disclosed by an accurate survey or inspection of the premises. This Report and the legal description given herein are based upon information supplied by the applicant as to the location and identification of the premises in question, and no liability is assumed for any discrepancies resulting

Order No. 20122576

OWNERSHIP AND ENCUMBRANCE REPORT WITH EASEMENTS

(Continued)

therefrom. This Report is offered to you as a courtesy, and does not represent either a Commitment to insure title, or an opinion as to the marketability of title to the subject premises.

This Certificate is dated to include 11/09/2012, at 8:00 A.M.

Chicago Title Insurance Company

By: Reza A Powell

Animal Shelter/MCI

2200 Raytown Road and 8100 Ozark Road
Kansas City, MO

Inquiry Number: 3439985.7S
October 31, 2012

The EDR Environmental LienSearch™ Report



440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

EDR Environmental LienSearch™ Report

The EDR Environmental LienSearch Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

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

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EDR Environmental LienSearch™ Report

TARGET PROPERTY INFORMATION

ADDRESS

Animal Shelter/MCI
2200 Raytown Road and 8100 Ozark Road
Kansas City, MO

RESEARCH SOURCE

Source 1: Jackson County Assessor
Source 2: Jackson County Recorder of Deeds

DEED INFORMATION

Deed 1:

Type of Deed: General Warranty Deed
Grantor: Benjamin B. Joffe & Leah Joffe, his wife
Grantee: Kansas City, a municipal corporation of the State of Missouri
Deed Recorded: 02/21/1907
Instrument: 56127

Deed 2:

Type of Deed: General Warranty Deed
Grantor: Joseph S. Rust, an unmarried man
Grantee: Kansas City, a municipal corporation of the State of Missouri
Deed Recorded: 02/21/1907
Instrument: 56129

Deed 3:

Type of Deed: Warranty Deed
Grantor: Goldie E. Wolfe, a single person, and Holle E. Wolfe & Elizabeth M. Wolfe, husband and wife
Grantee: Kansas City, a municipal corporation of the State of Missouri
Deed Recorded: 11/05/1953
Instrument: Book 1071, Page 11

LEGAL DESCRIPTION

All that certain piece or parcel of land situated and lying in the Northwest Quarter of Section 30, Township 49, Range 32 of the 5th Principal Meridian, Jackson County, State of Missouri

Property Identifier: 32-420-02-01-00-0-00-000

ENVIRONMENTAL LIEN

Found:

Not Found:

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

EDR Environmental LienSearch™ Report

Found:



Not Found:



A Statement of Closure of a solid waste disposal area was filed of record in Book 3146, Page 1986 on 1-29-1998. The solid waste placed in the dump area consists of residential, construction, demolition and hospital wastes. It discloses that the City of Kansas City, Missouri understands that leachate, gas control or monitoring systems ARE NOT required for this maintenance activity. It could not be determined if the landfill area includes the subject property but at the very least appears to encroach upon it. (Document is attached)

EDR Environmental LienSearch™ Report

Deed - Exhibit

No. 56127 **GENERAL WARRANTY DEED.**
 This Traverse, Made on the eight day of February A. D. One thousand
 Nine Hundred and seven by and between Benjamin P. Joffe and
Leah Joffe his wife
 of the County of Jackson State of Missouri _____
Kansas City a Municipal Corporation of _____
 of the County of _____ State of Missouri _____ party of the second part.

Witnessed: This _____ said party of the first part, in consideration of the sum of
Twenty Thousand Six Hundred Ninety Five and 7/100 DOLLARS,
 to them paid by the said party of the second part (the receipt of which is hereby acknowledged) do hereby present
 GRANT, BARGAIN AND SELL, CONVEY AND CONFIRM, unto the said party of the second part its successors heirs and
 assigns, the following described Lots, Tracts or Parcels of Land, lying, being and situated in the County of Jackson, and State of Missouri, to-wit:

All of the North half (1/2) of the east half (1/2) of the north-west
quarter (1/4) of Section Thirty (30) Township Forty-nine (49) Range Thirty
Two (32) except that part thereof lying north of the public road running
from Kansas City to Raytown, Missouri, containing thirty three and four
hundred thirty eight and thousandths (33,400) acres more or less.
 Also a part of the North-east quarter (1/4) of the north-west quarter (1/4) of Section
Thirty (30) Township Forty-nine (49) Range Thirty Two (32) beginning at a point
Eight Hundred Forty Two (842) feet north of the south-west corner of said
quarter quarter section, running thence north four hundred fifty three
and 4/100 (453 4/100) feet thence east Twelve hundred seventy nine (1279)
feet thence south four hundred fifty five (455) feet thence west twelve
hundred seventy nine and 3/100 (1279 3/100) feet to the place of beginning
containing thirteen and 335/1000 (13,335/1000) acres more or less.

To Have and to Hold the premises aforesaid, with all and singular the rights, privileges, appurtenances, and limitations thereto belonging or in
 any way appertaining, unto the said party of the second part and unto its successors heirs and assigns forever; the said

Benjamin P. Joffe hereby covenanting that he is lawfully seized of an indefeasible estate in the the premises herein conveyed,
 that he has good right to convey the same; that the said premises are free and clear from any incumbrance done or suffered by
him or those under whom he claim, and that he
 will warrant and defend the title to the said premises unto the said party of the second part and unto its successors heirs and assigns
 forever against the lawful claims and demands of all persons whatsoever
Except State and County taxes payable on 1907 and thereafter

In Witness Whereof, the said party of the first part has hereunto set his hand and seal the day and year _____ above written.
 Signed, Sealed and Delivered in presence of _____
Benjamin P. Joffe [SEAL.]
Leah Joffe [SEAL.]

STATE OF MISSOURI,)
 COUNTY OF JACKSON,) ss.
 On this Ninth day of February 1907, before me
Jesse J. Vineyard a Notary Public, in and for said County, personally appeared
Benjamin P. Joffe and Leah Joffe
 his wife, to me known to be the persons described in and who executed the foregoing instrument; and acknowledged that they executed the
 same as their free act and deed. And the said parties declare
 to be single and unmarried. **In Certainty Whereof**, I have hereunto set my hand and affixed my official seal, at my office in
 _____ the day and year first above written.
 My term expires September 12th 1909 (10) Jesse J. Vineyard
Notary Public
Jackson County Missouri

Filed for record and duly recorded in my office on this 7th day of Feb A. D. 1907, at _____ Missouri, O. M.
Francis D. Rans Recorder
 By C. S. Gassett Deputy

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No. 56179

GENERAL WARRANTY DEED.

This Indenture, Made on the eleventh day of February A. D. One Thousand

Nine Hundred and Seventy by and between Joseph S. Rust

and unmarried man

of the County of Jackson State of Missouri

Carroll City a Municipal Corporation of the State Missouri

of the County of Jackson State of Missouri part 4 of the second part.

Witnesseth: That he said party of the first part, in consideration of the sum of Five Hundred and Seventy Dollars,

to him paid by the said part 4 of the second part (the receipt of which is hereby acknowledged) does by these presents

GRANT, BARGAIN AND SELL, CONVEY AND CONFIRM, unto the said part 4 of the second part and his heirs and assigns and assigns, the following described Lots, Tracts or Parcels of Land, lying, being and situated in the County of Jackson, and State of Missouri, to-wit:

All of the North forty (40) acres of the West half (1/2) of the North west quarter (1/4) of Section Thirty (30) Township Forty nine (49) of Range Thirty-two (32). Also a tract of land bounded as follows: Beginning on the section line two hundred and twenty four (224) feet east of the southwest corner of Section Ninety (9) and Township Twenty-nine (29) of Range Thirty Two (32) and beginning thence north twenty (20) degrees east, four hundred and eighty five (485) feet to the center line of a creek; thence southward along the creek two hundred and thirty (230) feet, more or less, to the south line of said Section Ninety (9); thence west along the section line two hundred and seventy five (275) feet to place of beginning, containing in all forty three (43) acres more or less.

To have and to hold the premises aforesaid, with all and singular the rights, privileges, appurtenances, and immunities thereto belonging or in any wise appertaining unto the said part 4 of the second part and unto its heirs and assigns forever; the said

Joseph S. Rust hereby covenanting that he is lawfully seized of an indefeasible estate in fee of the premises herein conveyed,

that he has a good right to convey the same; that the said premises are free and clear from any incumbrance done or suffered by him or those under whom he claims; and that he

will warrant and defend the title to the said premises unto the said part 4 of the second part and unto its heirs and assigns forever against the lawful claims and demands of all persons whomsoever.

except the state and County taxes and taxes of every kind and description for its year 1907 and thereafter.

In Witness Whereof, the said part 4 of the first part has hereunto set his hand and seal, the day and year above written.

Signed, Sealed and Delivered in presence of

Joseph S. Rust [SEAL.] [SEAL.] [SEAL.] [SEAL.]

STATE OF MISSOURI, }
COUNTY OF JACKSON, }
On this 11th day of February 1907, before me

Milton Campbell a Notary Public, in and for said County, personally appeared

his wife, to me known to be the person described in and who executed the foregoing instrument; and acknowledged that he executed the same as his free act and deed. And the said Joseph S. Rust further declared himself

to be single and unmarried. In Certainty Whereof, I have hereunto set my hand and affixed my official seal, at my office in

Carroll City the day and year first above written. (S) Milton Campbell
Notary Public
in and for said County, State

Filed for record and duly recorded in my office on this 21st day of Feb A. D. 1907, at Carroll City Missouri, D. M.

Francis D. Ross Recorder.
By G. S. Cassell Deputy.

NO. 56179
Nine Hundred and Seventy
of the County of Jackson
State of Missouri
part 4 of the second part.
Witnesseth: That he said party of the first part, in consideration of the sum of Five Hundred and Seventy Dollars, to him paid by the said part 4 of the second part (the receipt of which is hereby acknowledged) does by these presents GRANT, BARGAIN AND SELL, CONVEY AND CONFIRM, unto the said part 4 of the second part and his heirs and assigns, the following described Lots, Tracts or Parcels of Land, lying, being and situated in the County of Jackson, and State of Missouri, to-wit: All of the North forty (40) acres of the West half (1/2) of the North west quarter (1/4) of Section Thirty (30) Township Forty nine (49) of Range Thirty-two (32). Also a tract of land bounded as follows: Beginning on the section line two hundred and twenty four (224) feet east of the southwest corner of Section Ninety (9) and Township Twenty-nine (29) of Range Thirty Two (32) and beginning thence north twenty (20) degrees east, four hundred and eighty five (485) feet to the center line of a creek; thence southward along the creek two hundred and thirty (230) feet, more or less, to the south line of said Section Ninety (9); thence west along the section line two hundred and seventy five (275) feet to place of beginning, containing in all forty three (43) acres more or less.
To have and to hold the premises aforesaid, with all and singular the rights, privileges, appurtenances, and immunities thereto belonging or in any wise appertaining unto the said part 4 of the second part and unto its heirs and assigns forever; the said Joseph S. Rust hereby covenanting that he is lawfully seized of an indefeasible estate in fee of the premises herein conveyed, that he has a good right to convey the same; that the said premises are free and clear from any incumbrance done or suffered by him or those under whom he claims; and that he will warrant and defend the title to the said premises unto the said part 4 of the second part and unto its heirs and assigns forever against the lawful claims and demands of all persons whomsoever. except the state and County taxes and taxes of every kind and description for its year 1907 and thereafter.
In Witness Whereof, the said part 4 of the first part has hereunto set his hand and seal, the day and year above written.
Signed, Sealed and Delivered in presence of Joseph S. Rust [SEAL.] [SEAL.] [SEAL.] [SEAL.]
STATE OF MISSOURI, } COUNTY OF JACKSON, } On this 11th day of February 1907, before me Milton Campbell a Notary Public, in and for said County, personally appeared his wife, to me known to be the person described in and who executed the foregoing instrument; and acknowledged that he executed the same as his free act and deed. And the said Joseph S. Rust further declared himself to be single and unmarried. In Certainty Whereof, I have hereunto set my hand and affixed my official seal, at my office in Carroll City the day and year first above written. (S) Milton Campbell Notary Public in and for said County, State
Filed

Missouri Warranty Deed

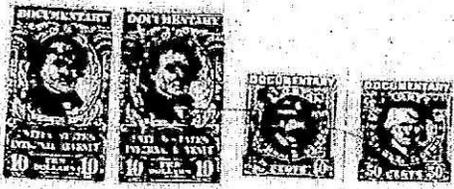
10/15/11

This Indenture, Made on the 15th day of October A. D., One

Thousand Nine Hundred and Fifty Three by and between Goldie E. Wolfe, a single person and Wolla E. Wolfe, Jr., and Elizabeth V. Wolfe, husband and wife, all of the County of Jackson, State of Missouri, part 1st of the first part, and Kansas City Missouri, a Municipal Corporation, in the State of Missouri, part 2d of the second part,

WITNESSETH: THAT THE SAID PARTIES OF THE FIRST PART, in consideration of the sum of Ten Dollars and other valuable considerations DOLLARS; to them paid by said part 2d of the second part (the receipt of which is hereby acknowledged), do by these presents, Grant, Bargain and Sell, Convey and Confirm unto the said part 1st of the second part its successors heirs and assigns, the following described lots, tracts or parcels of land lying, being and situate in the County of Jackson and State of Missouri, to wit:

Part of the Southwest 1/4 of Section 17, Township 47, Range 20, in Jackson County, Missouri, described as follows: Beginning at a point in the South line of said 1/4 Section 601.3 feet East of the Southwest corner thereof; thence East along the South line of said 1/4 Section 642.82 Feet; thence North 54 degrees West 273.2 feet; thence North 48 1/4 degrees East 601.42 feet; thence South 25 3/4 degrees East 300 feet; thence South 60 1/4 degrees East 172.42 feet; thence South 42 degrees East 272.22 feet to the point of beginning.



TO HAVE AND TO HOLD The premises aforesaid with all and singular, the rights, privileges, appurtenances and immunities thereto belonging or in any wise appertaining unto the said part 1st of the second part and unto its successors heirs and assigns forever; the said parties of the first part hereby covenanting that they are lawfully seized of an indefeasible estate in fee of the premises herein conveyed; that they have good right to convey the same; that the said premises are free and clear from any incumbrance done or suffered by them or those under whom they claim; and that they will warrant and defend the title to the said premises unto the said part 2d of the second part and unto its successors heirs and assigns forever, against the lawful claims and demands of all persons whomsoever.

IN WITNESS WHEREOF, The said part 1st of the first part have hereunder set their hand and seal the day and year above written.

Goldie E. Wolfe (SEAL)
Wolla E. Wolfe, Jr. (SEAL)
Elizabeth V. Wolfe (SEAL)

MISSOURI ACKNOWLEDGMENT—UNMARRIED PERSON

STATE OF Missouri }
COUNTY OF Jackson }
On this 13th day of October 1953
before me, the undersigned
Goldie E. Wolfe a Notary Public, personally appeared

to me known to be the person described in and who executed the foregoing instrument, and acknowledged that she
executed the same as her free act and deed. And the said Goldie E. Wolfe
further declared herself to be single and unmarried.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my official seal at
my office in Kansas City, Missouri the day and year last above written.

NOTARY
My term expires January 1, 1954

Notary Public in and for said County and State.

MISSOURI ACKNOWLEDGMENT—MAN AND WIFE

STATE OF Missouri }
COUNTY OF Jackson }
On this 13th day of October 1953
before me, the undersigned
Goldie E. Wolfe, Jr. a Notary Public, personally appeared
and Elizabeth E. Wolfe

his wife, to me known to be the persons described in and who executed the foregoing instrument, and acknowledged that
they executed the same as their free act and deed.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my official seal at my
office in Kansas City, Missouri the day and year last above written.

My term expires January 1, 1954

Notary Public in and for said County and State.

Warranty Deed

FROM

Goldie E. Wolfe, William E.
Wolfe, Jr., and Elizabeth
E. Wolfe.

STATE OF MISSOURI
COUNTY OF JACKSON
FILED FOR RECORD

day of record, this 13th day

of A.D., 1953

at o'clock, minutes, M.

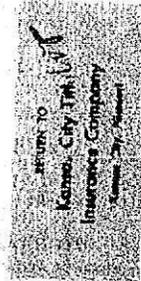
Recorded in Book at Page

195

Recorder.

Deputy.

Recorder's Fee \$



STATE OF Missouri }
COUNTY OF Jackson }
IN THE RECORDER'S OFFICE

I, _____, Recorder of said County, do hereby certify that the within
instrument of writing was, at _____ o'clock, and _____ minutes, M., on the _____ day of _____
A.D., 1953, duly filed for record in my office, and is recorded in the records of this office, in book _____ at page _____

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal at
this _____ day of _____ A.D., 1953

Recorder.

EDR Environmental LienSearch™ Report

Statement of Closure of Landfill

98 1 5734

STATEMENT OF CLOSURE

13146P1365

Pursuant to Title 10, 80-2.030(2) of the Code of State Regulations of Missouri, The City of Kansas City, Missouri, states that they have closed a solid waste disposal area in Jackson County, State of Missouri and further state the following information required by said regulations:

1. Names of Property Owners as They appear on the Last Recorded Property Deed: See Attachment "A"
2. Legal Description of the Property: See Attachment "B"
3. Location of Solid Wastes Within the Property: Waste is thought to have been placed over most of the approximately 32.71 acre site.
4. Types of Solid Waste Disposed. The solid waste placed in the dump area consists of: Residential, construction, demolition and hospital wastes.
5. Depth of Solid Waste and Cover: Average thickness of waste is 15 to 20 feet. The solid waste is covered by dirt to a thickness of 2 feet.
6. Maintenance of Leachate, Gas Control or Monitoring Systems: The City of Kansas City Missouri understands that leachate, gas control or monitoring systems are not required for this maintenance activity.

STATE OF MISSOURI
COUNTY OF JACKSON

John Stafflebe
Director, Environmental Management

On this 19th day of Dec. 1997, before me appeared John Stafflebe to me personally known, and first being duly sworn, state that the facts set out in the foregoing instrument are true and acknowledge that they execute said instrument as their free act and deed.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my official seal at my office in the County and State Aforesaid, on the day and year first above written

Gail Gasperino

(Seal)



My Commission expires:

GAIL GASPERINO
Notary Public, Notary Seal
State of Missouri
Commissioned in Jackson County
My Commission Expires Mar. 24, 1998

Book number _____ Page Number _____ Recorded _____

Filed this _____ day of _____, 19____ Recorder of Deed's seal or stamp:

ATTACHMENT "A"

ROUND GROVE CREEK LANDFILL I3146P1986
KANSAS CITY, MISSOURI

The present owner is Kansas City, Missouri, a Municipal Corporation.

The property was originally acquired by the City of Kansas City, Missouri, a Municipal Corporation, as a portion of three separate tracts of land, by the following listed three Missouri Warranty Deeds:

Warranty Deed from Benjamin B. Joffe and Leah Joffe, his wife to Kansas City a Municipal Corporation recorded in Book 270, at Page 248.

Warranty Deed from Joseph S. Rust to Kansas City, A Municipal Corporation of the State of Missouri recorded in Book 270 at Page 250.

Warranty Deed from Goldie E. Wolfe, a single person, and Rolla E. Wolfe, Jr., and Elizabeth M. Wolfe, husband and wife to Kansas City Missouri, a Municipal Corporation, recorded in Book 1071, at Page 11.

INSTRUMENT "B"
13146P1987

... part of the parcel of land commonly known as the Raytown
... Raytown Rd. The parcel is identified within the city land records
... Parcel 10-2 of Plat 663. It was accepted by city ordinance 36818, passed 7-3-
1989.

The parcel is legally described as:

Part of the Northwest 1/4 of Section 30, Township 49 North, Range 32 East, and part of
the Southwest 1/4 of Section 19, Township 49 North, Range 32 East, in Jackson County,
Missouri, described as follows: Beginning at the intersection of the East line of said
Northwest 1/4 with the Southerly Right of Way line of Raytown Rd, at a point 540.18 Ft
South of the Northeast corner of said Northwest 1/4, Thence South 01 Degrees 57 Minutes
59 Seconds West along said East line 463.94 Ft, Thence West 650 Ft, Thence North 28
Degrees 04 Minutes 49 Seconds West 526.99 Ft, Thence South 58 Degrees 53 Minutes, 00
Seconds West 279.93 Ft, Thence North 41 Degrees 01 Minutes 42 Seconds West 837.15
Ft, Thence North 26 Degrees 26 Minutes 17 Seconds West 460.55 Ft, Thence Northerly
along a curve to the Right, (Radius 160.22 Ft) 156.30 Ft, Thence North 29 Degrees 27
Minutes 23 Seconds East 450.32 Ft to the Southwesterly Right of Way line of Raytown
Rd, Thence South 44 Degrees 36 Minutes 37 Seconds East 555.21 Ft, Thence
Southeasterly along a curve to the Right (Radius 4978.38 Ft) 288.18 Ft, Thence South 41
Degrees 17 Minutes 37 Seconds East 632.02 Ft, Thence Southeasterly along a curve to the
Left (Radius 1030.0 Ft) 603.51 Ft, Thence South 74 Degrees 51 Minutes 54 Seconds East
180.78 Ft To Point of Beginning, Containing 32.71 Acres, More or Less.

STATE OF MISSOURI SS
COUNTY OF JACKSON
I CERTIFY INSTRUMENT RECEIVED
1990 JAN 29 A 9:52.0
13146P1985
RECORDED BOOK PAGE
DIRECTOR OF RECORDS

300
300
400
1100
21.00
pfe

APPENDIX E
SITE PHOTOGRAPHS

**Municipal Farms - Animal Shelter
Kansas City, Jackson County, Missouri**



TETRA TECH PROJECT NO. X9004.06.0002.015.022 DIRECTION: South	DESCRIPTION	This photograph shows the northwestern side of the Animal Shelter, the subject property.	1
	CLIENT	Environmental Protection Agency - Region 7	DATE 11/2/12
	PHOTOGRAPHER	Kaitlyn Bahr	



TETRA TECH PROJECT NO. X9004.06.0002.015.022 DIRECTION: North	DESCRIPTION	This photograph shows the open field with forestland beyond Raytown Road north of the subject property.	2
	CLIENT	Environmental Protection Agency - Region 7	DATE 11/2/12
	PHOTOGRAPHER	Kaitlyn Bahr	

**Municipal Farms - Animal Shelter
Kansas City, Jackson County, Missouri**



TETRA TECH PROJECT NO. X9004.06.0002.015.022 DIRECTION: Southeast	DESCRIPTION	This photograph shows the paved parking lot on the northern side of the subject property building with forestland beyond.	3
	CLIENT	Environmental Protection Agency - Region 7	DATE 11/2/12
	PHOTOGRAPHER	Kaitlyn Bahr	



TETRA TECH PROJECT NO. X9004.06.0002.015.022 DIRECTION: South	DESCRIPTION	This photograph shows the west side of the subject property building and the paved driveway that surrounds the building with forestland beyond.	4
	CLIENT	Environmental Protection Agency - Region 7	DATE 11/2/12
	PHOTOGRAPHER	Kaitlyn Bahr	

**Municipal Farms - Animal Shelter
Kansas City, Jackson County, Missouri**



TETRA TECH PROJECT NO. X9004.06.0002.015.022 DIRECTION: North	DESCRIPTION	This photograph shows the paved parking lot and the gravel road on the western side of the subject property.	5
	CLIENT	Environmental Protection Agency - Region 7	DATE 11/2/12
	PHOTOGRAPHER	Kaitlyn Bahr	



TETRA TECH PROJECT NO. X9004.06.0002.015.022 DIRECTION: West	DESCRIPTION	This photograph shows the construction equipment and disturbed dirt along the gravel road on the western portion of the subject property.	6
	CLIENT	Environmental Protection Agency - Region 7	DATE 11/2/12
	PHOTOGRAPHER	Kaitlyn Bahr	

**Municipal Farms - Animal Shelter
Kansas City, Jackson County, Missouri**



TETRA TECH PROJECT NO. X9004.06.0002.015.022 DIRECTION: East	DESCRIPTION	This photograph shows a manhole on the gravel road on the western portion of the subject property.	7
	CLIENT	Environmental Protection Agency - Region 7	DATE 11/2/12
	PHOTOGRAPHER	Kaitlyn Bahr	



TETRA TECH PROJECT NO. X9004.06.0002.015.022 DIRECTION: North	DESCRIPTION	This photograph shows a storm drain in the parking lot on the west side of the subject property building.	8
	CLIENT	Environmental Protection Agency - Region 7	DATE 11/2/12
	PHOTOGRAPHER	Kaitlyn Bahr	

**Municipal Farms - Animal Shelter
Kansas City, Jackson County, Missouri**



TETRA TECH PROJECT NO. X9004.06.0002.015.022 DIRECTION: East	DESCRIPTION	This photograph shows the west side of the subject property building.	9
	CLIENT	Environmental Protection Agency - Region 7	DATE 11/2/12
	PHOTOGRAPHER	Kaitlyn Bahr	



TETRA TECH PROJECT NO. X9004.06.0002.015.022 DIRECTION: East	DESCRIPTION	This photograph shows four air conditioning units on the west side of the subject property building.	10
	CLIENT	Environmental Protection Agency - Region 7	DATE 11/2/12
	PHOTOGRAPHER	Kaitlyn Bahr	

**Municipal Farms - Animal Shelter
Kansas City, Jackson County, Missouri**



<p>TETRA TECH PROJECT NO. X9004.06.0002.015.022</p> <p>DIRECTION: South</p>	DESCRIPTION	This photograph shows a pole-mounted transformer labeled “no-polychlorinated biphenyls (PCB)” on the southern boundary of the subject property.	11
	CLIENT	Environmental Protection Agency - Region 7	DATE
	PHOTOGRAPHER	Kaitlyn Bahr	11/2/12



<p>TETRA TECH PROJECT NO. X9004.06.0002.015.022</p> <p>DIRECTION: North</p>	DESCRIPTION	This photograph shows a large cooling unit on the south side of the subject property building.	12
	CLIENT	Environmental Protection Agency - Region 7	DATE
	PHOTOGRAPHER	Kaitlyn Bahr	11/2/12

**Municipal Farms - Animal Shelter
Kansas City, Jackson County, Missouri**



TETRA TECH PROJECT NO. X9004.06.0002.015.022 DIRECTION: North	DESCRIPTION	This photograph shows the incinerator smokestack on the south side of the subject property building.	13
	CLIENT	Environmental Protection Agency - Region 7	DATE 11/2/12
	PHOTOGRAPHER	Kaitlyn Bahr	



TETRA TECH PROJECT NO. X9004.06.0002.015.022 DIRECTION: North	DESCRIPTION	This photograph shows a storage shed and wooden pallets on the west side of the subject property building.	14
	CLIENT	Environmental Protection Agency - Region 7	DATE 11/2/12
	PHOTOGRAPHER	Kaitlyn Bahr	

**Municipal Farms - Animal Shelter
Kansas City, Jackson County, Missouri**



TETRA TECH PROJECT NO. X9004.06.0002.015.022 DIRECTION: North	DESCRIPTION	This photograph shows kennels on the eastern side of the subject property.	15
	CLIENT	Environmental Protection Agency - Region 7	DATE 11/2/12
	PHOTOGRAPHER	Kaitlyn Bahr	



TETRA TECH PROJECT NO. X9004.06.0002.015.022 DIRECTION: Southwest	DESCRIPTION	This photograph shows the incinerator smoke stack on the east side of the subject property building.	16
	CLIENT	Environmental Protection Agency - Region 7	DATE 11/2/12
	PHOTOGRAPHER	Kaitlyn Bahr	

**Municipal Farms - Animal Shelter
Kansas City, Jackson County, Missouri**



TETRA TECH PROJECT NO. X9004.06.0002.015.022 DIRECTION: East	DESCRIPTION	This photograph shows a floor drain in the garage on the east side of the subject property building.	17
	CLIENT	Environmental Protection Agency - Region 7	DATE 11/2/12
	PHOTOGRAPHER	Kaitlyn Bahr	



TETRA TECH PROJECT NO. X9004.06.0002.015.022 DIRECTION: Southwest	DESCRIPTION	This photograph shows the incinerator inside the garage on the east side of the subject property building.	18
	CLIENT	Environmental Protection Agency - Region 7	DATE 11/2/12
	PHOTOGRAPHER	Kaitlyn Bahr	

**Municipal Farms - Animal Shelter
Kansas City, Jackson County, Missouri**



TETRA TECH PROJECT NO. X9004.06.0002.015.022 DIRECTION: North	DESCRIPTION	This photograph shows an industrial size washing machine in the garage on the east side of the subject property building.	19
	CLIENT	Environmental Protection Agency - Region 7	DATE 11/2/12
	PHOTOGRAPHER	Kaitlyn Bahr	



TETRA TECH PROJECT NO. X9004.06.0002.015.022 DIRECTION: North	DESCRIPTION	This photograph shows an industrial size dryer in the garage on the east side of the subject property building.	20
	CLIENT	Environmental Protection Agency - Region 7	DATE 11/2/12
	PHOTOGRAPHER	Kaitlyn Bahr	

**Municipal Farms - Animal Shelter
Kansas City, Jackson County, Missouri**



TETRA TECH PROJECT NO. X9004.06.0002.015.022 DIRECTION: North	DESCRIPTION	This photograph shows a floor drain in the dog kennel area of the subject property building.	21
	CLIENT	Environmental Protection Agency - Region 7	DATE 11/2/12
	PHOTOGRAPHER	Kaitlyn Bahr	



TETRA TECH PROJECT NO. X9004.06.0002.015.022 DIRECTION: South	DESCRIPTION	This photograph shows the office area with the surgery room beyond inside the subject property building.	22
	CLIENT	Environmental Protection Agency - Region 7	DATE 11/2/12
	PHOTOGRAPHER	Kaitlyn Bahr	

**Municipal Farms - Animal Shelter
Kansas City, Jackson County, Missouri**



TETRA TECH PROJECT NO. X9004.06.0002.015.022 DIRECTION: North	DESCRIPTION	This photograph shows the furnace and water heater in a storage closet in the subject property building.	23
	CLIENT	Environmental Protection Agency - Region 7	DATE 11/2/12
	PHOTOGRAPHER	Kaitlyn Bahr	



TETRA TECH PROJECT NO. X9004.06.0002.015.022 DIRECTION: South	DESCRIPTION	This photograph shows one of the dog kennel rooms in the subject property building.	24
	CLIENT	Environmental Protection Agency - Region 7	DATE 11/2/12
	PHOTOGRAPHER	Kaitlyn Bahr	

**Municipal Farms - Animal Shelter
Kansas City, Jackson County, Missouri**



TETRA TECH PROJECT NO. X9004.06.0002.015.022 DIRECTION: South	DESCRIPTION	This photograph shows a floor drain in the women's bathroom in the subject property building.	25
	CLIENT	Environmental Protection Agency - Region 7	DATE 11/2/12
	PHOTOGRAPHER	Kaitlyn Bahr	



TETRA TECH PROJECT NO. X9004.06.0002.015.022 DIRECTION: South	DESCRIPTION	This photograph shows the cat kennel room in the subject property building.	26
	CLIENT	Environmental Protection Agency - Region 7	DATE 11/2/12
	PHOTOGRAPHER	Kaitlyn Bahr	

APPENDIX F
INTERVIEW DOCUMENTATION

ASTM1527-05 ENVIRONMENTAL SITE ASSESSMENT QUESTIONNAIRE

SITE NAME:	Kansas City Animal Shelter (KC Pet Project)		
SITE ADDRESS:	4400 Raytown Rd. Kansas City, MO		
DATE:	10-31-12		
TETRA TECH PROJECT NUMBER:			
PREPARED BY:	Patrick Egberuse (Owner)	(Occupant)	(Tetra Tech)
COMPANY:	Tetra Tech		

GENERAL QUESTIONS REGARDING PROPERTY CONDITION

ASTM RELATED QUESTIONS										
QUESTION	Owner			Occupant			Observed			COMMENTS
	Y	N	U	Y	N	U	Y	N	U	
1a	Is the property used for an industrial use?									
		X								
1b	Is any adjoining property used for an industrial use?									
		X								
2a	Did you observe evidence or do you have any prior knowledge that the property has been used for an industrial use in the past?									
		X								
2b	Did you observe evidence or do you have any prior knowledge that the adjoining property has been used for an industrial use in the past?									
		X								
3a	Is the property used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility? (If applicable, identify which.)									
		X								
3b	Is the adjoining property used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility? (If applicable, identify which.)									
		X								

ASTM1527-05 ENVIRONMENTAL SITE ASSESSMENT QUESTIONNAIRE

QUESTION	Owner			Occupant			Observed			COMMENTS
	Y	N	U	Y	N	U	Y	N	U	
4a	Did you observe evidence or do you have any prior knowledge that the property has been used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment storage, disposal, processing, or recycling facility? (If applicable, identify which.)									
4b	Did you observe evidence or do you have any prior knowledge that the adjoining property has been used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment storage, disposal, processing, or recycling facility? (If applicable, identify which.)									The large vacant lot directly north of animal shelter was once a landfill
5a	Are there currently any damaged or discarded automotive or industrial batteries, pesticides, paints or other chemicals in individual containers of > 5 gal (19 L) in volume or 50 gal (190 L) in the aggregate, stored on or used at the property or at the facility?									
5b	Did you observe evidence or do you have any prior knowledge that there have been previously any damaged or discarded automotive or industrial batteries, pesticides, paints or other chemicals in individual containers of > 5 gal (19 L) in volume or 50 gal (190 L) in the aggregate, stored on or used at the property or at the facility?									
6a	Are there currently any industrial drums (typically 55 gal (208 L)) or sacks of chemicals located on the property or at the facility?									
6b	Did you observe evidence or do you have any prior knowledge that there have been previously any industrial drums (typically 55 gal (208 L)) or sacks of chemicals located on the property or at the facility?									
7a	Did you observe evidence or do you have any prior knowledge that fill dirt has been brought onto the property that originated from a contaminated site?									
7b	Did you observe evidence or do you have any prior knowledge that fill dirt has been brought onto the property that is of an unknown origin?									

ASTM1527-05 ENVIRONMENTAL SITE ASSESSMENT QUESTIONNAIRE

QUESTION	Owner			Occupant			Observed			COMMENTS
	Y	N	U	Y	N	U	Y	N	U	
8a Are there currently any pits, ponds, or lagoons located on the property in connection with waste treatment or waste disposal?		X								
8b Did you observe evidence or do you have any prior knowledge that there have been previously any pits, ponds or lagoons located on the property in connection with waste treatment or waste disposal?		X								
9a Is there currently any stained soil on the property?										
9b Did you observe evidence or do you have any prior knowledge that there has been previously any stained soil on the property?		X								
10a Are there currently any registered or unregistered storage tanks (above or underground) located on the property?		X								
10b Did you observe evidence or do you have any prior knowledge that there have been previously, any registered or unregistered storage tanks (above or underground) located on the property?		X								
11a Are there currently any vent pipes, fill pipes, or access ways indicating a fill pipe protruding from the ground on the property or adjacent to any structure on the property?		X								
11b Did you observe evidence or do you have any prior knowledge that there have been previously any vent pipes, fill pipes, or access ways indicating a fill pipe protruding from the ground on the property or adjacent to any structure located on the property?		X								
12a Are there currently any flooring, drains, or walls located within the facility that are stained by substances other than water or are emitting foul odors?		X								

ASTM1527-05 ENVIRONMENTAL SITE ASSESSMENT QUESTIONNAIRE

23a	Is there any knowledge of the property being abandoned or evidence of unauthorized uses or uncontrolled access to the property?		X																
23b	Is there any knowledge of an adjacent property being abandoned or evidence of unauthorized uses or uncontrolled access to the property?		X																

ASTM1527-05 ENVIRONMENTAL SITE ASSESSMENT QUESTIONNAIRE

NON-ASTM RELATED QUESTIONS												
QUESTION	Owner			Occupant			Observed			COMMENTS		
	Y	N	U	Y	N	U	Y	N	U			
21	Are there any wetland or floodplains? (100-year or 500-year floodplains?)											
21A	Are there any streams or ditches that run through or adjacent to the property?											
21B	Are there any low areas where water ponds with snowmelt or after rainstorms?											
22	Any known or suspected asbestos-containing materials? What year was the property/structure constructed?										1973	
23	Any known or suspected lead-based paint? Date constructed?										1973	
24	Radon issues? How long will the area be occupied? Is the area in a basement?											

ASTM1527-05 ENVIRONMENTAL SITE ASSESSMENT QUESTIONNAIRE

FOR ACTIVE FACILITIES												
QUESTION	Owner			Occupant			Observed			COMMENTS		
	Y	N	U	Y	N	U	Y	N	U			
25	Any visual signs of indoor air quality issues? For example excessive dust, smells, or mold observed on the walls?											
26	Community Right to Know posting of Materials Safety Data Sheets and/or other health related information?											
27	Are employees wearing PPE for work conditions noted? For example, hard-toed shoes, hard hat, safety glasses, hearing protection, etc?											
28	Does there appear to be excessive noise issues?										<i>Sometimes during hours of business</i>	
29	Other potential unsafe working conditions identified?											
30	Health and safety gear observed, such as, first aid kits, fire extinguishers, or eye wash stations?											
31	Are there any pits, tanks, or sumps that must be entered by employees that may be a confined space?											
32	Are there any historical or active septic systems?										<i>None</i>	

ASTM1527-05 ENVIRONMENTAL SITE ASSESSMENT QUESTIONNAIRE

GOVERNMENT RECORDS/HISTORICAL SOURCES INQUIRY							
33	Do any of the following Federal government record systems list the property or any property within the circumference of the area noted below:				Y	N	COMMENTS
	National Priorities List – within 1.0 mile (1.6 Km)?						u
	CERCLIS List – within 0.5 mile (0.8 Km)?						u
	RCRA CORRACTS Facilities – within 1.0 mile (1.6 Km)?						u
	RCRA non-CORRACTS TSD Facilities – within 0.5 mile (0.8 Km)?						u
34	Do any of the following state record systems list the property or any property within the circumference of the area noted below:				Y	N	COMMENTS
	List maintained by state environmental agency of hazardous waste sites identified for investigation or remediation that is the state equivalent to National Priorities List – within 1.0 mile (1.6 Km)?						u
	List maintained by state environmental agency of sites identified for investigation or remediation that is the state equivalent to CERCLIS List – within 0.5 mile (0.8 Km)?						u
	Leaking Underground Storage Tank (LUST) List – within 0.5 mile (0.8 Km)?						u
	Solid Waste/Landfill Facilities – within 0.5 mile (0.8 Km)?						u
35	Based upon a review of fire insurance maps or consultation with the local fire department serving the property, all as specified in the guide, are any buildings or other improvements on the property or on an adjoining property identified as having been used for an industrial use or uses likely to lead to contamination of the property?			Y	N	N/A	COMMENTS
							u
KEY: Y = YES, N = NO, U = UNKNOWN, N/A = NOT APPLICABLE							
Prepared by: Patrick Egberus (Owner), _____ (Occupant), and _____ (Tetra Tech)							
Signature:				Date:		Signature: <i>[Signature]</i>	
						Date: 10/31/12	
Tetra Tech							

APPENDIX G

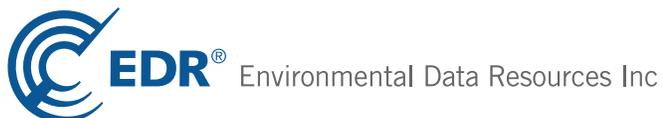
EDR RADIUS MAP WITH GEOCHECK[®]

Animal Shelter

2200 Raytown Road
Kansas City, MO 64129

Inquiry Number: 3439224.2s
October 23, 2012

The EDR Radius Map™ Report with GeoCheck®



440 Wheelers Farms Road
Milford, CT 06461
Toll Free: 800.352.0050
www.edrnet.com

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

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

2200 RAYTOWN ROAD
KANSAS CITY, MO 64129

COORDINATES

Latitude (North): 39.0445000 - 39° 2' 40.20"
Longitude (West): 94.4938000 - 94° 29' 37.68"
Universal Transverse Mercator: Zone 15
UTM X (Meters): 370723.9
UTM Y (Meters): 4322568.5
Elevation: 793 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 39094-A4 INDEPENDENCE, MO
Most Recent Revision: 1996

West Map: 39094-A5 KANSAS CITY, MO KS
Most Recent Revision: 1996

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 2009, 2010
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

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-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 landfill and/or solid waste disposal site lists

SWF/LF..... Permitted Facility List

State and tribal leaking storage tank lists

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

State and tribal registered storage tank lists

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

State and tribal institutional control / engineering control registries

AUL..... Sites with Controls

EXECUTIVE SUMMARY

State and tribal voluntary cleanup sites

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

State and tribal Brownfields sites

BROWNFIELDS..... Brownfields Site List

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

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

Local Lists of Landfill / Solid Waste Disposal Sites

ODI..... Open Dump Inventory
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations
HIST LF..... Solid Waste Facility Database List
SWRCY..... Solid Waste Recycling Facilities
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL..... Clandestine Drug Labs
DEL SHWS..... Registry Sites Withdrawn or Deleted
CDL..... Environmental Emergency Response System
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..... Environmental Response Tracking Database

Other Ascertainable Records

RCRA-NonGen..... RCRA - Non Generators
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
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)

EXECUTIVE SUMMARY

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
RAATS.....	RCRA Administrative Action Tracking System
UIC.....	Underground Injection Wells Database
DRYCLEANERS.....	Drycleaners in Missouri Listing
MO RRC.....	Certified Hazardous Waste Resource Recovery Facilities
NPDES.....	Permitted Facility Listing
AIRS.....	Permit Facility Listing
INDIAN RESERV.....	Indian Reservations
SCRD DRYCLEANERS.....	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR.....	Financial Assurance Information
COAL ASH.....	Coal Ash Disposal Sites
FINANCIAL ASSURANCE.....	Financial Assurance Information Listing
EPA WATCH LIST.....	EPA WATCH LIST
PRP.....	Potentially Responsible Parties
PCB TRANSFORMER.....	PCB Transformer Registration Database
2020 COR ACTION.....	2020 Corrective Action Program List
COAL ASH DOE.....	Steam-Electric Plant Operation Data
COAL ASH EPA.....	Coal Combustion Residues Surface Impoundments List

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants..... EDR Proprietary Manufactured Gas Plants

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property. Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

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

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

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS list

CERCLIS: The Comprehensive Environmental Response, Compensation and Liability Information System 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

EXECUTIVE SUMMARY

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.

A review of the CERCLIS list, as provided by EDR, and dated 12/27/2011 has revealed that there is 1 CERCLIS 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>
RAYTOWN ROAD	RAYTOWN RD & EASTERN AWWW	1/8 - 1/4 (0.235 mi.)	A2	9

Federal RCRA generators list

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 03/15/2012 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
KANSAS CITY POLICE HELICOPTER	4601 EASTERN	W 1/8 - 1/4 (0.241 mi.)	B4	17

State- and tribal - equivalent CERCLIS

SHWS: Registry and Registry Log.

A review of the SHWS list, as provided by EDR, and dated 06/06/2012 has revealed that there is 1 SHWS site 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>
GM LEEDS PLANT	6817 STADIUM DRIVE	NNW 1/2 - 1 (0.981 mi.)	6	22

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tanks.

A review of the LUST list, as provided by EDR, and dated 09/11/2012 has revealed that there is 1 LUST site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MUNICIPAL CORRECTIONAL INSTITU	8100 OZARK RD	SSW 1/4 - 1/2 (0.367 mi.)	5	19

EXECUTIVE SUMMARY

State and tribal registered storage tank lists

UST: Underground Storage Tank Information.

A review of the UST list, as provided by EDR, and dated 09/11/2012 has revealed that there are 2 UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
POLICE HELIPORT	4601 EASTERN	W 1/8 - 1/4 (0.241 mi.)	B3	12

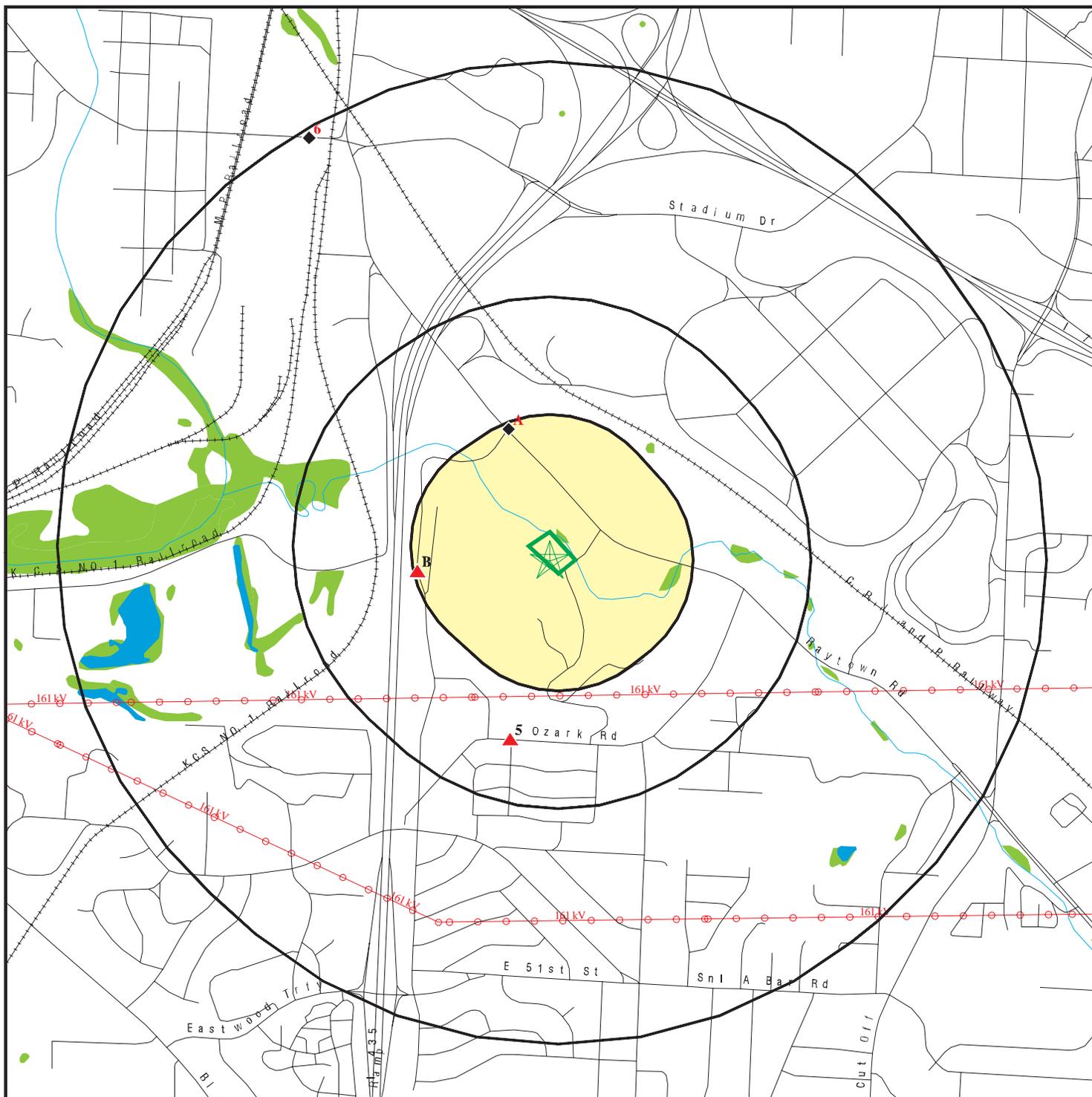
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
TRUMAN SPORTS COMPLEX PARK	INT OF RAYTOWN RD & EAS	NNW 1/8 - 1/4 (0.212 mi.)	A1	7

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 20 records.

<u>Site Name</u>	<u>Database(s)</u>
PINK HILL ACRES DEMOLITION LANDFIL	FINDS, SWF/LF, NPDES, AIRS
MERCURY-HERNDON CAREER CENTER	CERC-NFRAP
RUMBLE SLF NO. 2 PHASE IV EXPANSIO	SWF/LF, HIST LF, FINANCIAL ASSURANCE
COURTNEY RIDGE LANDFILL	SWF/LF, HIST LF, FINANCIAL ASSURANCE
BAMBOO HUT	LUST, UST
CAMPER'S CORNER	LUST, UST
HALE TRAILER PARK	LUST, UST
FIRST ASSEMBLY OF GOD	UST
HY-VEE FUELING STATION	UST
PHILLIPS CIRCLE K #2706332	AST
FIRST ASSEMBLY OF GOD	RCRA-SQG, FINDS
WAL MART SUPERCENTER #1094	RCRA-SQG
DR VINYL & ASSOCIATES	RCRA-NonGen
TIRES PLUS RAYTOWN	RCRA-NonGen, FINDS
CRPB	RCRA-NonGen
QUIKTRIP #209	RCRA-CESQG
PHILLIPS PETROLEUM CO SS #57243	RCRA-CESQG
LEE'S SUMMIT SANITARY LANDFILL	HIST LF, FINANCIAL ASSURANCE
SOUTHEAST SANITARY LANDFILL	HIST LF, FINANCIAL ASSURANCE
INDEPENDENCE SOLID WASTE TRANSFER	HIST LF

OVERVIEW MAP - 3439224.2s



-  Target Property
-  Sites at elevations higher than or equal to the target property
-  Sites at elevations lower than the target property
-  Manufactured Gas Plants
-  National Priority List Sites
-  Dept. Defense Sites
-  Indian Reservations BIA
-  Power transmission lines
-  Oil & Gas pipelines from USGS
-  100-year flood zone
-  500-year flood zone
-  National Wetland Inventory

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

SITE NAME: Animal Shelter
 ADDRESS: 2200 Raytown Road
 Kansas City MO 64129
 LAT/LONG: 39.0445 / 94.4938

CLIENT: Tetra Tech EMI
 CONTACT: Joanna Sciegenka
 INQUIRY #: 3439224.2s
 DATE: October 23, 2012 5:21 pm

DETAIL MAP - 3439224.2s



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

- 
-  Indian Reservations BIA
-  Power transmission lines
-  Oil & Gas pipelines from USGS
-  100-year flood zone
-  500-year flood zone
-  National Wetland Inventory

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

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 Kansas City MO 64129
 LAT/LONG: 39.0445 / 94.4938

CLIENT: Tetra Tech EMI
 CONTACT: Joanna Sciegenka
 INQUIRY #: 3439224.2s
 DATE: October 23, 2012 5:27 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	1	0	NR	NR	1
FEDERAL FACILITY	1.000		0	0	0	0	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	1	NR	NR	NR	1
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	0	1	NR	1
<i>State and tribal landfill and/or solid waste disposal site lists</i>								
SWF/LF	0.500		0	0	0	NR	NR	0
<i>State and tribal leaking storage tank lists</i>								
LUST	0.500		0	0	1	NR	NR	1
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		0	2	NR	NR	NR	2

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								
AUL	0.500		0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
HIST LF	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL	TP		NR	NR	NR	NR	NR	0
DEL SHWS	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	0.250		0	0	NR	NR	NR	0
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

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
MINES	0.250		0	0	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
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
UIC	TP		NR	NR	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
MO RRC	TP		NR	NR	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
AIRS	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
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
FINANCIAL ASSURANCE	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants	1.000		0	0	0	0	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

A1
NNW
1/8-1/4
0.212 mi.
1120 ft.

TRUMAN SPORTS COMPLEX PARK
INT OF RAYTOWN RD & EASTERN
KANSAS CITY, MO 64129

UST **U003239583**
N/A

Site 1 of 2 in cluster A

Relative:
Lower

UST:

Facility ID:	ST0019895
Region:	KC
Lat/Long:	39.04645 / -94.4947
Lat/Long (dms):	Not reported
Easting:	Not reported
Northing:	Not reported
Method Data Was Obtained:	Zip Code Centroid
Accuracy Of Geospatial Data:	8
Owner Of Geospatial Data:	Hazardous Waste Program
Amount Of Deviation In Accuracy:	Not reported
Deviation In Meters; Feet; Pdrop; Score:	Not reported
Geospatial Point Line Area Indicator:	Not reported
Geospatial Horizontal Reference Datum:	Not reported
Where Geospatial Data Collected On Site:	Not reported
Geospatial Source Data Location:	Not reported
Geospatial Data Collected By:	Not reported
Geospatial Elevation Method:	Not reported
Geospatial Elevation Reference Datum:	Not reported
Date Gis Data Collected:	Not reported

Actual:
760 ft.

Tanks:

Owner:

Owner ID:	OW02896
Owner Name:	JACKSON COUNTY PARKS & REC
Owner Address:	22807 WOODS CHAPEL ROAD
Owner City,St,Zip:	BLUE SPRINGS, MO 64015
Owner County Code:	95
Owner Phone:	7958200
Mail Was Not Deliverable:	No
Is Owner Active?:	Yes
Date Registration Received:	Not reported
Date Record Added:	1995-06-30 00:00:00
Date Record Edited:	1998-11-23 00:00:00
Name of Person Editing Record:	NRESSD

Tank ID:	1
Tank Double Wall:	0
Tank Type:	Below Ground
Tank Status:	Removed
Meet 98 Update Requirements:	No
Date Tank Installed:	Not reported
Tank Material:	Steel
Code for Tank Material Manufacturer:	Not reported
Code for Tank Installer:	Not reported
Other Type Of Tank Material:	Not reported
Tank Internal Protection:	No
Other Tank Internal Protection:	Not reported
Tank Internal Protection Date:	Not reported
Tank External Protection:	Unknown
Other Type Tank Extn Protec:	Not reported
Tank External Protec Date:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TRUMAN SPORTS COMPLEX PARK (Continued)

U003239583

Date Tank Last Used: 02/11/1998
Date Tank Permanently Closed/ Removed: 02/14/1998
Dt Tk Exp Brought InUse/Internal Tracking: Not reported
Tank Fees Waived: No
Expedite Closure On Tank?: No
Responsible Person Expediting Closure: Not reported
Temporary Status Verified Date: Not reported
Admin Fee 585: Not reported
Date Administratively Closed: Not reported
Date Record Added: 02/11/1998
Date Record Edited: 11/04/1998
Person Adding/Editing Record: NREQHW-LENOM
Date Of NFA Letter: 02/14/1998
Is Tank Used For Emergency Generator: No
Date Closure Notice Received: 02/09/1998
Date Of Approval Letter: 1998-02-14 00:00:00
Firm Closing Tank: BURNS & MCDONNELL
Date Closure Report Received: 1998-09-28 00:00:00
Registration End Date: Not reported
LockOut Flag: No
Comments: Not reported

Tank Compartment:

Tank Compartment PK: 36620
Tank PK: 36622
Compartment No: 1
Compartment Status: Removed
Compartment Temp Verified Dt: Not reported
Capacity: 4000
Pipe Installation Dt: Not reported
Pipe System: Not reported
Pipe Material: 1
Pipe Material Other: Not reported
Pipe Protection: Not reported
Pipe Protection Dt: Not reported
Pipe Double Wall: 0
Substance: Gasoline, Including Blends
Substance Other: Not reported
Hazardous Substance: Not reported
Case Number: Not reported
Mixture: 0
Date of Last Use: 1998-02-11 00:00:00
Spill Protection: 0
Tanks Use: 0

Tank Aug 2011:

Facility Id: ST0019895
Tank Id: 1
Site Usage: Not reported
Risk Type: Not reported
Soil Type: Not reported
GW Flow: Not reported
Offsite Impact: Not reported
Free Product: Not reported
Drinking Water: Not reported
Closed Under: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TRUMAN SPORTS COMPLEX PARK (Continued)

U003239583

No Drinking Wells: No
No Buildings: No
Vapor Barrier: 0
St Louis Mo: No
Special Well Area: No
Surface Cap: No
No Excavation: No

A2 RAYTOWN ROAD
NNW RAYTOWN RD & EASTERN AVE
1/8-1/4 KANSAS CITY, MO 64133
0.235 mi.
1242 ft.

CERCLIS 1000418162
FINDS MOD980631600

Site 2 of 2 in cluster A

Relative: CERCLIS:
Lower Site ID: 0701195
EPA ID: MOD980631600
Actual: Facility County: JACKSON
765 ft. Short Name: RAYTOWN ROAD
Congressional District: 05
IFMS ID: A781
SMSA Number: 3760
USGC Hydro Unit: 10300101
Federal Facility: Not a Federal Facility
DMNSN Number: 32.70000
Site Orphan Flag: N
RCRA ID: Not reported
USGS Quadrangle: INDEPENDENCE
Site Init By Prog: Not reported
NFRAP Flag: Not reported
Parent ID: Not reported
RST Code: Not reported
EPA Region: 07
Classification: Other
Site Settings Code: Not reported
NPL Status: Not on the NPL
DMNSN Unit Code: ACRE
RBRAC Code: Not reported
RResp Fed Agency Code: Not reported
Non NPL Status: Referred to Removal - NFRAP
Non NPL Status Date: 20040929
Site Fips Code: 29095
CC Concurrence Date: Not reported
CC Concurrence FY: Not reported
Alias EPA ID: Not reported
Site FUDS Flag: Not reported

CERCLIS Site Contact Name(s):

Contact ID: 7271582.00000
Contact Name: JAMIE BERNARD DRAKEY
Contact Tel: (913) 551-7400
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

CERCLIS Site Alias Name(s):

Alias ID: 201
Alias Name: RAYTOWN ROAD CLOSED LANDFILL (FINDS)

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RAYTOWN ROAD (Continued)

1000418162

Alias Address: Not reported
MO
Alias ID: 202
Alias Name: RAYTOWN ROAD LANDFILL
Alias Address: Not reported
Not reported
Alias ID: 203
Alias Name: RAYTOWN ROAD SITE
Alias Address: RAYTOWN RD & EASTERN AVE
KANSAS CITY, MO 64133
Alias ID: 202
Alias Comments: Not reported
Site Description: Not reported

CERCLIS Assessment History:

Action Code: 001
Action: DISCOVERY
Date Started: Not reported
Date Completed: 06/01/1981
Priority Level: Not reported
Operable Unit: SITE EVALUATION/DISPOSITION
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: SITE INSPECTION
Date Started: 03/01/1982
Date Completed: 04/01/1982
Priority Level: Low priority for further assessment
Operable Unit: SITE EVALUATION/DISPOSITION
Primary Responsibility: EPA Fund-Financed
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: PRELIMINARY ASSESSMENT
Date Started: 04/01/1982
Date Completed: 04/01/1982
Priority Level: Low priority for further assessment
Operable Unit: SITE EVALUATION/DISPOSITION
Primary Responsibility: EPA Fund-Financed
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: EXPANDED SITE INSPECTION

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RAYTOWN ROAD (Continued)

1000418162

Date Started: 11/01/1999
Date Completed: 11/01/2000
Priority Level: Recommended for HRS Scoring
Operable Unit: SITE EVALUATION/DISPOSITION
Primary Responsibility: EPA Fund-Financed
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: HAZARD RANKING SYSTEM PACKAGE
Date Started: 07/16/2001
Date Completed: 09/24/2004
Priority Level: Referred to Removal, no further Rmdl Asmt
Operable Unit: SITE EVALUATION/DISPOSITION
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: STATE SUPPORT AGENCY COOPERATIVE AGREEMENT
Date Started: 05/30/2006
Date Completed: 03/31/2009
Priority Level: Not reported
Operable Unit: SITE EVALUATION/DISPOSITION
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

[Click this hyperlink](#) while viewing on your computer to access
54 additional US CERCLIS Financial: record(s) in the EDR Site Report.

FINDS:

Registry ID: 110009351959

Environmental Interest/Information System

The MO-DNR (Missouri Department of Natural Resources) program involves a Resource Assessment and Monitoring Program, biological criteria development, monitoring of targeted sites to determine compliance with the designated use of aquatic life protection in the standards, monitoring for 303(3) purposes, and the development of a stream classification framework.

CERCLIS (Comprehensive Environmental Response, Compensation, and Liability Information System) is the Superfund database that is used to support management in all phases of the Superfund program. The system contains information on all aspects of hazardous waste sites, including an inventory of sites, planned and actual site activities,

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RAYTOWN ROAD (Continued)

1000418162

and financial information.

B3
West
1/8-1/4
0.241 mi.
1274 ft.

POLICE HELIPORT
4601 EASTERN
KANSAS CITY, MO 64129

UST **U003555848**
N/A

Site 1 of 2 in cluster B

Relative:
Higher

UST:

Actual:
839 ft.

Facility ID: ST0003132
Region: KC
Lat/Long: 39.0958 / -94.49819
Lat/Long (dms): Not reported
Easting: 370441.167
Northing: 4328476.02
Method Data Was Obtained: GPS, Carrier Phase, Static Mode (SA Off)
Accuracy Of Geospatial Data: 8
Owner Of Geospatial Data: Hazardous Waste Program
Amount Of Deviation In Accuracy: 13
Deviation In Meters; Feet; Pdop; Score: Feet
Geospatial Point Line Area Indicator: 001
Geospatial Horizontal Reference Datum: WGS84
Where Geospatial Data Collected On Site: Not reported
Geospatial Source Data Location: Not reported
Geospatial Data Collected By: Not reported
Geospatial Elevation Method: Not reported
Geospatial Elevation Reference Datum: Not reported
Date Gis Data Collected: Not reported

Tanks:

Owner:

Owner ID: OW10279
Owner Name: CITY OF KC GEN. SERVICE DEPT/CENTRAL FLEET
Owner Address: 5300 MUNICIPAL AVENUE
Owner City,St,Zip: KANSAS CITY, MO 64120
Owner County Code: 95
Owner Phone: 5139403
Mail Was Not Deliverable: No
Is Owner Active?: Yes
Date Registration Received: Not reported
Date Record Added: 1995-06-30 00:00:00
Date Record Edited: 2009-09-28 00:00:00
Name of Person Editing Record: KIRCHNER, M

Tank ID: 1
Tank Double Wall: 0
Tank Type: Below Ground
Tank Status: Removed
Meet 98 Update Requirements: Yes
Date Tank Installed: 01/01/1971
Tank Material: Steel
Code for Tank Material Manufacturer: Not reported
Code for Tank Installer: Not reported
Other Type Of Tank Material: Not reported
Tank Internal Protection: Yes
Other Tank Internal Protection: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

POLICE HELIPORT (Continued)

U003555848

Tank Internal Protection Date: 04/21/1993
Tank External Protection: Not reported
Other Type Tank Extn Protec: Not reported
Tank External Protec Date: Not reported
Date Tank Last Used: 02/28/2005
Date Tank Permanently Closed/ Removed: 12/27/2006
Dt Tk Exp Brought InUse/Internal Tracking: Not reported
Tank Fees Waived: No
Expedite Closure On Tank?: No
Responsible Person Expediting Closure: CM
Temporary Status Verified Date: Not reported
Admin Fee 585: Not reported
Date Administratively Closed: Not reported
Date Record Added: 06/30/1995
Date Record Edited: 06/12/2008
Person Adding/Editing Record: HANSEN, M
Date Of NFA Letter: 07/31/2006
Is Tank Used For Emergency Generator: No
Date Closure Notice Received: 12/02/2005
Date Of Approval Letter: 2005-12-13 00:00:00
Firm Closing Tank: BURNS & MCDONNELL
Date Closure Report Received: 2006-03-08 00:00:00
Registration End Date: 2010-09-30 00:00:00
LockOut Flag: No
Comments: Reviewed closure report. Still need to analyzed for PAHs. Lab analysis did not include QA/QC. Laboratory chain-of-custody did not report the storage temperature for the sample. Site map did not include underground utilities and direction of slope. MW 05/30/2006Reviewed correspondence. Issued NFA for this tank. MW 7/31/06

Tank Compartment:

Tank Compartment PK: 7487
Tank PK: 7487
Compartment No: 1
Compartment Status: Removed
Compartment Temp Verified Dt: Not reported
Capacity: 10000
Pipe Installation Dt: 1993-06-01 00:00:00
Pipe System: 1
Pipe Material: 2
Pipe Material Other: Not reported
Pipe Protection: Not reported
Pipe Protection Dt: 1993-06-01 00:00:00
Pipe Double Wall: 0
Substance: Kerosene
Substance Other: Not reported
Hazardous Substance: Not reported
Case Number: Not reported
Mixture: 0
Date of Last Use: 2005-02-28 00:00:00
Spill Protection: -1
Tanks Use: 0

Owner:

Owner ID: OW10279

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

POLICE HELIPORT (Continued)

U003555848

Owner Name: CITY OF KC GEN. SERVICE DEPT/CENTRAL FLEET
Owner Address: 5300 MUNICIPAL AVENUE
Owner City,St,Zip: KANSAS CITY, MO 64120
Owner County Code: 95
Owner Phone: 5139403
Mail Was Not Deliverable: No
Is Owner Active?: Yes
Date Registration Received: Not reported
Date Record Added: 1995-06-30 00:00:00
Date Record Edited: 2009-09-28 00:00:00
Name of Person Editing Record: KIRCHNER, M

Tank ID: 2
Tank Double Wall: 0
Tank Type: Below Ground
Tank Status: Removed
Meet 98 Update Requirements: No
Date Tank Installed: 01/01/1971
Tank Material: Steel
Code for Tank Material Manufacturer: Not reported
Code for Tank Installer: Not reported
Other Type Of Tank Material: Not reported
Tank Internal Protection: No
Other Tank Internal Protection: Not reported
Tank Internal Protection Date: Not reported
Tank External Protection: Unknown
Other Type Tank Extn Protec: Not reported
Tank External Protec Date: Not reported
Date Tank Last Used: 06/04/1993
Date Tank Permanently Closed/ Removed: 01/31/1994
Dt Tk Exp Brought InUse/Internal Tracking: Not reported
Tank Fees Waived: No
Expedite Closure On Tank?: No
Responsible Person Expediting Closure: Not reported
Temporary Status Verified Date: Not reported
Admin Fee 585: Not reported
Date Administratively Closed: Not reported
Date Record Added: 06/30/1995
Date Record Edited: 07/13/2005
Person Adding/Editing Record: PURVIS, K
Date Of NFA Letter: 01/31/1994
Is Tank Used For Emergency Generator: No
Date Closure Notice Received: 06/04/1993
Date Of Approval Letter: 1994-01-31 00:00:00
Firm Closing Tank: DOUBLE CHECK
Date Closure Report Received: 1994-01-25 00:00:00
Registration End Date: Not reported
LockOut Flag: No
Comments: Not reported

Tank Compartment:
Tank Compartment PK: 7488
Tank PK: 7488
Compartment No: 1
Compartment Status: Removed
Compartment Temp Verified Dt: Not reported
Capacity: 200

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

POLICE HELIPORT (Continued)

U003555848

Pipe Installation Dt: Not reported
Pipe System: 4
Pipe Material: 0
Pipe Material Other: Not reported
Pipe Protection: Not reported
Pipe Protection Dt: Not reported
Pipe Double Wall: 0
Substance: Used Oil
Substance Other: Not reported
Hazardous Substance: Not reported
Case Number: Not reported
Mixture: 0
Date of Last Use: 1993-06-04 00:00:00
Spill Protection: 0
Tanks Use: 0

Owner:

Owner ID: OW10279
Owner Name: CITY OF KC GEN. SERVICE DEPT/CENTRAL FLEET
Owner Address: 5300 MUNICIPAL AVENUE
Owner City,St,Zip: KANSAS CITY, MO 64120
Owner County Code: 95
Owner Phone: 5139403
Mail Was Not Deliverable: No
Is Owner Active?: Yes
Date Registration Received: Not reported
Date Record Added: 1995-06-30 00:00:00
Date Record Edited: 2009-09-28 00:00:00
Name of Person Editing Record: KIRCHNER, M

Tank ID: 3
Tank Double Wall: 0
Tank Type: Below Ground
Tank Status: Curently in use
Meet 98 Update Requirements: Yes
Date Tank Installed: 08/01/1993
Tank Material: Fiberglass
Code for Tank Material Manufacturer: Not reported
Code for Tank Installer: Not reported
Other Type Of Tank Material: Not reported
Tank Internal Protection: No
Other Tank Internal Protection: Not reported
Tank Internal Protection Date: Not reported
Tank External Protection: Unknown
Other Type Tank Extrn Protec: Not reported
Tank External Protec Date: Not reported
Date Tank Last Used: Not reported
Date Tank Permanently Closed/ Removed: Not reported
Dt Tk Exp Brought InUse/Internal Tracking: Not reported
Tank Fees Waived: No
Expedite Closure On Tank?: No
Responsible Person Expediting Closure: Not reported
Temporary Status Verified Date: Not reported
Admin Fee 585: Not reported
Date Administratively Closed: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

POLICE HELIPORT (Continued)

U003555848

Date Record Added: 06/07/1996
Date Record Edited: 07/24/2003
Person Adding/Editing Record: PURVIS, K
Date Of NFA Letter: Not reported
Is Tank Used For Emergency Generator: No
Date Closure Notice Received: Not reported
Date Of Approval Letter: Not reported
Firm Closing Tank: Not reported
Date Closure Report Received: Not reported
Registration End Date: 2015-09-30 00:00:00
LockOut Flag: No
Comments: Not reported

Tank Compartment:

Tank Compartment PK: 7489
Tank PK: 7489
Compartment No: 1
Compartment Status: Curently in use
Compartment Temp Verified Dt: Not reported
Capacity: 560
Pipe Installation Dt: 1993-08-01 00:00:00
Pipe System: 4
Pipe Material: 2
Pipe Material Other: Not reported
Pipe Protection: Not reported
Pipe Protection Dt: Not reported
Pipe Double Wall: 0
Substance: Used Oil
Substance Other: Not reported
Hazardous Substance: Not reported
Case Number: Not reported
Mixture: 0
Date of Last Use: Not reported
Spill Protection: -1
Tanks Use: 0

Tank Aug 2011:

Facility Id: ST0003132
Tank Id: 1
Site Usage: 1
Risk Type: 3
Soil Type: Not reported
GW Flow: 34
Offsite Impact: 17
Free Product: 0
Drinking Water: 42
Closed Under: Not reported
No Drinking Wells: No
No Buildings: No
Vapor Barrier: 0
St Louis Mo: No
Special Well Area: No
Surface Cap: No
No Excavation: No

Facility Id: ST0003132

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

POLICE HELIPORT (Continued)

U003555848

Tank Id: 2
 Site Usage: Not reported
 Risk Type: Not reported
 Soil Type: Not reported
 GW Flow: Not reported
 Offsite Impact: Not reported
 Free Product: Not reported
 Drinking Water: Not reported
 Closed Under: Not reported
 No Drinking Wells: No
 No Buildings: No
 Vapor Barrier: 0
 St Louis Mo: No
 Special Well Area: No
 Surface Cap: No
 No Excavation: No

Facility Id: ST0003132
 Tank Id: 3
 Site Usage: Not reported
 Risk Type: Not reported
 Soil Type: Not reported
 GW Flow: Not reported
 Offsite Impact: Not reported
 Free Product: Not reported
 Drinking Water: Not reported
 Closed Under: Not reported
 No Drinking Wells: No
 No Buildings: No
 Vapor Barrier: 0
 St Louis Mo: No
 Special Well Area: No
 Surface Cap: No
 No Excavation: No

B4
West
1/8-1/4
0.241 mi.
1274 ft.

KANSAS CITY POLICE HELICOPTER
4601 EASTERN
KANSAS CITY, MO 64129

RCRA-SQG 1012182766
MOR000534834

Site 2 of 2 in cluster B

Relative:
Higher

RCRA-SQG:

Date form received by agency: 09/04/2009
 Facility name: KANSAS CITY POLICE HELICOPTER
 Facility address: 4601 EASTERN
 KANSAS CITY, MO 64129
 EPA ID: MOR000534834
 Mailing address: EASTERN
 KANSAS CITY, MO 64129
 Contact: DARWIN ULLEDAHL
 Contact address: EASTERN
 KANSAS CITY, MO 64129

Actual:
839 ft.

Contact country: US
 Contact telephone: (816) 929-2700
 Contact email: DARWIN.ULLEDAHL@KCPD.ORG
 EPA Region: 07
 Classification: Small Small Quantity Generator
 Description: Handler: generates more than 100 and less than 1000 kg of hazardous

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KANSAS CITY POLICE HELICOPTER (Continued)

1012182766

waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: KANSAS CITY POLICE DEPT
Owner/operator address: EASTERN
KANSAS CITY, MO 64129
Owner/operator country: US
Owner/operator telephone: (816) 929-2700
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 09/04/2009
Owner/Op end date: Not reported

Owner/operator name: KANSAS CITY POLICE DEPT
Owner/operator address: EASTERN
KANSAS CITY, MO 64129
Owner/operator country: US
Owner/operator telephone: (816) 929-2700
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 09/04/2009
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, 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.

Violation Status: No violations found

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

5
SSW
1/4-1/2
0.367 mi.
1936 ft.

MUNICIPAL CORRECTIONAL INSTITUTION
8100 OZARK RD
KANSAS CITY, MO 64129

LUST **U000754397**
UST **N/A**
SPILLS

Relative:
Higher

LUST:

Facility ID: ST0007453
 Region: KC - Kansas City Regional Office
 Lat/Long (dms): Not reported
 Spill Number: Not reported
 Release Date: 04/04/1994
 Release Type: UNDERGROUND STORAGE TANK
 Date Cleanup Started: 04/08/1994
 Date Cleanup Finished: 09/12/1994
 Expedited: No
 Expedited Date: Not reported
 Expenditures From The American Recovery and Reinvestment Act of 2009: No
 Reopened Date: Not reported
 Number Of Remediation Monitoring Wells: 0
 Active: No
Date Of NFA Letter From DNR: Not reported
 Date Record Meets Archive Criteria: Not reported
 Remediation ID: R004948
 Rank: Not reported
 Emergency Response Date: Not reported
 Emergency Cleanup Start: Not reported
 Referred To DGLS for Investigation: Not reported
 Contractor Performing Clean Up: Not reported
 RBCA NFA: No
 Project Manager: L
 Next Correspondence/Update With Fac: Not reported
 Date Added: 06/30/1995
 Date Record Edited: Not reported
 Person Adding Or Editing Record: Not reported
 Facility Sent To State Archive: Yes
 Date Remediation Unit Closed The File: Not reported
 Site Affectd By Funding Level From PSTIF: No
 General Comments: 09-23-94 - MTM - ONE 5,000 GALLON GASOLINE UST REMOVED - OVEREXCAVATED CONTAMINATION - CLOSED.

Actual:
951 ft.

UST:

Facility ID: ST0007453
 Region: KC
 Lat/Long: 39.0386361 / -94.491220
 Lat/Long (dms): Not reported
 Easting: 370939.831
 Northing: 4322122.05
 Method Data Was Obtained: Street Centerline
 Accuracy Of Geospatial Data: 8
 Owner Of Geospatial Data: Hazardous Waste Program
 Amount Of Deviation In Accuracy: 100
 Deviation In Meters; Feet; Pdrop; Score: Score
 Geospatial Point Line Area Indicator: 001
 Geospatial Horizontal Reference Datum: NAD83
 Where Geospatial Data Collected On Site: Not reported
 Geospatial Source Data Location: HWP
 Geospatial Data Collected By: ROBERTS, J
 Geospatial Elevation Method: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MUNICIPAL CORRECTIONAL INSTITUTION (Continued)

U000754397

Geospatial Elevation Reference Datum: Not reported
Date Gis Data Collected: 01/15/2004

Tanks:

Owner:

Owner ID: OW10279
Owner Name: CITY OF KC GEN. SERVICE DEPT/CENTRAL FLEET
Owner Address: 5300 MUNICIPAL AVENUE
Owner City,St,Zip: KANSAS CITY, MO 64120
Owner County Code: 95
Owner Phone: 5139403
Mail Was Not Deliverable: No
Is Owner Active?: Yes
Date Registration Received: Not reported
Date Record Added: 1995-06-30 00:00:00
Date Record Edited: 2009-09-28 00:00:00
Name of Person Editing Record: KIRCHNER, M

Tank ID: 1
Tank Double Wall: 0
Tank Type: Below Ground
Tank Status: Removed
Meet 98 Update Requirements: No
Date Tank Installed: Not reported
Tank Material: Steel
Code for Tank Material Manufacturer: Not reported
Code for Tank Installer: Not reported
Other Type Of Tank Material: Not reported
Tank Internal Protection: Not reported
Other Tank Internal Protection: Not reported
Tank Internal Protection Date: Not reported
Tank External Protection: Unknown
Other Type Tank Extn Protec: Not reported
Tank External Protec Date: Not reported
Date Tank Last Used: 09/28/1994
Date Tank Permanently Closed/ Removed: 09/28/1994
Dt Tk Exp Brought InUse/Internal Tracking: Not reported
Tank Fees Waived: No
Expedite Closure On Tank?: No
Responsible Person Expediting Closure: Not reported
Temporary Status Verified Date: Not reported
Admin Fee 585: Not reported
Date Administratively Closed: Not reported
Date Record Added: 06/30/1995
Date Record Edited: Not reported
Person Adding/Editing Record: Not reported
Date Of NFA Letter: 09/28/1994
Is Tank Used For Emergency Generator: No
Date Closure Notice Received: 03/17/1994
Date Of Approval Letter: 1994-09-28 00:00:00
Firm Closing Tank: PROGRESSIVE ENVIRONMENTAL
Date Closure Report Received: Not reported
Registration End Date: Not reported
LockOut Flag: No
Comments: 1-5000 GAL GAS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MUNICIPAL CORRECTIONAL INSTITUTION (Continued)

U000754397

Tank Compartment:

Tank Compartment PK: 18833
Tank PK: 18833
Compartment No: 1
Compartment Status: Removed
Compartment Temp Verified Dt: Not reported
Capacity: 5000
Pipe Installation Dt: Not reported
Pipe System: Not reported
Pipe Material: 0
Pipe Material Other: Not reported
Pipe Protection: Not reported
Pipe Protection Dt: Not reported
Pipe Double Wall: 0
Substance: Gasoline, Including Blends
Substance Other: Not reported
Hazardous Substance: Not reported
Case Number: Not reported
Mixture: 0
Date of Last Use: 1994-09-28 00:00:00
Spill Protection: 0
Tanks Use: 0

Tank Aug 2011:

Facility Id: ST0007453
Tank Id: 1
Site Usage: Not reported
Risk Type: Not reported
Soil Type: Not reported
GW Flow: Not reported
Offsite Impact: Not reported
Free Product: Not reported
Drinking Water: Not reported
Closed Under: Not reported
No Drinking Wells: No
No Buildings: No
Vapor Barrier: 0
St Louis Mo: No
Special Well Area: No
Surface Cap: No
No Excavation: No

MO SPILLS:

Facility ID: 9906081630BWH
Regional Office: KCRO
Spill Number: 9906081630BWH
Date Reported: 06/08/1999
Call Date/time: 16:30:00
Lat/Long: 39.038742 -94.491325
UTM Zone For GPS: 15
Discovery Date: 06/08/1999
Email: False
Is This A Continuous Release To Be Monitered?: False
Cause: Discharge/Air Emission
Contact Name: City of Kansas City

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MUNICIPAL CORRECTIONAL INSTITUTION (Continued)

U000754397

Contact Phone #: 0000000000
Contact Id: {EA63891F-BB0B-4A57-8012-AD2239487E10}
Organization Name: Municipal Correction Facility
Organization Address1: 8100 Ozark Road
Organization Address2: Not reported
Organization City: Kansas City
Organization State: MO
Organization Zip: Not reported
Entity Phone #: 0000000000
Date Of Incident Search: 06/08/1999
Property Code Description: Sewer/WWTF
Property Sub Category: Not reported
Cause Description: Discharge/Air Emission
Cause Sub Category: Not reported
Description: Other - Unknown
Job Code: Not reported
Additional Info: Spill Summary:
CALLER REPORTS A SEWER PIPE FROM THE RP'S FACILITY ROUTINELY BREAKS
CAUSING A DISCHARGE TO A
CREEK.
Response Summary: EER REFERRED THIS INFORMATION TO KCRO AS A CIT
IZEN'S
COMPLAINT.
Additional Information: SUPERINTENDENT OF FACILITY IS JOHN VOGEL
MAINTENANCE SUPERVISOR IS JOHN MILLS PIPE IS CURRENTLY BROKEN AND
CREEK CONTAINS BLUE WATER.
Spill Num: 9906081630BWH
Agent Code: 418
Agency Receiving Copy of Incident Report: DNR - Kansas City Regional Office
Immediate Or Delayed: D
User Name: DNR - Kansas City Regional Office

6
NNW
1/2-1
0.981 mi.
5179 ft.

GM LEEDS PLANT
6817 STADIUM DRIVE
KANSAS CITY, MO 64129

SHWS S105568417
N/A

Relative:
Lower
Actual:
768 ft.

Missouri Hazardous Waste:
Category Name: Appealed Sites
Category Desc: Sites in this category are not listed on the Registry; Registry listing has been appealed and the appeal is not yet resolved.
Site Class: Not reported
Owner Name: Leeds Industrial Park
Owner Address: 6817 Stadium Dr.
Owner City,St,Zip: Kansas City, MO 64129
Action Date: 08/03/2000
Contamination: BTEX, Paints/Pigments
Classification: Not reported
Date of Placement: Not reported
Present Property Owner: Not reported
Lead Agency: Not reported
Address Detail: Not reported
Waste Type: Not reported
Quantity: Not reported
Site Description: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GM LEEDS PLANT (Continued)

S105568417

Env Problems/Areas of Concern:	Not reported
Remedial Action:	Not reported
General Geologic/Hydrologic Setting:	Not reported
Public Drinking Water Advisory:	Not reported
Health Assessment:	Not reported

Count: 20 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BLUE SPRINGS	1007461716	PINK HILL ACRES DEMOLITION LANDFIL	3500 NW HWY 7	64129	FINDS, SWF/LF, NPDES, AIRS
JACKSON COUNTY	S106614813	LEE'S SUMMIT SANITARY LANDFILL	HWY 50 TO HAMBLEN RD, S. 2 MIL		HIST LF, FINANCIAL ASSURANCE
JACKSON COUNTY	S106614782	SOUTHEAST SANITARY LANDFILL	BRUCE R. WATKINS FREEWAY / H		HIST LF, FINANCIAL ASSURANCE
JACKSON COUNTY	S106614841	INDEPENDENCE SOLID WASTE TRANSFER	FIVE-TENTHS MILES E OF HWY 291		HIST LF
JACKSON COUNTY	S106614811	RUMBLE SLF NO. 2 PHASE IV EXPANSIO	TWO MILES NE OF SUGAR CREEK OF		SWF/LF, HIST LF, FINANCIAL ASSURANCE
JACKSON COUNTY	S106614830	COURTNEY RIDGE LANDFILL	TWO MILES NE OF SUGAR CREEK, E		SWF/LF, HIST LF, FINANCIAL ASSURANCE
KANSAS CITY	U003981089	BAMBOO HUT	10111 E 40 HWY		LUST, UST
KANSAS CITY	U003981090	CAMPER'S CORNER	10005 E 40 HWY		LUST, UST
KANSAS CITY	U003981088	HALE TRAILER PARK	10009 E HWY 40		LUST, UST
RAYTOWN	1007107263	DR VINYL & ASSOCIATES	9501 E 350 HWY	64133	RCRA-NonGen
RAYTOWN	U003973876	FIRST ASSEMBLY OF GOD	9724 E 350 HWY	64133	UST
RAYTOWN	U004190893	HY-VEE FUELING STATION	9400 E 350 HWY	64133	UST
RAYTOWN	1012043232	MERCURY-HERNDON CAREER CENTER	10322 EAST 350 HIGHWAY	64133	CERC-NFRAP
RAYTOWN	A100343689	PHILLIPS CIRCLE K #2706332	9805 E 350 HWY	64133	AST
RAYTOWN	1006809013	FIRST ASSEMBLY OF GOD	9800 E HWY 350	64133	RCRA-SQG, FINDS
RAYTOWN	1007110525	QUIKTRIP #209	9323 E HWY 350	64133	RCRA-CESQG
RAYTOWN	1004741501	TIRES PLUS RAYTOWN	9067 E HWY 350	64133	RCRA-NonGen, FINDS
RAYTOWN	1012182780	WAL MART SUPERCENTER #1094	10300 E HWY 350	64133	RCRA-SQG
RAYTOWN	1007109438	CRPB	5310 RAYTOWN RD	64133	RCRA-NonGen
RAYTOWN	1010786314	PHILLIPS PETROLEUM CO SS #57243	9805 E STATE HIGHWAY 350	64133	RCRA-CESQG

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: 06/07/2012	Source: EPA
Date Data Arrived at EDR: 07/05/2012	Telephone: N/A
Date Made Active in Reports: 09/18/2012	Last EDR Contact: 10/11/2012
Number of Days to Update: 75	Next Scheduled EDR Contact: 01/21/2013
	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: 06/07/2012	Source: EPA
Date Data Arrived at EDR: 07/05/2012	Telephone: N/A
Date Made Active in Reports: 09/18/2012	Last EDR Contact: 10/11/2012
Number of Days to Update: 75	Next Scheduled EDR Contact: 01/21/2013
	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: 06/07/2012	Source: EPA
Date Data Arrived at EDR: 07/05/2012	Telephone: N/A
Date Made Active in Reports: 09/18/2012	Last EDR Contact: 10/11/2012
Number of Days to Update: 75	Next Scheduled EDR Contact: 01/21/2013
	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: 12/27/2011	Source: EPA
Date Data Arrived at EDR: 02/27/2012	Telephone: 703-412-9810
Date Made Active in Reports: 03/12/2012	Last EDR Contact: 10/18/2012
Number of Days to Update: 14	Next Scheduled EDR Contact: 12/10/2012
	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: 12/10/2010	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/11/2011	Telephone: 703-603-8704
Date Made Active in Reports: 02/16/2011	Last EDR Contact: 10/09/2012
Number of Days to Update: 36	Next Scheduled EDR Contact: 01/21/2013
	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: 12/28/2011	Source: EPA
Date Data Arrived at EDR: 02/27/2012	Telephone: 703-412-9810
Date Made Active in Reports: 03/12/2012	Last EDR Contact: 10/18/2012
Number of Days to Update: 14	Next Scheduled EDR Contact: 12/10/2012
	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: 08/19/2011
Date Data Arrived at EDR: 08/31/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 132

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 08/07/2012
Next Scheduled EDR Contact: 11/26/2012
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: 03/15/2012
Date Data Arrived at EDR: 04/04/2012
Date Made Active in Reports: 05/15/2012
Number of Days to Update: 41

Source: Environmental Protection Agency
Telephone: 913-551-7003
Last EDR Contact: 10/04/2012
Next Scheduled EDR Contact: 01/14/2013
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: 03/15/2012
Date Data Arrived at EDR: 04/04/2012
Date Made Active in Reports: 05/15/2012
Number of Days to Update: 41

Source: Environmental Protection Agency
Telephone: 913-551-7003
Last EDR Contact: 10/04/2012
Next Scheduled EDR Contact: 01/14/2013
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: 03/15/2012
Date Data Arrived at EDR: 04/04/2012
Date Made Active in Reports: 05/15/2012
Number of Days to Update: 41

Source: Environmental Protection Agency
Telephone: 913-551-7003
Last EDR Contact: 10/04/2012
Next Scheduled EDR Contact: 01/14/2013
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: 03/15/2012
Date Data Arrived at EDR: 04/04/2012
Date Made Active in Reports: 05/15/2012
Number of Days to Update: 41

Source: Environmental Protection Agency
Telephone: 913-551-7003
Last EDR Contact: 10/04/2012
Next Scheduled EDR Contact: 01/14/2013
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: 12/30/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/30/2011	Telephone: 703-603-0695
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 09/05/2012
Number of Days to Update: 11	Next Scheduled EDR Contact: 12/24/2012
	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: 12/30/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/30/2011	Telephone: 703-603-0695
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 09/05/2012
Number of Days to Update: 11	Next Scheduled EDR Contact: 12/24/2012
	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: 12/09/2005	Source: Department of the Navy
Date Data Arrived at EDR: 12/11/2006	Telephone: 843-820-7326
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 05/21/2012
Number of Days to Update: 31	Next Scheduled EDR Contact: 09/03/2012
	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: 04/02/2012	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 04/03/2012	Telephone: 202-267-2180
Date Made Active in Reports: 06/14/2012	Last EDR Contact: 10/02/2012
Number of Days to Update: 72	Next Scheduled EDR Contact: 01/14/2013
	Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: Registry of Confirmed Abandoned or Uncontrolled Hazardous Waste Disposal Sites

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 06/06/2012	Source: Department of Natural Resources
Date Data Arrived at EDR: 06/07/2012	Telephone: 573-751-1990
Date Made Active in Reports: 07/18/2012	Last EDR Contact: 09/18/2012
Number of Days to Update: 41	Next Scheduled EDR Contact: 12/17/2012
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HWS DETAIL: Registry Annual Report

Each site is described in detail in this annual report and included the following information: a general description of the site; a summary of any significant environmental problems at and near the site; a summary of any serious health problems in the immediate vicinity of the site; the status of any testing, monitoring or remedial actions in progress or recommended by the department.

Date of Government Version: 06/30/2011	Source: Department of Natural Resources
Date Data Arrived at EDR: 03/16/2012	Telephone: 573-751-3176
Date Made Active in Reports: 04/11/2012	Last EDR Contact: 09/10/2012
Number of Days to Update: 26	Next Scheduled EDR Contact: 12/24/5007
	Data Release Frequency: Annually

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

SWF/LF: Solid Waste Facility List

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 06/12/2012	Source: Department of Natural Resources
Date Data Arrived at EDR: 06/13/2012	Telephone: 573-751-5401
Date Made Active in Reports: 07/18/2012	Last EDR Contact: 10/01/2012
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/03/2012
	Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tanks

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

Date of Government Version: 09/11/2012	Source: Department of Natural Resources
Date Data Arrived at EDR: 09/19/2012	Telephone: 573-751-0135
Date Made Active in Reports: 10/16/2012	Last EDR Contact: 09/19/2012
Number of Days to Update: 27	Next Scheduled EDR Contact: 12/31/2012
	Data Release Frequency: Semi-Annually

LAST: Leaking Aboveground Storage Tanks

A listing of leaking aboveground storage tanks.

Date of Government Version: 09/11/2012	Source: Department of Natural Resources
Date Data Arrived at EDR: 09/19/2012	Telephone: 573-751-6822
Date Made Active in Reports: 10/16/2012	Last EDR Contact: 09/19/2012
Number of Days to Update: 27	Next Scheduled EDR Contact: 12/31/2012
	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: 08/01/2012	Source: EPA Region 10
Date Data Arrived at EDR: 08/02/2012	Telephone: 206-553-2857
Date Made Active in Reports: 10/16/2012	Last EDR Contact: 07/26/2012
Number of Days to Update: 75	Next Scheduled EDR Contact: 11/12/2012
	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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/27/2012	Source: EPA Region 8
Date Data Arrived at EDR: 08/28/2012	Telephone: 303-312-6271
Date Made Active in Reports: 10/16/2012	Last EDR Contact: 07/26/2012
Number of Days to Update: 49	Next Scheduled EDR Contact: 11/26/2012
	Data Release Frequency: Quarterly

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: 09/06/2012	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/07/2012	Telephone: 415-972-3372
Date Made Active in Reports: 10/16/2012	Last EDR Contact: 07/26/2012
Number of Days to Update: 39	Next Scheduled EDR Contact: 11/12/2012
	Data Release Frequency: Quarterly

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/12/2012	Source: EPA Region 1
Date Data Arrived at EDR: 05/09/2012	Telephone: 617-918-1313
Date Made Active in Reports: 07/10/2012	Last EDR Contact: 08/03/2012
Number of Days to Update: 62	Next Scheduled EDR Contact: 11/12/2012
	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: 12/14/2011	Source: EPA Region 4
Date Data Arrived at EDR: 12/15/2011	Telephone: 404-562-8677
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 07/26/2012
Number of Days to Update: 26	Next Scheduled EDR Contact: 11/12/2012
	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: 09/12/2011	Source: EPA Region 6
Date Data Arrived at EDR: 09/13/2011	Telephone: 214-665-6597
Date Made Active in Reports: 11/11/2011	Last EDR Contact: 07/26/2012
Number of Days to Update: 59	Next Scheduled EDR Contact: 11/12/2012
	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: 08/17/2012	Source: EPA Region 7
Date Data Arrived at EDR: 08/28/2012	Telephone: 913-551-7003
Date Made Active in Reports: 10/16/2012	Last EDR Contact: 07/26/2012
Number of Days to Update: 49	Next Scheduled EDR Contact: 11/12/2012
	Data Release Frequency: Varies

State and tribal registered storage tank lists

UST: Petroleum Storage Tanks

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 09/11/2012	Source: Department of Natural Resources
Date Data Arrived at EDR: 09/19/2012	Telephone: 573-751-0135
Date Made Active in Reports: 10/16/2012	Last EDR Contact: 09/19/2012
Number of Days to Update: 27	Next Scheduled EDR Contact: 12/31/2012
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

AST: Aboveground Petroleum Storage Tanks
Registered Aboveground Storage Tanks.

Date of Government Version: 08/07/2012
Date Data Arrived at EDR: 08/08/2012
Date Made Active in Reports: 09/28/2012
Number of Days to Update: 51

Source: Department of Agriculture
Telephone: 573-751-7062
Last EDR Contact: 10/15/2012
Next Scheduled EDR Contact: 12/31/2012
Data Release Frequency: Semi-Annually

INDIAN UST R1: Underground Storage Tanks on Indian Land

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

Date of Government Version: 04/12/2012
Date Data Arrived at EDR: 05/02/2012
Date Made Active in Reports: 07/16/2012
Number of Days to Update: 75

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/03/2012
Next Scheduled EDR Contact: 11/12/2012
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: 12/14/2011
Date Data Arrived at EDR: 12/15/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 26

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 07/26/2012
Next Scheduled EDR Contact: 11/12/2012
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: 02/28/2012
Date Data Arrived at EDR: 02/29/2012
Date Made Active in Reports: 05/15/2012
Number of Days to Update: 76

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 07/26/2012
Next Scheduled EDR Contact: 11/12/2012
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

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

Date of Government Version: 05/10/2011
Date Data Arrived at EDR: 05/11/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 34

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 07/26/2012
Next Scheduled EDR Contact: 11/12/2012
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: 08/17/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/26/2012
Next Scheduled EDR Contact: 11/12/2012
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN UST R8: Underground Storage Tanks on Indian Land

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

Date of Government Version: 08/27/2012	Source: EPA Region 8
Date Data Arrived at EDR: 08/28/2012	Telephone: 303-312-6137
Date Made Active in Reports: 10/16/2012	Last EDR Contact: 07/26/2012
Number of Days to Update: 49	Next Scheduled EDR Contact: 11/12/2012
	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: 08/01/2012	Source: EPA Region 10
Date Data Arrived at EDR: 08/02/2012	Telephone: 206-553-2857
Date Made Active in Reports: 10/16/2012	Last EDR Contact: 07/26/2012
Number of Days to Update: 75	Next Scheduled EDR Contact: 11/12/2012
	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: 09/06/2012	Source: EPA Region 9
Date Data Arrived at EDR: 09/07/2012	Telephone: 415-972-3368
Date Made Active in Reports: 10/16/2012	Last EDR Contact: 07/26/2012
Number of Days to Update: 39	Next Scheduled EDR Contact: 11/12/2012
	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: 10/15/2012
Number of Days to Update: 55	Next Scheduled EDR Contact: 01/28/2013
	Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

AUL: Sites with Controls

Activity and use limitations include both engineering controls and institutional controls.

Date of Government Version: 08/03/2012	Source: Department of Natural Resources
Date Data Arrived at EDR: 08/22/2012	Telephone: 573-751-3176
Date Made Active in Reports: 10/04/2012	Last EDR Contact: 10/18/2012
Number of Days to Update: 43	Next Scheduled EDR Contact: 12/03/2012
	Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

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

Date of Government Version: 09/28/2012	Source: EPA, Region 1
Date Data Arrived at EDR: 10/02/2012	Telephone: 617-918-1102
Date Made Active in Reports: 10/16/2012	Last EDR Contact: 10/02/2012
Number of Days to Update: 14	Next Scheduled EDR Contact: 01/14/2013
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN VCP R7: Voluntary Cleanup Priority Listing

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

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

VCP: Sites Participating in the Voluntary Cleanup Program

Sites participating in the Voluntary Cleanup Program.

Date of Government Version: 08/03/2012	Source: Department of Natural Resources
Date Data Arrived at EDR: 08/22/2012	Telephone: 573-526-8913
Date Made Active in Reports: 10/04/2012	Last EDR Contact: 10/18/2012
Number of Days to Update: 43	Next Scheduled EDR Contact: 12/03/2012
	Data Release Frequency: Semi-Annually

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Site List

Brownfields are sites where redevelopment and reuse is hampered by known or suspected contamination with hazardous substances. While many brownfield sites are minimally contaminated, potential environmental liability can be a problem for owners, operators, prospective buyers and financial institutions. Because of the large number of these sites, their economic impact especially in heavily industrial areas is substantial.

Date of Government Version: 08/03/2012	Source: Department of Natural Resources
Date Data Arrived at EDR: 08/22/2012	Telephone: 573-526-8913
Date Made Active in Reports: 10/04/2012	Last EDR Contact: 10/18/2012
Number of Days to Update: 43	Next Scheduled EDR Contact: 12/03/2012
	Data Release Frequency: Semi-Annually

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 06/25/2012	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/25/2012	Telephone: 202-566-2777
Date Made Active in Reports: 09/18/2012	Last EDR Contact: 09/24/2012
Number of Days to Update: 85	Next Scheduled EDR Contact: 01/07/2013
	Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009	Source: EPA, Region 9
Date Data Arrived at EDR: 05/07/2009	Telephone: 415-947-4219
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 07/03/2012
Number of Days to Update: 137	Next Scheduled EDR Contact: 10/08/2012
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

HIST LF: Solid Waste Facility Database List

This database contains detailed information per site. It is no longer maintained by the Department of Natural Resources. For current information on solid waste facilities/landfills see the SWF/LF database.

Date of Government Version: 04/12/2005
Date Data Arrived at EDR: 07/19/2006
Date Made Active in Reports: 08/18/2006
Number of Days to Update: 30

Source: Department of Natural Resources
Telephone: 573-751-5401
Last EDR Contact: 01/12/2009
Next Scheduled EDR Contact: 04/13/2009
Data Release Frequency: No Update Planned

SWRCY: Solid Waste Recycling Facilities

A listing of recycling center locations.

Date of Government Version: 11/05/2009
Date Data Arrived at EDR: 12/23/2009
Date Made Active in Reports: 01/21/2010
Number of Days to Update: 29

Source: Department of Natural Resources
Telephone: 573-526-3944
Last EDR Contact: 09/19/2012
Next Scheduled EDR Contact: 12/17/2012
Data Release Frequency: Varies

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

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 08/03/2012
Next Scheduled EDR Contact: 11/19/2012
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: 03/16/2012
Date Data Arrived at EDR: 06/12/2012
Date Made Active in Reports: 07/16/2012
Number of Days to Update: 34

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 09/05/2012
Next Scheduled EDR Contact: 12/17/2012
Data Release Frequency: Quarterly

DEL SHWS: Registry Sites Withdrawn or Deleted

A list of sites that were removed from the Registry or for which Registry action was suspended due to cleanup.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 06/07/2012
Date Made Active in Reports: 07/18/2012
Number of Days to Update: 41

Source: Department of Natural Resources
Telephone: 573-522-3710
Last EDR Contact: 09/18/2012
Next Scheduled EDR Contact: 12/17/2012
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CDL: Environmental Emergency Response System

Incidents reported to the Department of Natural Resources where drug lab materials were involved.

Date of Government Version: 06/27/2012	Source: Department of Natural Resources
Date Data Arrived at EDR: 08/02/2012	Telephone: 573-751-3443
Date Made Active in Reports: 08/30/2012	Last EDR Contact: 09/21/2012
Number of Days to Update: 28	Next Scheduled EDR Contact: 12/31/2012
	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.

Date of Government Version: 09/01/2007	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 11/19/2008	Telephone: 202-307-1000
Date Made Active in Reports: 03/30/2009	Last EDR Contact: 03/23/2009
Number of Days to Update: 131	Next Scheduled EDR Contact: 06/22/2009
	Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/16/2012	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/26/2012	Telephone: 202-564-6023
Date Made Active in Reports: 06/14/2012	Last EDR Contact: 07/27/2012
Number of Days to Update: 80	Next Scheduled EDR Contact: 11/12/2012
	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: 04/01/2012	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 04/03/2012	Telephone: 202-366-4555
Date Made Active in Reports: 06/14/2012	Last EDR Contact: 10/02/2012
Number of Days to Update: 72	Next Scheduled EDR Contact: 01/14/2013
	Data Release Frequency: Annually

SPILLS: Environmental Response Tracking Database

Releases of hazardous substances reported to the department's Environmental Emergency Response (EER) section.

Date of Government Version: 06/27/2012	Source: Department of Natural Resources
Date Data Arrived at EDR: 08/02/2012	Telephone: 573-526-3349
Date Made Active in Reports: 08/30/2012	Last EDR Contact: 09/21/2012
Number of Days to Update: 28	Next Scheduled EDR Contact: 12/31/2012
	Data Release Frequency: Semi-Annually

Other Ascertainable Records

RCRA-NonGen: 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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/15/2012
Date Data Arrived at EDR: 04/04/2012
Date Made Active in Reports: 05/15/2012
Number of Days to Update: 41

Source: Environmental Protection Agency
Telephone: 913-551-7003
Last EDR Contact: 10/04/2012
Next Scheduled EDR Contact: 01/14/2013
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: 08/07/2012
Next Scheduled EDR Contact: 11/19/2012
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 10/18/2012
Next Scheduled EDR Contact: 01/28/2013
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: 12/31/2009
Date Data Arrived at EDR: 08/12/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 112

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 09/10/2012
Next Scheduled EDR Contact: 12/24/2012
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: 06/01/2012
Date Data Arrived at EDR: 07/24/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 56

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 10/01/2012
Next Scheduled EDR Contact: 01/14/2013
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: 02/27/2012
Date Data Arrived at EDR: 03/14/2012
Date Made Active in Reports: 06/14/2012
Number of Days to Update: 92

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 09/12/2012
Next Scheduled EDR Contact: 12/24/2012
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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 08/28/2012
Next Scheduled EDR Contact: 12/10/2012
Data Release Frequency: Varies

MINES: Mines Master Index File

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

Date of Government Version: 08/18/2011
Date Data Arrived at EDR: 09/08/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 21

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 09/04/2012
Next Scheduled EDR Contact: 12/17/2012
Data Release Frequency: Semi-Annually

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: 12/31/2009
Date Data Arrived at EDR: 09/01/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 131

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 09/20/2012
Next Scheduled EDR Contact: 12/10/2012
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
Date Data Arrived at EDR: 09/29/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 64

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/29/2012
Next Scheduled EDR Contact: 01/07/2013
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
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/22/2012
Next Scheduled EDR Contact: 12/10/2012
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
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/22/2012
Next Scheduled EDR Contact: 12/10/2012
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.

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: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

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: 07/27/2012
Next Scheduled EDR Contact: 11/12/2012
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: 07/20/2011
Date Data Arrived at EDR: 11/10/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 61

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 10/19/2012
Next Scheduled EDR Contact: 01/28/2013
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 11/01/2010
Date Data Arrived at EDR: 11/10/2010
Date Made Active in Reports: 02/16/2011
Number of Days to Update: 98

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 10/19/2012
Next Scheduled EDR Contact: 01/28/2013
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: 06/21/2011
Date Data Arrived at EDR: 07/15/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 60

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 09/05/2012
Next Scheduled EDR Contact: 12/24/2012
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 01/10/2012	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/12/2012	Telephone: 202-343-9775
Date Made Active in Reports: 03/01/2012	Last EDR Contact: 10/02/2012
Number of Days to Update: 49	Next Scheduled EDR Contact: 01/21/2013
	Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 10/23/2011	Source: EPA
Date Data Arrived at EDR: 12/13/2011	Telephone: (913) 551-7003
Date Made Active in Reports: 03/01/2012	Last EDR Contact: 09/11/2012
Number of Days to Update: 79	Next Scheduled EDR Contact: 12/24/2012
	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

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: 12/31/2009	Source: EPA/NTIS
Date Data Arrived at EDR: 03/01/2011	Telephone: 800-424-9346
Date Made Active in Reports: 05/02/2011	Last EDR Contact: 08/31/2012
Number of Days to Update: 62	Next Scheduled EDR Contact: 12/10/2012
	Data Release Frequency: Biennially

UIC: Underground Injection Wells Database

A listing of underground injection well locations. The UIC Program is responsible for regulating the construction, operation, permitting, and closure of injection wells that place fluids underground for storage or disposal.

Date of Government Version: 08/24/2012	Source: Department of Natural Resources
Date Data Arrived at EDR: 08/28/2012	Telephone: 573-368-2183
Date Made Active in Reports: 10/17/2012	Last EDR Contact: 08/23/2012
Number of Days to Update: 50	Next Scheduled EDR Contact: 12/10/2012
	Data Release Frequency: Varies

DRYCLEANERS: Drycleaners in Missouri Listing

A listing of drycleaner facilities that are potentially eligible for reimbursement of department approved cleanup costs under the Drycleaning Environmental Response Trust Fund.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/18/2012	Source: Department of Natural Resources
Date Data Arrived at EDR: 09/19/2012	Telephone: 573-526-8913
Date Made Active in Reports: 10/09/2012	Last EDR Contact: 09/18/2012
Number of Days to Update: 20	Next Scheduled EDR Contact: 12/31/2012
	Data Release Frequency: Varies

RRC: Certified Hazardous Waste Resource Recovery Facilities

Facilities that take hazardous waste material, either from on-site or off-site, and make it re-usable.

Date of Government Version: 09/13/2012	Source: Department of Natural Resources
Date Data Arrived at EDR: 09/20/2012	Telephone: 573-751-3176
Date Made Active in Reports: 10/16/2012	Last EDR Contact: 09/18/2012
Number of Days to Update: 26	Next Scheduled EDR Contact: 12/31/2012
	Data Release Frequency: Semi-Annually

NPDES: Permitted Facility Listing

A listing of permitted facilities from the Water Pollution Branch.

Date of Government Version: 07/13/2012	Source: Department of Natural Resources
Date Data Arrived at EDR: 07/16/2012	Telephone: 573-751-7023
Date Made Active in Reports: 09/07/2012	Last EDR Contact: 10/04/2012
Number of Days to Update: 53	Next Scheduled EDR Contact: 01/21/2013
	Data Release Frequency: Varies

AIRS: Permit Facility Listing

A listing of Air Pollution Control Program permits.

Date of Government Version: 09/18/2012	Source: Department of Natural Resources
Date Data Arrived at EDR: 09/21/2012	Telephone: 573-751-4817
Date Made Active in Reports: 10/09/2012	Last EDR Contact: 09/18/2012
Number of Days to Update: 18	Next Scheduled EDR Contact: 12/31/2012
	Data Release Frequency: Varies

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	Source: USGS
Date Data Arrived at EDR: 12/08/2006	Telephone: 202-208-3710
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 10/18/2012
Number of Days to Update: 34	Next Scheduled EDR Contact: 01/28/2013
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/09/2011	Telephone: 615-532-8599
Date Made Active in Reports: 05/02/2011	Last EDR Contact: 10/22/2012
Number of Days to Update: 34	Next Scheduled EDR Contact: 02/04/2013
	Data Release Frequency: Varies

FINANCIAL ASSURANCE 2: Financial Assurance Information Listing

Financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/10/2012
Date Data Arrived at EDR: 09/11/2012
Date Made Active in Reports: 10/11/2012
Number of Days to Update: 30

Source: Department of Natural Resources
Telephone: 573-751-5401
Last EDR Contact: 09/11/2012
Next Scheduled EDR Contact: 12/24/2012
Data Release Frequency: Varies

COAL ASH: Coal Ash Disposal Sites

A listing of power plants with coal ash ponds.

Date of Government Version: 05/13/2010
Date Data Arrived at EDR: 06/03/2010
Date Made Active in Reports: 06/29/2010
Number of Days to Update: 26

Source: Department of Natural Resources
Telephone: 573-526-1825
Last EDR Contact: 10/04/2012
Next Scheduled EDR Contact: 01/14/2013
Data Release Frequency: Varies

FINANCIAL ASSURANCE 1: Financial Assurance Information Listing

Financial Assurance information.

Date of Government Version: 09/05/2012
Date Data Arrived at EDR: 09/07/2012
Date Made Active in Reports: 10/09/2012
Number of Days to Update: 32

Source: Department of Natural Resources
Telephone: 573-751-3553
Last EDR Contact: 09/05/2012
Next Scheduled EDR Contact: 12/24/2012
Data Release Frequency: Varies

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
Date Data Arrived at EDR: 05/18/2012
Date Made Active in Reports: 05/25/2012
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 08/16/2012
Next Scheduled EDR Contact: 11/26/2012
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: 08/17/2010
Date Data Arrived at EDR: 01/03/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 77

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 09/14/2012
Next Scheduled EDR Contact: 12/24/2012
Data Release Frequency: Varies

COAL ASH DOE: Sleam-Electric Plan 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: 10/16/2012
Next Scheduled EDR Contact: 01/28/2013
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: 08/03/2012
Next Scheduled EDR Contact: 11/12/2012
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 05/24/2012	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/05/2012	Telephone: 202-566-1917
Date Made Active in Reports: 06/14/2012	Last EDR Contact: 08/14/2012
Number of Days to Update: 9	Next Scheduled EDR Contact: 12/03/2012
	Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 07/31/2012	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/13/2012	Telephone: 617-520-3000
Date Made Active in Reports: 09/18/2012	Last EDR Contact: 08/07/2012
Number of Days to Update: 36	Next Scheduled EDR Contact: 11/26/2012
	Data Release Frequency: Quarterly

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 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: 10/18/2012
Number of Days to Update: 339	Next Scheduled EDR Contact: 01/28/2013
	Data Release Frequency: N/A

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 06/07/2012	Source: EPA
Date Data Arrived at EDR: 07/02/2012	Telephone: 202-564-6023
Date Made Active in Reports: 10/16/2012	Last EDR Contact: 10/04/2012
Number of Days to Update: 106	Next Scheduled EDR Contact: 01/14/2013
	Data Release Frequency: Quarterly

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

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: 08/20/2012
Date Data Arrived at EDR: 08/20/2012
Date Made Active in Reports: 09/20/2012
Number of Days to Update: 31

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 08/20/2012
Next Scheduled EDR Contact: 12/03/2012
Data Release Frequency: Annually

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: 08/01/2012
Date Data Arrived at EDR: 08/09/2012
Date Made Active in Reports: 10/03/2012
Number of Days to Update: 55

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 08/09/2012
Next Scheduled EDR Contact: 11/19/2012
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/23/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 57

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 10/22/2012
Next Scheduled EDR Contact: 02/04/2013
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 06/22/2012
Date Made Active in Reports: 07/31/2012
Number of Days to Update: 39

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 08/23/2012
Next Scheduled EDR Contact: 12/10/2012
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/19/2012
Date Made Active in Reports: 09/27/2012
Number of Days to Update: 70

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 09/18/2012
Next Scheduled EDR Contact: 12/31/2012
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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.

Electric Power Transmission Line Data

Source: Rextag Strategies Corp.

Telephone: (281) 769-2247

U.S. Electric Transmission and Power Plants Systems Digital GIS Data

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Child Care Facilities

Source: Department of Health & Senior Services

Telephone: 573-751-2450

Flood Zone Data: This data, 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 and 2005 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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

ANIMAL SHELTER
2200 RAYTOWN ROAD
KANSAS CITY, MO 64129

TARGET PROPERTY COORDINATES

Latitude (North):	39.0445 - 39° 2' 40.20"
Longitude (West):	94.4938 - 94° 29' 37.68"
Universal Tranverse Mercator:	Zone 15
UTM X (Meters):	370723.9
UTM Y (Meters):	4322568.5
Elevation:	793 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	39094-A4 INDEPENDENCE, MO
Most Recent Revision:	1996

West Map:	39094-A5 KANSAS CITY, MO KS
Most Recent Revision:	1996

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

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

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

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

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

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

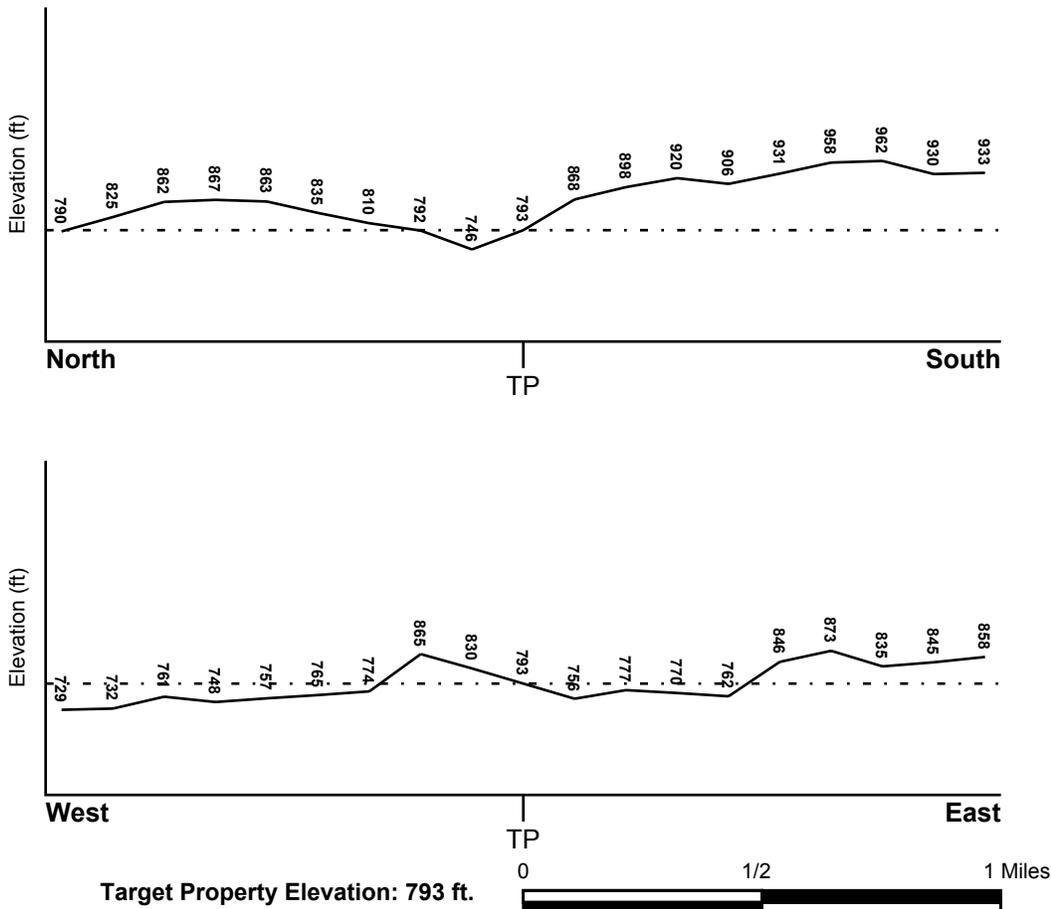
TOPOGRAPHIC INFORMATION

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

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NNE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



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

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

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

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

FEMA FLOOD ZONE

<u>Target Property County</u> JACKSON, MO	<u>FEMA Flood Electronic Data</u> YES - refer to the Overview Map and Detail Map
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Flood Plain Panel at Target Property: 29095C - FEMA DFIRM Flood data

Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

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

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

AQUIFLOW®

Search Radius: 1.000 Mile.

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

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

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

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

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

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

ROCK STRATIGRAPHIC UNIT

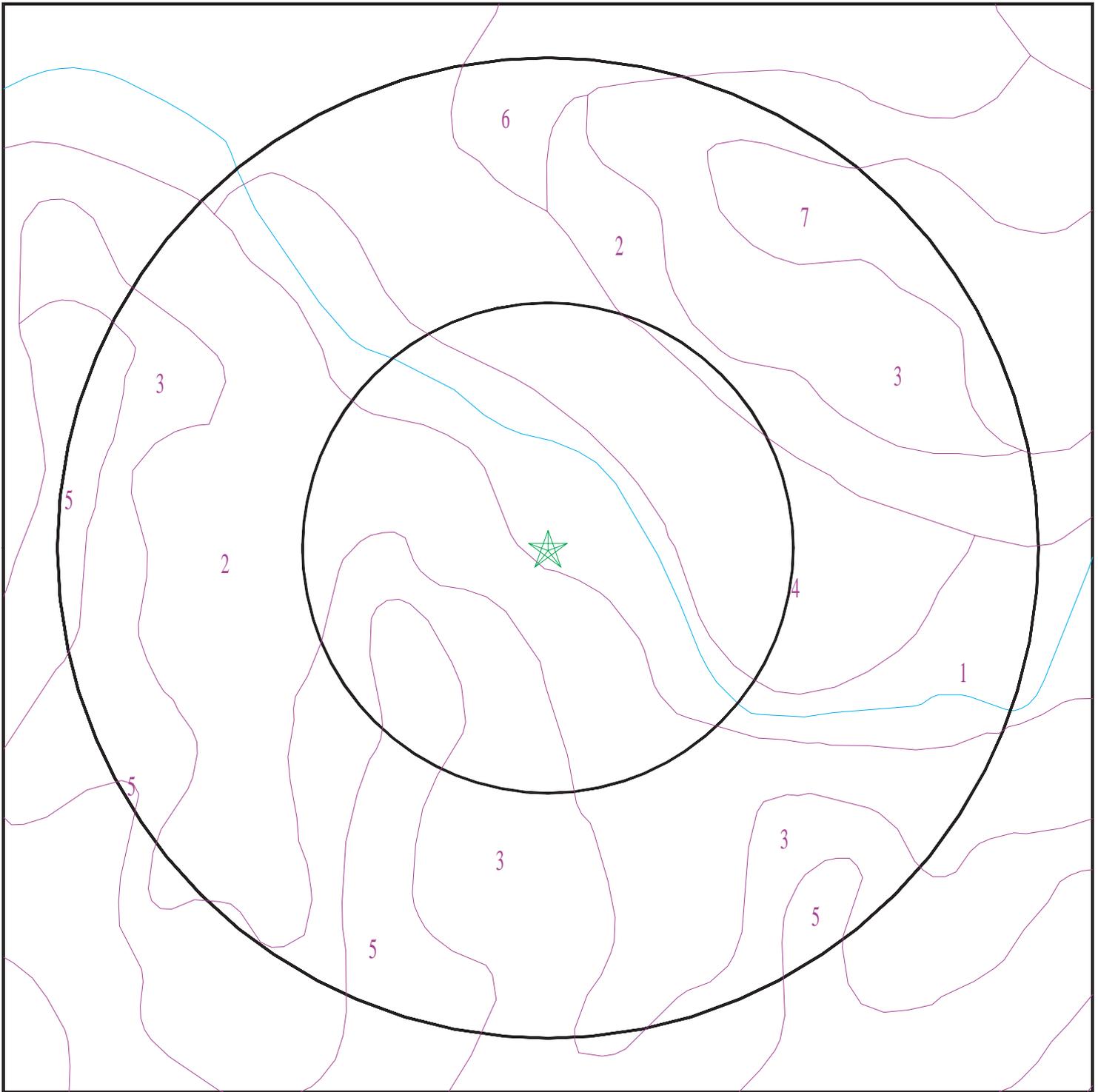
Era:	Paleozoic
System:	Pennsylvanian
Series:	Missourian Series
Code:	PP3 (<i>decoded above as Era, System & Series</i>)

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

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

SSURGO SOIL MAP - 3439224.2s



- ★ Target Property
- ∕ SSURGO Soil
- ∕ Water



SITE NAME: Animal Shelter
ADDRESS: 2200 Raytown Road
Kansas City MO 64129
LAT/LONG: 39.0445 / 94.4938

CLIENT: Tetra Tech EMI
CONTACT: Joanna Sciegenka
INQUIRY #: 3439224.2s
DATE: October 23, 2012 5:27 pm

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Kennebec

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 122 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	18 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 14 Min: 4	Max: 7.3 Min: 6.1
2	18 inches	59 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 14 Min: 4	Max: 7.3 Min: 6.1

Soil Map ID: 2

Soil Component Name: Snead

Soil Surface Texture: flaggy silty clay loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Moderately well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 76 inches

Depth to Watertable Min: > 76 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	11 inches	flaggy silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0.11 Min: 0	Max: Min:
2	11 inches	31 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0.11 Min: 0	Max: Min:
3	31 inches	40 inches	bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0.11 Min: 0	Max: Min:

Soil Map ID: 3

Soil Component Name: Knox

Soil Surface Texture: silty clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	3 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 14 Min: 4	Max: 7.3 Min: 6.1
2	3 inches	29 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 14 Min: 4	Max: 7.3 Min: 6.1
3	29 inches	59 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 14 Min: 4	Max: 7.3 Min: 6.1

Soil Map ID: 4

Soil Component Name: Udifluvents

Soil Surface Texture:
Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	59 inches		Not reported	Not reported	Max: Min:	Max: Min:
2	59 inches	79 inches		Not reported	Not reported	Max: Min:	Max: Min:

Soil Map ID: 5

Soil Component Name: Knox

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	11 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 7.3 Min: 6.1
2	11 inches	61 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 7.3 Min: 6.1

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
3	61 inches	70 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 7.3 Min: 6.1

Soil Map ID: 6

Soil Component Name: Snead

Soil Surface Texture: flaggy silty clay loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 76 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	11 inches	flaggy silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0.11 Min: 0	Max: Min:
2	11 inches	40 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0.11 Min: 0	Max: Min:

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
3	40 inches	50 inches	bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 0.11 Min: 0	Max: Min:

Soil Map ID: 7

Soil Component Name: Knox

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	11 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 7.3 Min: 6.1
2	11 inches	61 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 7.3 Min: 6.1

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
3	61 inches	70 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 7.3 Min: 6.1

LOCAL / REGIONAL WATER AGENCY RECORDS

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

WELL SEARCH DISTANCE INFORMATION

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

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	USGS2627097	1/4 - 1/2 Mile SE
2	USGS2627114	1/2 - 1 Mile WNW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

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

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

STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

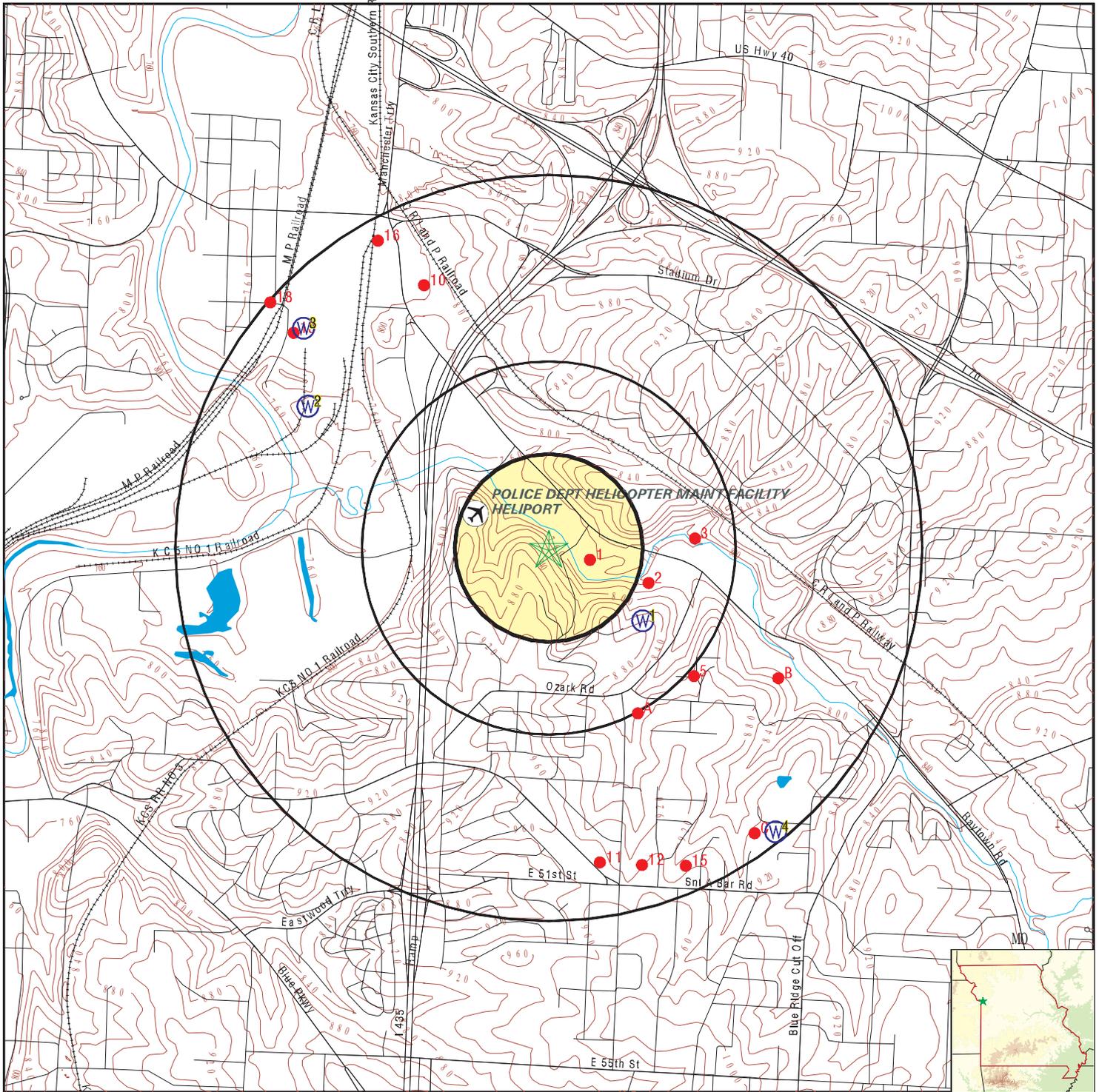
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
3	MOLOG1000021835	1/2 - 1 Mile NW
4	MOLOG1000021712	1/2 - 1 Mile SE

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	MOOG40000008708	0 - 1/8 Mile ESE
2	MOOG40000008703	1/4 - 1/2 Mile ESE
3	MOOG40000008718	1/4 - 1/2 Mile East
A4	MOOG40000008684	1/4 - 1/2 Mile SSE
5	MOOG40000008689	1/2 - 1 Mile SE
A7	MOOG40000008682	1/2 - 1 Mile SSE
A6	MOOG40000008681	1/2 - 1 Mile SSE
B9	MOOG40000008687	1/2 - 1 Mile ESE
B8	MOOG40000008688	1/2 - 1 Mile ESE
10	MOOG40000008756	1/2 - 1 Mile NNW
11	MOOG40000008648	1/2 - 1 Mile South
12	MOOG40000008647	1/2 - 1 Mile SSE
13	MOOG40000008740	1/2 - 1 Mile NW
C14	MOOG40000008667	1/2 - 1 Mile SE
15	MOOG40000008646	1/2 - 1 Mile SSE
16	MOOG40000008763	1/2 - 1 Mile NNW
C17	MOOG40000008650	1/2 - 1 Mile SE
18	MOOG40000008748	1/2 - 1 Mile NW

PHYSICAL SETTING SOURCE MAP - 3439224.2s



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

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



SITE NAME: Animal Shelter
 ADDRESS: 2200 Raytown Road
 Kansas City MO 64129
 LAT/LONG: 39.0445 / 94.4938

CLIENT: Tetra Tech EMI
 CONTACT: Joanna Sciegenka
 INQUIRY #: 3439224.2s
 DATE: October 23, 2012 5:27 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

1
SE
1/4 - 1/2 Mile
Higher

FED USGS USGS2627097

Agency cd:	USGS	Site no:	390230094292001
Site name:	T49N R32W 30DB	EDR Site id:	USGS2627097
Latitude:	390230	Dec lat:	39.04167207
Longitude:	0942920	Coor meth:	M
Dec lon:	-94.48911992	Latlong datum:	NAD27
Coor accr:	M	District:	29
Dec latlong datum:	NAD83	County:	095
State:	29	Land net:	NWSES30 T49N R32W 5
Country:	US	Map scale:	24000
Location map:	INDEPENDENCE		
Altitude:	Not Reported		
Altitude method:	Not Reported		
Altitude accuracy:	Not Reported		
Altitude datum:	Not Reported		
Hydrologic:	Lower MissouriCrooked. Kansas, Missouri. Area = 2650 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Unconfined single aquifer		
Aquifer:	PLEASANTON GROUP		
Well depth:	36.0	Hole depth:	36.0
Source of depth data:	logs		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1944-04-14
Water quality data end date:	1944-04-14	Water quality data count:	1
Ground water data begin date:	0000-00-00	Ground water data end date:	0000-00-00
Ground water data count:	0		

Ground-water levels, Number of Measurements: 0

2
WNW
1/2 - 1 Mile
Lower

FED USGS USGS2627114

Agency cd:	USGS	Site no:	390300094302001
Site name:	T49N R33W 24DBC1	EDR Site id:	USGS2627114
Latitude:	390300	Dec lat:	39.05000523
Longitude:	0943020	Coor meth:	M
Dec lon:	-94.50578701	Latlong datum:	NAD27
Coor accr:	M	District:	29
Dec latlong datum:	NAD83	County:	095
State:	29	Land net:	SWNWSES24 T49N R33W 5
Country:	US	Map scale:	24000
Location map:	KANSAS CITY		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Altitude:	740.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5.		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Lower Missouri Crooked. Kansas, Missouri. Area = 2650 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Confined multiple aquifers		
Aquifer:	CHEROKEE GROUP		
Well depth:	615	Hole depth:	615
Source of depth data:	logs		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1944-05-18
Water quality data end date:	1944-05-18	Water quality data count:	1
Ground water data begin date:	0000-00-00	Ground water data end date:	0000-00-00
Ground water data count:	0		

Ground-water levels, Number of Measurements: 0

3
NW
1/2 - 1 Mile
Lower

MO WELLS MOLOG1000021835

Id:	008541	Located:	Not Reported
Not enough:	Not Reported	Scale:	100k
Locator:	VBProgram	Stname:	MISSOURI
Stabbrev:	MO	County:	JACKSON
Utm x:	369684		
Utm y:	4323534		
Latitude:	39.05304		
Longitude:	-94.506		
Qtr3:	NW	Qtr2:	NW
Qtr1:	SE		
Section:	24		
Tnsp:	49		
Tnspdir:	Not Reported		
Rng:	33		
Rngdir:	W		
Plssx:	369584		
Plssy:	4323636		
Location p:	143		
Elev:	764		
Idnum:	8541		
Swl:	0		
Quadrangle:	KANSAS CITY	Site id:	MOLOG1000021835

Header Information:			
Id:	008541	Well type:	Industrial High Capacity Well
Agencyname:	GEOLOGICAL SURVEY (DGLS)	County:	JACKSON
Fips:	095	Stname:	MISSOURI
Stabbrev:	MO	Qtr3:	NW
Qtr2:	NW	Qtr1:	SE
Section:	24	Tnsp:	49
Tnspdir:	N	Rng:	33
Rngdir:	W		
Latitude:	39.05304		
Longitude:	-94.506		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Utm x:	369684	Ohio code:	39094A5
Utm y:	4323534	Scale:	100k
Quadmap na:	KANSAS CITY	Typelog1:	S
Llmeas:	D	Typelog3:	Not Reported
Locator:	VBProgram	Owner:	Cooper Jarrett Company Well #1
Typelog2:	Not Reported	Driller:	Bradford & Son
Ownerind:	1	Permit:	Not Reported
Leasenam:	Not Reported	Logger:	McManamy
Drldate:	1944/05/15	Prodyld:	Not Reported
Logdate:	0000/00/00	Swla:	Not Reported
Elev:	764	Formation :	PLEASANTON GROUP
Elevbase:	S	Aquclass:	Not Reported
Gpmcfs:	Not Reported	Reldate:	Not Reported
Depthbed:	10	Probind2:	Not Reported
Sampsav:	1	Additional:	Not Reported
Swlb:	Not Reported	Add databa:	Not Reported
Water at:	Not Reported	Add data 1:	Not Reported
Totdepth:	652	Add data 2:	Not Reported
Formation1:	MISSISSIPPIAN SYSTEM	Rmkind:	N
Intcrdtp:	0	C plugind:	Not Reported
Intcrdbt:	0	Remarks:	PLANT @ LEEDS; NE COR 40TH & EWING - DRY & ABANDONED
Drawdown:	Not Reported	C total:	0
Confind:	0	C remarks:	Not Reported
Probind1:	Not Reported		
Probind3:	Not Reported		
Alagency1:	Not Reported		
Addition 1:	Not Reported		
Alum2:	Not Reported		
Add data 3:	Not Reported		

Strata Information:

Id:	008541	Stratordr:	0
Fmtop:	263		
Fmbot:	263		
Formation :	COAL		
Primlith:	COAL	Minlith:	Not Reported
Seclith:	Not Reported		
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	008541	Stratordr:	0
Fmtop:	0		
Fmbot:	10		
Formation :	SOIL		
Primlith:	CLAY	Minlith:	Not Reported
Seclith:	Not Reported		
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Minrocc: 0
Rmk20: Not Reported

Strata Information:

Id:	008541	Stratordr:	4800
Fmtop:	10		
Fmbot:	650		
Formation :	PENNSYLVANIAN SYSTEM		
Primlith:	Not Reported	Minlith:	Not Reported
Seclith:	Not Reported		
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	008541	Stratordr:	13500
Fmtop:	10		
Fmbot:	183		
Formation :	MISSOURIAN SERIES		
Primlith:	Not Reported	Minlith:	Not Reported
Seclith:	Not Reported		
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	008541	Stratordr:	18800
Fmtop:	10		
Fmbot:	183		
Formation :	PLEASANTON GROUP		
Primlith:	SHALE	Minlith:	GRAVEL
Seclith:	SAND		
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	008541	Stratordr:	19500
Fmtop:	183		
Fmbot:	650		
Formation :	DESMOINESIAN SERIES		
Primlith:	Not Reported	Minlith:	Not Reported
Seclith:	Not Reported		
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Minrocc: 0
Rmk20: Not Reported

Strata Information:

Id:	008541	Stratordr:	19600
Fmtop:	183		
Fmbot:	295		
Formation :	MARMATON GROUP		
Primlith:	SHALE		
Seclith:	LIMESTONE	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	008541	Stratordr:	22000
Fmtop:	250		
Fmbot:	260		
Formation :	MYRICK STATION LS. MEMBER		
Primlith:	LIMESTONE		
Seclith:	Not Reported	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	008541	Stratordr:	23300
Fmtop:	285		
Fmbot:	295		
Formation :	EXCELLO SHALE		
Primlith:	SHALE		
Seclith:	Not Reported	Minlith:	COAL
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	008541	Stratordr:	23400
Fmtop:	295		
Fmbot:	650		
Formation :	CHEROKEE GROUP		
Primlith:	SHALE		
Seclith:	SAND	Minlith:	LIMESTONE
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Minrocc: 0
Rmk20: Not Reported

Strata Information:

Id:	008541	Stratordr:	24100
Fmtop:	318		
Fmbot:	342		
Formation :	"SQUIRREL" SANDSTONE MEMBER		
Primlith:	SAND		
Seclith:	Not Reported	Minlith:	Not Reported
Primmin:	OIL		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	008541	Stratordr:	24600
Fmtop:	366		
Fmbot:	371		
Formation :	ARDMORE LIMESTONE MEMBER		
Primlith:	LIMESTONE		
Seclith:	Not Reported	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	008541	Stratordr:	26500
Fmtop:	519		
Fmbot:	520		
Formation :	SEVILLE LIMESTONE		
Primlith:	LIMESTONE		
Seclith:	Not Reported	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	008541	Stratordr:	28400
Fmtop:	650		
Fmbot:	652		
Formation :	MISSISSIPPIAN SYSTEM		
Primlith:	LIMESTONE		
Seclith:	Not Reported	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Minrocc: 0
Rmk20: Not Reported

Strata Information:

Id:	008541	Stratordr:	32300
Fmtop:	280		
Fmbot:	285		
Formation :	BLACKJACK CREEK LIMESTONE		
Primlith:	LIMESTONE		
Seclith:	Not Reported	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	008541	Stratordr:	99900
Fmtop:	652		
Fmbot:	652		
Formation :	TOTAL DEPTH		
Primlith:	Not Reported		
Seclith:	Not Reported	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

**4
SE
1/2 - 1 Mile
Higher**

MO WELLS MOLOG1000021712

Id:	004836	Located:	Not Reported
Notenough:	Not Reported	Scale:	100k
Locator:	VBProgram	Stname:	MISSOURI
Stabbrev:	MO	County:	JACKSON
Utm x:	371682		
Utm y:	4321328		
Latitude:	39.03347		
Longitude:	-94.4825		
Qtr3:	C	Qtr2:	SE
Qtr1:	SE		
Section:	30		
Tnsp:	49		
Tnspdir:	Not Reported		
Rng:	32		
Rngdir:	W		
Plssx:	371082		
Plssy:	4321925		
Location p:	281		
Elev:	920		
Idnum:	4836		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Swl: 0
 Quadrangle: INDEPENDENCE Site id: MOLOG1000021712

Header Information:

Id: 004836 Agencyname: GEOLOGICAL SURVEY (DGLS) Fips: 095 Stabbrev: MO Qtr2: SE Section: 30 Tnspdir: N Rngdir: W Latitude: 39.03347 Longitude: -94.4825 Utm x: 371682 Utm y: 4321328 Quadmap na: INDEPENDENCE Llmeas: D Locator: VBProgram Typelog2: Not Reported Ownerind: 1 Leasename: Pitcher Well #1 Drldate: 1938/06/01 Logdate: 1938/09/12 Elev: 920 Elevbase: S Gpmcfs: Not Reported Depthbed: 14 Sampsav: 1 Swlb: Not Reported Water at: *260,352 CU FT GAS Totdepth: 405 Formation1: CHEROKEE GROUP Intcrdtp: 0 Intcrdbt: 0 Drawdown: Not Reported Confind: 0 Probind1: Not Reported Probind3: Not Reported Alagency1: Not Reported Addition 1: Not Reported Alum2: Not Reported Add data 3: Not Reported Remarks: #1 PITCHER - 0-370' Driller's Log Attached C total: 0 C remarks: Not Reported	Well type: Gas Well County: JACKSON Stname: MISSOURI Qtr3: C Qtr1: SE Tnsp: 49 Rng: 32 Ohio code: 39094A4 Scale: 100k Typelog1: D Typelog3: S Owner: Bradford & Francis Driller: Bradford, Jay & R. Permit: Not Reported Logger: Hundhausen Prodyld: * Swla: Not Reported Formation : KANSAS CITY GROUP Aquclass: Not Reported Reldate: Not Reported Probind2: Not Reported Additional: API OIL AND GAS FILE Add databa: 095-00177 Add data 1: Not Reported Add data 2: Not Reported Rmkind: N C plugind: N
--	---

Construction Information:

Id: 004836 Agencyname: GEOLOGICAL SURVEY (DGLS) Plugind: N Casemat1: Not Reported Cas1dpth: 0 Cas1diam: 0 Cas2dpth: 0 Cas2diam: 0 Cas3dpth: 0 Cas3diam: 0	Well type: Gas Well Datecomp: 193806 Dateplug: Not Reported Casemat2: Not Reported
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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Cas4dpth:	0		
Cas4diam:	0		
Inout1:	0	Typgtr1:	G
Typgtr2:	Not Reported	Typgtr3:	Not Reported
Mthgrout:	Not Reported	Rigtype:	Not Reported
Weltreat:	Not Reported	Rmkind:	Not Reported
Dateabnd:	Not Reported		
Plgdpt1b:	0		
Plgdpt1t:	0		
Multcase:	Not Reported		
Szcashol:	0		
Szbelcas:	0		
Sizscrn:	0		
Slotsize:	0		
Lenscrn:	0		
Typescrn:	Not Reported	Typedev:	Not Reported
Typepump:	Not Reported		
Pumpcap:	0		
Pumptdh:	0		
Pumpset:	0		
Typecomp:	Not Reported		
Perfintt:	0		
Perfintb:	0		
Oilprod:	9999	Gasprod:	99990026
Tubeptes:	Not Reported	Remarks:	Not Reported
Other data:	Not Reported	Formation :	Not Reported
Formation1:	Not Reported		

Strata Information:

Id:	004836	Stratordr:	100
Fmtp:	0		
Fmbot:	14		
Formation :	RESIDUUM & TOP SOIL		
Primlith:	CLAY		
Seclith:	Not Reported	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	004836	Stratordr:	4800
Fmtp:	14		
Fmbot:	405		
Formation :	PENNSYLVANIAN SYSTEM		
Primlith:	Not Reported		
Seclith:	Not Reported	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Minrocc: 0
Rmk20: Not Reported

Strata Information:

Id:	004836	Stratordr:	15000
Fmtop:	14		
Fmbot:	97		
Formation :	KANSAS CITY GROUP		
Primlith:	LIMESTONE		
Seclith:	Not Reported	Minlith:	SHALE
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	004836	Stratordr:	18800
Fmtop:	97		
Fmbot:	208		
Formation :	PLEASANTON GROUP		
Primlith:	SAND		
Seclith:	Not Reported	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	004836	Stratordr:	19600
Fmtop:	208		
Fmbot:	349		
Formation :	MARMATON GROUP		
Primlith:	SHALE		
Seclith:	LIMESTONE	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	004836	Stratordr:	22300
Fmtop:	297		
Fmbot:	299		
Formation :	LEXINGTON COAL BED		
Primlith:	COAL		
Seclith:	Not Reported	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Minrocc: 0
 Rmk20: Not Reported

Strata Information:

Id:	004836	Stratordr:	23400
Fmtop:	349		
Fmbot:	405		
Formation :	CHEROKEE GROUP		
Primlith:	SAND	Minlith:	Not Reported
Seclith:	SHALE		
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	004836	Stratordr:	24100
Fmtop:	362		
Fmbot:	405		
Formation :	"SQUIRREL" SANDSTONE MEMBER		
Primlith:	SAND	Minlith:	Not Reported
Seclith:	Not Reported		
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	004836	Stratordr:	99900
Fmtop:	405		
Fmbot:	405		
Formation :	TOTAL DEPTH		
Primlith:	Not Reported	Minlith:	Not Reported
Seclith:	Not Reported		
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

1

ESE

0 - 1/8 Mile

OIL_GAS

MOOG4000008708

County:	JACKSON	Countycode:	095
Township:	49		
Range:	32		
Rangedir:	W		
Section:	30		
Surveyloc1:	NE NW	Surveyloc2:	Not Reported
Ogcnumber:	00189	Quadname:	INDEPENDENCE
Coname:	KANSAS CITY HOUSE OF CORRECTIONS	Leasename:	FEE
Wellno:	Not Reported		
Well type:	2		
Well stat:	FU	Status :	UNKNOWN
Bonded y n:	Not Reported	Dateapprov:	Not Reported
Can dt:	Not Reported		
Spud date:	/ /	Compl dt:	/ /
Plug dt:	Not Reported		
Elevation:	766		
Proposedtd:	0		
Actualtd:	510		
Pbtd:	0		
Orig oper:	Not Reported	Latitude :	39 2 38
Longitude :	-94 29 30		
Latdec:	39.04404		
Longdec:	-94.49175		
Log type:	Not Reported		
Log depth:	0		
Perf int:	Not Reported	Ip:	Not Reported
Gravity:	Not Reported	Prod form:	CHEROKEE
Mitcomment:	Not Reported		
Comment :	ABANDONED GAS WELL - BEFORE 1917		
Spl log:	Not Reported	Site id:	MOOG4000008708

2

ESE

1/4 - 1/2 Mile

OIL_GAS

MOOG4000008703

County:	JACKSON	Countycode:	095
Township:	49		
Range:	32		
Rangedir:	W		
Section:	30		
Surveyloc1:	SW NW NE	Surveyloc2:	Not Reported
Ogcnumber:	01534	Quadname:	INDEPENDENCE
Coname:	GENTRY	Leasename:	FEE
Wellno:	1		
Well type:	8		
Well stat:	FU	Status :	UNKNOWN
Bonded y n:	Not Reported	Dateapprov:	Not Reported
Can dt:	Not Reported		
Spud date:	/ /	Compl dt:	/ /
Plug dt:	Not Reported		
Elevation:	764		
Proposedtd:	0		
Actualtd:	540		
Pbtd:	0		
Orig oper:	Not Reported	Latitude :	39 2 35

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Longitude :	-94 29 19		
Latdec:	39.04314		
Longdec:	-94.48883		
Log type:	Not Reported		
Log depth:	0		
Perf int:	Not Reported	Ip:	Not Reported
Gravity:	Not Reported	Prod form:	Not Reported
Mitcomment:	Not Reported		
Comment :	ABANDONED GAS WELL		
Spl log:	DR	Site id:	MOOG4000008703

3

East

1/4 - 1/2 Mile

OIL_GAS

MOOG4000008718

County:	JACKSON	Countycode:	095
Township:	49		
Range:	32		
Rangedir:	W		
Section:	30		
Surveyloc1:	NE NW NE	Surveyloc2:	Not Reported
Ogcnumber:	01540	Quadname:	INDEPENDENCE
Coname:	WURZER, CHARLES	Leasename:	ROCK SPRINGS GARDEN
Wellno:	2		
Well type:	8		
Well stat:	FU	Status :	UNKNOWN
Bonded y n:	Not Reported	Dateapprov:	Not Reported
Can dt:	Not Reported		
Spud date:	/ /	Compl dt:	04/19/44
Plug dt:	Not Reported		
Elevation:	764		
Proposedtd:	0		
Actualtd:	200		
Pbtd:	0		
Orig oper:	Not Reported	Latitude :	39 2 41
Longitude :	-94 29 11		
Latdec:	39.04487		
Longdec:	-94.48652		
Log type:	Not Reported		
Log depth:	0		
Perf int:	Not Reported	Ip:	20 MCF
Gravity:	Not Reported	Prod form:	Not Reported
Mitcomment:	Not Reported		
Comment :	Not Reported		
Spl log:	DR	Site id:	MOOG4000008718

A4

SSE

1/4 - 1/2 Mile

OIL_GAS

MOOG4000008684

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

County:	JACKSON	Countycode:	095
Township:	49		
Range:	32		
Rangedir:	W		
Section:	30		
Surveyloc1:	Not Reported	Surveyloc2:	Not Reported
Ogcnumber:	00306	Quadname:	INDEPENDENCE
Coname:	JUDD	Leasename:	LANE, F. E.
Wellno:	2		
Well type:	8		
Well stat:	FU	Status :	INCOMPLETE
Bonded y n:	Not Reported	Dateapprov:	Not Reported
Can dt:	Not Reported		
Spud date:	07/18/30	Compl dt:	07/28/30
Plug dt:	Not Reported		
Elevation:	925		
Proposedtd:	0		
Actualtd:	560		
Pbtd:	0		
Orig oper:	Not Reported	Latitude :	39 2 19
Longitude :	-94 29 23		
Latdec:	39.03866		
Longdec:	-94.48986		
Log type:	Not Reported		
Log depth:	0		
Perf int:	Not Reported	Ip:	102 M
Gravity:	Not Reported	Prod form:	Not Reported
Mitcomment:	Not Reported		
Comment :	Not Reported		
Spl log:	Not Reported	Site id:	MOOG40000008684

**5
SE
1/2 - 1 Mile**

OIL_GAS MOOG40000008689

County:	JACKSON	Countycode:	095
Township:	49		
Range:	32		
Rangedir:	W		
Section:	30		
Surveyloc1:	SE SW NE	Surveyloc2:	Not Reported
Ogcnumber:	01760	Quadname:	INDEPENDENCE
Coname:	FOOTE, TED	Leasename:	FEE
Wellno:	1		
Well type:	8		
Well stat:	FU	Status :	UNKNOWN
Bonded y n:	Not Reported	Dateapprov:	Not Reported
Can dt:	Not Reported		
Spud date:	/ /	Compl dt:	11/08/45
Plug dt:	Not Reported		
Elevation:	880		
Proposedtd:	0		
Actualtd:	287		
Pbtd:	0		
Orig oper:	Not Reported	Latitude :	39 2 22

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Longitude :	-94 29 11		
Latdec:	39.03952		
Longdec:	-94.48657		
Log type:	Not Reported		
Log depth:	0		
Perf int:	Not Reported	Ip:	16 MCF
Gravity:	Not Reported	Prod form:	Not Reported
Mitcomment:	Not Reported		
Comment :	Not Reported		
Spl log:	MF	Site id:	MOOG40000008689

**A7
SSE**

1/2 - 1 Mile

OIL_GAS

MOOG40000008682

County:	JACKSON	Countycode:	095
Township:	49		
Range:	32		
Rangedir:	W		
Section:	30		
Surveyloc1:	NW NW SE	Surveyloc2:	Not Reported
Ogcnumber:	01538	Quadname:	INDEPENDENCE
Coname:	WILSON	Leasename:	FEE
Wellno:	1		
Well type:	11	Status :	UNKNOWN
Well stat:	NF	Dateapprov:	Not Reported
Bonded y n:	Not Reported		
Can dt:	Not Reported		
Spud date:	/ /	Compl dt:	/ /
Plug dt:	Not Reported		
Elevation:	893		
Proposedtd:	0		
Actualtd:	550		
Pbtd:	0		
Orig oper:	Not Reported	Latitude :	39 2 16
Longitude :	-94 29 20		
Latdec:	39.03778		
Longdec:	-94.48912		
Log type:	Not Reported		
Log depth:	0		
Perf int:	Not Reported	Ip:	260 MCF
Gravity:	Not Reported	Prod form:	Not Reported
Mitcomment:	Not Reported		
Comment :	DRY, SHOWS GAS		
Spl log:	DR	Site id:	MOOG40000008682

**A6
SSE**

1/2 - 1 Mile

OIL_GAS

MOOG40000008681

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

County:	JACKSON	Countycode:	095
Township:	49		
Range:	32		
Rangedir:	W		
Section:	30		
Surveyloc1:	NW NW SE	Surveyloc2:	Not Reported
Ogcnumber:	01539	Quadname:	INDEPENDENCE
Coname:	WILSON	Leasename:	FEE
Wellno:	2		
Well type:	8		
Well stat:	FU	Status :	UNKNOWN
Bonded y n:	Not Reported	Dateapprov:	Not Reported
Can dt:	Not Reported		
Spud date:	/ /	Compl dt:	10/15/38
Plug dt:	Not Reported		
Elevation:	898		
Proposedtd:	0		
Actualtd:	293		
Pbtd:	0		
Orig oper:	Not Reported	Latitude :	39 2 16
Longitude :	-94 29 20		
Latdec:	39.03778		
Longdec:	-94.48912		
Log type:	Not Reported		
Log depth:	0		
Perf int:	Not Reported	Ip:	25 MCF
Gravity:	Not Reported	Prod form:	Not Reported
Mitcomment:	Not Reported		
Comment :	Not Reported		
Spl log:	DR	Site id:	MOOG4000008681

B9
ESE
1/2 - 1 Mile

OIL_GAS

MOOG4000008687

County:	JACKSON	Countycode:	095
Township:	49		
Range:	32		
Rangedir:	W		
Section:	30		
Surveyloc1:	SE SE NE	Surveyloc2:	Not Reported
Ogcnumber:	01535	Quadname:	INDEPENDENCE
Coname:	GROGGER	Leasename:	FEE
Wellno:	1		
Well type:	11		
Well stat:	NF	Status :	UNKNOWN
Bonded y n:	Not Reported	Dateapprov:	Not Reported
Can dt:	Not Reported		
Spud date:	/ /	Compl dt:	/ /
Plug dt:	Not Reported		
Elevation:	832		
Proposedtd:	0		
Actualtd:	450		
Pbtd:	0		
Orig oper:	Not Reported	Latitude :	39 2 21

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Longitude :	-94 28 56		
Latdec:	39.03944		
Longdec:	-94.48237		
Log type:	Not Reported		
Log depth:	0		
Perf int:	Not Reported	Ip:	Not Reported
Gravity:	Not Reported	Prod form:	Not Reported
Mitcomment:	Not Reported		
Comment :	DRY, SHOWS OIL & GAS		
Spl log:	DR	Site id:	MOOG40000008687

**B8
ESE**

1/2 - 1 Mile

OIL_GAS

MOOG40000008688

County:	JACKSON	Countycode:	095
Township:	49		
Range:	32		
Rangedir:	W		
Section:	30		
Surveyloc1:	SE SE NE	Surveyloc2:	Not Reported
Ogcnumber:	01536	Quadname:	INDEPENDENCE
Coname:	GROGGER	Leasename:	FEE
Wellno:	2		
Well type:	11	Status :	UNKNOWN
Well stat:	NF	Dateapprov:	Not Reported
Bonded y n:	Not Reported		
Can dt:	Not Reported		
Spud date:	/ /	Compl dt:	/ /
Plug dt:	Not Reported		
Elevation:	784		
Proposedtd:	0		
Actualtd:	211		
Pbtd:	0		
Orig oper:	Not Reported	Latitude :	39 2 21
Longitude :	-94 28 56		
Latdec:	39.03944		
Longdec:	-94.48237		
Log type:	Not Reported		
Log depth:	0		
Perf int:	Not Reported	Ip:	Not Reported
Gravity:	Not Reported	Prod form:	Not Reported
Mitcomment:	Not Reported		
Comment :	DRY		
Spl log:	DR	Site id:	MOOG40000008688

10

NNW

1/2 - 1 Mile

OIL_GAS

MOOG40000008756

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

County:	JACKSON	Countycode:	095
Township:	49		
Range:	33		
Rangedir:	W		
Section:	24		
Surveyloc1:	SE SE NE	Surveyloc2:	Not Reported
Ogcnumber:	01621	Quadname:	INDEPENDENCE
Coname:	REICH, A.	Leasename:	FEE
Wellno:	1		
Well type:	8		
Well stat:	FU	Status :	UNKNOWN
Bonded y n:	Not Reported	Dateapprov:	Not Reported
Can dt:	Not Reported		
Spud date:	/ /	Compl dt:	/ /
Plug dt:	Not Reported		
Elevation:	782		
Proposedtd:	0		
Actualtd:	350		
Pbtd:	0		
Orig oper:	Not Reported	Latitude :	39 3 16
Longitude :	-94 30 0		
Latdec:	39.05471		
Longdec:	-94.50001		
Log type:	Not Reported		
Log depth:	0		
Perf int:	Not Reported	Ip:	Not Reported
Gravity:	Not Reported	Prod form:	Not Reported
Mitcomment:	Not Reported		
Comment :	PRODUCED GAS		
Spl log:	DR	Site id:	MOOG4000008756

11
South
1/2 - 1 Mile

OIL_GAS MOOG4000008648

County:	JACKSON	Countycode:	095
Township:	49		
Range:	32		
Rangedir:	W		
Section:	30		
Surveyloc1:	SE SE SW	Surveyloc2:	Not Reported
Ogcnumber:	01537	Quadname:	INDEPENDENCE
Coname:	MISSOURI-KANSAS PIPELINE	Leasename:	WINTERS
Wellno:	1		
Well type:	11		
Well stat:	NF	Status :	UNKNOWN
Bonded y n:	Not Reported	Dateapprov:	Not Reported
Can dt:	Not Reported		
Spud date:	/ /	Compl dt:	08/04/30
Plug dt:	Not Reported		
Elevation:	936		
Proposedtd:	0		
Actualtd:	440		
Pbtd:	0		
Orig oper:	Not Reported	Latitude :	39 1 56

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Longitude :	-94 29 28		
Latdec:	39.03228		
Longdec:	-94.49126		
Log type:	Not Reported		
Log depth:	0		
Perf int:	Not Reported	Ip:	Not Reported
Gravity:	Not Reported	Prod form:	Not Reported
Mitcomment:	Not Reported		
Comment :	DRY		
Spl log:	DR	Site id:	MOOG40000008648

**12
SSE**

OIL_GAS

MOOG40000008647

1/2 - 1 Mile

County:	JACKSON	Countycode:	095
Township:	49		
Range:	32		
Rangedir:	W		
Section:	30		
Surveyloc1:	SW SW SE	Surveyloc2:	Not Reported
Ogcnumber:	01533	Quadname:	INDEPENDENCE
Coname:	BRADFORD	Leasename:	SMITH, FLOYD R.
Wellno:	1		
Well type:	2	Status :	UNKNOWN
Well stat:	FU	Dateapprov:	Not Reported
Bonded y n:	Not Reported		
Can dt:	Not Reported		
Spud date:	/ /	Compl dt:	10/28/38
Plug dt:	Not Reported		
Elevation:	948		
Proposedtd:	0		
Actualtd:	430		
Pbtd:	0		
Orig oper:	Not Reported	Latitude :	39 1 55
Longitude :	-94 29 20		
Latdec:	39.03218		
Longdec:	-94.48916		
Log type:	Not Reported		
Log depth:	0		
Perf int:	Not Reported	Ip:	120 MCF
Gravity:	Not Reported	Prod form:	Not Reported
Mitcomment:	Not Reported		
Comment :	Not Reported		
Spl log:	DR	Site id:	MOOG40000008647

**13
NW**

OIL_GAS

MOOG40000008740

1/2 - 1 Mile

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

County:	JACKSON	Countycode:	095
Township:	49		
Range:	33		
Rangedir:	W		
Section:	24		
Surveyloc1:	NW NW SE	Surveyloc2:	Not Reported
Ogcnumber:	01764	Quadname:	KANSAS CITY
Coname:	COOPER	Leasename:	FEE
Wellno:	1		
Well type:	11		
Well stat:	NF	Status :	UNKNOWN
Bonded y n:	Not Reported	Dateapprov:	Not Reported
Can dt:	Not Reported		
Spud date:	/ /	Compl dt:	05/18/44
Plug dt:	Not Reported		
Elevation:	764		
Proposedtd:	0		
Actualtd:	652		
Pbtd:	0		
Orig oper:	Not Reported	Latitude :	39 3 10
Longitude :	-94 30 23		
Latdec:	39.05286		
Longdec:	-94.5065		
Log type:	Not Reported		
Log depth:	0		
Perf int:	Not Reported	Ip:	Not Reported
Gravity:	Not Reported	Prod form:	Not Reported
Mitcomment:	Not Reported		
Comment :	D & A, NE COR 40TH & EWING		
Spl log:	8541MF	Site id:	MOOG40000008740

**C14
SE
1/2 - 1 Mile**

OIL_GAS MOOG40000008667

County:	JACKSON	Countycode:	095
Township:	49		
Range:	32		
Rangedir:	W		
Section:	30		
Surveyloc1:	975 FSL	Surveyloc2:	825 FEL
Ogcnumber:	01531	Quadname:	INDEPENDENCE
Coname:	BRADFORD	Leasename:	LANE, LAURA
Wellno:	1		
Well type:	2		
Well stat:	FU	Status :	UNKNOWN
Bonded y n:	Not Reported	Dateapprov:	Not Reported
Can dt:	Not Reported		
Spud date:	/ /	Compl dt:	07/23/38
Plug dt:	Not Reported		
Elevation:	903		
Proposedtd:	0		
Actualtd:	390		
Pbtd:	0		
Orig oper:	Not Reported	Latitude :	39 2 1

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Longitude :	-94 29 1		
Latdec:	39.03388		
Longdec:	-94.48374		
Log type:	Not Reported		
Log depth:	0		
Perf int:	Not Reported	Ip:	100 MCF
Gravity:	Not Reported	Prod form:	Not Reported
Mitcomment:	Not Reported		
Comment :	Not Reported		
Spl log:	DR	Site id:	MOOG40000008667

**15
SSE**

OIL_GAS

MOOG40000008646

1/2 - 1 Mile

County:	JACKSON	Countycode:	095
Township:	49		
Range:	32		
Rangedir:	W		
Section:	30		
Surveyloc1:	SE SW SE	Surveyloc2:	Not Reported
Ogcnumber:	01532	Quadname:	INDEPENDENCE
Coname:	BRADFORD	Leasename:	LANE, LEATHA
Wellno:	4		
Well type:	2		
Well stat:	FU	Status :	UNKNOWN
Bonded y n:	Not Reported	Dateapprov:	Not Reported
Can dt:	Not Reported		
Spud date:	/ /	Compl dt:	10/26/38
Plug dt:	Not Reported		
Elevation:	940		
Proposedtd:	0		
Actualtd:	415		
Pbtd:	0		
Orig oper:	Not Reported	Latitude :	39 1 55
Longitude :	-94 29 13		
Latdec:	39.03215		
Longdec:	-94.48698		
Log type:	Not Reported		
Log depth:	0		
Perf int:	Not Reported	Ip:	300 MCF
Gravity:	Not Reported	Prod form:	Not Reported
Mitcomment:	Not Reported		
Comment :	SHOWS OIL & GAS		
Spl log:	DR	Site id:	MOOG40000008646

**16
NNW**

OIL_GAS

MOOG40000008763

1/2 - 1 Mile

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

County:	JACKSON	Countycode:	095
Township:	49		
Range:	33		
Rangedir:	W		
Section:	24		
Surveyloc1:	NW SE NE	Surveyloc2:	Not Reported
Ogcnumber:	01622	Quadname:	KANSAS CITY
Coname:	REICH, A.	Leasename:	FEE
Wellno:	2		
Well type:	8		
Well stat:	FU	Status :	UNKNOWN
Bonded y n:	Not Reported	Dateapprov:	Not Reported
Can dt:	Not Reported		
Spud date:	/ /	Compl dt:	/ /
Plug dt:	Not Reported		
Elevation:	774		
Proposedtd:	0		
Actualtd:	288		
Pbtd:	0		
Orig oper:	Not Reported	Latitude :	39 3 23
Longitude :	-94 30 8		
Latdec:	39.05644		
Longdec:	-94.5023		
Log type:	Not Reported		
Log depth:	0		
Perf int:	Not Reported	Ip:	Not Reported
Gravity:	Not Reported	Prod form:	Not Reported
Mitcomment:	Not Reported		
Comment :	Not Reported		
Spl log:	DR	Site id:	MOOG4000008763

**C17
SE
1/2 - 1 Mile**

OIL_GAS MOOG4000008650

County:	JACKSON	Countycode:	095
Township:	49		
Range:	32		
Rangedir:	W		
Section:	30		
Surveyloc1:	SE SE	Surveyloc2:	Not Reported
Ogcnumber:	00177	Quadname:	INDEPENDENCE
Coname:	BRADFORD & HENDRICKS	Leasename:	PITCHER
Wellno:	1		
Well type:	2		
Well stat:	FU	Status :	UNKNOWN
Bonded y n:	Not Reported	Dateapprov:	Not Reported
Can dt:	Not Reported		
Spud date:	/ /	Compl dt:	06/01/38
Plug dt:	Not Reported		
Elevation:	920		
Proposedtd:	0		
Actualtd:	405		
Pbtd:	0		
Orig oper:	Not Reported	Latitude :	39 1 58

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Longitude :	-94 29 0		
Latdec:	39.03295		
Longdec:	-94.48337		
Log type:	Not Reported		
Log depth:	0		
Perf int:	Not Reported	Ip:	260,352 CUFT
Gravity:	Not Reported	Prod form:	CHEROKEE
Mitcomment:	Not Reported		
Comment :	Not Reported		
Spl log:	4836	Site id:	MOOG4000008650

**18
NW**

1/2 - 1 Mile

OIL_GAS

MOOG4000008748

County:	JACKSON	Countycode:	095
Township:	49		
Range:	33		
Rangedir:	W		
Section:	24		
Surveyloc1:	Not Reported	Surveyloc2:	Not Reported
Ogcnumber:	01619	Quadname:	KANSAS CITY
Coname:	NATIONAL TIE CO.	Leasename:	FEE
Wellno:	1		
Well type:	2		
Well stat:	FU	Status :	UNKNOWN
Bonded y n:	Not Reported	Dateapprov:	Not Reported
Can dt:	Not Reported		
Spud date:	/ /	Compl dt:	/ /
Plug dt:	Not Reported		
Elevation:	775		
Proposedtd:	0		
Actualtd:	345		
Pbtd:	0		
Orig oper:	Not Reported	Latitude :	39 3 14
Longitude :	-94 30 27		
Latdec:	39.05404		
Longdec:	-94.50766		
Log type:	Not Reported		
Log depth:	0		
Perf int:	Not Reported	Ip:	Not Reported
Gravity:	Not Reported	Prod form:	Not Reported
Mitcomment:	Not Reported		
Comment :	PRODUCED GAS		
Spl log:	DR	Site id:	MOOG4000008748

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: MO Radon

Radon Test Results

Zipcode	Test Date	Result
64129	02/05/08	????
64129	03/28/08	1.3
64129	03/10/08	5.6
64129	03/13/09	6.5

Federal EPA Radon Zone for JACKSON County: 1

- Note: Zone 1 indoor average level > 4 pCi/L.
 : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
 : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 64129

Number of sites tested: 6

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	Not Reported	Not Reported	Not Reported	Not Reported
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	4.467 pCi/L	67%	33%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

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.

HYDROLOGIC INFORMATION

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 and 2005 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

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

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

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

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Missouri Public Drinking Water Wells

Source: Department of Natural Resources

Telephone: 573-526-5448

OTHER STATE DATABASE INFORMATION

Oil and Gas Well Database

Source: Department of Natural Resources

Telephone: 573-368-2143

RADON

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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APPENDIX H
HISTORICAL USE DOCUMENTATION

APPENDIX H-1
HISTORICAL SANBORN® MAPS



Animal Shelter

2200 Raytown Road
Kansas City, MO 64129

Inquiry Number: 3439224.3

October 23, 2012

Certified Sanborn® Map Report

Certified Sanborn® Map Report

10/23/12

Site Name:

Animal Shelter
2200 Raytown Road
Kansas City, MO 64129

Client Name:

Tetra Tech EMI
415 Oak Street
Kansas City, MO 64106



EDR Inquiry # 3439224.3

Contact: Joanna Sciegienka

The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by Tetra Tech EMI were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

Certified Sanborn Results:

Site Name: Animal Shelter
Address: 2200 Raytown Road
City, State, Zip: Kansas City, MO 64129
Cross Street:
P.O. # X9004.06.0002.015.022
Project: Animal Shelter Phase I ESA
Certification # 7B7F-4216-9F3A



Sanborn® Library search results
Certification # 7B7F-4216-9F3A

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

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

The Sanborn Library LLC Since 1866™

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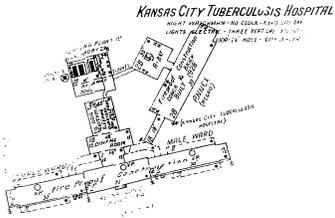
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(ENTIRE SHEET)

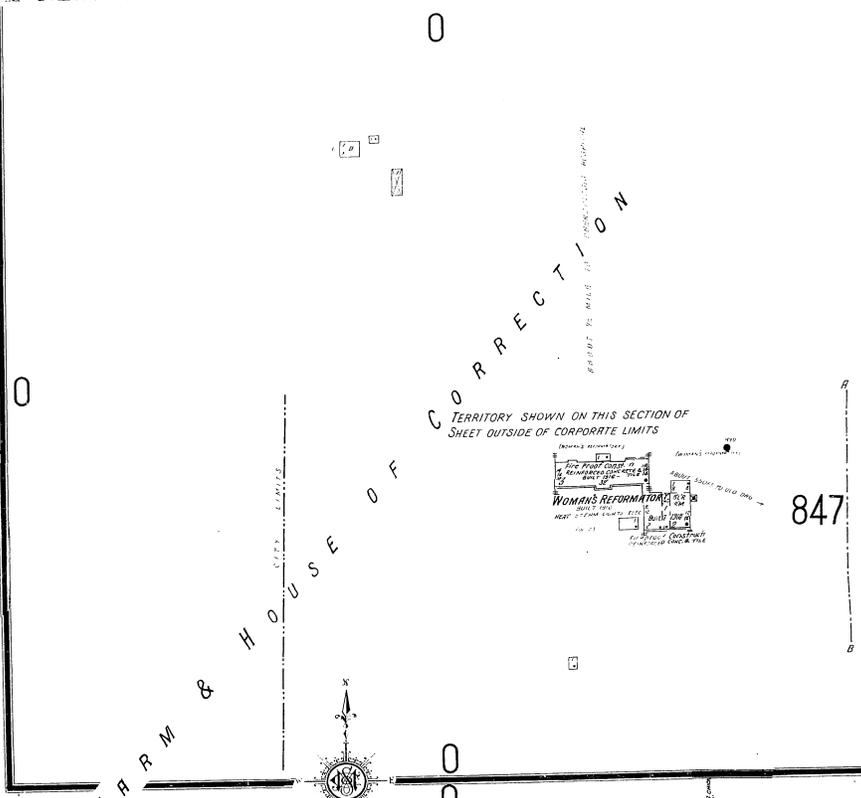
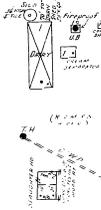
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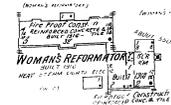
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Located on Municipal Farm 7 1/2 Miles S.E. of Leeds

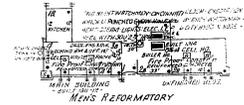
RIGHT TO SALE TO WOMAN'S REFORMATORY



TERRITORY SHOWN ON THIS SECTION OF SHEET OUTSIDE OF CORPORATE LIMITS



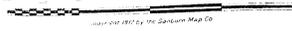
TERRITORY SHOWN ON THIS SECTION OF SHEET OUTSIDE OF CORPORATE LIMITS



KANSAS CITY MUNICIPAL FARM & HOUSE OF CORRECTION

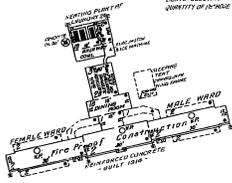
SNI-A-BAR (COUNTY) RD.

Scale 100 Ft. to One Inch.



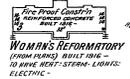
KANSAS CITY TUBERCULOSIS HOSPITAL

WOMEN'S REFORMATORY
MEN'S REFORMATORY

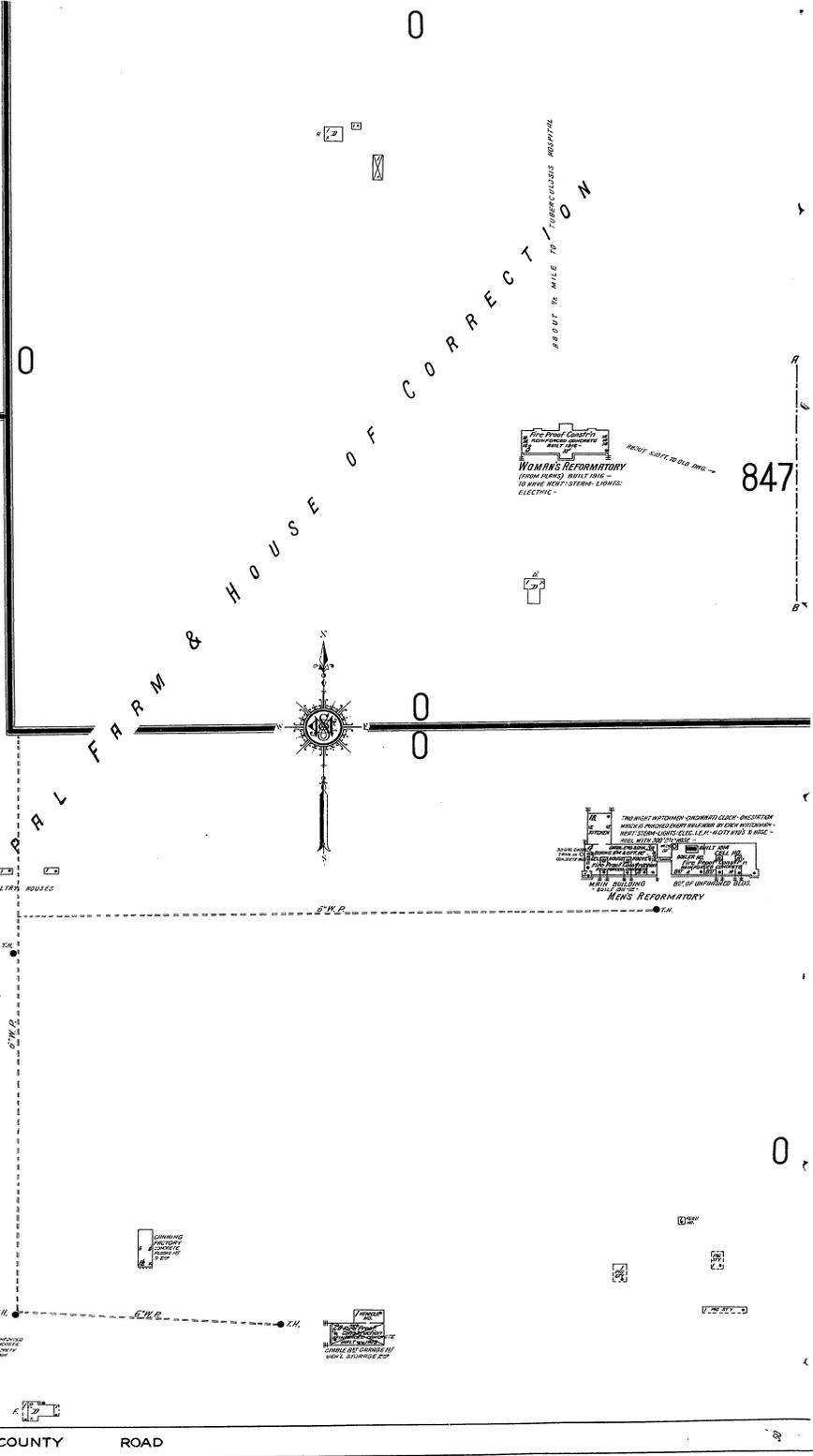


Located on Municipal Farm 1 1/2 Miles S.E. of Leeds.

ABOUT 1/2 MILE TO WOMEN'S REFORMATORY



ABOUT 1/2 MILE TO TUBERCULOSIS HOSPITAL



COUNTY ROAD



APPENDIX H-2
HISTORICAL AERIAL PHOTOGRAPHS



Animal Shelter

2200 Raytown Road
Kansas City, MO 64129

Inquiry Number: 3439224.5

October 25, 2012

The EDR Aerial Photo Decade Package

EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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Date EDR Searched Historical Sources:

Aerial Photography October 25, 2012

Target Property:

2200 Raytown Road

Kansas City, MO 64129

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1955	Aerial Photograph. Scale: 1"=750'	Panel #: 39094-A4, Independence, MO;/Flight Date: May 15, 1955	EDR
1957	Aerial Photograph. Scale: 1"=500'	Panel #: 39094-A4, Independence, MO;/Flight Date: June 10, 1957	EDR
1963	Aerial Photograph. Scale: 1"=500'	Panel #: 39094-A4, Independence, MO;/Flight Date: March 17, 1963	EDR
1969	Aerial Photograph. Scale: 1"=500'	Panel #: 39094-A4, Independence, MO;/Flight Date: September 30, 1969	EDR
1970	Aerial Photograph. Scale: 1"=500'	Panel #: 39094-A4, Independence, MO;/Flight Date: October 02, 1970	EDR
1979	Aerial Photograph. Scale: 1"=1000'	Panel #: 39094-A4, Independence, MO;/Flight Date: August 07, 1979	EDR
1986	Aerial Photograph. Scale: 1"=750'	Panel #: 39094-A4, Independence, MO;/Flight Date: March 03, 1986	EDR
1990	Aerial Photograph. Scale: 1"=750'	Panel #: 39094-A4, Independence, MO;/Flight Date: March 19, 1990	EDR
1996	Aerial Photograph. Scale: 1"=750'	Panel #: 39094-A4, Independence, MO;/Flight Date: February 01, 1996	EDR
1997	Aerial Photograph. Scale: 1"=500'	Panel #: 39094-A4, Independence, MO;/Composite DOQQ - acquisition dates: March 22, 1997, March 06, 1997	EDR
2005	Aerial Photograph. Scale: 1"=500'	Panel #: 39094-A4, Independence, MO;/Flight Year: 2005	EDR
2006	Aerial Photograph. Scale: 1"=500'	Panel #: 39094-A4, Independence, MO;/Flight Year: 2006	EDR
2007	Aerial Photograph. Scale: 1"=500'	Panel #: 39094-A4, Independence, MO;/Flight Year: 2007	EDR



INQUIRY #: 3439224.5

YEAR: 1955

 = 750'





INQUIRY #: 3439224.5

YEAR: 1957

| = 500'





INQUIRY #: 3439224.5

YEAR: 1963

| = 500'



9-30-69



INQUIRY #: 3439224.5

YEAR: 1969

| = 500'





INQUIRY #: 3439224.5

YEAR: 1970

| = 500'





INQUIRY #: 3439224.5

YEAR: 1979

|—————| = 1000'





INQUIRY #: 3439224.5

YEAR: 1986

| = 750'





INQUIRY #: 3439224.5

YEAR: 1990

| = 750'





INQUIRY #: 3439224.5

YEAR: 1996

| = 750'





INQUIRY #: 3439224.5

YEAR: 1997

| = 500'





INQUIRY #: 3439224.5

YEAR: 2005

| = 500'





INQUIRY #: 3439224.5

YEAR: 2006

| = 500'





INQUIRY #: 3439224.5

YEAR: 2007

| = 500'



APPENDIX H-3
HISTORICAL TOPOGRAPHIC MAPS



Animal Shelter

2200 Raytown Road
Kansas City, MO 64129

Inquiry Number: 3439224.4

October 23, 2012

EDR Historical Topographic Map Report

EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

Thank you for your business.
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with any questions or comments.

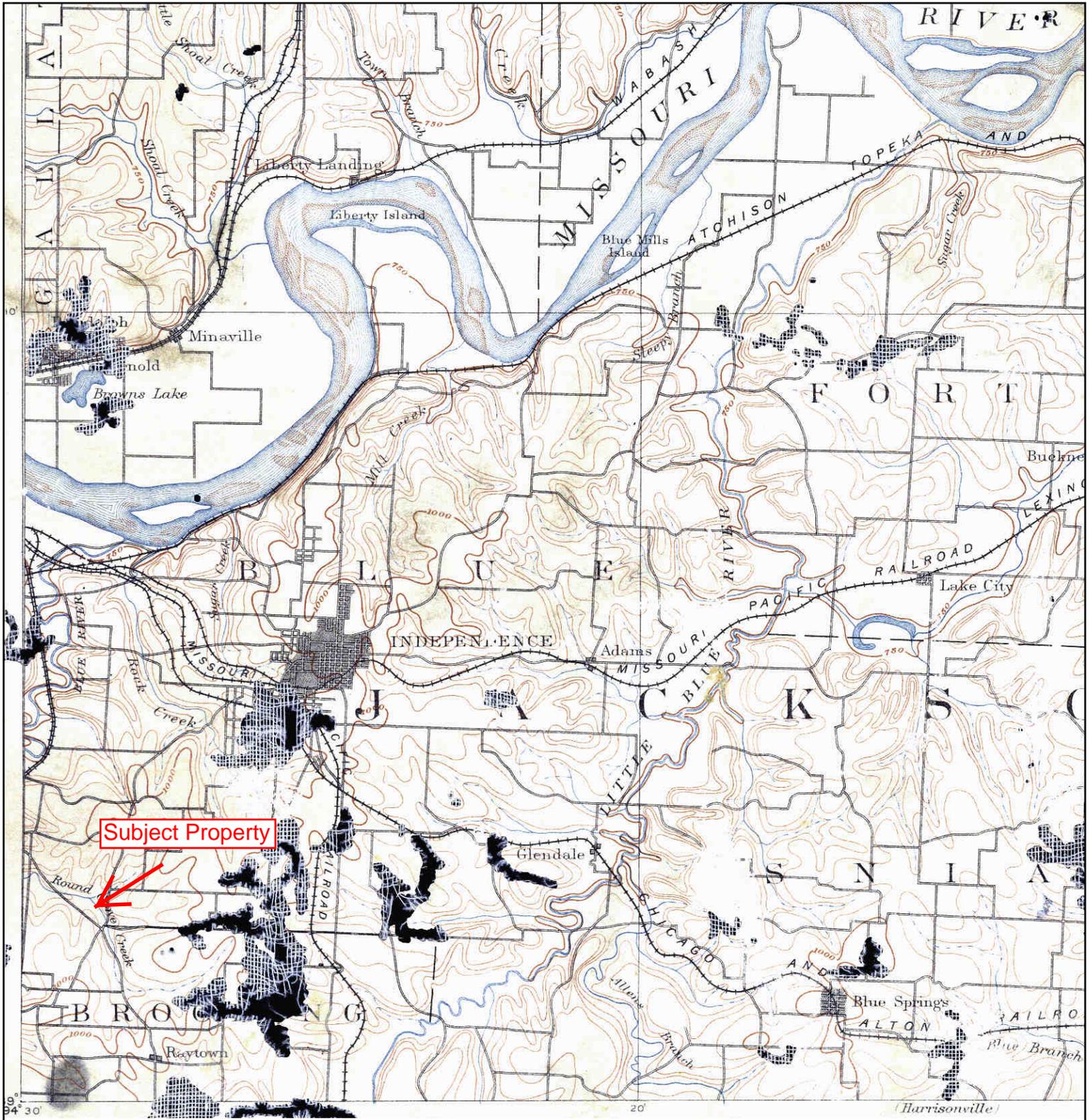
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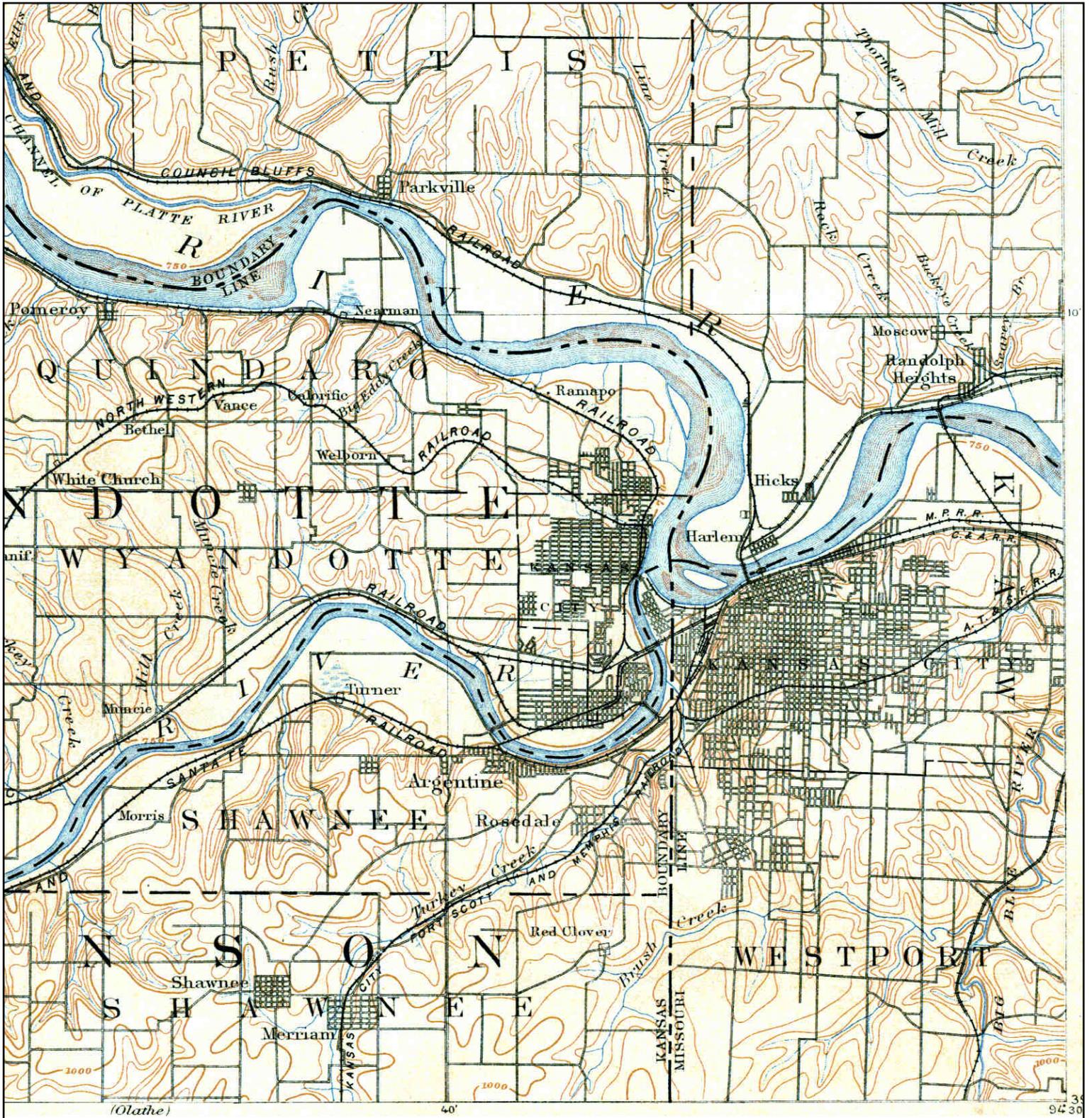
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Historical Topographic Map



<p>N ↑</p>	<p>TARGET QUAD NAME: INDEPENDENCE MAP YEAR: 1894</p>	<p>SITE NAME: Animal Shelter ADDRESS: 2200 Raytown Road Kansas City, MO 64129 LAT/LONG: 39.0445 / -94.4938</p>	<p>CLIENT: Tetra Tech EMI CONTACT: Joanna Sciegenka INQUIRY#: 3439224.4 RESEARCH DATE: 10/23/2012</p>
	<p>SERIES: 30</p>		
	<p>SCALE: 1:125000</p>		

Historical Topographic Map



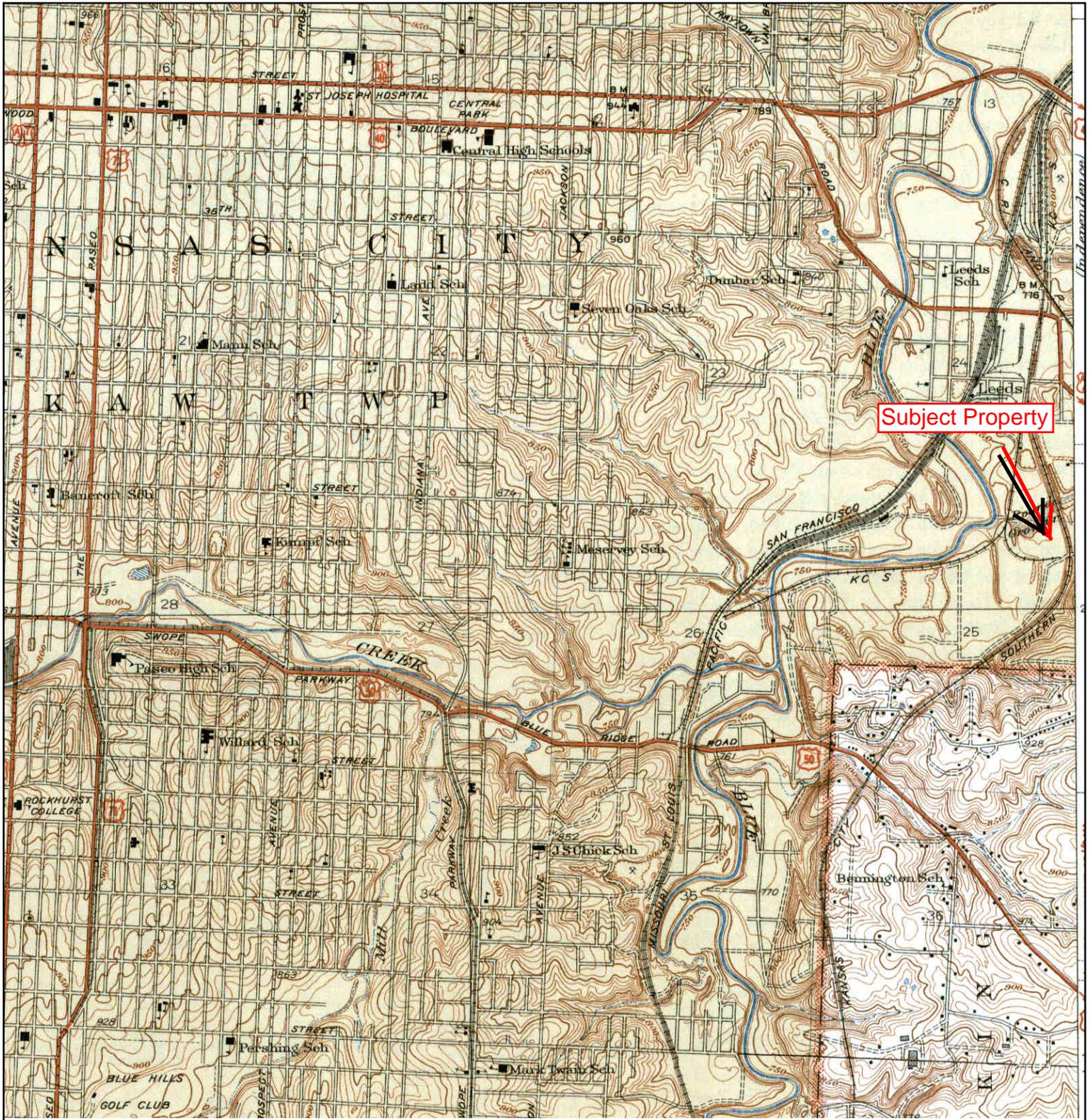
	ADJOINING QUAD	SITE NAME: Animal Shelter	CLIENT: Tetra Tech EMI
	NAME: KANSAS CITY	ADDRESS: 2200 Raytown Road	CONTACT: Joanna Sciegienka
	MAP YEAR: 1894	KANSAS CITY, MO 64129	INQUIRY#: 3439224.4
	SERIES: 30	LAT/LONG: 39.0445 / -94.4938	RESEARCH DATE: 10/23/2012
	SCALE: 1:125000		

Historical Topographic Map



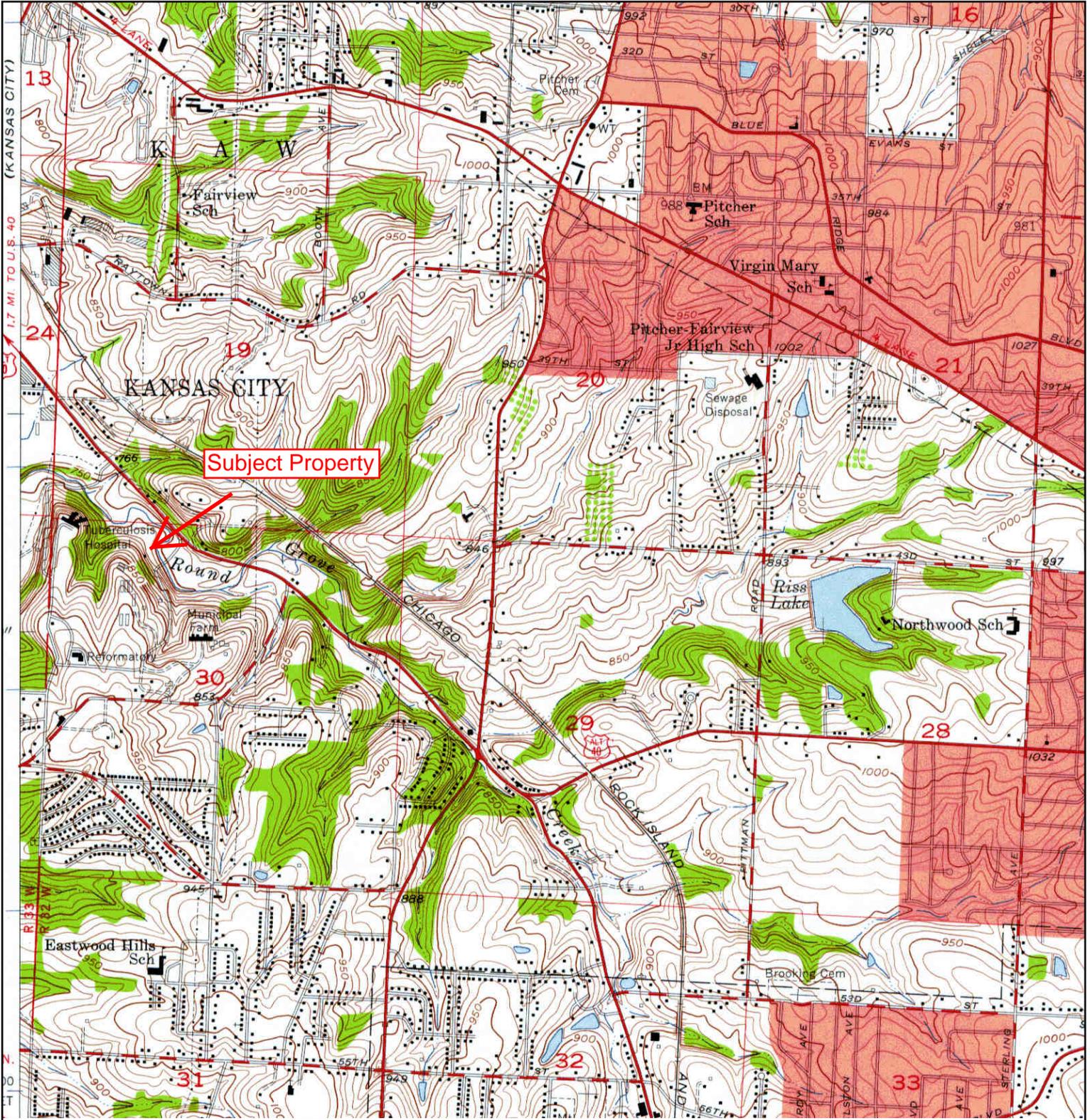
	TARGET QUAD NAME: INDEPENDENCE MAP YEAR: 1940	SITE NAME: Animal Shelter ADDRESS: 2200 Raytown Road Kansas City, MO 64129 LAT/LONG: 39.0445 / -94.4938	CLIENT: Tetra Tech EMI CONTACT: Joanna Sciegenka INQUIRY#: 3439224.4 RESEARCH DATE: 10/23/2012
	SERIES: 7.5 SCALE: 1:31680		

Historical Topographic Map



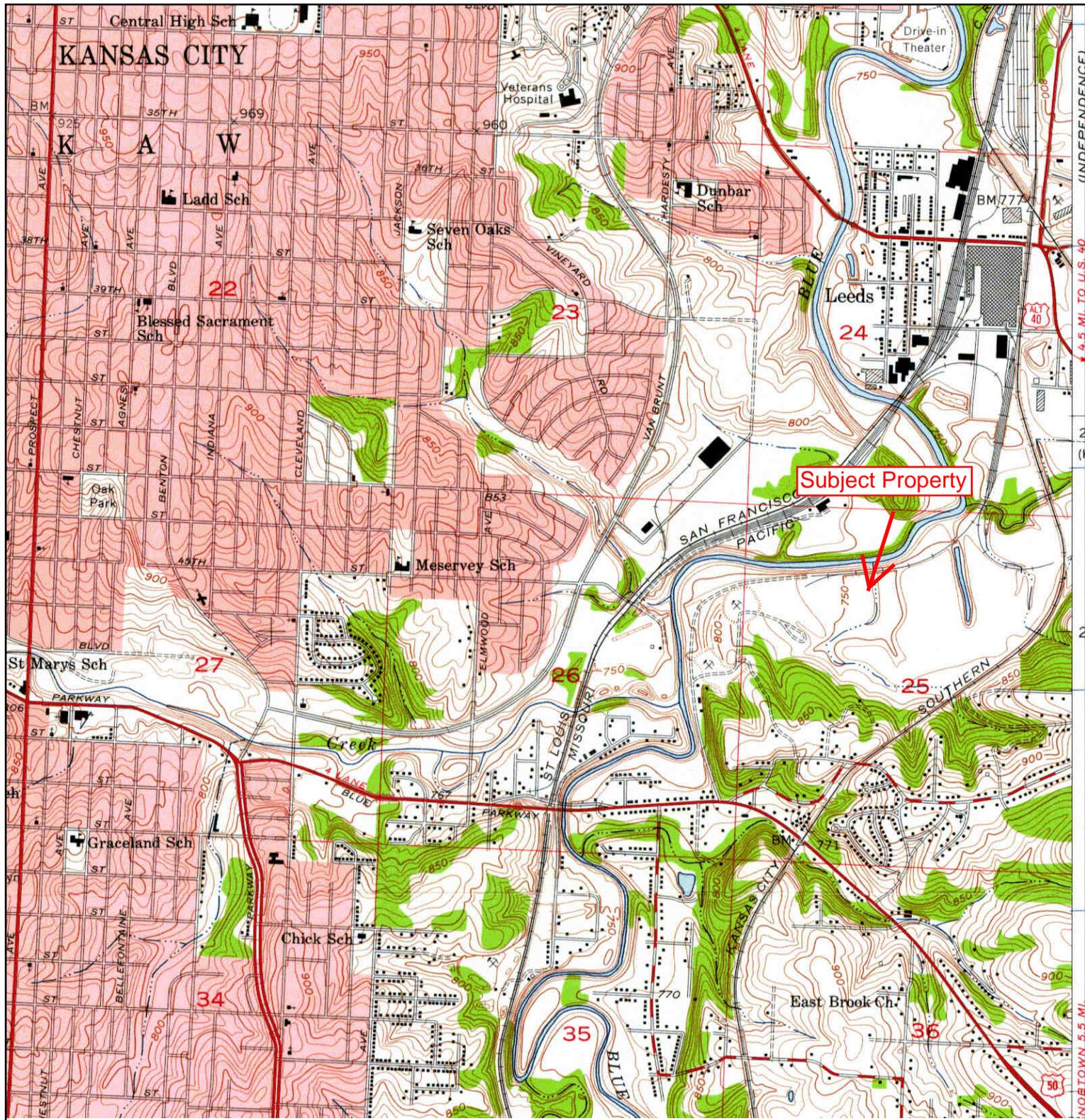
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	NAME: KANSAS CITY	ADDRESS: 2200 Raytown Road	CONTACT: Joanna Sciegienka
	MAP YEAR: 1940	KANSAS CITY, MO 64129	INQUIRY#: 3439224.4
	SERIES: 7.5	LAT/LONG: 39.0445 / -94.4938	RESEARCH DATE: 10/23/2012
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Historical Topographic Map



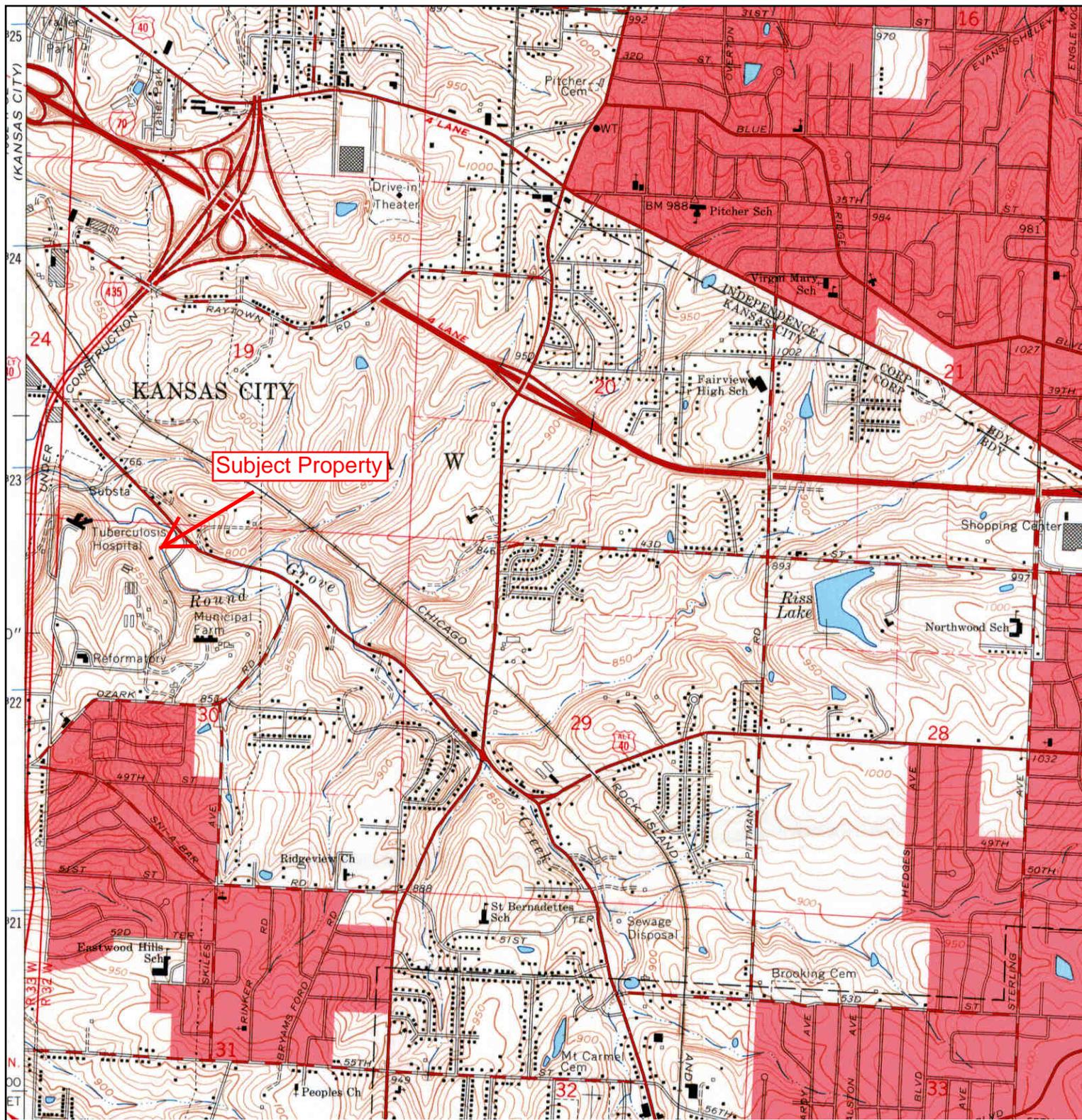
	TARGET QUAD	SITE NAME: Animal Shelter	CLIENT: Tetra Tech EMI
	NAME: INDEPENDENCE	ADDRESS: 2200 Raytown Road	CONTACT: Joanna Sciegenka
	MAP YEAR: 1957	Kansas City, MO 64129	INQUIRY#: 3439224.4
	SERIES: 7.5	LAT/LONG: 39.0445 / -94.4938	RESEARCH DATE: 10/23/2012
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Historical Topographic Map



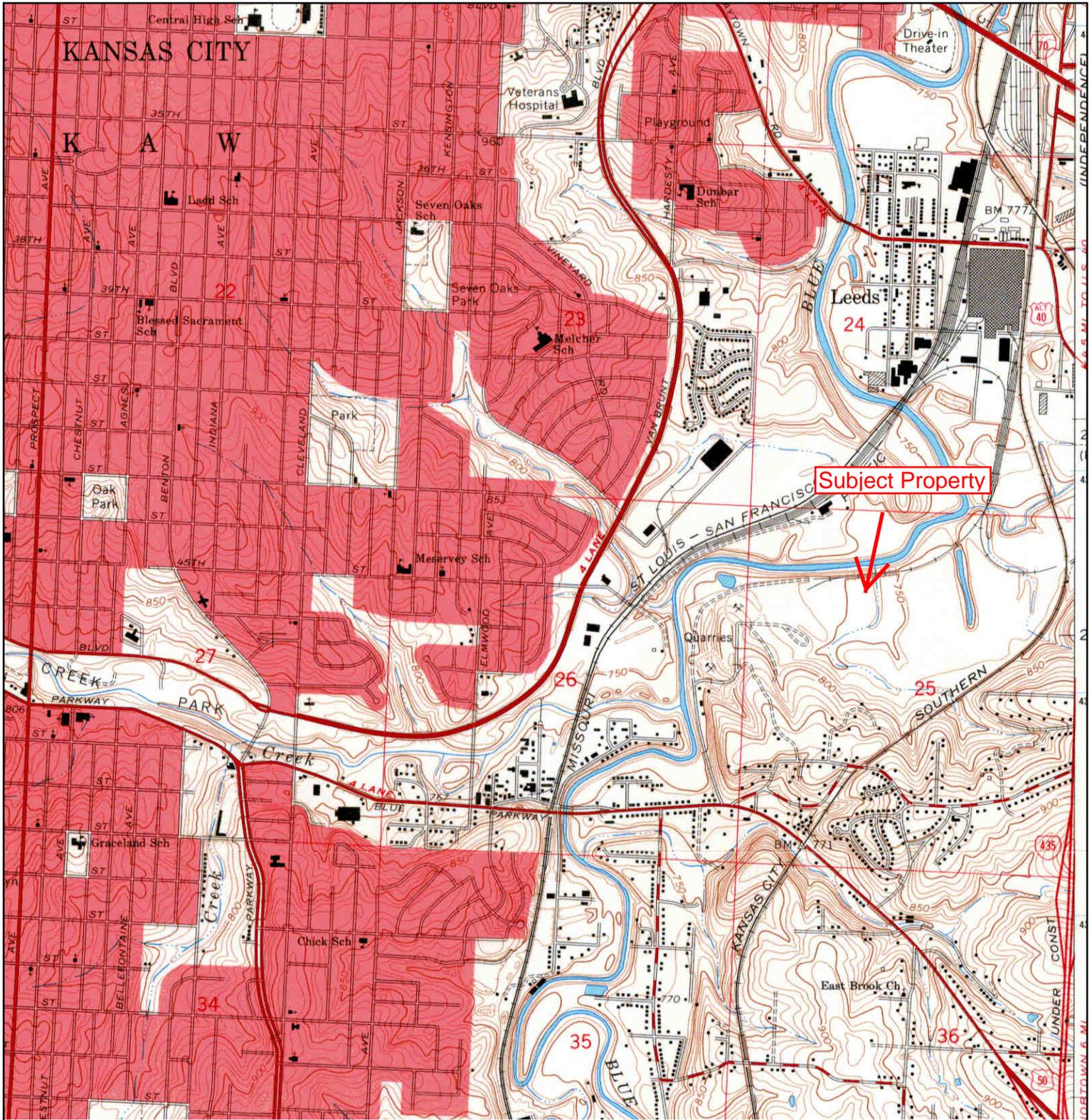
 N	ADJOINING QUAD	SITE NAME: Animal Shelter	CLIENT: Tetra Tech EMI
	NAME: KANSAS CITY	ADDRESS: 2200 Raytown Road	CONTACT: Joanna Sciegienka
	MAP YEAR: 1957	KANSAS CITY, MO 64129	INQUIRY#: 3439224.4
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Historical Topographic Map



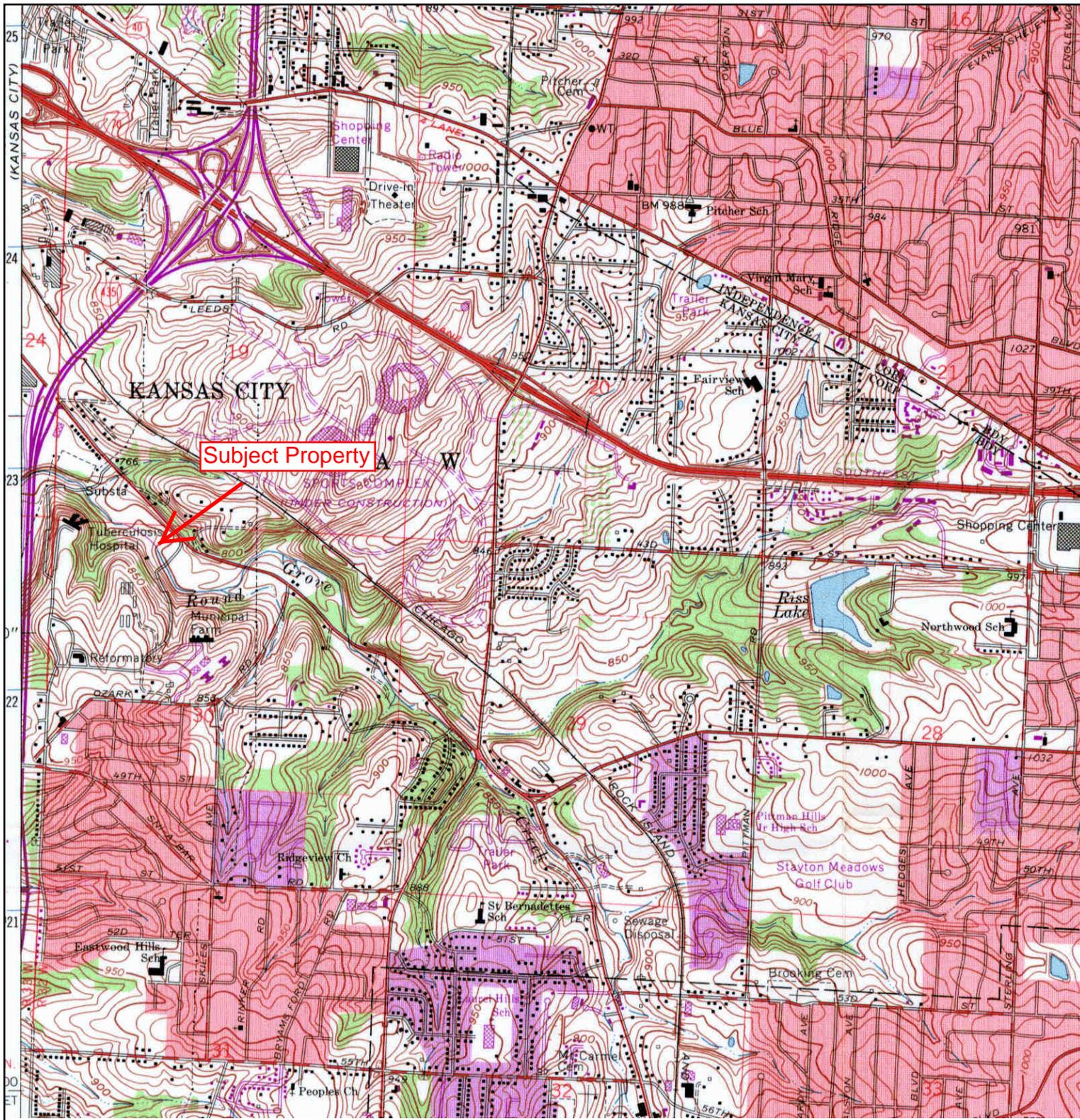
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	NAME: INDEPENDENCE	ADDRESS: 2200 Raytown Road	CONTACT: Joanna Sciegenka
	MAP YEAR: 1964	Kansas City, MO 64129	INQUIRY#: 3439224.4
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Historical Topographic Map



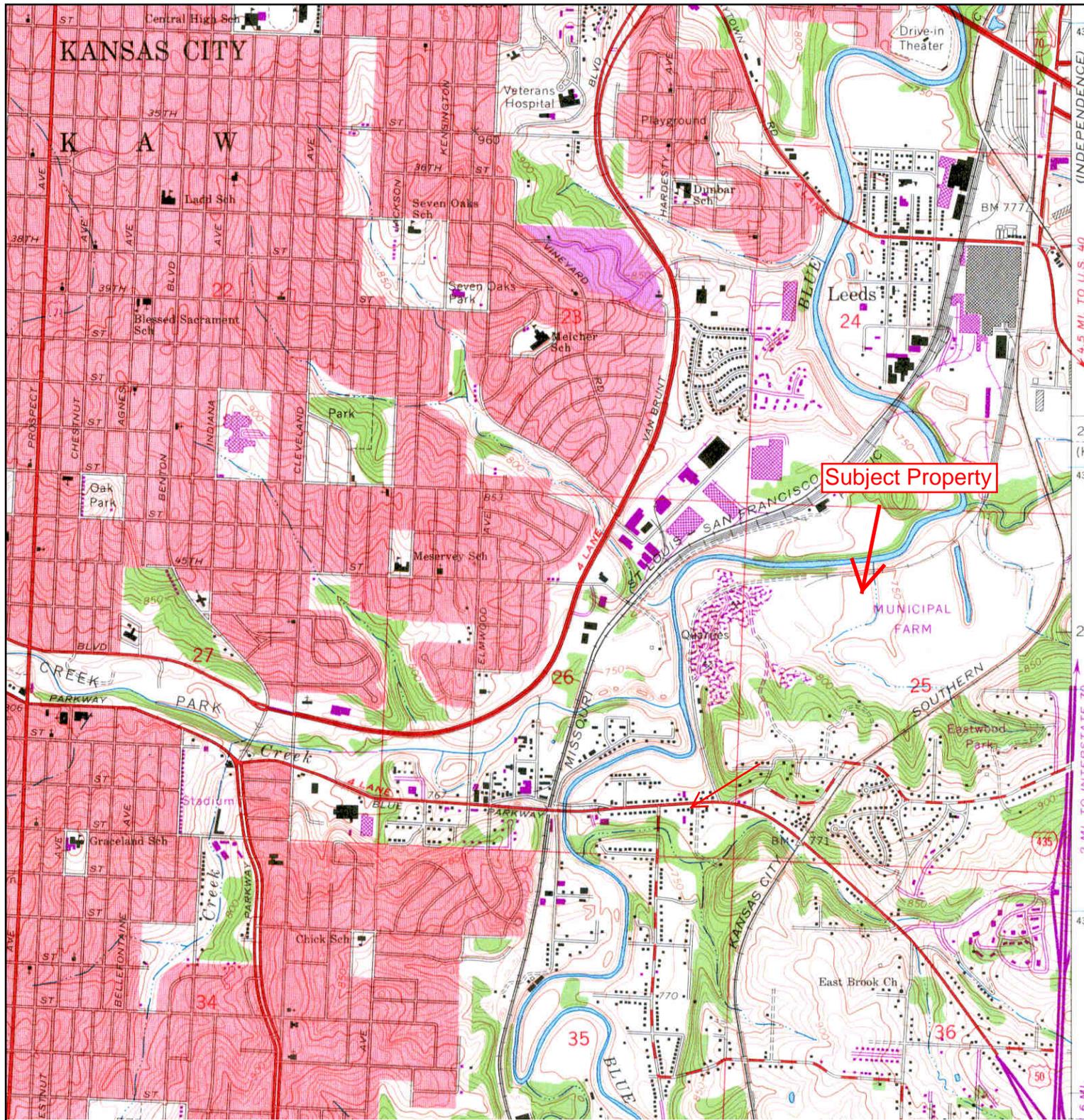
	ADJOINING QUAD			
	NAME:	KANSAS CITY	SITE NAME:	Animal Shelter
	MAP YEAR:	1964	ADDRESS:	2200 Raytown Road Kansas City, MO 64129
	SERIES:	7.5	LAT/LONG:	39.0445 / -94.4938
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		RESEARCH DATE:	10/23/2012	

Historical Topographic Map



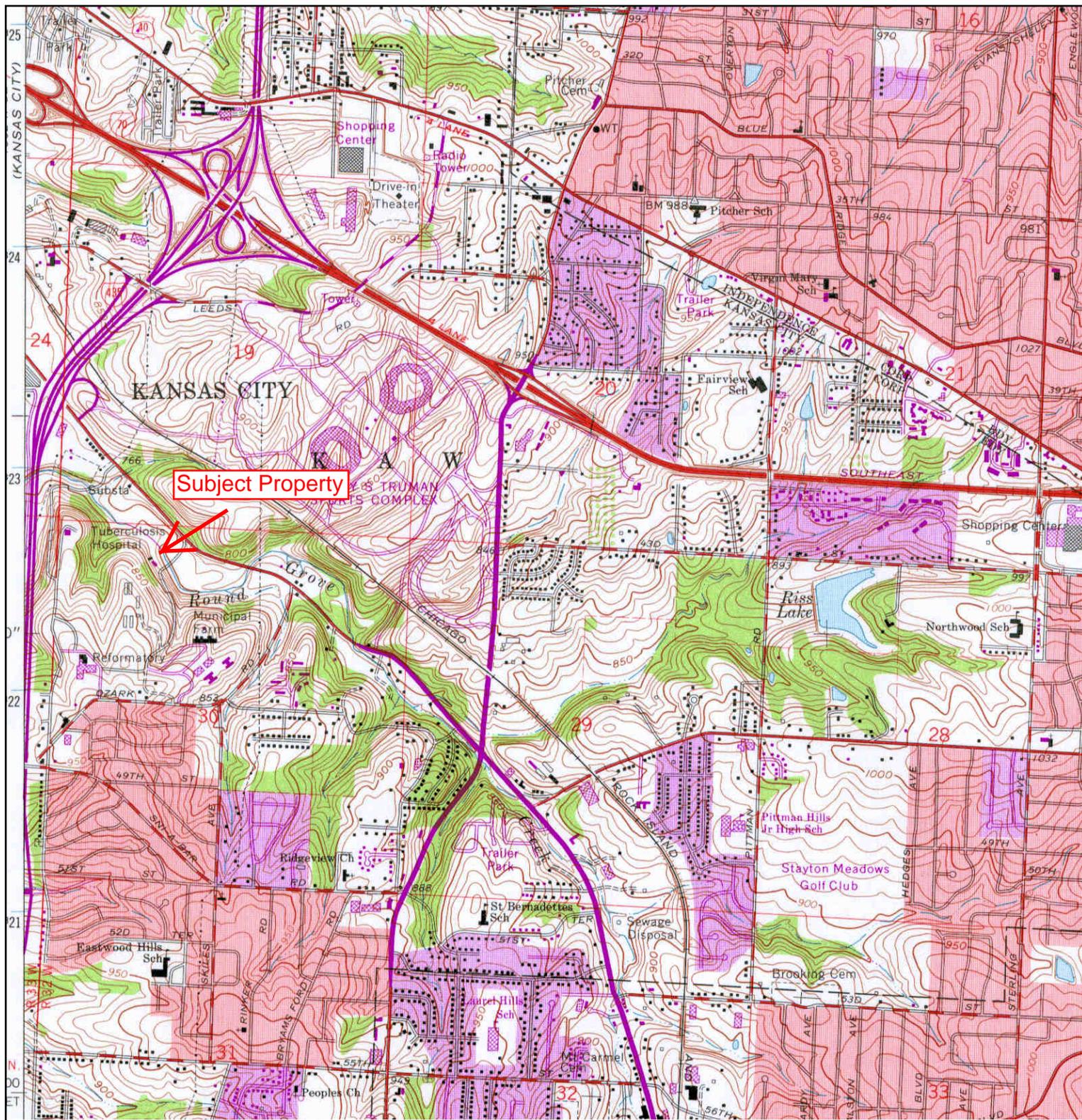
	TARGET QUAD	SITE NAME: Animal Shelter	CLIENT: Tetra Tech EMI
	NAME: INDEPENDENCE	ADDRESS: 2200 Raytown Road	CONTACT: Joanna Sciegenka
	MAP YEAR: 1970	Kansas City, MO 64129	INQUIRY#: 3439224.4
	PHOTOREVISED FROM :1964	LAT/LONG: 39.0445 / -94.4938	RESEARCH DATE: 10/23/2012
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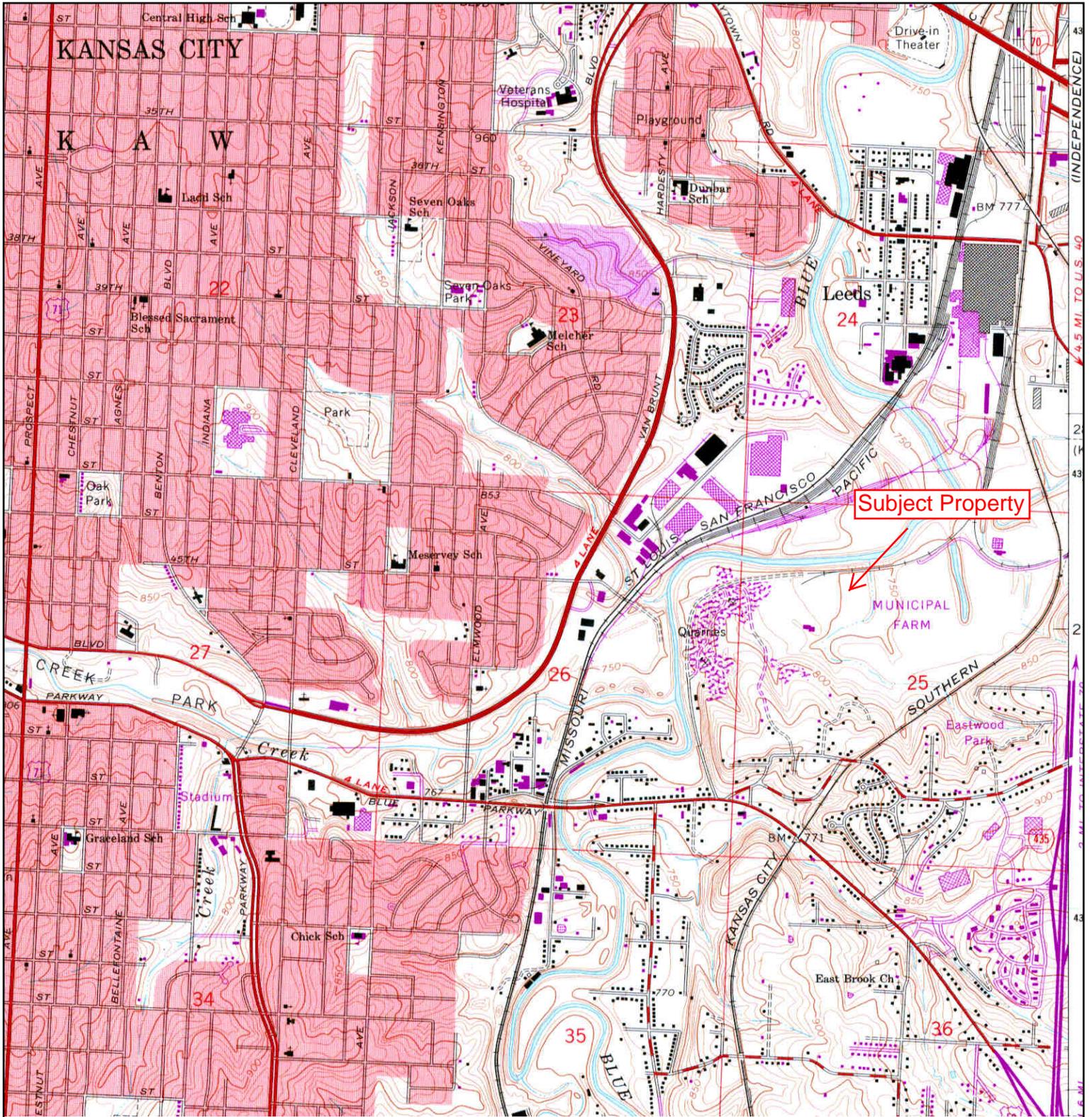
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	MAP YEAR: 1970	Kansas City, MO 64129	INQUIRY#: 3439224.4
	PHOTOREVISED FROM :1964	LAT/LONG: 39.0445 / -94.4938	RESEARCH DATE: 10/23/2012
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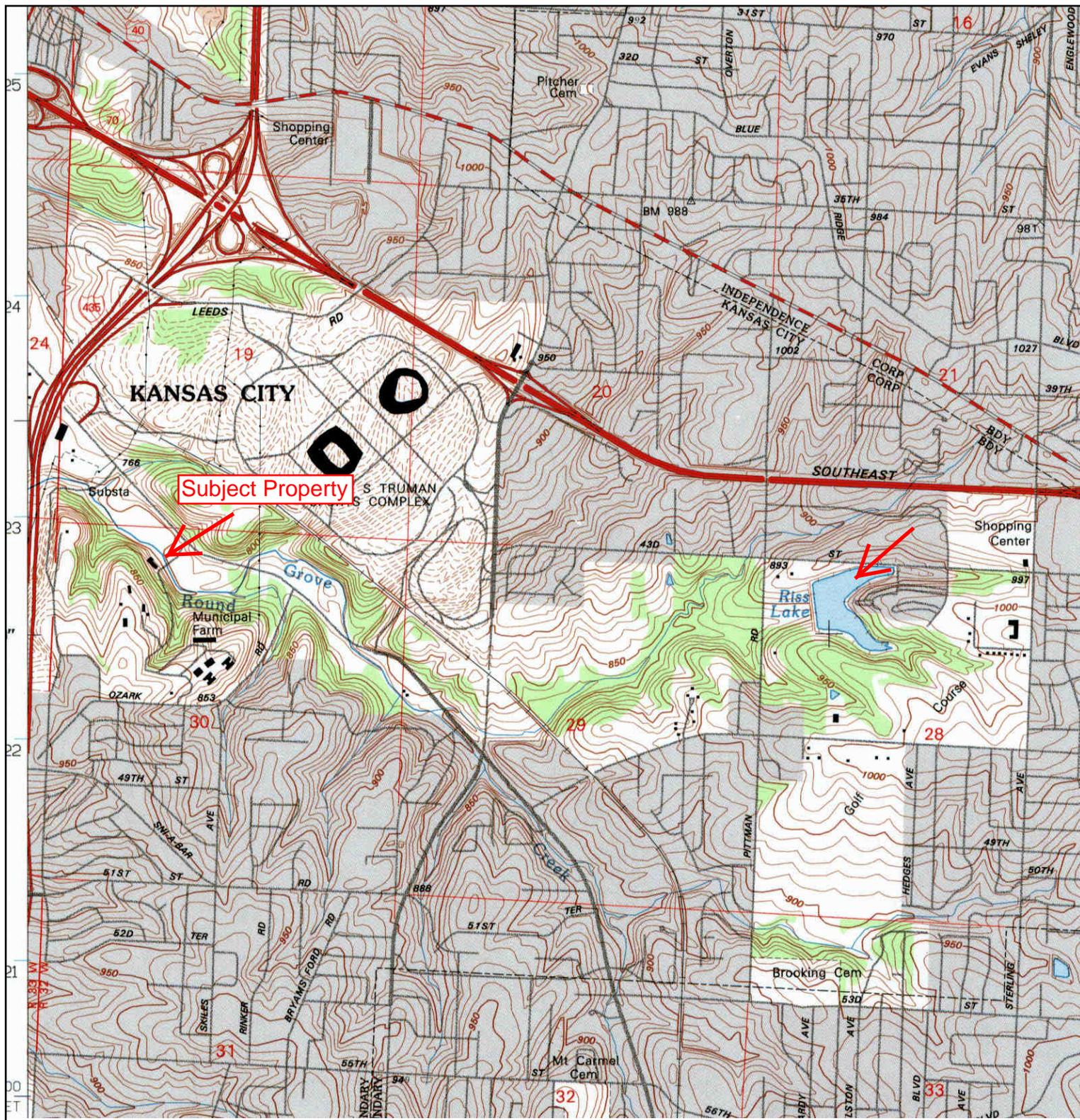
	TARGET QUAD	SITE NAME: Animal Shelter	CLIENT: Tetra Tech EMI
	NAME: INDEPENDENCE	ADDRESS: 2200 Raytown Road	CONTACT: Joanna Sciegenka
	MAP YEAR: 1975	Kansas City, MO 64129	INQUIRY#: 3439224.4
	PHOTOREVISED FROM :1964	LAT/LONG: 39.0445 / -94.4938	RESEARCH DATE: 10/23/2012
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Historical Topographic Map



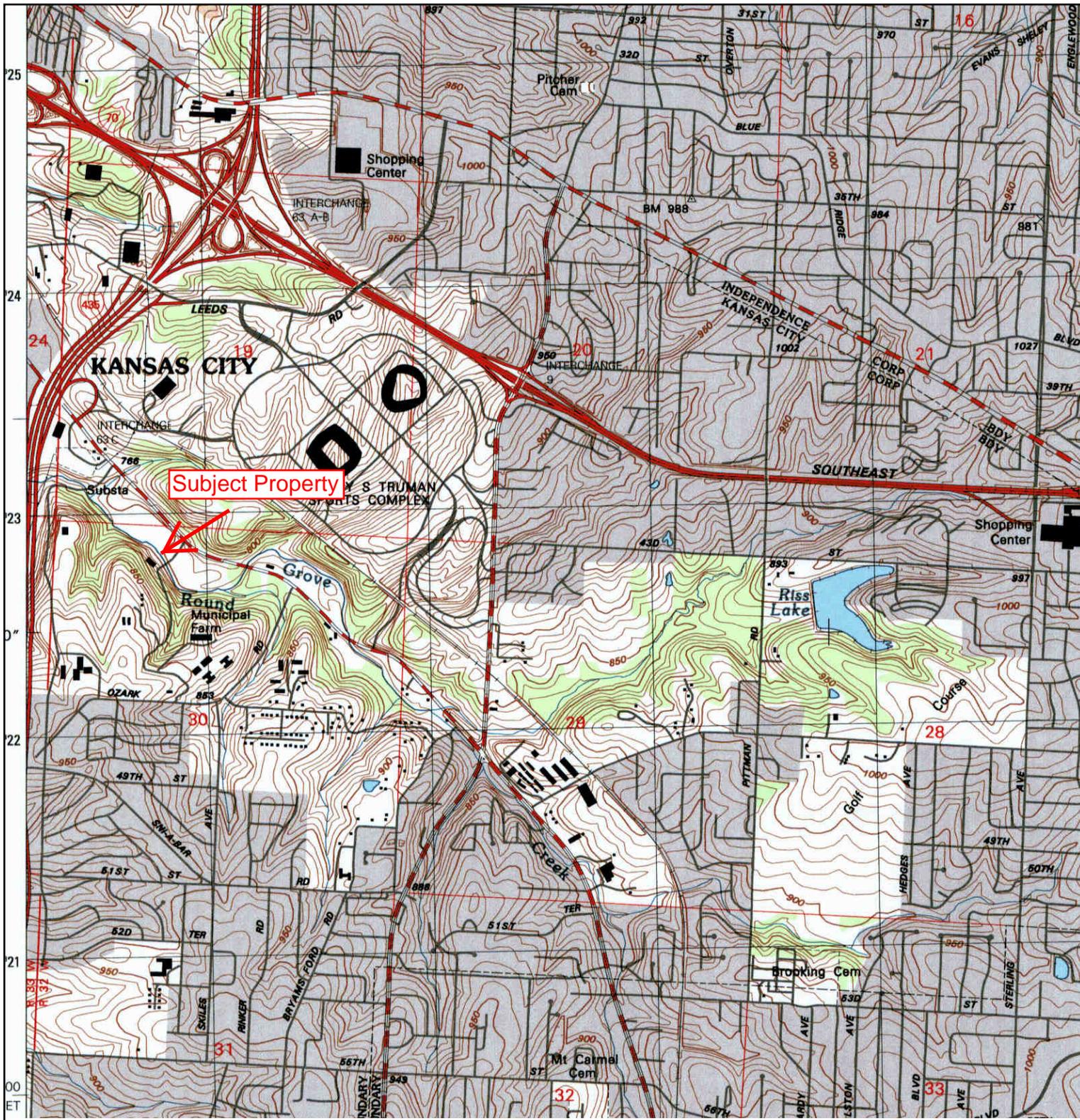
	ADJOINING QUAD			
	NAME:	KANSAS CITY	SITE NAME:	Animal Shelter
	MAP YEAR:	1975	ADDRESS:	2200 Raytown Road
	PHOTOREVISED FROM :	1964		Kansas City, MO 64129
	SERIES:	7.5	LAT/LONG:	39.0445 / -94.4938
	SCALE:	1:24000	CLIENT:	Tetra Tech EMI
		CONTACT:	Joanna Sciegienka	
		INQUIRY#:	3439224.4	
		RESEARCH DATE:	10/23/2012	

Historical Topographic Map



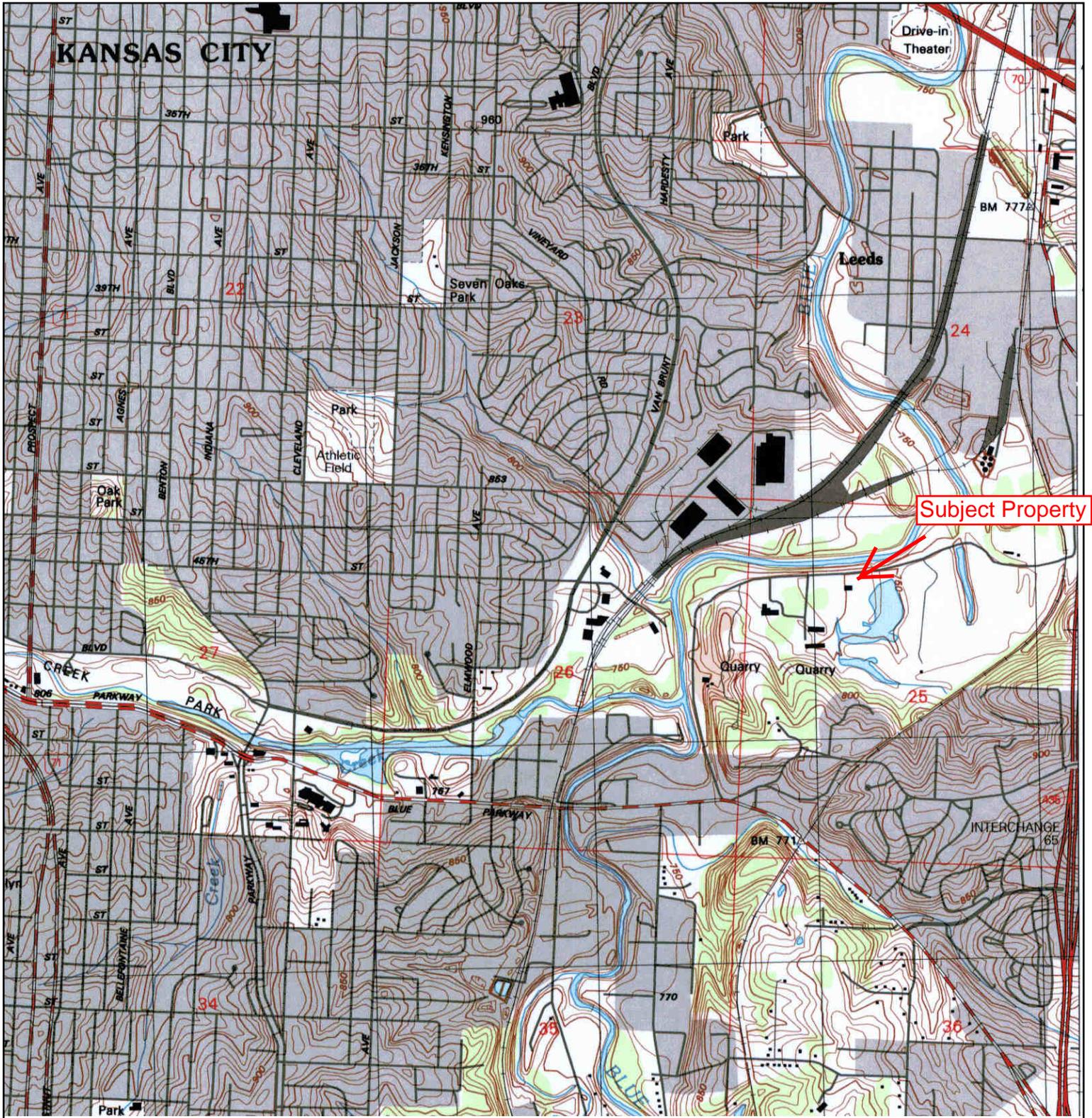
 <p>N</p>	TARGET QUAD	SITE NAME: Animal Shelter	CLIENT: Tetra Tech EMI
	NAME: INDEPENDENCE	ADDRESS: 2200 Raytown Road	CONTACT: Joanna Sciegenka
	MAP YEAR: 1990	Kansas City, MO 64129	INQUIRY#: 3439224.4
	SERIES: 7.5	LAT/LONG: 39.0445 / -94.4938	RESEARCH DATE: 10/23/2012
	SCALE: 1:24000		

Historical Topographic Map



 <p>N</p>	TARGET QUAD	SITE NAME: Animal Shelter	CLIENT: Tetra Tech EMI
	NAME: INDEPENDENCE	ADDRESS: 2200 Raytown Road	CONTACT: Joanna Sciegenka
	MAP YEAR: 1996	Kansas City, MO 64129	INQUIRY#: 3439224.4
	SERIES: 7.5	LAT/LONG: 39.0445 / -94.4938	RESEARCH DATE: 10/23/2012
	SCALE: 1:24000		

Historical Topographic Map



	ADJOINING QUAD	SITE NAME: Animal Shelter	CLIENT: Tetra Tech EMI
	NAME: KANSAS CITY	ADDRESS: 2200 Raytown Road	CONTACT: Joanna Sciegienska
	MAP YEAR: 1996	Kansas City, MO 64129	INQUIRY#: 3439224.4
	SERIES: 7.5	LAT/LONG: 39.0445 / -94.4938	RESEARCH DATE: 10/23/2012
	SCALE: 1:24000		

APPENDIX H-4
HISTORICAL CITY DIRECTORIES

Animal Shelter

Raytown Road
Kansas City, MO 64129

Inquiry Number: 3439224.6
October 23, 2012

The EDR-City Directory Abstract

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract 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 Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1909 through 2012. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RECORD SOURCES

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	<u>Source Image</u>
2012	Cole Information Services	-	-	-	-
2007	Cole Information Services	-	-	-	-
2006	Cole Information Services	-	-	-	-
2000	R. L. Polk Co. Publishers	-	-	-	-
1995	Cole Publications	-	-	-	-
1990	R. L. Polk Co.	-	-	-	-
1985	Jackson	-	-	-	-
1980	R. L. Polk Co., Publishers	-	-	-	-
1975	R. L. Polk Co.	-	-	-	-
1970	R. L. Polk Co.	-	X	X	X
1966	Jackson	-	X	X	-
1961	R. L. Polk Co.	-	X	X	X
1956	R. L. Polk Co.	-	X	X	X
1951	R. L. Polk Co.	-	X	X	X
1945	Gate City Directory Co.	-	-	-	-

EXECUTIVE SUMMARY

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	<u>Source Image</u>
1940	Gate City Directory Co.	-	-	-	-
1935	Gate City Directory Co.	-	-	-	-
1930	Gate City Directory Co., Publishers	-	-	-	-
1925	Gate City Directory Co.	-	-	-	-
1920	Gate City Directory Co.	-	-	-	-
1909	Gould Directory Co.	-	-	-	-

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

Raytown Road
Kansas City, MO 64129

FINDINGS DETAIL

Target Property research detail.

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

RAYTOWN RD

4300 RAYTOWN RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1966	HUTH G A	Jackson	
1961	ulth G A	R. L. Polk Co.	Image pg. A2
	laiethermes Hubert J	R. L. Polk Co.	Image pg. A2
1956	Owens Glenn E	R. L. Polk Co.	Image pg. A3
1951	Vacant	R. L. Polk Co.	Image pg. A4

4301 RAYTOWN RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1966	VACANT	Jackson	
	CRAWFORD WM W	Jackson	
1961	Cummings Noel B	R. L. Polk Co.	Image pg. A2
	Henry Theo M	R. L. Polk Co.	Image pg. A2
1956	Cuminngs &Noel B	R. L. Polk Co.	Image pg. A3

4302 RAYTOWN RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1970	VACANT	R. L. Polk Co.	Image pg. A1
1966	BEEBE GEO R	Jackson	

4329 RAYTOWN RD

<u>Year</u>	<u>Uses</u>	<u>Source</u>	
1970	VACANT	R. L. Polk Co.	Image pg. A1
1966	CHAMPLIN OIL & GAS GAS	Jackson	
1961	Cox Virgil	R. L. Polk Co.	Image pg. A2
	Champlin Oil & Gas	R. L. Polk Co.	Image pg. A2
1956	Bens Serv Sta gas sta	R. L. Polk Co.	Image pg. A3
1951	Bens Service Sta	R. L. Polk Co.	Image pg. A4

FINDINGS

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched

Raytown Road

Address Not Identified in Research Source

2012, 2007, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched

4300 RAYTOWN RD

Address Not Identified in Research Source

2012, 2007, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1970, 1945, 1940, 1935, 1930, 1925, 1920, 1909

4301 RAYTOWN RD

2012, 2007, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1970, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909

4302 RAYTOWN RD

2012, 2007, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1961, 1956, 1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909

4329 RAYTOWN RD

2012, 2007, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1945, 1940, 1935, 1930, 1925, 1920, 1909

Source Page Images Appendix

RAYTOWN RD 1970

RAYTOWN RD-Contd
2722 VACANT
2724 STAR CHARLES R • 921-7595
2732 HAMMOND LE ROY M •
921-5212
2736 SPEED FRANK H • 861-6175
HANSON MARGARET
2738 WELIGMAN SELMA MRS •
921-3695
2744 VACANT
2748 BROWN JOHN
BSMT MORRIS JUANITA MRS
921-3247
---POPLAR AV INTERSECTS (NOT OPEN)
---E 28TH ST INTERSECTS
2800 STOUTSENBERGER CHARLENE
MRS • 921-2115
2808 MYSER ULUS E 921-4567
2814 BUSSEY GEO
2818 MOROTTA FRANK E • 921-8300
2820 WINKLER EULA
2822 BRITHAUR CATHERINE
861-0575
2825 TACKLESS CARPET
INSTALLATION CARPET
LAYERS 861-1151
---BRIGHTON AV INTERSECTS
2830 VACANT
2832 VACANT
2835 ALLISON HAROLD C •
861-0472
2838 MILLER MIKE 921-9743
2839 TRAIL ANNA M MRS •
923-7204
2840 QUINT MADGE MRS 924-7532
2842 MC CONNELL OLGA MRS MRS
923-3819
---QUINCY AV INTERSECTS
2845 SOEBORG AXEL J • 923-7363
2847 TENNYSON JEAN MRS •
924-4848
2849 SWEARNGIN OPAL E MRS •
921-2638
2851 PEREZ AUFREDIA 861-2778
2853 TRAIL CHARES R
2855 LAMASTUS ROSE MRS 861-6150
2860 CLUB MATADOR MONTEREY
RESTAURANT & COCKTAIL
LOUNGE TAVERN 924-9491
---DENVER AV INTERSECTS
---COLORADO ST INTERSECTS
---E 29TH ST INTERSECTS
2902 VACANT
---E 30TH ST INTERSECTS (NOT OPEN)
---VAN BRUNT BLVD INTERSECTS
---(NOT OPEN BET S VAN BRUNT
BLVD
---AND E 31ST)
---E 31ST ST INTERSECTS
3111 AL SKELLY SERVICE
STATION 924-9804
3115 MC DONALD'S HAMBURGERS
(BR) 861-3611
3124 KATZ DRUG CO NO 36
923-9532
3125 FINK'S S O S CONOCO CAR
WASH
3136 JUSTRITE SUPER MARKET INC
923-0342
---E 32D ST INTERSECTS
3231 PORTERS AUTO SALVAGE
861-1211
3234 VACANT
3239 PORTERS READY BUILT
WRECKERS 861-2786
---E 33D ST INTERSECTS
3301 VACANT
3303 CAR CITY AUTOMATIC WASH
EMIG GARY RACE CARS
923-7277
3305 DON'S TUNE UP AUTO REPAIR
924-2429
3309 A-CAR CITY TRANSMISSION
923-1155
---E 33D STREET TER ENDS (NOT OPEN)
3321 THOMPSON HALL BODY SHOP
861-3397
3330 WILLIAMS LLOYD M •
921-4395
3333 VACANT
3337 LIBERTY TAVERN 924-9926
D & G SANDBLASTING CO
483-4878
---E 34TH ST ENDS(NOT OPEN)
---E 34TH STREET TER ENDS
---TOPPING AV INTERSECTS
---E 35TH INTERSECTS
---ZIP CODE 64129
---(NOT OPEN)
---E 35TH STREET TER
INTERSECTS
---WHITE AV INTERSECTS
3511 ELECTRO BATTERY MFG CO
921-6228
3515 VACANT
3557 LANGLEY AUTO WRECKING CO
924-8452
LANGLEY H MOTORS USED CARS
924-8452
3600 VACANT
3608 VACANT
3602 VACANT
3611 A TO Z AUTO SALVAGE
861-3100
3613 ANDERSON SERVICE CO SERV
STA EQUIP INSTALL & REPR
921-5538
3618 VACANT
3620 HANEY HERMAN
3621 A-1 AUTO PARTS USED
921-9826
3631 FARRIS CECIL E 923-6636
---WHEELING AV INTERSECTS
---BLUE RIDGE BRIDGE
---E 37TH INTERSECTS
---E 39TH INTERSECTS
---WINCHESTER AV INTERSECTS
---PARISH AV INTERSECTS
4008 KRAHENBUHL J & SON PRODUCE
924-8742
KRAHENBUHL & SON SHIPPERS
& GROWERS VEGETABLES
921-7842

KRAHENBUHL & SON
GREENHOUSE 921-7842
---E 41ST ST ENDS
4128 VACANT
4130 GREGORY ROBT M • 923-8940
4132 BARNES MIKE
4134 GREGORY LAVON MRS •
924-2134
4136 HAITT FRED •
4138 BINNS MARIE E MRS 923-3846
4140 MADDOX LEON •
4148 THOMAS JOSEPH • 923-0724
4150 ATHERTON JOHN H 921-1756
---EASTERN AV INTERSECTS
4201 VACANT
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RAYTOWN RD 1961

437

RAINBOW LA W—Contd
Hiawatha rd intersects
232F
RANDOLPH RD (Clay County)—
 3925 Schmidt A H Farm cattle breeder
 GE2-4104
 Voigts Elvin S mgr GL2-4104
 4028 Siegenthaler Richd A GL2-2958
 4401 Whitaker Wm F @ GL2-6803
 4444 Bibler Paul E @ GL3-5542
 4511 Whitaker John D @ GL2-6806
 4625 Barnes Margt M Mrs @ GL2-6802
 4702 Pratt Gary L GL2-8356
 4715 Barnes Edw T @ GL2-6807
N 48th intersects
232E
 4805 Schreckhise Jack L
 4809 Trammell A J
 4816 Brooks Wm H GL3-6820
 Refratt John W
 5012 Messinger Roger L @ GL3-4204
 5020 Landes Lawrence E @ GL2-7183
 5048 Stocker Jas R @ GL3-2160
 5100 Brandow Fred @
 5106 Emyeart Orlo C @ GL3-5694
 5139 Hylon Russell C
 5142 McMillin Claude @ GL3-5424
 5148 Johnson J Eldon Rev @ GL2-1089
 5200 Wilson Paul E @ GL2-6858
 5218 Rynard Danl J GL3-7738
 5220 Roads Ralph H @ GL3-1496
 5228 Coffman Geo A jr
 5232 Webb David H
 5238 Justice Alma V @
 5300 Sinclair Clifford P @ contr
 GL2-4841
 5320 Coffman Geo A @ GL3-3111
 5330 Vacant
 5336 Steele Wilford E GL2-0526
 5412 Frame Vernon
 5502 Valentine Wade @ GL2-8143

RAYTOWN RD—From intersection of
E 27th and Chelsea av southeast
beyond city limits (not open between
S VanBrunt Blvd and E 31st)
 2702 Chet's Tow Service WA4-3545
 2710 Coggins Thos H UN1-0031
 Whaley Annabell Mrs WA4-9052
 2720 Snyder Stella V Mrs
 2722 Vacant
 2724 Mills James G @ WA1-9867
 2732 Hammond LeRoy M @ WA1-5212
 2736 Speed Frank H @ WA4-4967
 2738 Wielgman Selma Mrs @ WA1-3695
 2744 Johnson Olga M Mrs @ WA4-1815
 2748 McKinney Oscar H WA4-2277
 2748 Robinson Richd E
Poplar av intersects (not open)
E 28th intersects
 2800 Stoutsenberger Charline M Mrs @
 WA1-3116
 2806 Vacant
 2808 Kurtz Chas L WA1-4567
 2808½ Vacant
 2814 Kimrey Russell E @ WA4-3797
 2818 Armillio Clara A Mrs @ WA4-1429
 2820 James Daisy Mrs
 2822 Embree Omer J
 2825 AAA Carpet Service Co carpet
 laying WA1-4434
Brighton av intersects
 2830 Finley Helen E Mrs @ WA1-7144
 2834 Hall Claude F
 2835 Winchester Chas K @
 2838 Dodson Geo H
 2839 Lockhart Wesley L WA1-7799
 2840 Mason Vance E
 2842 McConnell Ola O @ WA3-6819
Quincy av intersects
 2845 Soeborg Axel J @ WA3-7363
 2847 Clark Clarence E @ WA4-8500
 2849 Swearingin Opal E Mrs @
 WA1-2638
 2851 Crabtree Bill M WA3-4874
 2853 Arnold Clarence M @ WA3-4765
 2855 Stokes Jos E @ WA4-6817
 2860 Bengimina Alex @
 Bengimina Tony @
 A & A Restaurant & Lounge
 WA4-9491

Denver av intersects
E 29th intersects
Colorado intersects
E 29th ter intersects
E 30th intersects (not open)
E VanBrunt Blvd intersects
(Not open between S VanBrunt Blvd and
E 31st)
186
E 31st intersects
 3111 Al's Skelly Service Station
 WA4-9804
 3124 Katz Drug No 36 WA3-9532
 3136 Justrite Super Market WA3-0342
E 32d intersects
E 33d intersects
 3301 Porter Sales & Service
 salvage UN1-2121
 3303 Union Auto Salvage

E 33d ter ends (not open)
 3330 Williams Lloyd M @ WA1-4395
 3337 Liberty Tavern WA4-9926
E 34th ends (not open)
 3400 Reynolds Wood Yard
E 34th Street ter ends
218
Topping av intersects (not open)
E 35th intersects (not open)
E 36th Street ter intersects
White av intersects
 3501 Electro Battery Mfg Co WA1-6228
 3515 Babson Bros Co WA3-2973
 3557 Langley Auto Wrecking auto parts
 WA4-8452
 Langley H Motor used WA4-8542
 3559 McGuire John W
 3600 Vacant
 3600½ Vacant
 3602 Vacant
 3604 Vacant
 3606 Vacant
 3011 A to Z Auto Parts WA4-9466
 3613 Springate Electric Co WA1-7665
 3616 Springate Thos H @ WA3-3833
 3618 Mack Grimmie @
 3618 Turner Jas P @
 3620 Nancy John @ WA1-2271
 3621 A-1 Auto Parts used WA1-9826
 3631 Lincoln Iron & Metal Co junk
 WA4-2790
Wheeling av intersects
Blue Ridge Bridge
E 37th intersects
E 39th intersects
Winchester av intersects
242
Parish av intersects
 4008 Krahenbuhl & Son Mkt WA1-7842
 Krahenbuhl & Son greenhse
 WA1-7842
 4032 Vacant
E 41st ends
 4110 Gruver Lawrence
 4128 Egner Albert F @ WA4-6324
 4130 Gregory Robt M @ WA3-8940
 4132 Winkler Joe M @ WA3-4653
 4136 Wilson Forrest G @ WA4-3891
 4138 Dodson Wesley B @ WA1-7845
 4139 Lioco Elec Machy WA1-0907
 4140 Wise Wm T @ WA3-1090
 4142 Dennis Jack L WA4-1129
 4147 Thomson Wm H @
 4148 Villines Gus T
 4150 Herndon Curtis D WA1-8974
Easton av intersects
 4201 Baldwin Service gas sta WA1-6926
 rear Baldwin Homer B @ WA4-6926
 4203 Vacant
 4210 KC Tuberculosis Hosp WA4-5800
 4300 Kliethermes Hubert J WA1-4587
 Huth G A @ WA3-2378
 4301 Cummings Noel B @ WA4-4500
 4301½ Henry Theo M WA3-3097
 4329 Champlin Oil & Gas WA4-9987
 Cox Virgil WA3-0957
 4400 Municipal Animal Shelter
 UN1-0123
 4405 Duncan Alpha V @
 Duncan Alloy Foundry WA1-8244
 Hendren Ronald G WA3-5127
 McKinney Chas R WA1-6821
 Smith Norman
 Barclay Robt
 Hughes Luther W @ WA1-2482
 Byrd Bob G @ WA4-5949
 West Arth A WA3-7378
 Bush Delbert L @ WA1-3828
Ozark rd intersects
 4500 Hill Feed Co feed WA3-8800
 Hill Petroleum & Feed whse
 WA3-8800
 4501 Hill Petroleum Serv Station
 WA3-8800
 rear Flory Keith WA4-7993
 4600 Vacant
 4649 Burton Gilbert
 4650 Johnson August
 4658 Baker Raymond C WA3-1236
 rear Evens Harry
 4660 Alschback Earl C WA4-5765
 4662 VanMeter Robt R
 4700 Vacant
 4715 Beltz Lewellyn W @ WA4-5335
 4719 Wiley Veryl O @ WA1-6695
 4731 Ward Wm A WA1-3739
 rear Vacant
 4732 Mustain Antiques WA3-4705
 Crouch Repair Shop WA4-9511
 C & J Tavern WA4-9424
 4734 Vacant
 4801 Oaks Court Cabins RE1-9531
 Schmidt Richd T
 4815 Ezy Seal Products Co FL6-0508
 4824 Crue-cut Lawn Mowers Inc
 FL3-4530
 Raytown Sheet Metal & Copper
 Wks FL3-2510
 4825 Martin Bill Motors Inc gas sta
 & restr FL3-0988
 4829 Chasteen Plumbing FL6-1762
 4831 Blue Ridge Tile & Linoleum
 FL6-1762

4834 Tiger Inn tavern FL3-9447
 4835 Millers Bycycle & Repair Shop
 FL3-3088
 4837 Bill's Barber Shop FL6-0910
 4839 Vacant
 4844 Vacant
E 49 intersects
 4900 Camp Falls Trailer Park
 FL3-9457
 Camp Falls Food Store
 FL3-9457
 Coons Carl J @ FL3-9457
 Nussbaum Veron
 4909 Herman Jos G @ FL3-1273
 4919 Violet Villa Florist
 4921 Vacant
 4949 Vacant
 5015 Vacant
 5019 Boehm Paul J Greenhouses
 FL3-5155
 rear Boehm Paul J @ FL3-5155
E 50th Street ter intersects
 5021 Baird Harry E @ FL6-1212
 5023 Kinatender Geo H @ FL3-4297
E 51st intersects
 5100 Funkhouser Jas E @ FL3-1081
 5101 Reddington Edwin R @ FL3-1887
 5120 Conroy C Martin @ FL3-2719
 5140 Zinsler Louis @ RE1-7278
 5200 Vacant
E 52d Street ter intersects
428
E 87th intersects
 9100 Harger Valeska C Mrs @
 SO1-7664
 9101 Rieder Fred G @ SO1-0589
 9102 Talley Frances M Mrs @
 9200 Pate Jerry C @ SO1-1135
 9201 Magers Herbert C SO1-6341
 9300 Rasmussen Harold J SO1-7531
 Dysart Vance C @ SO1-6660
 9301 Nelson Emile A @ SO1-7186
 9302 Trim Rolly S SO1-2008
 9304 Schroeder Don K @ SO1-7514
 9310 Davis Zola P Mrs SO1-6951
 9311 Carr Gilbert E @ SO1-3563
 9312 Haley James E SO1-4440
 9316 Cleveland Mary C Mrs @
 SO1-0043
 9318 French Don L SO1-5874
 9319 Gardiner Neils J @ SO1-0023
 9320 Smith Frank C @ SO1-7665
 9321 Vacant
 9400 Craig Thos J @ SO1-7573
 9401 Bowen Murry H @ SO1-0460
 9408 Emanuel Lloyd G @ SO3-1314

E Bannister rd intersects
 9508 O'Neal Lambert @ SO1-2154
 9511 Floyd Norman @ SO1-1973
 9512 Hudgens Nolan A @ SO1-1549
 9515 Herbert David W @ SO1-4034
 9516 McGowan Harold J @
 9517 Dane Ernest L @ SO1-7255
 9521 Rookstool Owen A @ SO1-4056
E 96th intersects
 9601 Ditton Paul M @ SO1-5452
 9606 Jewell Geo L @ SO1-2062
 9611 Paull Ernest @ SO1-7327
 9612 Palmer Robt E @ SO1-6561
 9615 Branstetter Henry O contr
 SO1-7466
 9622 Tanis Jesse A SO1-7043
 9630 Edwards James V @
 9704 James Eliz L Mrs @ SO3-3560
 9709 Phelps O S
 9717 Vacant
 9719 Vacant
 9800 Godsey Wm S SO3-3082
 9801 Vacant
 9803 Vacant
 9807 Moore Harold A @ SO1-7181
 Moore H A Sanding contr
 SO1-7181
 9814 Cummings I Montova Mrs @
 SO1-7656
 9901 Brooke Lawrence L @
 SO1-7768
 9912 Lang Kenneth A @
 9917 Hartman Jacob C @ SO1-4410
 10017 Goble Larmon L @ SO1-8715
 10100 Livingston Richd W @
 SO1-4180
 rear Livingston Edw B @ SO1-6098
 10101 Frogge Susie L Mrs @
 SO1-4422
 10200 Livingston Douglas E @
 SO3-0681
 Hilz Gerard B @ SO1-2696
 10300 Strand Clifford N @ SO1-7764
 Power Wm E @ SO1-4488
 10301 Taubert Richd G @ SO1-4548
 10320 Mitchell Emerson E @
 SO1-7668
 Mitchell & Whaley contr
 SO1-7668
 10324 Jensen Harry T @ SO1-7628
E 104th intersects
 10401 Elser Raymond F @ SO1-6241
 10500 Carter Earl
 10502 Johnson John S @ SO1-2421

10600 Johnson Clifton D @ SO1-0130
 Johnson Cliff Painting Co
 contr SO1-0130
436
 10700 Miller Lloyd G @ SO1-1778
 Cutting James C @ SO1-4266
 Grimes Walter D @ SO3-0221
 10800 Grimes Jack C SO3-3163
 Drescher Chas E @
 Navajo Lake fishing
 10960 Stewart James C @ SO1-7366
 11000 Gabelman Fred @ SO1-6207
 11016 Rutherford Everett D @
 SO1-5549
 11000 Vacant
 11102 Nason Eber J @ SO1-7633
Longview intersects
 11500 Rockford School SO1-6474

RED BRIDGE ROAD E—From Wornall
rd east to city limits
Wornall rd intersects
 111 StPeters Chapel of StAndrew's
 Episcopal Church
 W12-1066
W Red Bridge rd intersects
 1100 Lacy Thos W @ W12-2575
 1104 Vacant
 1108 Grundeman Wallace F @
 W12-0795
 1114 DeLance Albert @ W12-0115
 DeLance Fred @ W12-0115
 1120 Quigley Jos G @ W12-1120
 1124 Hicks Geo E @ W12-0464
McGee intersects
Oak intersects
Holmes rd intersects
Troost intersects
Forest intersects
 1200 Vacant
 1201 Lacy John A W12-1956
 Minor Wm E Park W12-9721
 Oswald Omar S caretaker
 W12-9721
 1208 Raw Patk J @ W12-9504

2308 Morea Maurice K @ W12-2035
402
Blue River rd intersects
 2315 Varner Warren S @ W12-0910
 2400 Sargent Lewis D @ SO1-7723
 2401 Stenstrom Carl R @ W12-0836
 2404 Beets Ellsworth A @ SO1-7088
 2405 Copen Robt B @ W12-1717
 2600 Kemper Harvey H @ SO1-7712
 2700 Petersen Jens B SO1-7683
 2900 Parker V Inez
 3200 Young W Lee @ SO1-6671
 Chausnard Chas SO1-6671
 3401 Petrie Bert L SO1-5461
 3701 Moore Robt R @ SO1-6422

408
Annie Pate rd intersects
 3801 Ochs Arlow W @ SO1-3055
 3803 Scobee John C @ SO3-3099
 3805 Gowler Donald E @ SO3-2887
 3901 Phillips Stuart @ SO1-4155
 3903 Ducan Asbury R @ SO1-7295
 Ducan A R Realty Co SO1-7295
 3905 Gorman James F @ SO1-6533
 4000 Under Constn
 4001 Poermer Wm E @ SO3-1094
 4003 Brewer Clifford jr SO1-0180
 4005 Metcalf Raymond D @ SO1-2064
 4007 Frile Paul @ SO1-1465
 4009 Vacant
 4015 Dooley Thos H SO1-3098
 4401 Beebe Robt E SO3-3579
 4403 Swartz Leonard E @ SO1-4117
 4405 Burri Edw C @
 4407 Shauholtzer Chas R @
 SO1-1092
 4500 Terrace Lake Methodist Church
 4503 Johnsen Louis H Rev SO3-2140
 4505 Jensen John R @ SO1-7824
 4507 Keck Roy L @
 4509 Cooper Clarence @ SO3-1056
 4600 Under Constn
 4601 Davis W Gene @ SO1-6130
 4603 Haupt Elmer jr @ SO3-0381
 4605 Duffield John S @ SO1-0521
 4607 McVey Robt L @ LO3-1342
 4701 Elliott Thas L jr @ SO1-9872
 4702 Streeter Peter W @ SO1-1991
 4703 Astles Thos A @ SO1-2656
 4705 Moore Geo E @
 4706 Nichols Paul @ SO1-8980
 4801 Martell Mike T @ SO1-2740
 4802 Queen Floyd W SO1-5805
 4825 Damer T Edw Rev SO3-2278
 4904 Shields Lloyd W @ SO1-2247
 4910 Vacant
 4912 Vacant
 5100 Murphy Ralph S @ SO3-0404
 5104 Carpenter Don R @
 5200 Jones J Howard @ SO1-4011
 5206 Smith Nelson L @ SO3-0510
 5208 Stallcup Ralph B @ SO3-0267
 5210 Thompson Richd R @ SO1-0640
 5302 Hydro Butane Gas Co SO1-5522
 5512 Torotel Inc electronics sup
 SO1-6314

RAYTOWN RD 1956

QUINCY AV—Contd

- 307A Bennett Violante J Mrs
309 Williams Earl A
310 Schmall Arl M
311 Anderson Malcolm E
312 West John L Rev
313 Grace Gerald E
315 Adridge Ralph E
317 Moore Richard H
322 Cain Andrew J
324 Smith Geo E
345 Foster Brack

Smart intersects

- 401 Merwin Delbert
402 Fairchild Poe
403 Lovelace Harold L
405 Casper Andrew B
406 Slavens Wm F
408 Bollinger Delos E
409 Dyson Frank B
412 Davis Hester C Mrs
413 Seizer John R
414 Fench Jas A
415 Rodriguez Alfred
418 Saunders John W
419 Vittoria Louis
421 Deveney Harry L
422 Henderson Raymond E
424 Spoor Lester W
425 Jackson Wm A
427 Barlow John A
428 Moorehead John E
430 Crawford Archie B
432 Golden Bertie Mrs
433 Gordon Irene
434 Hickman James E
437 Egan John T
438 Davis Rubin L
439 Polgornik Nick J
440 Buchanan Leether L
441 Hughes Virgil R

Thompson intersects

- 504 Scanlon Jas F
505 Trull Anna M Mrs
506 Smith Kenneth V
507 Ochsmar Marvin T
508 Lattreth Roy J
509 Smith Donovan W
510 Vittoria Jos R
511 Guyon Chas J
512 Reardon Edgar L
513 Akers Robt C
514 Thompson Chas A
515 Walkers Robt E
516 Hanway Zadie A Mrs
517 Neal Ervin R
519 Bennett Frank E
520 Rogge Herman H
521 Hancock Dorothy L Mrs
522 Brae LeRoy S
524 Tuld O W
525 Rosenberg Kenneth J
527 Gilholy Cecil C
529 Paul Leon C
532 Buchanan Frank A
533 Nash Anna Mrs

Independence av intersects

(Not open between Independence

- 2000A Query Homer A
2004A Dwyer John J
2005A Bryzidine Wm L
2008A Harris Clifford R
3009A Fain Leslie E
2013A Barlow Oswald
2014A Troutman Robt D Rev
2015A Lucas Howard W

20th intersects

- 2016A Lapsley Helen M Mrs
2017A Clifton Raymond W
2021A Shortino Jos P
2022A Gibson William Leslie
2024A Beeler David L
2025A Mulkey Gene E
2029A Rihues Lester
2032A Phillips Jas M
2034A Miller Ernest J
2035A Summers Retha
2036A Clark Orville D
2037A Voorhees Vera Mrs
2038A Garvin Jas A
2042A Leffingwell Lewis L
2046 Apartments
1 Lawrence Alma
2 Ralls Ethel Mrs
2 McWilliams Nina Mrs
2 Laningham Ed
4 Manley Arth

E 22d intersects

- 2207A Ault Loren F
2208A Griffith Jerry
2209A Williams Leslie
2212A Kilventon Jas H
2214A Braden Walter L
2215A Butler Wm K
2216 Campbell Talullah Mrs
2220A Bowman John
2221A Bilber Geo A
2222A Rudder Ellis
2223A Cox Wm E
2224A Maloney Wm C
2225A Algire Warren
2231A Toler Robt D
2232A McDonald Eug P
2234A Montgomery John L
2235A Ledgerwood Clement
2236A Guthrie Leona S Mrs
2237A Seary Glenn E
2240A Dehmer Sebastian J
2246A McCombs John B
2252A Millholland Jas J

22d intersects

- 2300A Bryant Allen J
2300A McInnis Dan A
2307A Walsh Frank P
2310A Butler Frank E
2311A Average Gladys L Mrs
2314A Hanley Wm A
2315A Bond Noah F
2316A Anderson Wm E
2319A Armstrong John R
2320A Davis Wm F
2321A Thomson Luther
2322 Miller Lewis L
2323A Schwab
2326A Hyatt Wm
2327A Richeson Leo S
2328A Elliott Grace
2330A Rinkenbaugh Roger
2334 Vacant
2335A Leeds Wm L
2336A Schroeder Edwin F

E 24th intersects

- 2407A Closser Inez E
2409A Davis Gladys Mrs
2410A Hill Clara M

2411A Maxwell Theresa L Mrs

- 2415A Collins John F
2416A Nodde Mimmie J Mrs
2417A Flournoy Maudie
2418A Baker Earnest N
2420A Winslow Edna E Mrs
2422A Saluzzi John J
2424A Caldwell Jas E
2425A Vestal Etta N Mrs
2427A Estes Thos F
2428A Pauly Sammie
2429A Smallfield Alf W
2430A Dodson Laveta F Mrs
2431A Windisch Edwin C
2432A Hendrix Lloyd D
2433A Mills Kenneth E
2435A Smith Russell E
2437A Corwin Ollie
2438A Olson Herman
2441A Thomson Bessie E Mrs
2442A Bradley Arve O
2443A Katowitz Robt S
2444A Sivils Paul D
2449A Snow Harry T Jr
2450A Pfeiffer Robt E
2451A Dietrich Paul J
2452A Noble Jas M
2453A Harvill Clifford E
2454A Stolper Bessie L
2455A McIntyre Norman E
2457A Smith David C
2458A Anderson Wm C
2460A Cheek Leonard M
2461A Deuser Bernice E Mrs
2462A Test Edith B Mrs
2464A Sauvain Leona M Mrs
2465A Kieck Claes C
2506A Outlaw Calvin T int
2507A Chamberlain Ora E Mrs

25th intersects

- 2508A Mills Wallace W
2509A Free Robt
2510A Endsley Glen E
2512A Broyles Hurl
2514A Campbell Nora L Mrs
2516A Williams Frank B
2519 Vacant
2521A Matkunas Harry H
2522A Lashbrook John J
2524A Doane Elmer L
2525A Harris Albert H
2527A Couter John E
2529A Linhoff Eliz Mrs
2531A M Nerney Richd B
2532A Veigmer Frank R
2539A Jensen Rasmus P
2540A Moreland Mayme M Mrs

E 26th intersects

- 2600A Springer Ray C
2602A Littlefield Donald P
2606A Burns Wm J
2610A Hyatt Paul V
2611A McFee Chas L
2612A Siskel Dick D
2613A Wood Wm A
2614A Holloway Ruth Mrs
2615A Wire Ethel B Mrs
2616A Williams Chester L
2617A King Chas W
2618A Goddard Wilson J
2619A Cobb Francis E
2622A Stillfield Gus
2623A Stine Arth W
2625A Hort Phillip S
2629A Ober Ben
2630A Smith F Kenneth
2631A McCain Wm M
2633A Baker Ona M Mrs
2634A Blum Roy L Mrs
2635A Frazier Floyd E
2639A Crain Gerald F

220

- 2706A Berlin Max G
2708A Hoel J Adrian
2711A Simpson Hal H
2713A Steil Simon E
2716A Siefert Ed E
2720A Ripley Wm F
2721A Creswell Margt L Mrs
2728A Gravino Marie H Mrs
2729A Johnson Robt O
2731A Wagoner Marion B
2732A Brown John C
2733A Anderson Ernest D
2735A Harmon Harold E
2737 Vacant
2741A Rues Eug A
2742A LaManno Mary Mrs
2744A Fisher Robt E
2745A Miller Marvin H
2746A Wilson John C

E 28th intersects

- 2801A Stalcup Chas H
2803A Kaddox Jack W
2807A Williams Oscar J
2809A Cranfill Wm A
2810A Creswell Allen S
2812A Pagett Calvin O
2812A Hahn Carl
2814A Hahn Floyd A

Raytown rd intersects

- 2922A Trenolene Jos J
2924A Sherwood Bertha Mrs
2925A Williams Thos E
2927A Pittman Phillip A
2929A Ebersole Jerry O
2930A White Josephine Mrs
2931A Hromek Edna M Mrs
2932 No return
2933 No return
2935 No return
2936A Wilkerson Virgil L
2937A Brumbaugh Lennie Mrs
2938A Coffman Royal
2938A Carson Joe D
3004 Finley Robt
3019A Sparks John C
3021A Randol John E

186

E Linwood blvd intersects

E 31st intersects

(Not open between E 31st

and E 32d)

E 32d intersects

- 3228 Vacant
3239 Franklin Joe

E 33d intersects

E 34th intersects

E 35th intersects

(Not open between E 35th and

1/2 blk north of E 52d)

184

E 39th intersects

E 39th St ter intersects

E 52d intersects

(Not open between E 52d and

1/2 blk north of E 53d)

5220A Chandler Andrew

E 53d intersects

E 57th intersects

E 58th intersects

E 59th intersects

5841A Greenfield Chas

500

QUINCY AV N — From 500

Stjohn av north to Gladstone

blvd

Budd Park View Apts

106A Siegler Geo H

106A Caronin Jos P

108A Bello Louis E

108A Caronia Pete

110A Sloan Chas F

115A Schurzi Jas J Jr

115A Verstraete Vilas C

119A Manfre Josephine E

121A Bruegling Lawrence F

122A Munck Jas

125A Battlinger Mayme S Mrs

Battlinger Donald J

126A Troup Anthony F

128 Sherman Jesse W

131A Scanlon Joann M

133A Reas John

134A Arvin Jas B

Arvin Boulah L mus tehr

136A Battlinger Martin O

139A Cook Wm J

140A Lorascio Vincent

146A Hattem Bros gros

149A Callaghan Mark J

Scarritt av intersects

301A Andrews Mary M Mrs

301 1/2 Hall Rose Mrs

302A Quatros Walter E

307A Sackewitz Leona Mrs

308A Enoch Gerald J

309A Moran Ober L

310A Henderson Harry L

312A DiMartino Carl D

315A Doolin Carl J

316A Minor Kate E Mrs

Woods Ralph B

319A Bunde Cora E Mrs

320A Pruitt Norman A

321A Foster Fred C

325A Battlinger Carl H

326A Summers Frank T

327A Shaffer Robt H

328A Meyer Wm H

330A Elmer Louis G

331A Leeger Jas A Jr

332A Reid Marvin T

336A Kearns F Edmund

337A Hall Pierce W

338A DiGiusto Henry A

341A Schump Kenneth B

342 Conrick Frank C

345A Jacks Estill J

346 Vacant

N Norledge av intersects

400 Parker Chas R

401 Vester Carl P

402A McLaughlin Donald L

Williams Kenneth R

404A Bermond Lloyd K

405A Evans Ernie

406A Kitchens Loren V

407A Latta Arth M

410A Entfield Dorothy R Mrs

412A Elmer John F

415A Price Arth K

416 Vacant

417 Clark Melton J

422A Diebel Fred C

426A Arceneaux Clayton J

427A Newton Olen C

428A Reid Harold L

429A Schroff Harold J

433A Verstraete Fred T

435A Minter LeRoy M

436A Hasenyaeger Virgil D

437A McNeilis Patk C

439A Darr John W

440A Preston Eug T

441A Ford Fred

442A VanCompernelle Maurice

443A Kriss Frank

445A StLouis Robt D

447A Benton Robt X

450A Phillips Melvin A

452A Donnan Raymond

Gladstone blvd intersects

186

QUINCY DRIVE — From 186

wood blvd east 1 blk and

south to E 33d, 1 east of

E 31st

E 29th intersects

Schmidt Richd R

Hall Chas M

Lewis Frank E

3135A Norris Thos

McInerney Jas F

Hulse Homer O

3139A Yager Jas C

Koenig Gus

Horton O E

3142A Finley Jas B

Goebel Hal O

LeHew Robt M

Taylor Elton O

3147A Hyatt Alyne E

Hughes Donald

Soriano Chas A

Chrontor Cloyd B

3200A Noll Fred L

Gamble J L

Hickman Dorothy L Mrs

Goodheim Norman W

Jones Mary M Mrs

Eikenberg Robt J

West G A

3212 Simmons Blanche M Mrs

Kissee G Mack

Hansen M L

Miller Gilbert E

Matykievich Donald J

Thornburg Nell T

Thornburg Alvin L

Boehner Wm H

Allen John H Jr

McHern Jas W

Roark Earl W

White Alva J

Revercomb Harry J

Wright Lewis G

Israel Hans L

Tarr Clarence M Jr

Hern Jas W

Looney Namon

Welsh Robt E

Chatterton Paul

Bryges Lloyd J

Zwontner Jas L

Brown Lester C

Johnson Wm W

Boyles Jay R

Lovelie Glen H

Vackit Elmer S

Pierce Robt C

Berry John

Brann Ben J

Hackley Stella Mrs

Dyer John W

Spengler Robt J Jr

Vackit Elmer S mgr

Graves Robt J

Steward E B

Morono Jose S

Wrighthead Jess C

Croft Roy L

Burgess Clayton F

McGranahan Chas R

Mark Wm E

Perrin Roy C

Amice Franklin H

Hastings G L

220

RANDOLPH ROAD (Clay

Conty)

Schmidt A H Farm

Vackit Elmer S mgr

N Jordan Oscar T

4100 Lunford

4401C Whitaker Wm F

4511A Whitaker John D

4615A Barnes Harry C

4702A Chatrou Bert C

4715A Barnes Edw T

N 48th intersects

4816A Frame Vernon

RAYTOWN RD 1951

QUINCY AV—Contd
2407 AClosser Amanda A
2409 ACrane Lorin
2411 AMaxwell Horace G
2412 AAllen Robt F
2416 AGlenn Minnie J
2417 AFourney M Houston
2418 ALynn Geo E
2420 AWinslow Edna E Mrs
2422 ALamanno Mary Mrs
2424 ACaldwell Chas E
2425 ACoy Hannah J
2427 AEstes Thos F
2428 APatrik Alice Mrs
2429 ASmafield Ar W
2430 ADodson Glen D
2431 AWindach Edwin C
2432 AHendrix Lloyd D
2433 AMills Kenneth E
2435 ASmith Russell E
2437 No return
2438 AOlson Albert
2441 AThomson Lawrence E
2442 ABradley Ayve O
2445 ALandman Mary Mrs
2446 ASivills Paul D
2449 ASnow Harry T Jr
2450 ABell Warren J
2452 AZachow Arth W
2453 AHarrill Clifford E
2454 AWelch Jas N
2455 AHartman Albert
2457 AVitt Herman L
2458 Anderson Wm C
2460 AHeck Leonard M
2461 ADeuser Bernice E Mrs
2462 ATest Edith Mrs
2463 ACollins Raymond C
2464 ASauvan Leona M Mrs
2465 Eck Chas C
2506 ABarnet Gus A
2507 ATest Laurence E
2509 AKeeffe Ernest J
2510 AZachow Gerald R
2512 ABroxley Hurlt
2514 ACampbell Vera L Mrs
2516 POindexter Etta Mrs
2519 ARittenhour Phillip Y
2521 AMalkum Harry H
2522 ALashbrook John J
2524 ADoane Elmer L
2525 AHarris Albert H
2527 ACoulter John E
2529 ALinhoff Herbert
2531 AMcNerney Michl T
2535 AVelger Frank
2539 Vacant
2540 AMoreland Mayme M Mrs
2541 ALemmerman Frank
2542 ABurt Myrtle S
2543 AImbean Gus A
2544 ABrandt Aug
2546 AKeeple Alvin R Rev
2549 ABehnke Walter M
E 26th intersects
2600 ASchultz Edw
2602 ALittle Donald P
2606 ABurns Wm J
2610 AHyatt Paul V
2611 AMcGlynn John W
2612 AConner Gordis F
2613 AMcFadden Wm F
2614 AMcConnell Lawrence H
2615 Wire Ethel B Mrs
2616 AWilliams Chester H
2617 AKing Chas W
2618 AMoran Elmh R
2620 ACobb Francis E
2622 AGray Robt L
2623 AStine Arth W
2627 AHoyt Phil S
2629 AHall Carl
2630 ASmith F Kenneth
2631 AKuhn Wm J
2633 ABaker Hugh A
2634 ABlum John F
2635 AFrazz Floyd E
2639 No return
E 27th intersects
2706 ABerlin Max G
2708 AHoel Jesse A
2711 AWilhelm Arth O
2713 ABarnett Wm I
2716 APatterson Nanette Mrs
2720 ARipley Wm F
2727 ACresswell Jas N
2728 No return
2729 ASterling Clifford A
2731 AWelch Carl M
2732 AMarino Louis
2733 Anderson Ernest D
2735 ABrown John C
2741 AWilhelm Arth
2742 ALAmano Mary Mrs
2744 AFisher Robt E
2746 AWilson Jesse
E 28th intersects
2801 ASaley Eug R
2803 AMaddox Jack W
2810 ACresswell Allen S
2812 AMalson Jesse E
2814 AHollandsworth H Eug
Raytown rd intersects (not open)
2922 ATrenolone Jos J
2924 ASherwood Floyd R
2925 AWackerman John L
2927 Under construction
2930 Abans Westwood Luth Church
2932 Holmes Ruth E
E 30th intersects
3004 Dewey Chas
3021 ARandol John E
E 31st intersects
(Not open between E 31st and E 32d)
E 32d intersects

E 33d intersects
E 34th intersects
E 35th intersects
(Not open between E 35th and 1/2 blk north of E 32d)
E 39th intersects
3910 AHenson Sidney
3911 ALangland Marvin E
3914 ABobbitt Chas S
3915 ADeShaffon Roy Jr
3918 AGrimm Wm T
3919 AShearer Wm P
E 39th St ter intersects
5147 AWhitfill Wm C
E 52d intersects
(Not open between E 52d and 1/2 blk north of E 53d)
5220 Chandler Andrew
5222 Hillman Ralph L
E 53d intersects
5324 AStockdale Geo L
(Not open between 1 blk south of E 53d and E 57th)
E 57th intersects (not open)
5702 ACummings Robt T
5717 AMeyer Elmer L
5721 MCaylor John L
5720 AMcCl Clarence F
E 58th intersects
E 59th intersects
QUINCY DRIVE—From Linwood blvd east 1 blk and south to E 33d, 1 east of E 31st
3129 Under construction
3131 Under construction
3135 Under construction
3139 Under construction
3143 Under construction
3147 Under construction
3200 Under construction
3204 Under construction
3208 Under construction
3212 Under construction
3215 Under construction
3216 Under construction
3219 Under construction
3220 Under construction
3221 Under construction
3223 Under construction
3224 Under construction
3225 Under construction
3227 Under construction
3228 Under construction
3229 Under construction
3231 Under construction
3232 Under construction
3233 Under construction
3234 Under construction
3236 Under construction
3237 Under construction
3241 Under construction
61 RAINBOW BLVD (formerly Hudson rd, Westwood Hills) From Johnson County Line south to 2300 W 52d
W 47th St ter ends
4700 AHammons & Hughes Mtr Service
4701 Rainbow Milk & Grocery
4710 AFox Everett C
4714 ABernard Angelo
4715 Waldner Edw
4716 ANonally Fredk A
4720 ALautenschlager Martin
4730 ALoft Cleo
4740 ARainbow Nursery
4742 ABrink Jas J
4744 AChurch Ezra
4746 APack Harry
4755 AWayne's Market gros
4757 AFowler & Meininger Small Animal Hosp
APowder Thos A vet
AMeininger T Ann Mrs vet
4759 ASiles Delicatessen
4759 1/2 AMitner & Preston real est
4761 AGlaryzer John H
4763 ARiley Leo
4765 ADean Herbert
W 48th ends
4803 AStevens Melvin S
4804 ACicutto Lillian Mrs
4805 AUhlin Jas
4807 Vacant
4809 AHoran Eug W
Swarzel rd ends
4810 AMorrow Martell
4812 APay-Less Super Mkt gros
4824 Everhart Chas P
W 49th ends
4940 ASwartzell Elmer O
W 49th St ter ends
4950 ASieve Leo
W 50th ends
4958 ASwartzell Bertie A Mrs
5000 AHammond Larry L
5104 AEllis Fred L
5035 Westwood Luth Church
W 50th St ter ends
5109 AMilgram Leonard
5123 ASloan Ernest A
5150 ADoane Frank A
5151 AFerry Henry B
5156 AArmstead Melvin M
5158 Braun Sigmund
W 51st St ter intersects
Westwood Luth Church
W 52d intersects

RAYTOWN ROAD — From intersection of E 27th and Chelsea av southeast beyond city limits (not open between S Vanbrunt blvd and E 31st)
2702 Reed Claude S all sta
2710 Jimmie's Bail Shop
2718 ACripe Berry B
2720 APyles Lloyd C
2722 ACessa Ira E
2724 AWielligman Dalbert W
2732 AHammond LeRoy M
2736 ACarter Saml E
2738 AWielligman Clarence H
2744 ALynn Thos I
2748 ABeeson Chester B
Poplar av intersects (not open)
E 28th intersects
2800 AStoutsenberger Ralph W
2806 AHarrison Madae Mrs
2808 Kurtz LeRoy
Todd Lenuel A
AKurtz Geo W
Sudhar Arnold F
2814 AStevens Herbert W
2818 Armiljo Jos R
2820 Vacant
2822 ASparks John C
Brighton av intersects
2830 AFinley Clyde H
2835 AWhite Charles H
2838 ASimpson Jas N
2839 AMarginness Roy L
2840 Simpson Bros Sheet Metal Shop
2842 No return
Quincy av intersects
2845 ASoebery Axel J
2847 AVogt Ernest F
2849 ASwearngin Walter G
2851 ADAde Raymond S
2853 ABoehm Bernard A
2855 AMoad Gailer F
2860 ABenjamin Anthony fruit mkt
Denver av intersects
E 29th intersects
2902 AKincaide Linas
2906 AGordon John
2917 ASnyder Helen
2927 AProvince Geo E
2929 AByfield Milton R
Colorado intersects
E 29th St ter intersects
E 30th intersects (not open)
S Vanbrunt blvd intersects (Not open between S Vanbrunt blvd and E 31st)
E 31st intersects
3100 ACarnahan Frank J gas sta
3111 ACalling Baha
3113 Carnahan Auto & Radio Repair
3129 Meit & Hatton Ice Co
3130 Smithy Boat Works
Freeman Walter wchmn
3132 APeters Walter E
E 32d intersects
E 33d intersects
E 33d St ter intersects (not open)
3330 ADent Lyman
3337 Liberty Tavern
E 34th ends (not open)
E 34th St ter ends
Topping av intersects (not open)
E 35th intersects (not open)
E 36th St ter intersects
3400 AReynolds Jas E
White av intersects
3544 AVermont Drive Inn
3559 Langly Auto Salvage
AMcGuire John W
3600 AMaple's Grocery
3600 1/2 Vacant
3602 AMaple's Pool Hall
3604-AGM/Maple's Feed Store
3616 AGillum Earl A
3618 ATurner Jas P
3620 No return
Wheeler av intersects
Blue River Bridge
E 37th intersects
3701 No return
3707 ALeeds Modern Cabins tourist camp
Eckley Berdie M
E 39th intersects
Winchester av intersects
Parish av intersects
4002 AKrahenbuhl & Son (greenhouse)
4032 AOiles Carl J
E 41st ends
4100 AKleibusch Hattie O Mrs
4102 AKleibusch & Roberts mkt gdnrs
4103 ANquist Hans G
4110 Carey Garland G
4111 AWills Virgil L
ALand David S
City limits
4128 AEgerer Albert F
4130 AGregory Robt M
4132 Alewline Haydon R
4134 AGregory Hubert M
4136 APease Woodrow B
4138 ADodson Wesley B
4140 AWilm Wm T
4141 ALyles Grocery
AThompson Frank E
Axe Harry L
Egbert John P
AThompson Lloyd F
ALyles Dillard E Jr

ASmith Vaughn E
Rocco Ralph
Anderson Carl
ALowry Ira C
AFoster A F
ASeward Francis G
4142 AThompson Alva L
4147 ATadlock Edw C
Thomson Wm H
4148 No return
4149 McMill Bros feed store
4150 Ruterbush Chas W
4200 Kahenbuhl & Son fruit stand
4201 ABurroughs C Kingdon Eastern av intersects
4210 AKC Tuberculosis Hosp
4200 Vacant
4329 ABen's Service Sta
4400 Municipal Animal Shelter
4405 ADuncan Foundry Co
4435 ARock Springs Gardens tavern
4451 Dew Geo
4452 Vacant
4501 AHill Petroleum & Serv Sta
4601 ATea & Pearl's Tavern
Footo Theo
4650 No return
4658 ACook Waldo
Schofield Roscoe
DeGraffenreid Tess
Beils Arth L
4660 ANorman Eldon S
AHarris Verne
4700 AWaldrum Thos S
4701 AMunicipal Farm (city)
AWomans Reformatory (city)
79 REINHARDT DRIVE (Johnson County, Kans.)—From 1/2 blk north of Eastvale rd south to W 63d, 4 east of Shawnee Mission rd (not open between 1/2 blk north of Eastvale rd and W 61st St ter)
W 61st St ter intersects
6119 Hart Kenneth S
6126 ABerg Wm
6136 AElliott R Glenn
6208 ACharlesworth J Firth
6209 ABarben Chas
6215 AOlson Joe
6219 ABrookfield Knox
6220 Vacant
6235 ADuke H B
216 RICHMOND AV—From 7519 E 12th south to Blue River (not open between 1 blk south of E 12th and Blue River)
E 13th ends (not open)
Truman rd intersects
E 16th intersects
E 17th intersects
E 18th intersects
80 ROANOKE DRIVE E — See East Roanoke dr
89 ROANOKE DRIVE W — See West Roanoke dr
89 ROANOKE PARKWAY—From 1500 W 36th south and southeast to Ward pkwy (not open between W 37th and Westport rd)
3600 Coghill Thos J
ASherman Lucile A
3602 ACeas Chas A
Bohrer John W
3604 Anderson Chas W
3606 AJenkins Elmer L
AHouck Roy M
W 37th intersects (Not open between W 37th and Westport rd)
81 Westport rd intersects
Terre intersects
4311 AO'Connor John A
ASmith Harry
ADenman Julia E Mrs
4315 AWennersten Leonard A
AHorn Geo
ALeach Mary P Mrs
AVickers Stewart
4319 AHood Frank J
AMundy Margt Mrs
AFuhrman Arth A
ADierks John W
4325 APorterfield Mildred
AKennedy Edw S
AOlsen Fern K
bsmt ASmith Clarence Jan
4326-28 AApartment
101 AGilmore Kenneth R
102 AHershberger Ray
Wagner Elsa
103 Hudnall Kenneth K
104 Otis M Mrs
105 Vacant
201 Vacant
202 ABarker Margt
203 AMullin Gilbert P
204 APerkins Louise W
205 ABob W E
206 ARolsky Melvin
301 AKennedy Edw S
302 AFerris Lena S Mrs
303 APomrenning Paul A
304 AVerkas Paul M
305 AMcDonald Ethel I Mrs
306 Gordon Faye T Mrs
Street continued

ROANOKE PARKWAY—Contd
4329 ALake Arth W
AWilkerson Frank D
AREilly John J
4333 AFore Maurice E
ASweet Theron J
ASiles Frank E
4340 AGund J Edw
ACottrell Harold L
ABestor John K
ASherman Paul H
AREynolds Herbert E
ABurnham Jack E
ABrooks John A
AHirtz Rafael
APopplewell Virginia L
AHardin Creighton
AShannon Robt E
Weary Robt K
ABrookhouse Walter
AFlinn Wanford L
APeterson Chas F Jr
Mercier intersects
W 44th St ter intersects
4400 ARoanoke Parkway Apts
101 Anderson Chas T
102 ATrippe John M
103 AKieban Sherwood R
104 AYoung Theo phys
105 ASpence Ben A
106 ACarter Donald P
107 Anderson Henry B Jr
108 ABiggs Donald C
201 Vacant
202 AHuxtable Don E
203 AMcKenzie Leslie I
204 ANicholson Paul
205 ABuckland Eskel K
206 ACollins Richd V
207 AWakefield Willis S
208 ABrown Paul
300 Tones Harold J
301 AKrabbe E J
302 AHolloway Jas W
303 ATracy Jos
304 AMoss Luke H
305 ARaydon Rich C
306 AZeitz Edw A
307 ASmull Ned W
308 ADevereux N
bsmt Wagners Thorman jan bsmt Grad Prior Jan
Street continued
4401 ACoe Curtis C
AREitzes Jack
4405 ANast Nathan S Jr
AREissaus C A
AGoldstein Herman
4409 ASher Abbot J
ARinehart Quinn B
AWidmayer Carl F
bsmt AWashington Monroe
4415 ABoeklen Jack A
AKeller Roy
4419 Bailey Cath V Mrs
4420-28 Apartments
101 ALong Ben
102 AWade Fulton V
103 ADuckworth Robt
104 ADarling Albert
105 AKecay C A
106 ABeyer Geo
107 AHamilton J A
108 ABlossom Damon
201 AGarrison Ward S
202 ABingaman Vernon H
203 AGardner John
204 ALoeke Wm G Jr
205 AClay John J
206 AViren Robt
207 ASeward Lawrence
208 AKing Rosa E
301 AKennett Carroll C
302 ASmith Wesley M
303 ABusy Chas S
304 ATPatterson Harley J
305 ATitman Norman D
306 Vacant
307 Cook Chas
308 AWeston Lawrence R
Street continued
4423 AWilson Jas C
AMallins Robt
4433 APot L Jr
AHeddins Barret S Jr
ANygren Geo A
AStiffelman Lester R
4440 Apartments
101 AKewer Wm C
102 AOwen Lester L
103 AGoering John A
104 Brock Donald D
105 ALucas Chas G
106 AForbes Jas B
107 AMcCarty John M
108 APutnam N Devereaux
201 APickering Paul C
202 AMayse Orville G
203 Shea David J
204 AMichelson Arth A
205 ABoydson Richd
206 AKnapp Jas E
207 Wakefield Willis S
208 AWestbrook Frank C Jr
301 AKrabbe Newton J
302 AHolloway Jas W
303 ATracy Jos
304 Yennery Roy
305 AWiggins Geo
306 ANisely Jas M
307 AMaxwell Wm L Jr
308 AGaw Wm
W 45th intersects
Holly intersects
4507 Apartments
1 AHirsch Clarence A
2 ADowling Fenton H
3 AHuckins Junn G
4 AKuhn Philipp
Street continued

APPENDIX H-5

OTHER HISTORICAL DOCUMENTS



Raytown
Road



Raytown
Road.

1922



POOR FARM.



Sni Bar
D.C.

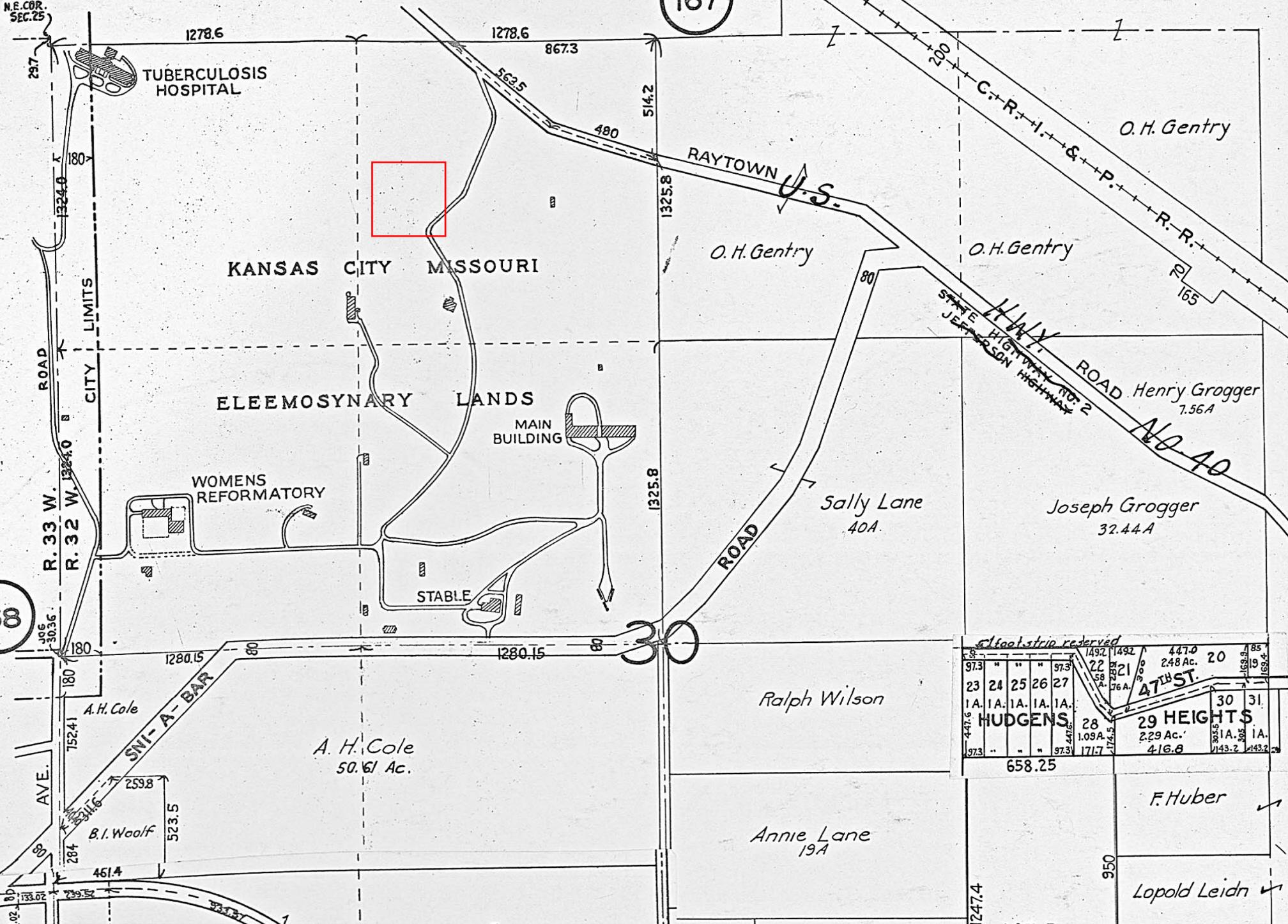
Sni Bar.

1922

167

168

N.E. COR. SEC. 25



5-foot strip reserved

97.3	"	"	97.3	22	149.2	149.2	447.0	20	85.4
23	24	25	26	27	22	221	2.48 AC.	20	169.4
1A.	1A.	1A.	1A.	1A.	7.58	7.56 A.	AT ST.		
HUDGENS								29 HEIGHTS	
447.6	"	"	97.3	28	141.6	171.7	2.29 AC.	30	31
97.3	"	"	97.3	171.7	171.7	171.7	4.16.8	1A.	1A.
658.25								143.2	143.2

N.E. COR. SEC. 25

167

TUBERCULOSIS HOSPITAL

1278.6

1278.6

867.3

562.5

480

514.2

1325.8

RAYTOWN U.S.

O. H. Gentry

O. H. Gentry

KANSAS CITY MISSOURI



ELEEMOSYNARY LANDS

MAIN BUILDING

WOMENS REFORMATORY

STABLE

STATE HIGHWAY NO. 2
JEFFERSON HIGHWAY

Henry Grogger
7.56 A

Joseph Grogger
32.44 A

Sally Lane
40 A

168

ROAD

CITY LIMITS

R. 33 W.

R. 32 W.

ROAD

WOMENS REFORMATORY

MAIN BUILDING

WOMENS REFORMATORY

STABLE

ROAD

1280.15

1280.15

30

Ralph Wilson

A. H. Cole
50.61 Ac.

school strip reserved

97.3	22	1492	447.0	20	85
23	24	25	26	27	28
1A	1A	1A	1A	1A	1A
447.6	1.09 A	28	29	30	31
97.3	171.7	176.5	416.8	143.2	143.2
658.25					

HUDGENS
29 HEIGHTS
47th ST

F. Huber

Annie Lane
19 A

Lopold Leidr

1247.4

950

AVE.

80

253.8

523.5

284

451.4

133.02

239.52

36.727

1947



1947



Rock Island



1945

1945

1955

Kansas City
Tubercular Hospital

Municipal Farm

South Street

Health Methodist Church

126,000E

127E

128E

129E

130E

131E

80N
79N
78N
77N
76N
75,000N

80N
79N
78N
77N
76N
75N

SCALE 1:2400

ONE THOUSAND FOOT GRID BASED ON KANSAS CITY INDEPENDENT GRID SYSTEM
THE LAST THREE DIGITS OF THE GRID NUMBERS ARE OMITTED
CONTOUR INTERVAL 5 FEET
CITY OF KANSAS CITY DATUM

INDEX TO SHEETS

S 72	S 71	S 70
S 83	S 85	S 85
S 96	S 95	S 94

SEC 30-49-32
TOPOGRAPHIC SURVEY
OF
KANSAS CITY, MISSOURI
JACKSON COUNTY (EAST II)
(FROM 35TH STREET TO 83RD STREET)
EDITION OF 1955

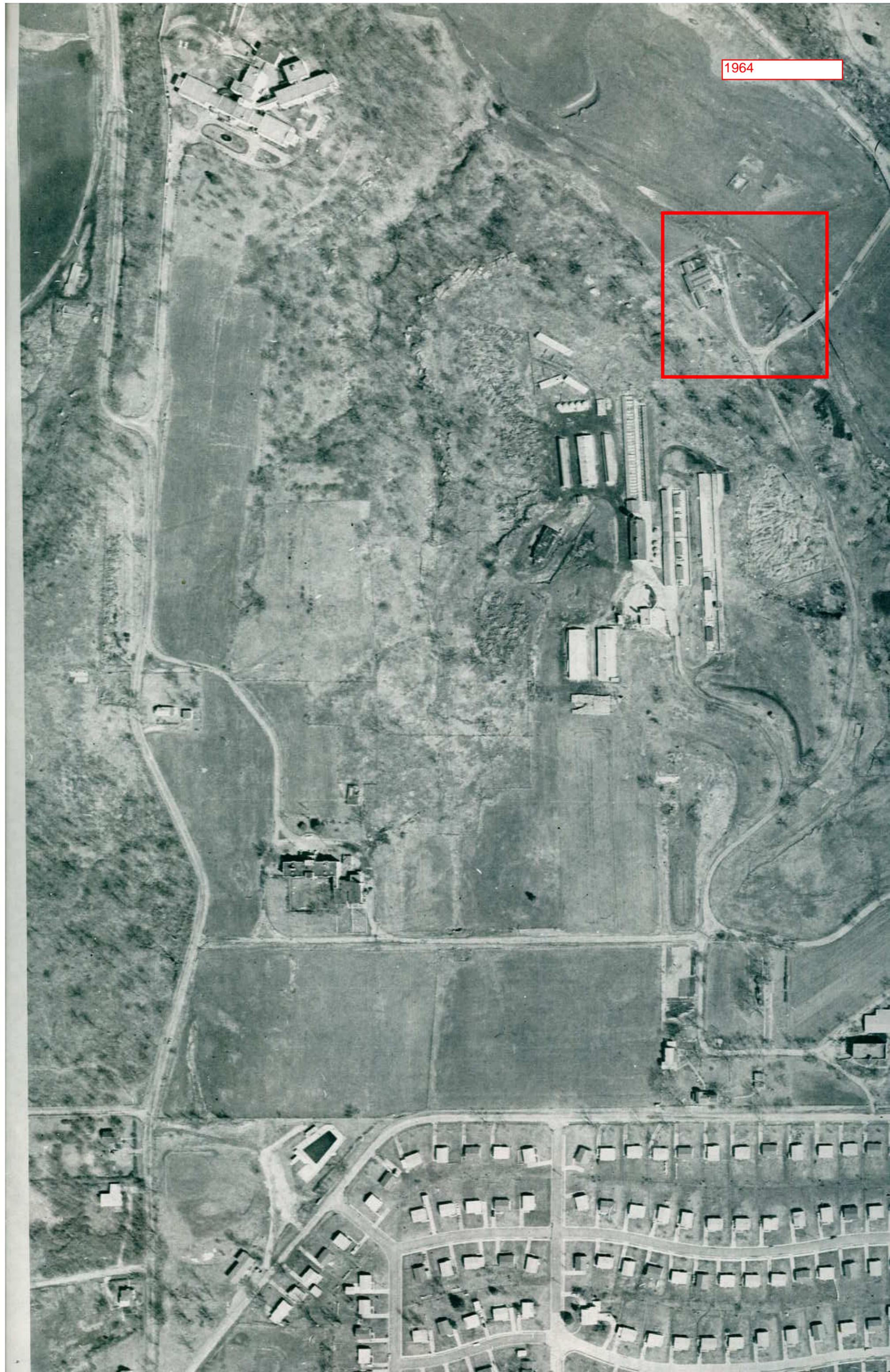
S 84

Compiled by FAIRCHILD
By stereophotogrammetric methods.
Control by U.S.C. & G.S., U.S.G.S., City of
Kansas City and Fairchild Aerial Surveys, Inc.
Photography by F.A.S. dated March 1955.
Grid based on Kansas City Independent Grid System
North American Datum 1927
Project C-21725

1964



1964



1964



1964



1964



1964





1964

1966



VIEW-LOOKING NORTH OVER
MID-POINT OF PROPERTY
(EAST OF I. 425)

ARCH SWELCH
A.C.

1966



VIEW-LOOKING SOUTH FROM
NORTH LINE OF PROPERTY
(ROCK ISLAND & RAYTOWN

ROCK SWELCH
Mo.

1966



TUBERCULOSIS HOSPITAL
LOOKING NORTHEAST FROM
T 1125

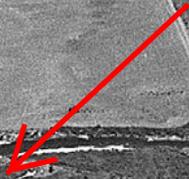
ARCH SWELCH
Mo.

1966



VIEW-LOOKING NORTHEAST
FROM SOUTHWEST CORNER OF
PROPERTY (WEST SIDE OF
T. 12E)

1966



FARM IMPROVEMENTS - CANINE
CORPS HEADQUARTERS
LOOKING NORTH TO RAYTOWN
ROAD

ARCH SWELCH
PHOTOGRAPHER

1966



MEN'S REFORMATORY-LOOKING
NORTH FROM OZARK ROAD.
(THIS AREA NOT INCLUDED
IN APPRAISAL)

ARCH SWELCH
MO.

1966



VIEW-LOOKING WEST FROM
EAST LINE OF PROPERTY
(RAYTOWN ROAD IN LOWER
RIGHT)

1966
Aerial Photo

1966



VIEW-LOOKING NORTHWEST
OVER EAST EDGE OF PROJECT

FROM

1966



VIEW-LOOKING NORTHWEST
FROM SOUTHEAST CORNER
OF PROPERTY

1966



VIEW-LOOKING EAST FROM
WEST OF VALLEY (K.C.)
SOUTHERN R.R. & I-435
IN POTTSVILLE

ARCH SWELCH
1966

1966



VIEW-LOOKING SOUTHEAST
FROM NORTHWEST (WEST SIDE
OF I. 425)

ARCH SWELCH
MO.

APPENDIX I

RESUMES



Kaitlyn Bahr
Environmental Scientist
Tetra Tech EM Inc.

PROFESSIONAL EXPERIENCE

Ms. Bahr is an Environmental Scientist, with a wide range of experience. She has significant experience in dealing with hazardous materials, specifically asbestos and lead based paint. She has conducted multiple hazardous materials surveys, varying in size and scope. She also has Phase I and II ESA experience. She is trained as an emergency responder for the EPA.

Some examples of relevant project experience are as follows:

- Phase I Environmental Site Assessment, Verizon Wireless, – Ms. Bahr has completed Phase I ESA, which included an on-site assessment followed by a detailed records review of the site. Environmental risk was identified followed by determination if further sampling was recommended.
- Phase II Environmental Site Assessment, RCRA Enforcement Permitting and Assistance, – Ms. Bahr conducted site assessment of soil and groundwater to determine the extent of contamination for multiple industrial facilities in Nebraska and Kansas.
- Phase II Environmental Site Assessment, EPA Region 7 START Contract, – Ms. Bahr conducted site assessment of soil to determine the extent of lead contamination for areas in the state of Missouri where previous lead mining activities occurred. Samples were taken from schools throughout two counties.
- Hazardous Materials Survey, City of Cedar Rapids, Cedar Rapids, IA Phases I and II – Ms. Bahr is licensed in the state of Iowa as an asbestos inspector. Ms. Bahr is a member of the team and is responsible for the following tasks: hazardous materials survey report preparation and upload to a Share Point website; close-out post remediation report preparation, organization and filling of all field sheets, lab results, and sample chain of custodies; conducted sample result interpretation; and finally development of all files and field sheets needed for the oversight of the remediation of the hazardous materials in the homes prior to their demolition.
- Former Missouri State Prison, Targeted Brownfields Assessment – Jefferson City, MO, Ms. Bahr is licensed in the state of Missouri as an asbestos inspector. She acted as the field project manager for the contract. Ms. Bahr led a team that completed a full hazardous materials inspection on the approximately 745,000 square foot 40 building complex. The inspection started with a Phase I ESA, followed by a full asbestos, lead based paint and mold inspection. Potentially PCB containing caulking was sampled along with an inventory and categorization of all household hazardous waste in the buildings was completed. Ms. Bahr wrote and reviewed sections of the final deliverables required for the contract.

EMPLOYMENT HISTORY

2010-Present	Tetra Tech, Inc. 415 Oak Street Kansas City, MO 64106
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EDUCATION

B.S, Environmental Studies, University of Kansas, 2010

Minor, Physical Geography, University of Kansas, 2010

40-hour Occupational Safety and Health Administration (OSHA) Health and Safety for Hazardous Waste Operations

CERTIFICATIONS

40-hour Occupational Safety and Health Administration (OSHA) Health and Safety for Hazardous Waste Operations, Certified 1999, with refreshers

2010, AHERA Asbestos Inspector Training

Current AHERA Asbestos Inspector Certification for the State of Iowa and Missouri.



Stephanie L. Luebbering
Environmental Scientist
Tetra Tech EM Inc.

PROFESSIONAL EXPERIENCE

Ms. Luebbering has a master's degree in environmental science, more than 8 years of consulting experience, and possesses a variety of skills and relevant professional experience.

Verizon Wireless Environmental Services

Ms. Luebbering currently serves as a regional program manager for Tetra Tech's Nationwide Service Agreement with Verizon Wireless Inc. and its legacy companies (i.e., Air Touch Cellular). In this capacity, Ms. Luebbering manages technical, administrative, and financial aspects of Verizon Wireless projects performed in five midwestern states. Contract projects include Phase I Environmental Site Assessments (ESAs); limited site investigations; Phase II ESAs; site remediation services; pollution prevention planning; worker health and industrial hygiene surveys; National Environmental Policy Act (NEPA) summary reports, including NEPA Categorical Exclusion checklists, wetland delineations, and biological evaluations; archaeological surveys; historic property or area surveys; and air permitting. Ms. Luebbering's management responsibilities include maintaining relationships with Verizon Wireless regional real estate managers and attorneys, network engineers, site acquisition consultants, state agencies (U.S. Fish and Wildlife Service, State Historic Preservation Office [SHPO], state conservation agencies), tribal entities, and citizens identified through public involvement.

Because construction of cellular communication towers are federally regulated project by the Federal Communications Commission (FCC), new cellular towers and certain collocations project are subject to Section 106 consultation in accordance with the Advisory Council on Historic Preservation – 36 CFR 800 – and the Nationwide Programmatic Agreement for Review of Effects on Historic Properties for Certain Undertakings. Ms. Luebbering has successfully facilitated Section 106 reviews of over 50 cellular projects through consultations with State Historic Preservation Officers for identification of direct of visual effects those projects may impose on historic properties or resources.

As part of the NEPA process completed for the proposed cellular tower located in the Old Mines area in Missouri, HPO identified six properties located within the area of potential effects (APE) as eligible for listing on the National Register of Historic Places (NRHP). The SHPO determined the proposed activities would have an adverse effect on the eligible properties and recommended the preparation of a Memorandum of Agreement to document the agreed upon mitigation of the adverse effects. The agreed upon mitigation included preparation of an historic context study using the National Park Service standards of the Old Mines community with an emphasis on the exiting resources to identify significant historic patterns. The Environmental Assessment prepared for the STLP Old Mines site requested that a Findings of No Significant Impact should be granted by the FCC since licensing the proposed cellular tower would not cause a significant impact to the historic properties eligible for listing or listed on the NRHP.

Tenant Audits – Ms. Luebbering has also performed tenant environmental reviews at 10 properties in the Kansas City area. The purpose of the environmental reviews were to provide assistance to the property owner in evaluating and minimizing potential adverse effects to the property that could result from the presence, use, handling, and storage of hazardous substances by the tenants. During the environmental reviews, a data form was completed for each tenant, and certain observations were recorded. Based on the observations and Ms. Luebbering's judgment, conditions and concerns were identified and reported. In addition, if anomalous conditions were observed that may relate to hazardous substances, or in Tetra Tech's judgment could, in the future, become a condition that could impact the property, these were reported.

Section 128(a) Assessment – Phase I Investigation – For the Nebraska Department of Environmental Quality (NDEQ), Ms. Luebbering conducted an extensive Phase I Section 128(a) Environmental Site Assessment at PCS Nitrogen, an eligible Brownfields site. The site is a former nitrogen fertilizer manufacturing facility that is currently being demolished and the property is slated for redevelopment. Ms. Luebbering’s responsibility for the Phase I Section 128(a) ESA included assessing potential RECs, writing a report providing conclusions regarding potential RECs and recommendations for further work. This project included interpretation of an Environmental Data Resources database report, historical aerials, historic topographic maps, city directory and county assessor information. She also conducted a file review at the NDEQ and EPA in order to research the historical use of the property and potential contamination sources on the site and from adjacent properties.

On behalf of NDEQ, Ms. Luebbering collected samples from private and public water supply wells located in the vicinity of the former PCS Nitrogen site. In addition, Tetra Tech prepared a report to summarize existing groundwater monitoring data, water quality, and groundwater flow direction in the area of the former PCS Nitrogen site. Maps were prepared to identify all the known private and public water supply wells and conclusions on whether the PCS Nitrogen site would or could impact the wells were concluded using groundwater elevation data from the existing monitoring wells located at PCS Nitrogen.

Section 128(a) Assessment - Phase II Investigation – Ms. Luebbering prepared a work plan, cost estimates, and sampling plan for the Section 128(a) Phase II Investigation at the Atlanta Elevator, Inc. site on behalf of NDEQ. The site is a vacant agricultural chemical distribution/mixing building. The purpose of the Phase II Investigation was to evaluate the presence of hazardous and/or toxic materials at the site. The Phase II activities included surveying the property boundaries, collecting samples from the buried tanker, from the aboveground storage tanks formerly used at the site, on-site soil samples, and on and off-site groundwater samples. A Section 128(a) Assessment Phase II report was prepared along with a Brownfields Property Profile Form.

Air Pollution Construction and Operating Permits, Polk County Iowa – Polk County, Iowa requires facilities that will have air emitting equipment such as an emergency generator to obtain a construction and operating permit from the Polk County Public Works Air Quality Division. Ms. Luebbering has prepared permit applications and obtained the permits for numerous private telecommunication towers proposed to be located in Polk County, Iowa.

Resource Conservation and Recovery Act (RCRA) – For the Environmental Protection Agency (EPA), Ms. Luebbering has conducted numerous inspection, evaluations, and assessments. Ms. Luebbering has completed several environmental indicator (EI) reports for facilities in Kansas and Missouri. EI evaluations measure a RCRA corrective action facility’s progress toward controlling human exposure and contamination migration. She has also conducted Compliance Evaluation Inspections (CEI) at more than 30 facilities and Compliance Assistance Visits (CAV) at more than 50 junior high and high schools across Iowa. During the course of CEIs and CAVs, Ms. Luebbering interviewed owners, operators, and facility representatives; observed and documented facility operations, with a focus on waste management practices; and prepared reports of potential violations for EPA review.

Hazard Ranking – Ms. Luebbering has prepared a Hazard Ranking Score document record for a former former cast piston manufacturer facility in Nebraska and a former lead and barium mining area in Missouri. She collected and assessed a range of related documents, including previous EPA and state assessments, private evaluations sponsored by the facility, and discovery documents generated by potential responsible parties; wrote descriptions of the nature and extent of contamination and quantified the number of targets and the intensity of their exposure; and calculated a preliminary hazard ranking score. Ms. Luebbering also prepared a hazard ranking assessment for the Richwoods Area 10 in Washington County, Missouri a former mining district for inclusion on the National Priorities List. The assessment included collection and

assessment of a range of related documents, including previous EPA and Missouri Department of Natural Resources mining documents and well logs, and interpretation of analytical data collected from the site groundwater, soil, and source areas. A description of the nature and extent of contamination and quantified the number of targets and the intensity of their exposure was determined, and a preliminary hazard ranking score was calculated.

Preliminary Assessments and Site Investigations: Ms. Luebbering has also conducted numerous preliminary assessments and site investigations and inspections for the EPA in Iowa, Kansas, and Nebraska. Ms. Luebbering has supervised Geoprobe crews; collected soil and groundwater samples from Geoprobe sample points and groundwater samples from drinking water wells; collected access agreements from property owners; and interpreted analytical results and other documentation to develop recommendations for future action.

National Environmental Policy Act – Under the 1969 National Environmental Policy Act (NEPA), any federally-funded project required a study to determine the impact on the surrounding environment prior to its inception. General Services Administration (GSA) was disposing of the real property at the National Imagery and Mapping Agency site in St. Louis, Missouri. As part of the disposal process, GSA must prepare an Environmental Assessment (EA) to identify the affected environment and the potential environmental consequences of the federal action of the property transaction. Ms. Luebbering researched the affected environment and the environmental consequences of the proposed federal action and, with the Tetra Tech EM Inc. team, prepared the EA for public notice.

EMPLOYMENT HISTORY

2005 to present – Tetra Tech EM Inc., Environmental Scientist, Kansas City, Missouri

2001 to 2004 – Buchart Horn, Inc., Environmental Scientist, York, Pennsylvania

EDUCATION

M.S., Environmental Studies, Medical University of South Carolina/University of Charleston, Charleston, SC, 2001

B.A., Environmental Science and Biology, Monmouth College, Monmouth, IL, 1999

CERTIFICATIONS/TRAINING

Certified Hazardous Materials Manager

40-hour Occupational Safety and Health Administration (OSHA) Health and Safety for Hazardous Waste Operations

The American Heart Association CPR/AED/First Aid Certification

EPA Introductory Preliminary Assessment and Site Inspection Training, April 2005

EPA Refrigerant Compliance Management Training

Hazard Ranking System Training Course

Environmental Management Systems Workshop

Radio Frequency Safety Training

Spill Prevention Control & Countermeasures Training

MEMBERSHIPS

Local Chapter of Certified Hazardous Materials Managers