



January 16, 2014

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

**Subject: Phase I Targeted Brownfields Assessment
Kansas City Missouri Public Works East Garage Site
Kansas City, Jackson County, Missouri
EPA Region 7, START 4, Contract No. EP-S7-13-06, Task Order No. 0002.019.001
Task Monitor: Todd Davis, Site Assessment Manager**

Dear Mr. Davis:

Tetra Tech, Inc. is submitting the enclosed Phase I Targeted Brownfields Assessment (TBA) report regarding the Kansas City Missouri Public Works East Garage site, encompassing 4635 East Coal Mine Road and 4725 East Coal Mine Road, in Kansas City, Jackson County, 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 contact the Project Manager, Kumud Pyakuryal, at (816) 412-1778.

Sincerely,

A handwritten signature in black ink, appearing to read 'Kumud Pyakuryal', written over a horizontal line.

Kumud Pyakuryal
START Project Manager

A handwritten signature in blue ink, appearing to read 'Ted Faile', written over a horizontal line.

Ted Faile, PG, CHMM
START Program Manager

Enclosures

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

PHASE I TARGETED BROWNFIELDS ASSESSMENT
KANSAS CITY MISSOURI PUBLIC WORKS EAST GARAGE SITE
KANSAS CITY, JACKSON COUNTY, MISSOURI

Superfund Technical Assessment and Response Team (START) 4

Contract No. EP-S7-13-06, Task Order No. 0002.019.001

Prepared For:

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

January 16, 2014

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EXECUTIVE SUMMARY

The Tetra Tech, Inc. (Tetra Tech) 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 Kansas City Missouri Public Works East Garage site, encompassing 4635 East Coal Mine Road and 4725 East Coal Mine Road, in Kansas City, Jackson County, Missouri; this site is also referred to as Municipal Farm Area 7 in its Conceptual Land Use Plan. The Department of City Planning and Development of Kansas City, Missouri requested assistance from EPA Region 7 for assessing current environmental conditions at the site with intent to create a permanent farm location for a non-profit youth agricultural program to grow produce for harvest and production of food products to be sold in local groceries and markets. 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) (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 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 encompasses approximately 14.5 acres of land. The subject property includes forestland, grasslands, and an access road. Developed facilities operated by the City share these addresses on East Coal Mine Road, but are not proposed for redevelopment and are not part of the subject property. This assessment revealed RECs in connection with the subject property.

This Phase I TBA is based primarily on a review of available public records that led to the following findings and opinions, including identification of RECs to the subject property:

- Several 1-quart petroleum containers were observed around the subject property. An empty 5-gallon bucket and automobile-related trash were observed along the driveway, on the subject property. Although no staining was observed around the drums, because the original contents are unknown, and because materials from any of the containers may have leaked onto the ground, presence of these containers presents an environmental concern.
- Review of historical aerial photographs and site documents provided by the City of Kansas City confirmed presence of a landfill area that has since been re-vegetated. According to Mr. Bracker at the City of Kansas City, the subject property was used for agricultural purposes. However, a portion of it served as a landfill between 1991 and 1995 to receive sediments dredged from the

Blue River near the former American Rolling Mill Company (ARMCO) steel plant. The application also indicated that the sediments contained total recoverable petroleum hydrocarbons at concentrations ranging from 50 to at least 200 parts per million (ppm) and possibly up to 500 to 1,000 ppm. A 2-foot clay soil cover was placed over the landfill. Although no discernable evidence of the landfill was present during the site reconnaissance, historical aerial photographs from the early- to mid-1990s show the distressed areas associated the landfill. No actual analytical data packages were available for review during this Phase I.

- At the time of the reconnaissance, solid waste and debris consisting of tires, electronics, organic waste, and general solid waste items were observed on the subject property. This area of solid waste storage presents an environmental concern.
- Two 10,000-gallon aboveground storage tanks (AST) were observed west of the subject property in the Public Works facilities. Because the contents of the ASTs could be hazardous, presence of the ASTs poses an environmental concern to the subject property.

START recommends the following:

- Removal from the subject property and proper disposal of empty 1-quart and 5-gallon containers. START also recommends removal of solid waste observed at multiple locations at the subject property.

According to accepted practices, no official judgment about levels or extent of contamination associated with any site can occur without reference to results of an environmental investigation that includes sampling and chemical analysis. For this reason, START recommends a Phase II TBA at the subject property to determine if contamination is present there:

- To assess the subject property for presence of contaminants based on historical uses of the subject property, START proposes collection of surface and subsurface soil samples for laboratory analysis. The samples would be analyzed for polychlorinated biphenyls (PCB), volatile organic compounds (VOC), semivolatile organic compounds (SVOC), the eight Resource Conservation and Recovery Act (RCRA) metals, total petroleum hydrocarbons (TPH)-diesel range organics (DRO), TPH-gasoline range organics (GRO), and TPH-oil range organics (ORO). START proposes to collect subsurface soil and groundwater samples to a depth of 20 feet below ground surface (bgs) at two locations at the former ARMCO landfill area within the northern portion of the subject property discussed in Table 6-3 (aerial photograph from 1995). In addition, two temporary monitoring wells should be installed, and the groundwater should be sampled for the same analytes as the soils samples; filtered and unfiltered groundwater samples should be collected for analyses for RCRA metals.
- START proposes collection of at least two sediment and surface water samples within the agricultural sub-area on the southern portion of the subject property. The samples should be analyzed for herbicides and pesticides.
- START proposes to collect a soil sample at the subject property to classify the soil type based on grain size. This 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 found at the subject property.

1.0 INTRODUCTION

The Tetra Tech, 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 Kansas City Missouri Public Works East Garage site at 4635 East Coal Mine Road and 4725 East Coal Mine Road, in Kansas City, Jackson County, Missouri; this site is also referred to as Municipal Farm Conceptual Land Use Plan (CLUP) Area 7 (subject property). The site is divided into east and west plots by an improved road used to access the existing Botts Radio Communications Towers to the south. Much of the site is wooded. The City requested assessment assistance under the TBA program from EPA Region 7 to assess current environmental conditions at the subject property prior to future redevelopment. The Conceptual Land Use Plan (CLUP) developed for the Municipal Farm site indicates that this site could support landscape, or wetland and habitat restoration. Given the physiography, location, and acreage of this area, a productive landscape will likely maximize economic growth, environmental stewardship, and amenities that create opportunities to support human physical fitness, education, and research (Appendix C).

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) (40 *Code of Federal Regulations* [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 identify the nature of contamination and the risks posed by the contamination, if present (see Appendix A).

For the purpose of this TBA, the subject property is defined as an approximately 14.5-acre area that was formerly used for agricultural purposes.

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 occur at the Kansas City Missouri East Garage site. 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.

- After inspection of parcels and discussion with the City, the subject property was determined to be only the area identified on Figure 2. The remainder of the area associated with 4635 East Coal Mine Road and 4725 East Coal Mine Road is not included in the subject property investigated under this Phase I TBA.
- Time gaps of more than 5 years were noted in available historical information. Based on the consistent, observed use of the subject property as primarily unimproved agricultural cropland 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; it should be noted that a portion of the subject property was used as a landfill between 1991 and 1995, which was corroborated by available aerial photographs from that time period.
- 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 primarily unimproved agricultural cropland 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 acquired 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 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 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 and 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 encompasses approximately 14.5 acres of land associated with the street addresses of 4725 and 4635 East Coal Mine Road in Kansas City, Jackson County, Missouri (see Figure 1, Appendix B), currently owned by the City. The subject property encompasses three whole City parcels (I, II, and III, see below) and approximately 7 acres of undeveloped land at the southwest corner of Parcel IV. According to the City of Kansas City, Missouri KC Mapper website, legal descriptions of the parcels included in the subject property are as follows (City 2013 and Appendix C):

Parcel I – JA31620040200000000

SEC 25-49-33 S1/2 NW1/4 ALL TH PT OF NW 1/4 SE 1/4 25-49-33 LY S OF K C S RY (EX PT DAF: BEG AT SW COR NW 1/4 TH N 514' TH E 332' TH SELY 1000' MOL TO A PT 15' N OF S LI OF E LI OF W 1/4 SD 1/4 SEC TH S 15' TH W 1315' TO POB)

Parcel II – JA31610060200000000

SEC 25-49-33 NW1/4 NE1/4 BEG 1115' S OF NW COR NE TH E 1475' TH N 18' TH NWLY 350'P/M TO SPUR TRACK TH CONT NWLY ALG SD SPUR TO SLY LI KCS RY TH SWLY ALG SD LI TO W LI OF 1/4 SEC TH S 310' TO BEG Parcel III - JA31620040300000000

Parcel III

SEC 25-49-33 SW1/4 NE1/4 BEG 935.22' N OF SW COR OF NE 1/4 TH N 615.78' TH E 1485' TH S 615.78' TH W 1485' TO POB.

The subject property is depicted on the United States Geological Survey (USGS) 7.5-minute series Kansas City, Missouri topographic quadrangle map (USGS 1996) in northern ½ of Section 25, Township 49 north, Range 33 west (see Figure 1, Appendix B). The coordinates at the approximate center of the property are 39° 2' 33.36" north latitude and 94° 30' 29.52" west longitude (Google Earth 2013).

2.2 SITE AND VICINITY GENERAL CHARACTERISTICS

As described in Section 2.1, the subject property encompasses approximately 14.5 acres south of East Coal Mine Road in Kansas City, Missouri. It was formerly used for agricultural purposes. However, according to the information included in the TBA application form, a 3- to 5-acre landfill constructed around 1991-1995 on the subject property received sediments dredged from the Blue River near the former ARMCO steel plant; after placement of those sediments, the landfill was covered with 2 feet of clay soil. The subject property is bounded north by East Coal Mine Road and divided into east and west plots by an unimproved road used to access the existing Botts Radio Communications Towers south of the subject property. A pond and lagoon, respectively, border the eastern and western boundaries of the subject property.

2.3 CURRENT AND PAST USES OF THE SITE

The subject property includes lightly forested land and former agricultural land, with an unimproved driveway extending southward from East Coal Mine Road. According to the Brownfields application completed by the City, the subject property was used for agricultural purposes between the 1940s and 1970s. In addition, the application states that a 3- to 5-acre landfill constructed around 1991-1995 on the subject property received sediments dredged from the Blue River near the former ARMCO steel plant; after placement of those sediments, the landfill was covered with 2 feet of clay soil.

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

As described in Section 2.3, the subject property includes lightly forested land and agricultural land, with an unimproved driveway extending southward from East Coal Mine Road. Although a locked gate and concrete blocks restrict vehicular access to the property, no fence or barriers currently limit access to the property by individuals (see Appendix B, Figure 2).

2.5 CURRENT AND PAST USES OF ADJOINING/SURROUNDING PROPERTIES

The subject property is bounded north by East Coal Mine Road, with the Blue River beyond; east by a lagoon, with forestland and open lands beyond; south by the Botts Radio communication towers; and west by an unnamed pond. No known information indicates use of the lagoon as a surface impoundment to store waste materials. A review of historical documents indicated that the area surrounding the subject property has been used for a variety of residential and municipal purposes (see Section 6.2 for detailed information).

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 ranges from approximately 760 to 860 feet amsl. The subject property consists of relatively even terrain, with the highest location over the area of land near the northern portion of the subject property, next to East Coal Mine Road. However, area topography generally slopes west and north toward the Blue River in the site area.

2.6.2 Geologic Setting

Soils on the subject property are of Snead-Menfro-Oska association. This association consists of strongly dissected uplands that are adjacent to the flood plains of intermediate and small streams, with plenty of rock outcrops. It makes up about 20 percent of Jackson County and is about 32 percent Snead soils, 25 percent Menfro soils, 11 percent Oska soils, and 32 percent soils of minor extent (USDA 1984).

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). Maximum thicknesses of 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). According to the user-provided information in the area-wide Brownfields sustainable reuse plan, although the subject property is close to major utility lines, future water demands should be determined to indicate whether the 8-inch line feeding the nearby Public Works Facility and Lift Station can be extended for future needs within the subject property. Nearby water supplied by the City of Kansas City, Missouri, Water Department 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 (1 to 15 gallons per minute [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. 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 to a few hundred gpm. The water quality is 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 also 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 one state database well within 1 mile of the subject property by searching state and USGS database listings. The reported total depths of the wells ranged from 615 to 652 feet below ground surface (bgs);

total depth of the second USGS well was not reported. Static water levels at the wells were not provided, and EDR extracted no data on groundwater flow and velocity (EDR 2013a). In the absence of site-specific data or other indicators, the direction of groundwater flow may be inferred from the regional topographic gradient. Therefore, the deeper groundwater flow is inferred to the north in the direction of the topographic gradient and surface water flow toward the Blue River (see Appendix A, Figure 2) The lagoon and pond east and west of the subject property, respectively, may also capture some shallow groundwater infiltration at the subject property.

2.6.4 Hydrology

Based on the USGS map, surface water on the subject property appears to follow surface topography and either infiltrates the ground or flows east (toward the lagoon) or west (toward the pond). The northern boundary of the subject property is topographically only about 40 feet higher than the 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 for Area 7, which includes land use maps for the subject property (see Appendix C). The City also provided a proposal document from the non-profit organization that is interested in using the property for a functional farm and educational platform for youth (Appendix C).

3.2 SUMMARY OF TITLE INFORMATION

According to the Brownfields application, the subject property is owned by the City, and was obtained in various parcels between circa 1925 through 1957 with annexation of county eleemosynary lands. .

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 Brownfields application, the subject property is owned by Kansas City, Missouri. Therefore, no environmental liens or AULs are assumed.

3.4 SPECIALIZED KNOWLEDGE

According to the Environmental Advisors and Engineers (EAE) Area-Wide Brownfields Plan (AWBP) (EAE 2012), the subject property operated as a site receiving waste from the former ARMCO Steel Plant, and a former agricultural area. A communications tower field is adjacent and south of the subject property. Although no known sampling has occurred at the subject property, the AWBP communicated suspicion that metals, PCBs, petroleum-related, and other unknown contamination may be present there. No other structures or improvements are known present or have been observed on the subject property.

3.5 OWNER, SITE MANAGER, AND OCCUPANT INFORMATION

The subject property is owned by the City. Currently the subject property is vacant and unimproved, except for the unpaved road extending south from East Coal Mine Road into the Botts Radio Communications Towers to the south.

3.6 REASON FOR PERFORMING PHASE I TBA

This TBA was requested by EPA to provide an environmental assessment of the portion of the 4635 and 4725 East Coal Mine Road properties desired by a non-profit youth agricultural program as a permanent farm to grow produce for harvest and production of food products to be sold in local groceries and markets. Intent of this TBA is to assess the subject property to promote 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. This TBA intends to satisfy one requirement for the innocent landowner defense to CERCLA liability: 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 members Mr. Kumud Pyakuryal and Mr. Bryant Merriman conducted the site reconnaissance on December 12, 2013. Photographic documentation from the site reconnaissance is included in Appendix D.

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), USTs, 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 for the subject property are summarized 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 includes forestland, open grasslands, and an access road. No improvements exist on the subject property. Abandoned personal items such as clothing and footwear were observed during the START site reconnaissance on December 12, 2013. Solid waste and debris consisting of tires, electronics, an empty 55-gallon drum, general metal and plastic containers, and general solid waste items were observed east of the access road, on the subject property. A lagoon and pond border the east and west of the subject property, respectively. Between five and 10 communication towers are present on the adjacent Botts Radio Communications Towers to the south. Appendix D includes a photographic documentation record from the site reconnaissance.

4.2.2 Exterior Observations

The subject property includes forestland, expansive grasslands, and an access road. The site is accessible via East Coal Mine Road. A gate and jersey barriers currently limit vehicular access to the property.

4.2.3 Interior Observations

No buildings are present on the subject property; therefore, no interior observations were made

4.3 SPECIFIC RECONNAISSANCE ITEMS

The following sections are related to items observed during reconnaissance.

4.3.1 Hazardous Substances and Petroleum Products

Several 1-quart petroleum containers were observed around the subject property. An empty 5-gallon bucket and automobile-related trash were observed along the driveway, on the subject property (see Appendix D). However, no evidence of staining was observed around the trash. Two approximately

10,000-gallon tanks were observed on the adjacent property to the west (see Appendix D, Photograph 8). A few transformer or relay boxes were observed on the subject property (Appendix D, Photograph 9). They appeared new and in good condition. Because materials from any of the containers may have leaked onto the ground, presence of the petroleum containers and drums poses a REC to the subject property.

4.3.2 Hazardous Waste

No evidence of storage or discharge of hazardous waste was noted on the subject property.

4.3.3 Landfills, Dumps, Burials, or Solid Waste Disposal

Solid waste and debris consisting of tires, electronics, an empty 55-gallon drum, general metal and plastic containers, and general solid waste items were observed east of the access road, on the subject property (see Appendix D). At the time of the reconnaissance, it appeared the solid waste and debris had been at this location for an extended period of time. This area of solid waste storage poses a REC to the subject property based on the type of materials observed and due to limited information regarding frequency of this type of disposal in this area. No clear demarcation was evident of the earlier discussed ARMCO fill site next to the pond. However, close review of aerial photographs from early- to mid-1990s indicated a distressed area that appeared to be the ARMCO landfill, immediately south of East Coal Mine Road 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 on the subject property during the site reconnaissance.

Aboveground Storage Tanks

No ASTs were observed on the subject property. However, two approximately 10,000-gallon ASTs were observed on the adjacent property to the west. The ASTs appeared to be in use and maintained. Because fuel or some other hazardous substance could be present in the ASTs, their presence poses an environmental concern to the subject property. No other 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

Two high-voltage transformers were observed on the southwestern portion of the subject property. The transformers did not have any placards indicating absence of PCBs. No leaks were noted on the observed transformers, and these generally appeared to be in good condition. Presence of these transformers does not pose a REC to the subject property.

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

No heating, ventilation, or air conditioning systems were observed on the subject property at the time of the reconnaissance.

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.

4.3.8 Pits, Ponds, and Lagoons

Figure 2 in Appendix B is a recent aerial photograph of the site. The earliest available historical aerial photograph (1955) shows presence of a lagoon and pond to the east and west, respectively, of the subject property. During the site reconnaissance, aside from presence of these, no other pits, ponds, lagoons, or open pools were observed on the subject property.

4.3.9 Stains or Corrosion and Stained Soil or Pavement

No pronounced staining was observed at the subject property on the soil. No paved areas are present on the property.

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

No significant dead/distressed vegetation was observed on the subject property. Any minor distressed vegetation may have resulted from fire started by transients to keep warm. Presence of the dead/distressed vegetation does not pose a REC to the subject property.

4.3.11 Possible Fill, Grading, or Solid Waste Disposal

Solid waste and debris consisting of tires, electronics, an empty 55-gallon drum, general metal and plastic containers, and general solid waste items were observed east of the access road, on the subject property (see Appendix D).

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

No wastewater systems or discharges were observed on 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

Based on the U.S. Fish and Wildlife Service (USFWS) National Wetland Inventory (NWI) map, freshwater emergent wetland (PEMC) and palustrine forested wetland (PF01A) are present on the eastern and western boundaries of the subject property; in addition, a palustrine unconsolidated bottom (PUBGh) is present on the northeastern border of the subject property, on the north side of the lagoon (USFWS 2013).

4.4 VICINITY RECONNAISSANCE

The subject property is bounded north by East Coal Mine Road and divided into east and west plots by an unimproved road used to access the existing Botts Radio Communications Towers to the south. A pond and lagoon, respectively, border the eastern and western boundaries of the subject property. Buildings and a salt storage facility used by the City of Kansas City are farther west of the pond.

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.

5.1 INTERVIEW WITH OWNER

The subject property is owned by the City. START interviewed Andrew Bracker, City Planning and Development Department Brownfields Coordinator, to determine past and current uses of the subject property. According to Mr. Bracker, the subject property was used for agricultural purposes; he also referred to the information included in the application form regarding landfilling of sediments on the subject property. The sediments were reportedly dredged from the Blue River near the former ARMCO steel plant between 1991 and 1995, and placed on the subject property in the area immediately south of East Coal Mine Road (EDR 2013c). The application also indicated that the landfilled sediments had contained total recoverable petroleum hydrocarbons at concentrations ranging from 50 to at least 200 parts per million (ppm) and possibly up to 500 to 1,000 ppm. A 2-foot clay soil cover was placed over the landfill. No discernable evidence of the landfill was observed during the site reconnaissance. Based on information in site-related documents provided by Mr. Bracker, the subject property is desired by a non-profit youth agricultural program as a permanent farm to grow produce for harvest and production of food products to be sold in local groceries and markets.

5.2 INTERVIEWS WITH KEY SITE MANAGER

No site manager was interviewed, as no operation currently occurs on the subject property.

5.3 INTERVIEWS WITH CURRENT OCCUPANTS

No current occupants were interviewed, as the subject property is currently unoccupied except for its use as an access road to the communication towers to the south.

5.4 INTERVIEWS WITH PAST SITE OWNERS/OCCUPANTS

The City of Kansas City has been the owner of the entire subject property since the 1950s; according to the Brownfields application, parcels associated with the subject property were obtained by the City between 1925 and 1957. Information regarding the subject property is in Section 5.1 above.

5.5 INTERVIEWS WITH LOCAL/STATE GOVERNMENT OFFICIALS

At the local level, START interviewed Mr. Bracker, as described above. The City requested of EPA an additional investigation and sampling of the subject property to assess current site conditions. That investigation will occur subsequent to this report of Phase I findings.

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 2013a). A copy of this report is included as Appendix F.

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 F).

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 F.

The facilities cited in the environmental database are summarized on Table 6-1. EDR identified five database listings for the address (4725 Coal Mine Road) associated with the subject property. However, because EDR uses the street address to identify the subject property, only five of the 10 listings are actually related to the subject property. The other six are associated with the City Public Works facilities. An additional 20 database listings were identified as “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 Listings within Search Distance
Federal Records			
RCRA-CESQG	0.25	Yes	0
State and Local Records			
SHWS	1.00	No	1
SMARS	1.00	No	1
LUST	0.50	Yes	0
UST	0.25	Yes	0
FINDS	TP	Yes (2 listings)	0
Total Number of Database Listings *			6

Notes:

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

CESQG Conditionally Exempt Small Quantity Generator
 FINDS Facility Index System/Facility Registry System
 LUST Leaking Underground Storage Tank
 RCRA Resource Conservation and Recovery Act
 SHWS State Hazardous Waste Site
 SMARS Site Management and Reporting System
 TP Target Property
 UST Underground Storage Tank

START reviewed the facilities listed within the EDR Report (EDR 2013a), as summarized in Table 6-2.

Additional information pertaining to these sites appears on pages 7 through 20 in Appendix F.

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)
Target Property	4725 Coal Mine Rd	West	KCPW East Garage	RCRA-CESQG	RCRA – No violations found	No (status and separated from subject property by a water body/pond)
Target Property	4725 Coal Mine Rd	West	KCMO Public Works Dept.	FINDS	No violations found	No (status)
Target Property	4725 Coal Mine Rd.	South	Bott Radio Towers	FINDS	No violations found	No (status)

TABLE 6-2 (Continued)

**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)
Target Property	4725 Coal Mine Rd	West	KC Public Works East Garage #3	LUST	NFA issued (January 29, 2004)	No (status)
0.5-1	6817 Stadium Drive	East	GM Leeds Plant	SHWS SMARS	Not listed on registry	No (status and distance)

Notes:

CESQG Conditionally Exempt Small Quantity Generator
 FINDS Facility Index System/Facility Registry System
 LUST Leaking Underground Storage Tank
 NFA No further action
 RCRA Resource Conservation and Recovery Act
 REC Recognized environmental condition
 SHWS State Hazardous Waste Site
 SMARS Site Management and Reporting System

As noted above, EDR identified 20 database listings of “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 the orphan 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 subject property. The City was unaware of any information regarding environmental liens or AULs for the subject property. The EDR environmental lien reported no records for environmental liens or AULs.

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

Additional title records for the three subject property parcels were not pursued. The City reported that the property parcels were obtained in various parcels beginning in 1925 and through 1957 via with annexation of county eleemosynary lands.

6.2 HISTORICAL USE INFORMATION REGARDING 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 F.

6.2.1 Sanborn® Map Report

A search of Fire Insurance Maps was conducted by EDR (EDR 2013b). According to EDR, no Fire Insurance Maps were available for the subject property.

6.2.2 Aerial Photographs

START reviewed aerial photographs of the subject property and surrounding area for years 1955, 1957, 1963, 1969, 1970, 1979, 1983, 1985, 1990, 1996, 1997, 2005, 2006, 2007, 2009, 2010, and 2012 (EDR 2013c) (see also Appendix F). 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 primarily undeveloped wooded land with some land cleared along the southern portion of the subject property, beyond the pond and lagoon, respectively. No structures are discernible.</p> <p>Surrounding Properties: The surrounding properties consist of agricultural land, with residential development approximately 0.5 mile south/southeast of the subject property. The land directly west of the subject property has been cleared at the location of the current day public works buildings. The Blue River is visible north of the subject property, with railroad tracks visible north of the river.</p>

TABLE 6-3 (Continued)

SUMMARY OF AERIAL PHOTOGRAPHS

Year	Comments
1957	<p>Subject Property: The subject property appears similar to 1955, but some pronounced crop clearing is apparent at the central portion of the subject property.</p> <p>Surrounding Properties: The area surrounding the subject property appears similar to 1955, except for a new structure about 750 feet east-northeast of the subject property.</p>
1963	<p>Subject Property: No discernable change from 1957.</p> <p>Surrounding Properties: The area surrounding the subject property appears similar to 1957.</p>
1969	<p>Subject Property: No discernable change from 1963.</p> <p>Surrounding Properties: The area surrounding the subject property appears similar to 1963.</p>
1970	<p>Subject Property: The subject property appears similar to 1969. No distinguishable structures are evident on the subject property.</p> <p>Surrounding Properties: The area surrounding the subject property appears similar to 1969.</p>
1979	<p>Subject Property: The subject property appears similar to 1970. Very little wooded vegetation is present on the subject property.</p> <p>Surrounding Properties: The land west of the subject property appears cleared, with clumps of trees present in distinct areas.</p>
1983	<p>Subject Property: This aerial photograph is in color. No structures are discernible on the subject property. The subject property continues to appear as agricultural cropland.</p> <p>Surrounding Properties: Some current Public Works buildings are evident west of the subject property surrounded by a grassy area.</p>
1985	<p>Subject Property: The subject property appears similar to 1983. An unpaved access road extends southward from the East Coal Mine road into the subject property.</p> <p>Surrounding Properties: The area surrounding the subject property appears similar to 1983.</p>
1990	<p>Subject Property: The subject property appears similar to 1985. The access road appears to be extended to the Botts Communication Towers to the south of the subject property.</p> <p>Surrounding Properties: The area surrounding the subject property appears similar to 1985, with no significant change.</p>
1996	<p>Subject Property: A barren area approximately 500 by 300 feet is on the northern portion of the subject property. The size and location suggest it to be the landfill discussed in Section 2.2. The unpaved access road to the communication towers appears more pronounced, perhaps suggesting frequent use of it.</p> <p>Surrounding Properties: The area surrounding the subject property appears similar to 1990.</p>
1997	<p>Subject Property: Although no structural change is evident, the 1997 aerial photograph has a higher resolution and closer focus of the subject property than the 1996 photograph. Contours of the presumed landfill can be clearly observed.</p> <p>Surrounding Properties: The area surrounding the subject property appears similar to 1996. Clearly defined water bodies are visible east and west of the subject property; a pond is to the west, next to the public works buildings, and the lagoon is to the east.</p>
2005	<p>Subject Property: This photograph is in color and clearly shows the earlier cited landfill area completely re-vegetated. No other significant difference from 1997 is evident.</p> <p>Surrounding Properties: The area surrounding the subject property appears similar to 1997.</p>

TABLE 6-3 (Continued)

SUMMARY OF AERIAL PHOTOGRAPHS

Year	Comments
2006	Subject Property: The subject property appears similar to 2005. Surrounding Properties: The area surrounding the subject property appears similar to 2005.
2007, 2009, 2010, 2012	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.

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 Kansas City, Missouri, quadrangle topographic maps of the subject property and surrounding area for years 1894, 1934, 1940, 1948, 1964, 1970, 1975, 1991, and 1996 (EDR 2013d) (see Appendix F-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	The subject property appears undeveloped.
1934	The subject property appears undeveloped.
1940	The subject property appears primarily undeveloped with an unimproved road extending south from Coal Mine Road. The Pacific and Kansas City Southern railroad tracks are south of the subject property. Residential development is south of the subject property.
1948	The subject property and surrounding area appear similar to 1940.
1964	The subject property and surrounding area appear similar to 1948, except for greater density of residences south of the subject property (beyond Kansas City Southern railroad tracks).
1970	The subject property area is labeled “Municipal Farms.” Coal Mine Road (a partially unimproved roadway) borders the subject property to the west and north. The Blue River is north and Pacific and Kansas City Southern railroad tracks are south of the subject property beyond Coal Mine Road.
1975	The subject property and surrounding area appear similar to 1970. The industrial park northwest of the river has expanded.
1991	The subject property and surrounding area appear similar to 1975, but the adjacent property to the west is shown as a quarry. The lagoon is shown east of the subject property, with undeveloped land beyond. Coal Mine Road borders the subject property to the north. The City-owned public utilities buildings are present west of the subject property beyond the pond that borders the subject property. The river is north of the subject property beyond Coal Mine Road to the north. The railroad tracks are south of the subject property.
1996	The subject property and surrounding area appear similar to 1991.

Review of topographic maps did not identify specific potential source areas or environmental issues;

6.2.4 City Directories

START reviewed Cole’s (and previous publishers) Kansas City and Suburban Directories (1909-2013) listings for the subject property (4635 and 4725 East Coal Mine Road, Kansas City, Missouri) and nearby properties for years 1909, 1920, 1925, 1930, 1935, 1940, 1945, 1951, 1956, 1961, 1966, 1970, 1975, 1980, 1985, 1990, 1995, 2000, 2006, 2008, and 2013 (EDR 2013e) (see Appendix F).

City directories can be used in conjunction with other historical records presented in this section to determine previous land use at the site. Information regarding the subject property as summarized in the city directories is in Table 6-5 below, which lists addresses of the subject property and accompanying information.

TABLE 6-5
SUMMARY OF CITY DIRECTORIES

Subject Property Address	Property Occupant(s)
4635 East Coal Mine Rd	No address/occupant identified
4725 East Coal Mine Rd	No address/occupant identified.

6.2.5 Previous Reports

EAE prepared an AWBP regarding the Municipal Farms properties for facilitating sustainable reuse and development of the area. Based on available information about the CLUP areas that include the subject property, the most likely contaminants present are PCBs, metals, and herbicides/pesticides. The AWBP also concluded that unknown contaminants could be present. The AWBP offered the following recommendations that were then incorporated into the Municipal Farm Sustainable Reuse Plan, prepared by the City and several stakeholders:

- Conduct Phase I and Phase II Environmental Site Assessments (ESA) with focus on fill materials on the subject property originating from the ARMCO steel plant.
- Conduct an environmental assessment of the former agricultural use sub-area, including biased sampling of sediment for pesticides and herbicides at a prominent downgradient drainage relief point within the former agricultural sub-area.
- As part of the followup Phase I assessment, confirm results from Blue Valley Industrial Corridor Background Soil Study samples, and address any other data gaps identified during the Phase I ESA.

7.0 FINDINGS AND OPINIONS

In addition to the previous report described in Section 6.2.5, the following significant findings were identified from records review, interviews, or reconnaissance:

- Several 1-quart petroleum containers were observed around the subject property. An empty 5-gallon bucket and automobile-related trash were observed along the driveway, on the subject property. Although no staining was observed around the drums, because the original contents are unknown, and because materials from any of the containers may have leaked onto the ground, presence of these containers poses an environmental concern to the subject property.
- Review of historical aerial photographs and site documents provided by the City of Kansas City confirmed presence of a landfill area that has since been re-vegetated. According to Mr. Bracker at the City of Kansas City, the subject property was used for agricultural purposes. However, a portion of it served as a landfill between 1991 and 1995 to receive sediments dredged from the Blue River near the former ARMCO steel plant. The application also indicated that the sediments contained total recoverable petroleum hydrocarbons at concentrations ranging from 50 to at least 200 ppm and possibly up to 500 to 1,000 ppm. A 2-foot clay soil cover was placed over the landfill. Although no discernable evidence of the landfill was present during the site reconnaissance, historical aerial photographs from the early- to mid-1990s show the distressed areas associated the landfill. No actual analytical data packages were available for review during this Phase I.
- Two 10,000-gallon ASTs were observed west of the subject property in the Public Works facilities. Because the contents of the ASTs could be hazardous, presence of the ASTs poses an environmental concern to the subject property.
- At the time of the reconnaissance, solid waste and debris consisting of tires, electronics, organic waste, and general solid waste items were observed on the subject property. This area of solid waste storage poses an environmental concern to the subject property.

To summarize, likelihood of releases of hazardous material or hazardous waste releases from the drums, containers, and former landfill 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 of the Kansas City Public Works East Garage site at 4635 and 4725 East Coal Mine Road in Kansas City, Jackson County, Missouri (subject property). Developed facilities operated by the City share these addresses on East Coal Mine Road, but are not proposed for redevelopment and are not part of the subject property. 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 RECs and environmental issues in connection with the subject property, as described in Section 7.0.

START recommends the following:

- Removal from the subject property and proper disposal of empty 1-quart and 5-gallon containers. START also recommends removal of solid waste observed at multiple locations at the subject property.

According to accepted practices, no official judgment about levels or extent of contamination associated with any site can occur without reference to results of an environmental investigation that includes sampling and chemical analysis. For this reason, START recommends a Phase II TBA at the subject property to determine if contamination is present there:

- To assess the subject property for presence of contaminants based on historical uses of the subject property, START proposes collection of surface and subsurface soil samples for laboratory analysis. The samples would be analyzed for PCBs, VOCs, SVOCs, the eight Resource Conservation and Recovery Act (RCRA) metals, total petroleum hydrocarbons (TPH)-diesel range organics (DRO), TPH-gasoline range organics (GRO), and TPH-oil range organics (ORO). START proposes to collect a subsurface soil and groundwater samples to a depth of 20 feet bgs at two locations at the former ARMCO landfill area within the northern portion of the subject property discussed in Table 6-3 (aerial photograph from 1995). In addition, two temporary monitoring wells should be installed, and the groundwater should be sampled for the same analytes as the soils samples; filtered and unfiltered groundwater samples should be collected for analyses for RCRA metals.
- START proposes collection of at least two sediment and surface water samples within the agricultural sub-area on the southern portion of the subject property. The samples should be analyzed for herbicides and pesticides.
- START proposes to collect a soil sample at the subject property to classify the soil type based on grain size. This 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 found at the subject property.

9.0 CERTIFICATION STATEMENT

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 Kumud Pyakuryal at (816) 412-1788.

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U.S. Geological Survey (USGS).

1996. Kansas City, Missouri Quadrangle. 7.5-Minute Topographic Series.

APPENDIX A
STATEMENT OF WORK

**EPA Targeted Brownfields Assessment
New Sub-TASK ORDER -002.019
KCMO Public Works East Garage
4635 East Coal Mine Road
4725 East Coal Mine Road
Kansas City, MO 64130
November 4, 2013**

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 Springfield, Missouri has requested EPA to perform Phase I and Phase II environmental site assessments on the KCMO Public Works East Garage at 4635 and 4725 East Coal Mine Road, Kansas City, Jackson County, Missouri. The City is planning to use the site for a community garden.

2.0 Site Description

The site covers approximately 10 Acres and does not have any buildings.

2.1 Location

The KCMO Public Works East Garage is located at 4635 and 4725 East Coal Mine Road in Kansas City, Jackson County, Missouri 64130.

2.2 Description and Current Conditions of Sites

The referenced property historically was used for agricultural purposes. The site contains a landfill for sediment containing dredged material from the former ARMCO landfill materials. Access to the site is being provided through an agreement with the property owner/applicant.

3.0 History of Operation

The referenced property historically was used for agricultural purposes. The site contains a landfill for sediment containing dredged material from the former ARMCO landfill materials.

4.0 Summary of Pertinent Previous Investigations

EPA Region 7 does not have any record of previous investigations. The applicant had a Phase I ESA performed in 2012 and may have performed limited sampling.

5.0 Scope of Work

The contractor shall perform a Phase I and Phase II environmental site assessment (ESA) on the property. The contractor shall submit a completed Property Profile Form (PPF) for the property as part of the Phase II ESA Report. The Site does not have any known structures or buildings, however, should such buildings be found the contractor may be asked to perform an asbestos and lead based paint survey.

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.

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 Animal Shelter 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

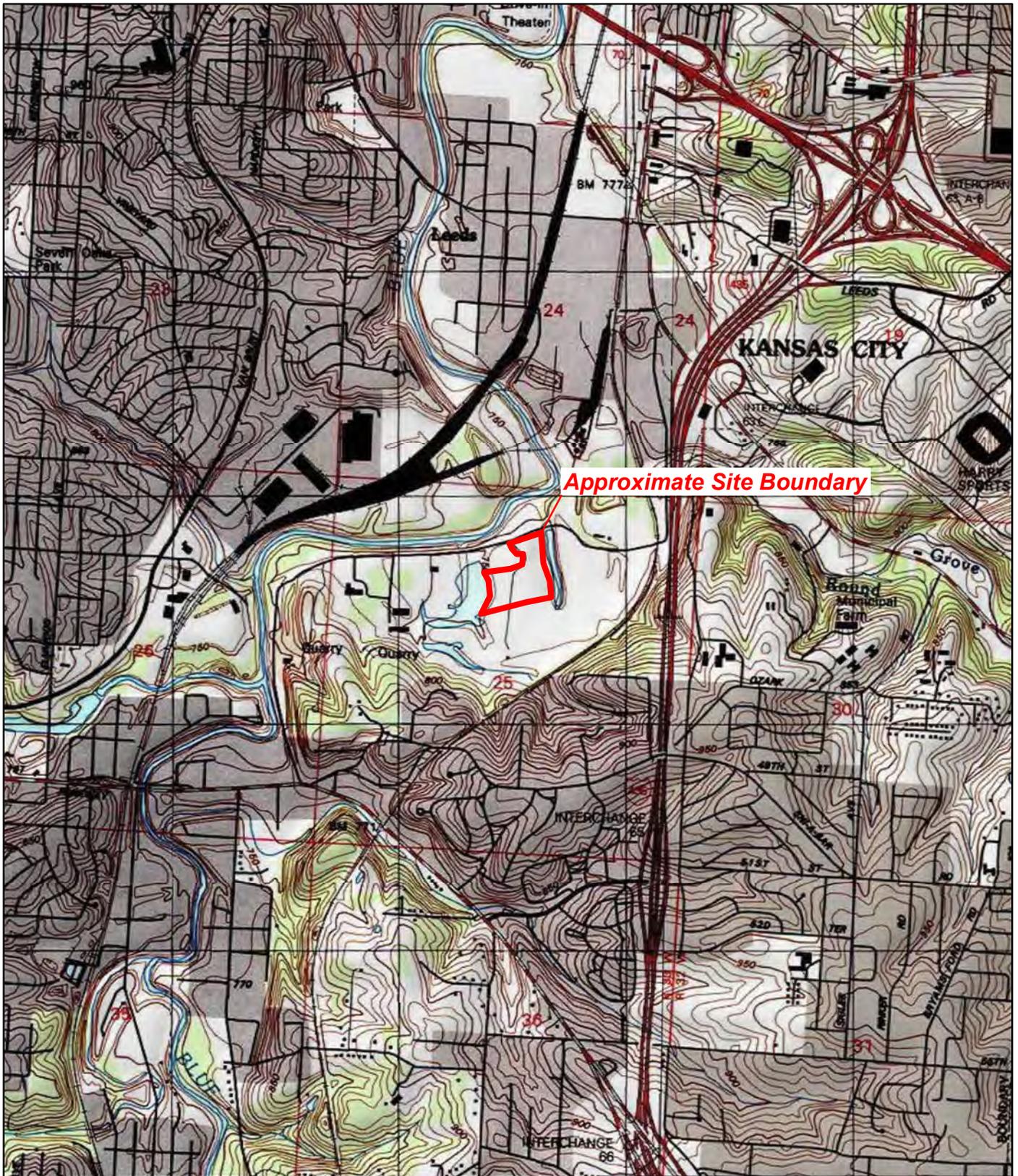
Todd H. Davis, Site Assessment Manager, EPA Region 7
Phone: 913-551-7749
Email: davis.toddh@epa.gov
Address: US EPA Region 7
Todd H. Davis
11201 Renner Blvd
Lenexa, KS 66219

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

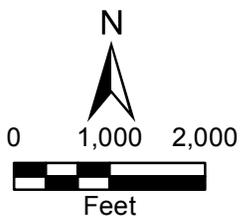
FIGURES



Approximate Site Boundary



Jackson County



Kansas City Missouri Public Works
 East Garage Site
 Kansas City, Missouri

Figure 1
 Site Location Map



X:\G0925\0002\019\001\Projects\mxd\Figure1.mxd

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

Date: 12/8/13

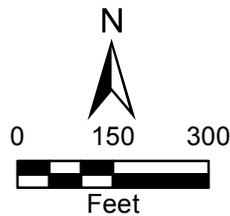
Drawn By: Nick Wiederholt

Project No: X9025.14.0002.019001



Legend

 Potential BoysGrow site boundary



Kansas City Missouri Public Works
East Garage Site
Kansas City, Missouri

Figure 2
Site Layout Map



X:\09025\0002019\001\Projects\mxd\Figure2.mxd

APPENDIX C

USER-PROVIDED INFORMATION

Search/Tools Results Print Map

Measure

Select a tool below then draw on the map. To finish a line or area, double click.

Measurement Result

10.4 Acres

Name:

NVA PIN:

County APN:

Subdivision:

Landmark Search:

Category:

Type:

Landmark:

Street Intersections:

Prefix: Street: Type:

Prefix: Street: Type:

Streetlight:

Go to XY: (State Plane Missouri West - Feet)

X:

Y:

Go to XY: (NAD 83 - Decimal Degrees)

X:

Y:





Potential BoysGrow
Site



October 21, 2013 Proposal for KCMO

This is a fluid document but these are the current items that BoysGrow is requesting from the City of Kansas City to bring the proposed Municipal Farms Sights back to a functional farm and educational platform for the youth of our City.

1. Lease and Terms. BG will be looking for a long-term lease with traditional lease rights and options that will be drafted by BG's legal representation and the City. We would like to receive more information on the lease to purchase option, which may be offered to tenants on other Municipal sights.

2. Fresh Water lines will be brought to at least two proposed locations on West Section.

3. Building of a Restroom/shower facility on West property with fresh water and plumbing.

*** resemblance to facilities on City Parks.**

4. Clearing of both the West & East Property of Shrubs and trees. {BG will determine the boundaries and attempt to save some sycamores and other mature trees}

*** estimated cost \$1,200 per acre**

***estimated acres to be cleared 14**

5. Water access for irrigation on the West pond and East Lagoon.

**John Gordon Jr.
Executive Director
Boysgrow.com**

AREA 7

SITE DESCRIPTION

Area 7 is characterized by its relatively flat topography, variation in vegetation cover, soils classified as Colo silty clay loam, Bremer silt loam, and Udarents-Urban land complex, and proneness to flooding. About ninety-five percent of the total area has slopes ranging from 1% - 3%, with the remaining area varying in moderate slopes not exceeding 15%. Dense vegetation covers the northern half of the site, but the south side of the site is cleared and covered with short grasses that accommodate the existing Botts Radio communication towers.

BROWNFIELD STATUS

Area 7 is of moderate environmental concern, with a moderate level of data uncertainty. Potential environmental concerns include the ARMCO fill site (potential for metals, PCBs, petroleum related contaminants), the communication towers field (potential for PCBs, herbicides/pesticides, and petroleum related contaminants), and the former agricultural use sub-area (potential herbicides/pesticides). These potential concerns, however, do not

preclude the suggested productive landscape land use for Area 7. Presently, there is no environmental data to confirm the presence of contamination. A preliminary or “due diligence” environmental assessment is recommended for ARMCO fill sub-area and the former agricultural use area to identify whether there are significant potential concerns, followed by an initial screening investigation of soils in key locations to verify whether contaminants are present and, if so, their type and extent.

INFRASTRUCTURE STATUS

Although close to some major utility lines, internal infrastructure is largely nonexistent except for power, as shown in Figure 5-16. The existing power lines within Area 7 are due to the Botts Radio communication towers. Future development could tie in to sanitary, and communication lines along Coal Mine Road. Future water demands should be determined to know if the eight-inch line feeding the Public Works Facility and Lift Station can be extended for future needs within Area 7.



RECOMMENDED USE

One of the biggest challenges for Area 7 is to integrate the existing uses into a vision for the future that will be beneficial for both the long-term development of Municipal Farm and the existing users. It is likely that the Botts Communication towers use will remain. However, steps should be taken to establish a plan for how the existing use can be beneficial to the long term development of the Municipal Farm property. This area could support land uses including a recreation destination, productive landscape, or wetland and habitat restoration (Figure 5-16). With the physiography, location, and sheer acreage of this area, a productive landscape will likely maximize economic growth, environmental stewardship, and amenities for people that create opportunities to support fitness, education, and research. Management of rainwater through sustainable development decisions should be of particular importance because Area 7 is surrounded by wetlands (Area 6), which could be restored to provide high functioning ecosystem services. Development in Area 7 has direct impact on quality and quantity of rainwater flowing in to the wetlands.



Communication tower



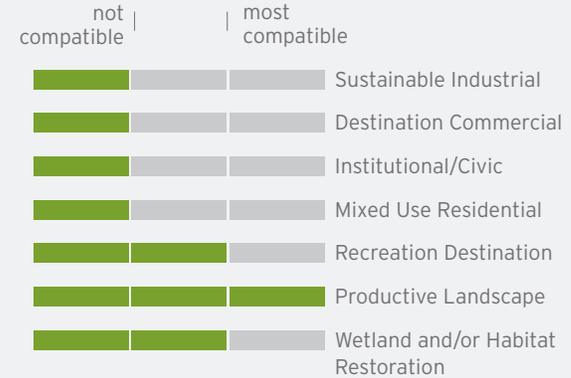
Access road



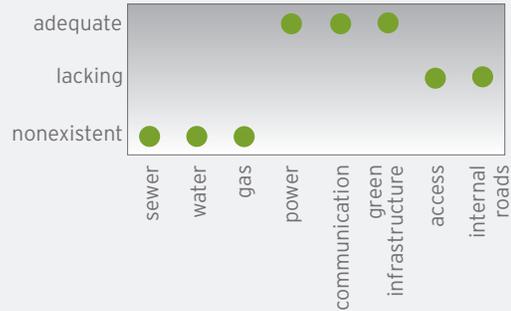
Clearing with communication towers | looking southwest

30.5 ACRES

LAND USE RECOMMENDATION



EXISTING INFRASTRUCTURE WITHIN AREA 7



AREA-WIDE BROWNFIELD SUMMARY

Environmental Concern Level



Level of Data Uncertainty



Recommendations

- Conduct a preliminary environmental assessment of the former agricultural use sub-area
- Conduct additional investigations of former agricultural use sub-area, including sampling of sediment at drainage relief point that is down-gradient from the majority of the area
- Conduct a Phase I Environmental Assessment (ESA) with a focus on obtaining all available records and interviews regarding the ARMCO Steel Plant fill materials placed in the ARMCO Fill sub-area. Follow-up Phase II screening should be conducted to confirm the results of Blue Valley Industrial Corridor Background Soil Study samples and address any other data gaps identified in the Phase I ESA

Development Assistance Team Meeting for Boys Grow
BDAT 345 October 31, 2013

Project Description

Boys Grow is a nonprofit agency providing mentoring, entrepreneurship skills and positive male role-models for inner-city boys. Boys Grow was represented at the Development Assistance Team meeting by John Gordon Jr. and Joshua Anderson.

Youth who participate in the program use the crops they grow to produce salsa, ketchup and barbeque sauce that is sold to local restaurants, schools and grocery stores. The group has farmed at temporary sites around the metro area during the past few years. They are evaluating a 17 acre site south of Coal Mine Road (Area 7 of the Municipal Farm Sustainable Reuse Plan) as a possible permanent location. The City of Kansas City, Missouri owns the property. The Boys Grow team is negotiating a lease agreement with the General Services Department.

The site is divided into east and west plots by an unimproved road that is used to access the existing Botts Radio Communications Towers to the south. Much of the proposed site is wooded and will need to be cleared to provide growing area. Boys Grow hopes to construct a greenhouse, barn and restroom facility. A trailer will be used to house security staff at the site during the growing season.

Mr. Gordon submitted a preliminary sketch showing the approximate location of the structures, planting areas and a gravel parking lot (estimated parking of 6 passenger vehicles). The primary piece of equipment that Boys Grow uses is a Ford 3600 tractor.

Mr. Gordon said they hoped to have the site cleared by late December 2013 so they could plant a cover crop that would help fix nutrients into the soil. Formal planting and construction of the structures would begin in the spring of 2014.

The site spans the three parcels listed in the table below:

County Parcel Number	KIVA Pin	Address
JA3162004020000000	32726	4725 E. Coal Mine Road
JA3161006020000000	32715	4635 E. Coal Mine Road
JA3161006030000000	32716	none

The western portion of JA3162004020000000 (4725 E. Coal Mine Road) is occupied by The Public Works Department's Stanley Palmer Engineering Building and the District 3 street maintenance facility. JA3161006020000000 (4635 E. Coal Mine Road) and JA3161006030000000 are unimproved parcels that are not served by water or sewer utilities.

Comments

City Planning and Development Department (CPD) - Development Management Division

The underlying zoning (M1) allows for the use. The addition of structures on JA3162004020000000 would require submittal of a Development Plan per 88-517-02-F.

CPD - Land Development Division

Detailed comments are attached.

CPD – Plans Review

Design documents for the development of the site and the construction of the proposed barn/general purpose structure, greenhouse, and bathroom structures should be submitted in conformance with the guidelines outlined in Information Bulletin 110.

Question: May the applicant request a code modification request that allows for an unpaved parking area? If yes, what is the process for submitting that request?

Water Services, Stormwater

The site is within the floodplain. No grading is allowed without a flood plain analysis that must be performed by a licensed civil engineer.

CPD-Brownfield Office

The graded area at the entrance to the site was used as a construction landfill for materials from the former AK Steel site during the period of 1990-1995. The area has been capped with approximately two feet of clean fill. The Environmental Protection Agency (EPA) has agreed to conduct Phase I & II Environmental Studies of the site which can be done concurrently with the proposed development activity. As Built drawings of the landfill can be obtained from Terry Winbush in the KCMO Water Services Department.

Kansas City Fire Department – Fire Marshall's Office

The Kansas City Fire Code requires that all occupied structures must be within 600 feet of a public fire hydrant. The nearest hydrant is located outside the small Public Works structure east of the District 3 Street Maintenance Building on Coal Mine Road. This is in excess of 600 feet from the entrance to the proposed Boys Grow site (see attached map).

General Comment

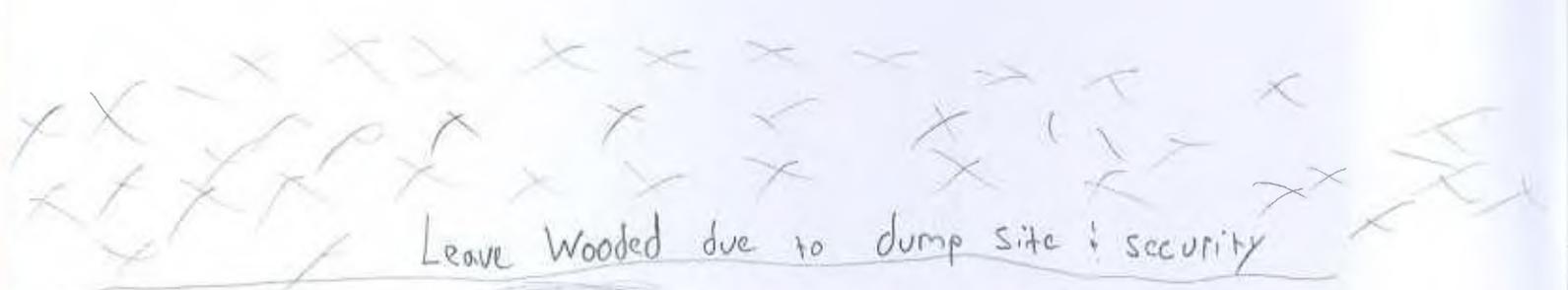
Mr. Gordon asked if water from the lagoon west of the proposed site could be used for irrigation. The water quality in this pond may be impacted by runoff from the Public Works salt storage facility. Further discussions with Public Works are required to address this request.

BDAT 345 Attendees			
Name	Organization	E-mail	Phone
John Gordon Jr.	Boys Grow	jgordonkc@gmail.com	773-793-5056
Joshua Anderson	Boys Grow	joshuaboysgrow@gmail.com	816-522-5286
Daniel Weber	CPD, Land Dev. Div.	Daniel.weber@kcmo.org	816-513-2588
John Pajor	Mgr., Bus. Cust. Serv.	John.pajor@kcmo.org	816-513-1234
John Hastings	KC Fire Marshall	John.hastings@kcmo.org	816-784-9110
Chris Spangler	CPD, Plans Review	Chris.spangler@kcmo.org	816-513-1585
Kimiko Gilmore	Asst. City Mngr.	Kimiko.gilmore@kcmo.org	816-513-6558
Gerald Williams	CPD, Citywide Planning	Gerald.williams@kcmo.org	816-513-2897
Andrew Bracker	CPD, Brownfields	Andrew.bracker@kcmo.org	816-513-3003
Patty Noll	CPD, Dev. Mgmt. Div.	Patty.noll@kcmo.org	816-513-2864
James Cole	Water Ser. Stormwater	James.cole@kcmo.org	816-513-0391
Jania Elmer	General Services	Jania.elmer@kcmo.org	816-513-3428

Note: Comments are for informational only and are subject to change and/or clarification upon submittal of formal plans.

West Plot

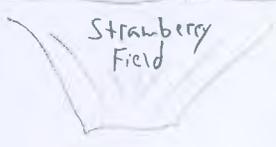
Coal Mine rd



Leave Wooded due to dump site & security

Proposed Bathroom Site

Outdoor Meeting Facility
Mess Hall
Outdoor Kitchen



frailor temp. housing

60'

46'



(computer lab)
(Culinary center)
(Woodworking Shop)
(Storage)

Gravel Parking

Apple Trees
Pear Trees

Pond

Pump Station



Compost Area

Kale
Kale
Kale
Kale



Artichoke
Chard
Spinach



15'
Starter Greenhouse



20'

Leave Wooded



East Plot

Coal Mine Ride

Loose Gravel

Wetland

Garlic/Ginger

Onions

Melons

Leave wooded for security

Melons

Potatoes

Compost

Beehives

Storage Shed

Outside Rest Area

Grapes

Grown

Beans

Lagoon

4 Seasons Movable Greenhouse

H₂O Holding Tank

60'

50'

Cabbage OKay/Beets

Squash/Cucumber

tomatoes

Eggplant/Peppers

tomatoes

Pear Trees

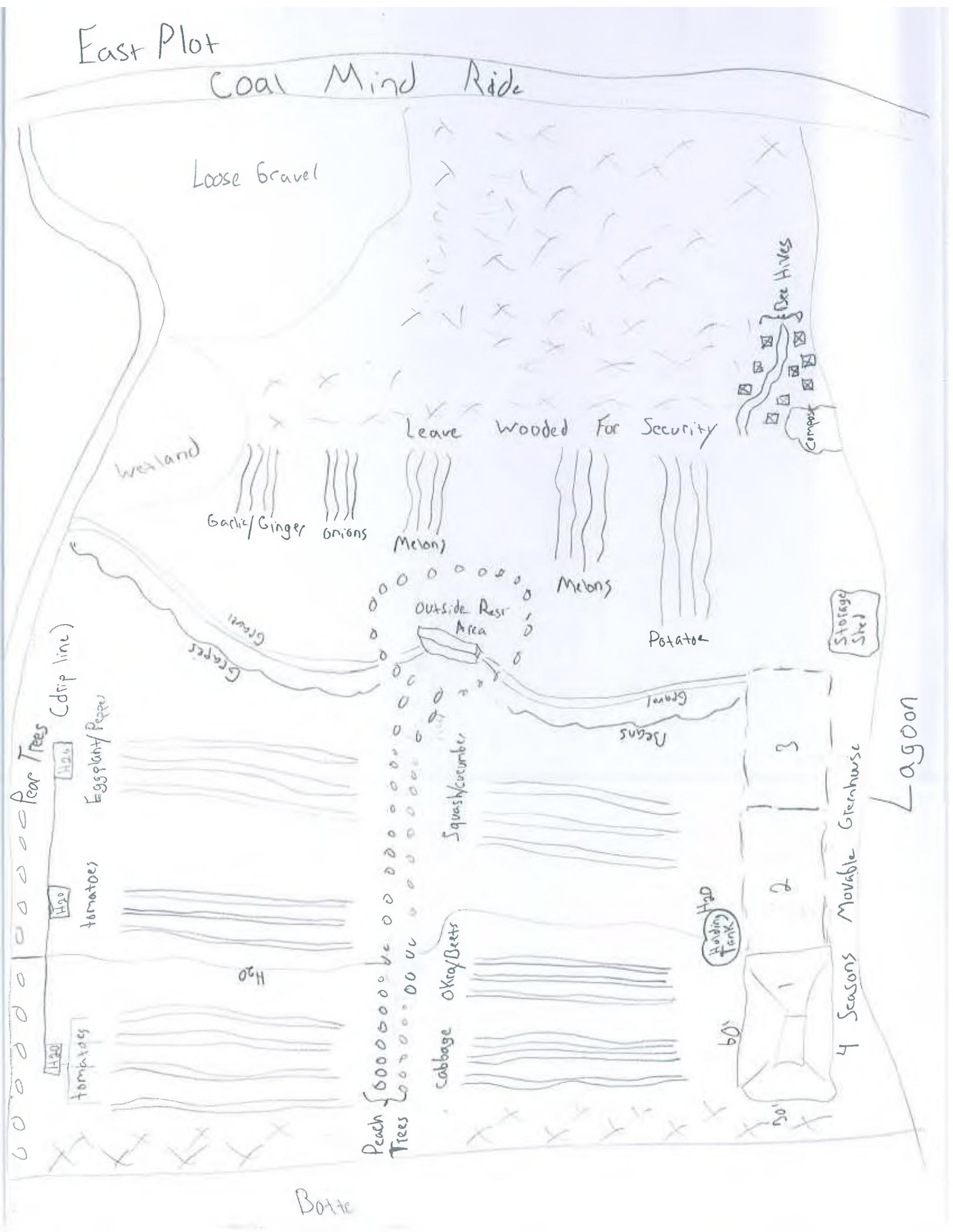
H₂O

H₂O

Cdrip line

Peach Trees

Botte



APPENDIX D
SITE PHOTOGRAPHS

**Kansas City Public Works Garage Site
Kansas City, Missouri**



TETRA TECH PROJECT NO. X9025.14.0002.019.001 Direction: South	DESCRIPTION	This photograph shows a view of the subject property from the north.	1
	CLIENT	US Environmental Protection Agency	DATE
	PHOTOGRAPHER	Kumud Pyakuryal	12/12/2013



TETRA TECH PROJECT NO. X9025.14.0002.019.001 Direction: East	DESCRIPTION	This photograph shows the debris east of the access road on the subject property. The debris includes tires, electronics, construction materials, and general solid waste items.	2
	CLIENT	US Environmental Protection Agency	DATE
	PHOTOGRAPHER	Kumud Pyakuryal	12/12/2013

**Kansas City Public Works Garage Site
Kansas City, Missouri**



<p>TETRA TECH PROJECT NO. X9025.14.0002.019.001</p> <p>Direction: Southeast</p>	DESCRIPTION	This photograph shows the lagoon on the eastern portion of the subject property.	3
	CLIENT	US Environmental Protection Agency	DATE 12/12/2013
	PHOTOGRAPHER	Kumud Pyakuryal	



<p>TETRA TECH PROJECT NO. X9025.14.0002.019.001</p> <p>Direction: East</p>	DESCRIPTION	This photograph shows an empty 55-gallon drum east of the access road, in the forested area of the subject property.	4
	CLIENT	US Environmental Protection Agency	DATE 12/12/2013
	PHOTOGRAPHER	Kumud Pyakuryal	

**Kansas City Public Works Garage Site
Kansas City, Missouri**



TETRA TECH PROJECT NO. X9025.14.0002.019.001 Direction: North	DESCRIPTION	This photograph shows the gravel (unpaved) access road.	5
	CLIENT	US Environmental Protection Agency	DATE 12/12/2013
	PHOTOGRAPHER	Kumud Pyakuryal	



TETRA TECH PROJECT NO. X9025.14.0002.019.001 Direction: East	DESCRIPTION	This photograph shows a second pile of debris east of the access road on the subject property. The debris includes tires, electronics, construction materials, and general solid waste items.	6
	CLIENT	US Environmental Protection Agency	DATE 12/12/2013
	PHOTOGRAPHER	Kumud Pyakuryal	

**Kansas City Public Works Garage Site
Kansas City, Missouri**



TETRA TECH PROJECT NO. X9025.14.0002.019.001 Direction: West	DESCRIPTION	This photograph shows the pond west of the subject property.	7
	CLIENT	US Environmental Protection Agency	DATE
	PHOTOGRAPHER	Kumud Pyakuryal	12/12/2013



TETRA TECH PROJECT NO. X9025.14.0002.019.001 Direction: West/northwest	DESCRIPTION	This photograph shows the aboveground storage tanks within the adjacent property to the east.	8
	CLIENT	US Environmental Protection Agency	DATE
	PHOTOGRAPHER	Kumud Pyakuryal	12/12/2013

**Kansas City Public Works Garage Site
Kansas City, Missouri**



TETRA TECH PROJECT NO. X9025.14.0002.019.001 Direction: East	DESCRIPTION	This photograph shows a transformer or relay box on the subject property.	9
	CLIENT	US Environmental Protection Agency	DATE
	PHOTOGRAPHER	Kumud Pyakuryal	12/12/2013

APPENDIX E

EDR RADIUS MAP WITH GEOCHECK®

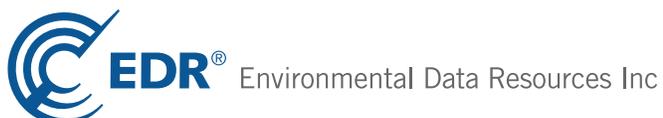
Kansas City Missouri Public Works East Garage

4635 East Coal Mine Rd and 4725 East Coal Mine Rd
Kansas City, MO 64129

Inquiry Number: 3789859.2s

November 19, 2013

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

4635 EAST COAL MINE RD AND 4725 EAST COAL MINE RD
KANSAS CITY, MO 64129

COORDINATES

Latitude (North): 39.0426000 - 39° 2' 33.36"
Longitude (West): 94.5082000 - 94° 30' 29.52"
Universal Transverse Mercator: Zone 15
UTM X (Meters): 369474.2
UTM Y (Meters): 4322378.0
Elevation: 764 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

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

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

AERIAL PHOTOGRAPHY IN THIS REPORT

Photo Year: 2012
Source: USDA

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 7 of the attached EDR Radius Map report:

<u>Site</u>	<u>Database(s)</u>	<u>EPA ID</u>
KANSAS CITY PUBLIC WORKS EAST GAR 4725 COAL MINE RD KANSAS CITY, MO 64103	RCRA-CESQG	MOD981710726
KANSAS CITY PUBLIC WORKS EAST GAR 4725 COAL MINE ROAD KANSAS CITY, MO	FINDS	N/A
BOTT RADIO TOWERS 4725 COAL MINE RD KANSAS CITY, MO	FINDS	N/A

EXECUTIVE SUMMARY

STREET DISTRICT III
4725 COAL MINE RD
KANSAS CITY, MO 64130

LUST
Date Of NFA Letter From DNR: 3/16/2004
UST

N/A

DATABASES WITH NO MAPPED SITES

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

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

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

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

Federal CERCLIS list

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

Federal CERCLIS NFRAP site List

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

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

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

Federal RCRA generators list

RCRA-LQG..... RCRA - Large Quantity Generators
RCRA-SQG..... RCRA - Small Quantity Generators

Federal institutional controls / engineering controls registries

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

EXECUTIVE SUMMARY

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

State and tribal voluntary cleanup sites

VCP..... Voluntary Cleanup Program Site Listing

INDIAN VCP..... Voluntary Cleanup Priority 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

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

ODI..... Open Dump Inventory

SWRCY..... Solid Waste Recycling Facilities

HIST LF..... Solid Waste Facility Database List

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

EXECUTIVE SUMMARY

Local Land Records

LIENS 2..... CERCLA Lien Information

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System
SPILLS..... Environmental Response Tracking Database
SPILLS 90..... SPILLS 90 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR..... RCRA - Non Generators
DOT OPS..... Incident and Accident Data
DOD..... Department of Defense Sites
FUDS..... Formerly Used Defense Sites
CONSENT..... Superfund (CERCLA) Consent Decrees
ROD..... Records Of Decision
UMTRA..... Uranium Mill Tailings Sites
US MINES..... Mines Master Index File
TRIS..... Toxic Chemical Release Inventory System
TSCA..... Toxic Substances Control Act
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing
SSTS..... Section 7 Tracking Systems
ICIS..... Integrated Compliance Information System
PADS..... PCB Activity Database System
MLTS..... Material Licensing Tracking System
RADINFO..... Radiation Information Database
RAATS..... RCRA Administrative Action Tracking System
RMP..... Risk Management Plans
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
SMARS..... Site Management and Reporting System
US AIRS..... Aerometric Information Retrieval System Facility Subsystem
PRP..... Potentially Responsible Parties
2020 COR ACTION..... 2020 Corrective Action Program List
MINES..... Industrial Mineral Mines Database
EPA WATCH LIST..... EPA WATCH LIST
US FIN ASSUR..... Financial Assurance Information
PCB TRANSFORMER..... PCB Transformer Registration Database
COAL ASH DOE..... Steam-Electric Plant Operation Data
COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List
Financial Assurance..... Financial Assurance Information Listing
COAL ASH..... Coal Ash Disposal Sites
LEAD SMELTERS..... Lead Smelter Sites

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

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

EXECUTIVE SUMMARY

EDR US Hist Auto Stat..... EDR Exclusive Historic Gas Stations
EDR US Hist Cleaners..... EDR Exclusive Historic Dry Cleaners

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

State- and tribal - equivalent CERCLIS

SHWS: Registry and Registry Log.

A review of the SHWS list, as provided by EDR, and dated 06/07/2013 has revealed that there is 1 SHWS site within approximately 1 mile of the target property.

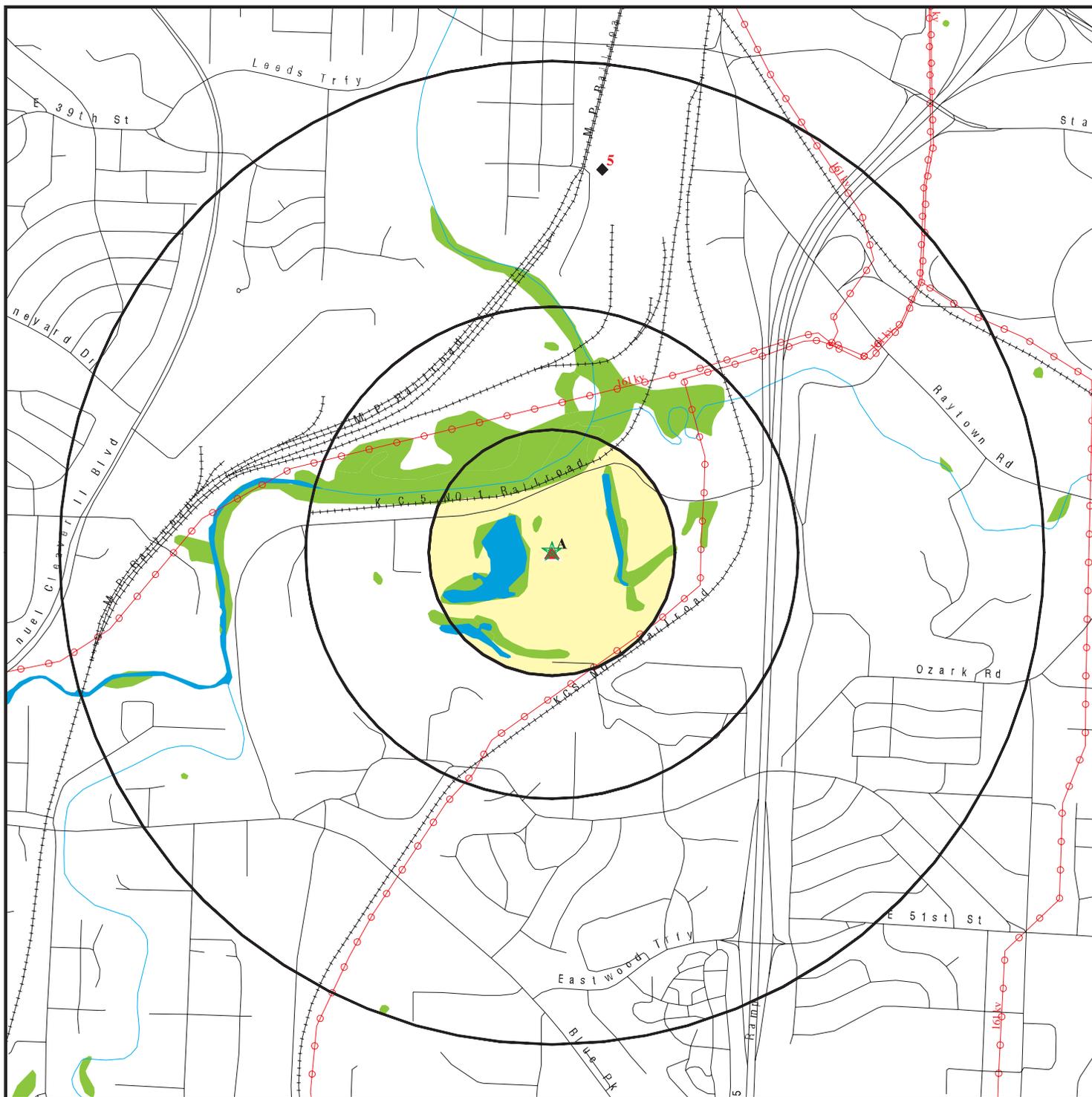
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>GM LEEDS PLANT</i>	<i>6817 STADIUM DRIVE</i>	<i>N 1/2 - 1 (0.786 mi.)</i>	<i>5</i>	<i>19</i>

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>
KANSAS CITY POWER & LIGHT CO.	PCB TRANSFORMER
KANSAS CITY POWER & LIGHT CO.	PCB TRANSFORMER
KANSAS CITY POWER & LIGHT CO.	PCB TRANSFORMER
PINK HILL ACRES DEMOLITION LANDFIL	FINDS, SWF/LF, SPILLS, NPDES, AIRS
COURTNEY RIDGE LANDFILL	SWF/LF, HIST LF, Financial Assurance
CAMPER'S CORNER	LUST, UST
BAMBOO HUT	LUST, UST
HALE TRAILER PARK	LUST, UST
JAMES CAPE & SONS CO - N OAK KANSA	FINDS
CLARKSON CONSTRUCTION CO - KANSAS	FINDS
CLARKSON CONSTRUCTION CO - KANSAS	FINDS
CLARKSON CONSTRUCTION CO - KANSAS	FINDS
QUALITY AGGREGATES, LLC - KANSAS C	FINDS
LOCH SAND & CONSTRUCTION CO-KANSAS	FINDS
KANSAS CITY FIRE STATION #43	FINDS
KANSAS CITY 210-291 DEMO	FINDS
KANSAS CITY 210 AND 291 DEMO DEBRI	FINDS
LEE'S SUMMIT SANITARY LANDFILL	HIST LF, Financial Assurance
SOUTHEAST SANITARY LANDFILL	HIST LF, Financial Assurance
INDEPENDENCE SOLID WASTE TRANSFER	HIST LF

OVERVIEW MAP - 3789859.2s



- ★ 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

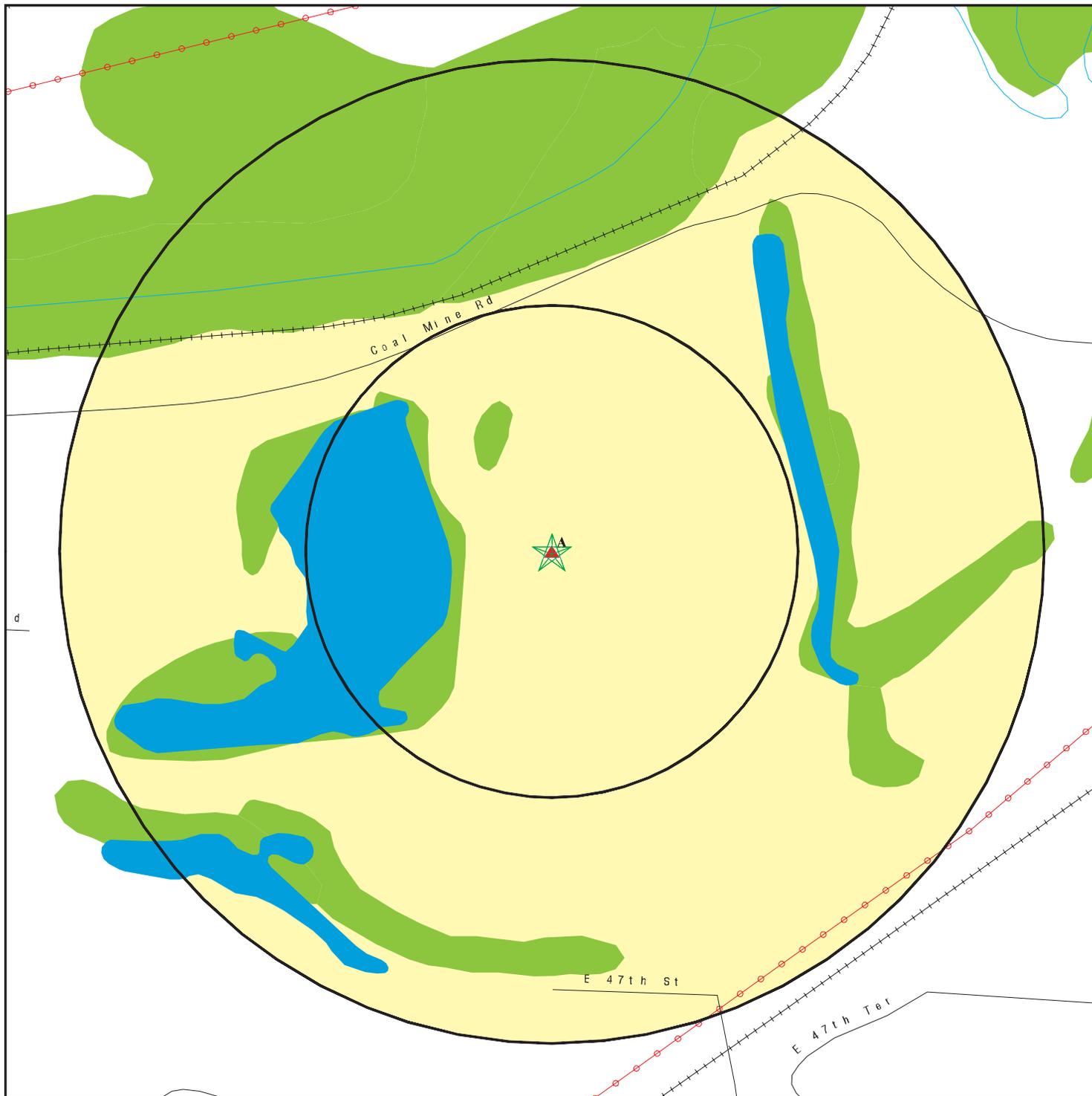


This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Kansas City Missouri Public Works East Garage
 ADDRESS: 4635 East Coal Mine Rd and 4725 East Coal Mine Rd
 Kansas City MO 64129
 LAT/LONG: 39.0426 / 94.5082

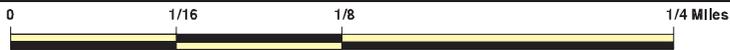
CLIENT: Tetra Tech EMI
 CONTACT: Kumud Pyakuryal
 INQUIRY #: 3789859.2s
 DATE: November 19, 2013 3:51 pm

DETAIL MAP - 3789859.2s



- ★ 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.

SITE NAME: Kansas City Missouri Public Works East Garage
 ADDRESS: 4635 East Coal Mine Rd and 4725 East Coal Mine Rd
 Kansas City MO 64129
 LAT/LONG: 39.0426 / 94.5082

CLIENT: Tetra Tech EMI
 CONTACT: Kumud Pyakuryal
 INQUIRY #: 3789859.2s
 DATE: November 19, 2013 3:51 pm

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
<i>Federal NPL site list</i>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
<i>Federal Delisted NPL site list</i>								
Delisted NPL	1.000		0	0	0	0	NR	0
<i>Federal CERCLIS list</i>								
CERCLIS	0.500		0	0	0	NR	NR	0
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
<i>Federal CERCLIS NFRAP site List</i>								
CERC-NFRAP	0.500		0	0	0	NR	NR	0
<i>Federal RCRA CORRACTS facilities list</i>								
CORRACTS	1.000		0	0	0	0	NR	0
<i>Federal RCRA non-CORRACTS TSD facilities list</i>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<i>Federal RCRA generators list</i>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250	1	0	0	NR	NR	NR	1
<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	1	0	0	0	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	1	0	0	NR	NR	NR	1

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
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								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HIST LF	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
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
SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	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

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
UMTRA	0.500		0	0	0	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
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	2	NR	NR	NR	NR	NR	2
RAATS	TP		NR	NR	NR	NR	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
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
SMARS	0.500		0	0	0	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	1.000		0	0	0	0	NR	0
EDR US Hist Auto Stat	0.250		0	0	NR	NR	NR	0
EDR US Hist Cleaners	0.250		0	0	NR	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

A1 KANSAS CITY PUBLIC WORKS EAST GARAGE
Target 4725 COAL MINE RD
Property KANSAS CITY, MO 64103

RCRA-CESQG 1007106215
MOD981710726

Site 1 of 4 in cluster A

Actual:
764 ft.

RCRA-CESQG:
Date form received by agency: 12/10/2001
Facility name: KANSAS CITY PUBLIC WORKS EAST GARAGE
Facility address: 4725 COAL MINE RD
KANSAS CITY, MO 64103
EPA ID: MOD981710726
Mailing address: COAL MINE RD
KANSAS CITY, MO 64103
Contact: DOUGLAS MANNING
Contact address: 4700 COAL MINE RD
KANSAS CITY, MO 64103
Contact country: US
Contact telephone: (816) 923-4500
Contact email: Not reported
EPA Region: 07
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:
Owner/operator name: CITY OF KANSAS CITY, MO
Owner/operator address: 414 E 12TH ST
KANSAS CITY, MO 64111
Owner/operator country: Not reported
Owner/operator telephone: (816) 513-2531
Legal status: Municipal
Owner/Operator Type: Owner
Owner/Op start date: 01/01/0001
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

KANSAS CITY PUBLIC WORKS EAST GARAGE (Continued)

1007106215

Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:

Date form received by agency: 07/18/2001
Facility name: KANSAS CITY PUBLIC WORKS EAST GARAGE
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 02/25/1987
Facility name: KANSAS CITY PUBLIC WORKS EAST GARAGE
Classification: Small Quantity Generator

Violation Status: No violations found

A2 **KANSAS CITY PUBLIC WORKS EAST GARAGE**
Target **4725 COAL MINE ROAD**
Property **KANSAS CITY, MO**

FINDS **1007144472**
N/A

Site 2 of 4 in cluster A

Actual:
764 ft.

FINDS:

Registry ID: 110015929325

Environmental Interest/Information System

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

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

A3 **BOTT RADIO TOWERS**
Target **4725 COAL MINE RD**
Property **KANSAS CITY, MO**

FINDS **1014745491**
N/A

Site 3 of 4 in cluster A

Actual:
764 ft.

FINDS:

Registry ID: 110042545877

Environmental Interest/Information System

The MO-DNR (Missouri Department of Natural Resources) program involves a Resource Assessment and Monitoring Program, biological criteria

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

BOTT RADIO TOWERS (Continued)

1014745491

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.

**A4
 Target
 Property**

**STREET DISTRICT III
 4725 COAL MINE RD
 KANSAS CITY, MO 64130**

**LUST U000750050
 UST N/A**

Site 4 of 4 in cluster A

**Actual:
 764 ft.**

LUST:

Facility ID: ST0012671
 Region: KC - Kansas City Regional Office
 Lat/Long (dms): 39 2 243607 / 94 31 113231
 Spill Number: Not reported
 Release Date: 01/01/1991
 Release Type: UNDERGROUND STORAGE TANK
 Date Cleanup Started: 04/12/2001
 Date Cleanup Finished: 03/04/2004
 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: 3/16/2004
 Date Record Meets Archive Criteria: Not reported
 Remediation ID: R006276
 Rank: 49
 Emergency Response Date: Not reported
 Emergency Cleanup Start: Not reported
 Referred To DGLS for Investigation: 3
 Contractor Performing Clean Up: 332
 RBCA NFA: Yes
 Project Manager: 4
 Next Correspondence/Update With Fac: Not reported
 Date Added: 01/27/1999
 Date Record Edited: 11/10/2004
 Person Adding Or Editing Record: MUKHTAR, H
 Facility Sent To State Archive: No
 Date Remediation Unit Closed The File: Not reported
 Site Affectd By Funding Level From PSTIF: No
 General Comments:
 1/27/99.HM: Rev. site assessment report dated July 28, 1998. Soil contam. at B3, 4, 7, and B8. GW contamin at GW- and GW4. MTBE in GW. Requested further investigation of soil and GW.
 2/17/99. HM: Approved SC work plan dated March 3, 1999 with modification to include additional wells at B1 and B2.
 11/29/99. HM: Requested. SC report. 1/13/2000. HM: Revd. SC report of Dec. 14, 1999. Excessive contam. in soil and GW. Requested tightness test. empty tanks not tight, start closure, submit a CAP and start GW monit. on quart. basis.
 3/3/2000. HM: Recvd. letter of Feb. 17, 2000. waiting for test report and CAP by march 21,

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STREET DISTRICT III (Continued)

U000750050

2000.
3/27/2000. HM: Recvd. letter of March 22, 2000. Apprvd. exten. to receive cap and report by May 1, 2000.
5/16/2000. HM: Recvd. And reved letter of April 14, 2000 and approved WP of April 2000. Waiting for tightness test report.
6/28/2000. HM: recvd. Test results of May 31, 2000 and work plan of May 25, 2000. Approved dewatering the tank pit and waiting for more information.
7/10/2000. HM: recvd. Letter of June 27, 2000. Upadted Ms. Susan Randall by telephone on July 10, 2000. Suggested immedaite free product recovery if present. Letter filed.
7/18/2000. HM: Revd. Letters of June 27, and July 10, 2000, from PSI and prepared a response.
7/21/2000. HM: revd. Addendum to SC dated July 11, 2000. Contamin. Defined. Requestd a CAP.
7/24/2000. HM: Recvd letter of July 18, 2000, from PSI. Filed with no action.
10/18/2000. HM: Recvd letter of Oct. 9, 2000. Apporved extension for CAP.
3/14/2001. HM: revd and approvd CAP of Jan. 31, 2001, with modif for pilot testing for pump and treat or pit de-watering.
10/24/2001. HM: revd report of Oct. 1, 2001. Requestd a CAP and continue GW monito.
12/14/2001. HM: revd GW and remed report of Dec. 7, 2001. Requestd a CAP.
1/18/2002: HM: Revd GW report of Jan. 9, 2002. Signfic contam, recommended partial injection of ORC in the center of the plume.
6/5/2002: HM: Meeting with Dave Pate, John Stone, and Fred Hudson.
6/5/2002: HM: Revd GW report of May 28, 2002. Apporvd 4 quarters until RBCA guidance is complete.
9/9/2002: HM: Recvd report of August 27, 2002. Wating for next report.
5/2/02: HM: approvd FP WP of April 14, 03. 7/23/03: HM: Recvd FP report of may 29, 03.
7/25/03: HM: sent copy of FP report to the RAM Group. 12/11/03: HM: Requestd well aband based on Ram Group Report of May 27, 03. 03/4/04: HM: Recvd well abandmnt record of Jan 29, 04. Issued NFA. Not reported

UST:

Facility ID: ST0012671
Region: KC
Easting: 368128.142
Northing: 4322084.71
Owner Of Geospatial Data: Hazardous Waste Program
Geospatial Data Collected By: PELTZ, PATRICK

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STREET DISTRICT III (Continued)

U000750050

Date GIS Data Collected: Not reported
Lat/Long: 39.03788 / -94.52369
Lat/Long (dms): 39 2 243607 / 94 31 113231

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: Curently in use
Meet 98 Update Requirements: Yes
Date Tank Installed: 01/01/1975
Tank Material: Fiberglass
Code for Tank Material Manufacturer: Not reported
Code for Tank Installer: Not reported
Other Type Of Tank Material: Not reported
Tank Internal Protection: Not reported
Other Tank Internal Protection: Not reported
Tank Internal Protection Date: Not reported
Tank External Protection: Not reported
Other Type Tank Extrn Protec: Not reported
Tank External Protec Date: Not reported
Date Tank Last Used: 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
Date Record Added: 06/30/1995
Date Record Edited: 05/21/2013
Person Adding/Editing Record: SESSLER, D
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: 2018-09-30 00:00:00
LockOut Flag: No
Comments: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STREET DISTRICT III (Continued)

U000750050

Tank Compartment:

Tanks Use: False
Compartment No: 1
Tank Compartment PK: 31671
Tank PK: 31671
Case Number: Not reported
Compartment Status: Curently in use
Compartment Temp Verified Dt: Not reported
Capacity: 10000
Substance: Diesel
Substance Other: Not reported
Hazardous Substance: Not reported
Mixture: False
Date of Last Use: Not reported
Pipe Installation Date: 1991-01-01 00:00:00
Pipe System: 2
Pipe Material: 2
Pipe Material Other: Not reported
Pipe Protection: Not reported
Pipe Protection Date: Not reported
Pipe Double Wall: 0
Spill Protection: True

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: 2
Tank Double Wall: 0
Tank Type: Below Ground
Tank Status: Curently in use
Meet 98 Update Requirements: Yes
Date Tank Installed: 01/01/1975
Tank Material: Fiberglass
Code for Tank Material Manufacturer: Not reported
Code for Tank Installer: Not reported
Other Type Of Tank Material: Not reported
Tank Internal Protection: Not reported
Other Tank Internal Protection: Not reported
Tank Internal Protection Date: Not reported
Tank External Protection: Not reported
Other Type Tank Extrn Protec: Not reported
Tank External Protec Date: Not reported
Date Tank Last Used: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STREET DISTRICT III (Continued)

U000750050

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
Date Record Added: 06/30/1995
Date Record Edited: 05/21/2013
Person Adding/Editing Record: SESSLER, D
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: 2018-09-30 00:00:00
LockOut Flag: No
Comments: Not reported

Tank Compartment:

Tanks Use: False
Compartment No: 1
Tank Compartment PK: 31672
Tank PK: 31672
Case Number: Not reported
Compartment Status: Curently in use
Compartment Temp Verified Dt: Not reported
Capacity: 10000
Substance: Gasoline, Including Blends
Substance Other: Not reported
Hazardous Substance: Not reported
Mixture: False
Date of Last Use: Not reported
Pipe Installation Date: 1991-01-01 00:00:00
Pipe System: 2
Pipe Material: 2
Pipe Material Other: Not reported
Pipe Protection: Not reported
Pipe Protection Date: Not reported
Pipe Double Wall: 0
Spill Protection: True

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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STREET DISTRICT III (Continued)

U000750050

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: 01/01/1975
Tank Material: Fiberglass
Code for Tank Material Manufacturer: Not reported
Code for Tank Installer: Not reported
Other Type Of Tank Material: Not reported
Tank Internal Protection: Not reported
Other Tank Internal Protection: Not reported
Tank Internal Protection Date: Not reported
Tank External Protection: Not reported
Other Type Tank Extrn Protec: Not reported
Tank External Protec Date: Not reported
Date Tank Last Used: 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
Date Record Added: 06/30/1995
Date Record Edited: 05/21/2013
Person Adding/Editing Record: SESSLER, D
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: 2018-09-30 00:00:00
LockOut Flag: No
Comments: Not reported

Tank Compartment:
Tanks Use: False
Compartment No: 1
Tank Compartment PK: 31673
Tank PK: 31673
Case Number: Not reported
Compartment Status: Curently in use
Compartment Temp Verified Dt: Not reported
Capacity: 10000
Substance: Diesel
Substance Other: Not reported
Hazardous Substance: Not reported
Mixture: False
Date of Last Use: Not reported
Pipe Installation Date: 1991-01-01 00:00:00
Pipe System: 2
Pipe Material: 2

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STREET DISTRICT III (Continued)

U000750050

Pipe Material Other: Not reported
Pipe Protection: Not reported
Pipe Protection Date: Not reported
Pipe Double Wall: 0
Spill Protection: True

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: 5
Tank Double Wall: 0
Tank Type: Below Ground
Tank Status: Curently in use
Meet 98 Update Requirements: No
Date Tank Installed: 08/01/1998
Tank Material: Clad Steel
Code for Tank Material Manufacturer: Not reported
Code for Tank Installer: Not reported
Other Type Of Tank Material: Not reported
Tank Internal Protection: Not reported
Other Tank Internal Protection: Not reported
Tank Internal Protection Date: Not reported
Tank External Protection: Not reported
Other Type Tank Extn 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
Date Record Added: 05/03/1999
Date Record Edited: 05/21/2013
Person Adding/Editing Record: SESSLER, D
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: 2018-09-30 00:00:00

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STREET DISTRICT III (Continued)

U000750050

LockOut Flag: No
Comments: Not reported

Tank Compartment:
Tanks Use: False
Compartment No: 1
Tank Compartment PK: 31675
Tank PK: 31675
Case Number: Not reported
Compartment Status: Curently in use
Compartment Temp Verified Dt: Not reported
Capacity: 550
Substance: Used Oil
Substance Other: Not reported
Hazardous Substance: Not reported
Mixture: False
Date of Last Use: Not reported
Pipe Installation Date: Not reported
Pipe System: 4
Pipe Material: Not reported
Pipe Material Other: Not reported
Pipe Protection: Not reported
Pipe Protection Date: Not reported
Pipe Double Wall: 0
Spill Protection: True

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: 4
Tank Double Wall: 0
Tank Type: Below Ground
Tank Status: Removed
Meet 98 Update Requirements: No
Date Tank Installed: 01/01/1975
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 Extrn Protec: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STREET DISTRICT III (Continued)

U000750050

Tank External Protec Date: Not reported
Date Tank Last Used: 08/01/1998
Date Tank Permanently Closed/ Removed: 08/04/1998
Dt Tk Exp Brought InUse/Internal Tracking: Not reported
Tank Fees Waived: No
Expedite Closure On Tank?: No
Responsible Person Expediting Closure: Not reported
Temporary Status Verified Date: Not reported
Admin Fee 585: Not reported
Date Administratively Closed: Not reported
Date Record Added: 09/11/1997
Date Record Edited: 05/03/2001
Person Adding/Editing Record: EVERS, L
Date Of NFA Letter: 12/07/1998
Is Tank Used For Emergency Generator: No
Date Closure Notice Received: 07/16/1998
Date Of Approval Letter: 1998-07-24 00:00:00
Firm Closing Tank: DOUBLE CHECK
Date Closure Report Received: 1998-10-28 00:00:00
Registration End Date: Not reported
LockOut Flag: No
Comments: 12-7-1998 NFA ISSUED

Tank Compartment:

Tanks Use: False
Compartment No: 1
Tank Compartment PK: 31674
Tank PK: 31674
Case Number: Not reported
Compartment Status: Removed
Compartment Temp Verified Dt: Not reported
Capacity: 560
Substance: Used Oil
Substance Other: Not reported
Hazardous Substance: Not reported
Mixture: False
Date of Last Use: 1998-08-01 00:00:00
Pipe Installation Date: 1975-01-01 00:00:00
Pipe System: 4
Pipe Material: 0
Pipe Material Other: Not reported
Pipe Protection: Not reported
Pipe Protection Date: Not reported
Pipe Double Wall: 0
Spill Protection: False

Tank Aug 2011:

Facility Id: ST0012671
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STREET DISTRICT III (Continued)

U000750050

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: ST0012671
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: ST0012671
Tank Id: 3
Site Usage: Not reported
Risk Type: Not reported
Soil Type: Not reported
GW Flow: Not reported
Offsite Impact: Not reported
Free Product: Not reported
Drinking Water: Not reported
Closed Under: Not reported
No Drinking Wells: No
No Buildings: No
Vapor Barrier: 0
St Louis Mo: No
Special Well Area: No
Surface Cap: No
No Excavation: No

Facility Id: ST0012671
Tank Id: 5
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

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

STREET DISTRICT III (Continued)

U000750050

Vapor Barrier:	0
St Louis Mo:	No
Special Well Area:	No
Surface Cap:	No
No Excavation:	No
Facility Id:	ST0012671
Tank Id:	4
Site Usage:	Not reported
Risk Type:	Not reported
Soil Type:	Not reported
GW Flow:	Not reported
Offsite Impact:	Not reported
Free Product:	Not reported
Drinking Water:	Not reported
Closed Under:	Not reported
No Drinking Wells:	No
No Buildings:	No
Vapor Barrier:	0
St Louis Mo:	No
Special Well Area:	No
Surface Cap:	No
No Excavation:	No

5
North
1/2-1
0.786 mi.
4150 ft.

GM LEEDS PLANT
6817 STADIUM DRIVE
KANSAS CITY, MO 64129

SHWS S105568417
SMARS N/A

Relative:
Lower

Missouri Hazardous Waste:

Actual:
763 ft.

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
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

SMARS:
 SM Number: 10764
 CERCLIS: MOD000822668

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GM LEEDS PLANT (Continued)

S105568417

Ownership:	Superfund
Superfund Ownership:	True
Voluntary Cleanup Ownership:	False
Federal Facilities Ownership:	False
Permits Ownership:	False
NPL Date:	Not reported
Tank Site Identification #:	Not reported
Tank Remediation #:	Not reported
Registry:	True

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, SPILLS, NPDES, AIRS
JACKSON COUNTY	S106614813	LEE'S SUMMIT SANITARY LANDFILL	HWY 50 TO HAMBLER RD, S. 2 MIL		HIST LF, Financial Assurance
JACKSON COUNTY	S106614782	SOUTHEAST SANITARY LANDFILL	BRUCE R. WATKINS FREEWAY & HWY		HIST LF, Financial Assurance
JACKSON COUNTY	S106614841	INDEPENDENCE SOLID WASTE TRANSFER	FIVE-TENTHS MILES E OF HWY 291		HIST LF
JACKSON COUNTY	S106614830	COURTNEY RIDGE LANDFILL	TWO MILES NE OF SUGAR CREEK, E		SWF/LF, HIST LF, Financial Assurance
KANSAS CITY	1014741945	JAMES CAPE & SONS CO - N OAK KANSA	152 HWY & N OAK		FINDS
KANSAS CITY	1008235388	CLARKSON CONSTRUCTION CO - KANSAS	RTE 150 & PROSPECT		FINDS
KANSAS CITY	1014754536	CLARKSON CONSTRUCTION CO - KANSAS	RTE 152 & GREENHILLS ROAD		FINDS
KANSAS CITY	1008246639	CLARKSON CONSTRUCTION CO - KANSAS	EAST 31ST ST & HWY 71		FINDS
KANSAS CITY	1014769061	QUALITY AGGREGATES, LLC - KANSAS C	HWY 350 & NOLAND ROAD		FINDS
KANSAS CITY	U003981090	CAMPER'S CORNER	10005 E 40 HWY	64128	LUST, UST
KANSAS CITY	U003981089	BAMBOO HUT	10111 E 40 HWY	64128	LUST, UST
KANSAS CITY	1008236845	LOCH SAND & CONSTRUCTION CO-KANSAS	HWY 45		FINDS
KANSAS CITY	1014631112	KANSAS CITY POWER & LIGHT CO.	BLUE VALLEY SUBSTATION 53, 780		PCB TRANSFORMER
KANSAS CITY	1014626594	KANSAS CITY POWER & LIGHT CO.	BLUE VALLEY SUBSTATION 53, 780		PCB TRANSFORMER
KANSAS CITY	1014626324	KANSAS CITY POWER & LIGHT CO.	BLUE VALLEY SUBSTATION 53, 780		PCB TRANSFORMER
KANSAS CITY	1007139836	KANSAS CITY FIRE STATION #43	12900 EAST HIGHWAY 350		FINDS
KANSAS CITY	U003981088	HALE TRAILER PARK	10009 E HWY 40	64128	LUST, UST
KANSAS CITY	1006298774	KANSAS CITY 210-291 DEMO	JCT HWY 210 & 291		FINDS
KANSAS CITY	1016045845	KANSAS CITY 210 AND 291 DEMO DEBRI	JUNCTION OF HWY 210 AND 291		FINDS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/26/2013	Source: EPA
Date Data Arrived at EDR: 05/09/2013	Telephone: N/A
Date Made Active in Reports: 07/10/2013	Last EDR Contact: 11/11/2013
Number of Days to Update: 62	Next Scheduled EDR Contact: 01/20/2014
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/26/2013	Source: EPA
Date Data Arrived at EDR: 05/09/2013	Telephone: N/A
Date Made Active in Reports: 07/10/2013	Last EDR Contact: 11/11/2013
Number of Days to Update: 62	Next Scheduled EDR Contact: 01/20/2014
	Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/15/2011
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/26/2013	Source: EPA
Date Data Arrived at EDR: 05/09/2013	Telephone: N/A
Date Made Active in Reports: 07/10/2013	Last EDR Contact: 11/11/2013
Number of Days to Update: 62	Next Scheduled EDR Contact: 01/20/2014
	Data Release Frequency: Quarterly

Federal CERCLIS list

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

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 04/26/2013	Source: EPA
Date Data Arrived at EDR: 05/29/2013	Telephone: 703-412-9810
Date Made Active in Reports: 08/09/2013	Last EDR Contact: 11/11/2013
Number of Days to Update: 72	Next Scheduled EDR Contact: 12/09/2013
	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: 07/31/2012	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/09/2012	Telephone: 703-603-8704
Date Made Active in Reports: 12/20/2012	Last EDR Contact: 10/11/2013
Number of Days to Update: 72	Next Scheduled EDR Contact: 01/20/2014
	Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 04/26/2013	Source: EPA
Date Data Arrived at EDR: 05/29/2013	Telephone: 703-412-9810
Date Made Active in Reports: 08/09/2013	Last EDR Contact: 11/11/2013
Number of Days to Update: 72	Next Scheduled EDR Contact: 12/09/2013
	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: 07/11/2013
Date Data Arrived at EDR: 08/08/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 36

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 10/02/2013
Next Scheduled EDR Contact: 01/13/2014
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: 07/11/2013
Date Data Arrived at EDR: 08/08/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: 913-551-7003
Last EDR Contact: 10/02/2013
Next Scheduled EDR Contact: 01/13/2014
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: 07/11/2013
Date Data Arrived at EDR: 08/08/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: 913-551-7003
Last EDR Contact: 10/02/2013
Next Scheduled EDR Contact: 01/13/2014
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: 07/11/2013
Date Data Arrived at EDR: 08/08/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: 913-551-7003
Last EDR Contact: 10/02/2013
Next Scheduled EDR Contact: 01/13/2014
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: 07/11/2013
Date Data Arrived at EDR: 08/08/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: 913-551-7003
Last EDR Contact: 10/02/2013
Next Scheduled EDR Contact: 01/13/2014
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 06/17/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/21/2013	Telephone: 703-603-0695
Date Made Active in Reports: 10/03/2013	Last EDR Contact: 09/10/2013
Number of Days to Update: 104	Next Scheduled EDR Contact: 12/23/2013
	Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 06/17/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/21/2013	Telephone: 703-603-0695
Date Made Active in Reports: 10/03/2013	Last EDR Contact: 09/10/2013
Number of Days to Update: 104	Next Scheduled EDR Contact: 12/23/2013
	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: 08/20/2013	Source: Department of the Navy
Date Data Arrived at EDR: 08/23/2013	Telephone: 843-820-7326
Date Made Active in Reports: 11/01/2013	Last EDR Contact: 11/18/2013
Number of Days to Update: 70	Next Scheduled EDR Contact: 03/03/2014
	Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2012	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 01/17/2013	Telephone: 202-267-2180
Date Made Active in Reports: 02/15/2013	Last EDR Contact: 10/01/2013
Number of Days to Update: 29	Next Scheduled EDR Contact: 01/13/2014
	Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

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: 06/30/2012	Source: Department of Natural Resources
Date Data Arrived at EDR: 03/14/2013	Telephone: 573-751-3176
Date Made Active in Reports: 04/23/2013	Last EDR Contact: 09/06/2013
Number of Days to Update: 40	Next Scheduled EDR Contact: 07/02/5007
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 06/07/2013	Source: Department of Natural Resources
Date Data Arrived at EDR: 06/07/2013	Telephone: 573-751-1990
Date Made Active in Reports: 07/03/2013	Last EDR Contact: 09/03/2013
Number of Days to Update: 26	Next Scheduled EDR Contact: 12/16/2013
	Data Release Frequency: Quarterly

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: 04/25/2013	Source: Department of Natural Resources
Date Data Arrived at EDR: 04/26/2013	Telephone: 573-751-5401
Date Made Active in Reports: 05/24/2013	Last EDR Contact: 11/18/2013
Number of Days to Update: 28	Next Scheduled EDR Contact: 03/03/2014
	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: 09/17/2013	Source: Department of Natural Resources
Date Data Arrived at EDR: 09/18/2013	Telephone: 573-751-0135
Date Made Active in Reports: 10/28/2013	Last EDR Contact: 09/18/2013
Number of Days to Update: 40	Next Scheduled EDR Contact: 12/30/2013
	Data Release Frequency: Semi-Annually

LAST: Leaking Aboveground Storage Tanks

A listing of leaking aboveground storage tanks.

Date of Government Version: 09/17/2013	Source: Department of Natural Resources
Date Data Arrived at EDR: 09/18/2013	Telephone: 573-751-6822
Date Made Active in Reports: 10/28/2013	Last EDR Contact: 09/18/2013
Number of Days to Update: 40	Next Scheduled EDR Contact: 12/30/2013
	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: 07/29/2013	Source: EPA Region 10
Date Data Arrived at EDR: 07/30/2013	Telephone: 206-553-2857
Date Made Active in Reports: 11/01/2013	Last EDR Contact: 10/28/2013
Number of Days to Update: 94	Next Scheduled EDR Contact: 02/11/2014
	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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/01/2013
Date Data Arrived at EDR: 03/01/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 42

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Quarterly

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

Date of Government Version: 08/27/2012
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 8
Telephone: 303-312-6271
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Quarterly

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

Date of Government Version: 08/27/2013
Date Data Arrived at EDR: 08/27/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 66

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Varies

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

Date of Government Version: 09/12/2011
Date Data Arrived at EDR: 09/13/2011
Date Made Active in Reports: 11/11/2011
Number of Days to Update: 59

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Varies

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

Date of Government Version: 08/01/2013
Date Data Arrived at EDR: 08/02/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 91

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Semi-Annually

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

Date of Government Version: 02/01/2013
Date Data Arrived at EDR: 05/01/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 184

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 11/01/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Varies

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

Date of Government Version: 08/20/2013
Date Data Arrived at EDR: 08/23/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 70

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Varies

State and tribal registered storage tank lists

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 09/17/2013
Date Data Arrived at EDR: 09/18/2013
Date Made Active in Reports: 10/28/2013
Number of Days to Update: 40

Source: Department of Natural Resources
Telephone: 573-751-0135
Last EDR Contact: 09/18/2013
Next Scheduled EDR Contact: 12/30/2013
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tanks Registered Aboveground Storage Tanks.

Date of Government Version: 09/17/2013
Date Data Arrived at EDR: 09/20/2013
Date Made Active in Reports: 10/28/2013
Number of Days to Update: 38

Source: Department of Agriculture
Telephone: 573-751-7062
Last EDR Contact: 09/16/2013
Next Scheduled EDR Contact: 12/30/2013
Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

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

Date of Government Version: 08/20/2013
Date Data Arrived at EDR: 08/23/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 70

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

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

Date of Government Version: 09/28/2012
Date Data Arrived at EDR: 11/07/2012
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 156

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 11/01/2014
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

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

Date of Government Version: 08/01/2013
Date Data Arrived at EDR: 08/02/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 91

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Semi-Annually

INDIAN UST R10: Underground Storage Tanks on Indian Land

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

Date of Government Version: 02/05/2013
Date Data Arrived at EDR: 02/06/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 65

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN UST R9: Underground Storage Tanks on Indian Land

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

Date of Government Version: 02/21/2013	Source: EPA Region 9
Date Data Arrived at EDR: 02/26/2013	Telephone: 415-972-3368
Date Made Active in Reports: 04/12/2013	Last EDR Contact: 10/28/2013
Number of Days to Update: 45	Next Scheduled EDR Contact: 02/11/2014
	Data Release Frequency: Quarterly

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: 07/29/2013	Source: EPA Region 8
Date Data Arrived at EDR: 08/01/2013	Telephone: 303-312-6137
Date Made Active in Reports: 11/01/2013	Last EDR Contact: 10/28/2013
Number of Days to Update: 92	Next Scheduled EDR Contact: 02/11/2014
	Data Release Frequency: Quarterly

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: 12/31/2012	Source: EPA Region 7
Date Data Arrived at EDR: 02/28/2013	Telephone: 913-551-7003
Date Made Active in Reports: 04/12/2013	Last EDR Contact: 10/28/2013
Number of Days to Update: 43	Next Scheduled EDR Contact: 02/11/2014
	Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

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

Date of Government Version: 05/10/2011	Source: EPA Region 6
Date Data Arrived at EDR: 05/11/2011	Telephone: 214-665-7591
Date Made Active in Reports: 06/14/2011	Last EDR Contact: 10/28/2013
Number of Days to Update: 34	Next Scheduled EDR Contact: 02/11/2014
	Data Release Frequency: Semi-Annually

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: 10/17/2013
Number of Days to Update: 55	Next Scheduled EDR Contact: 01/27/2014
	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: 07/09/2013	Source: Department of Natural Resources
Date Data Arrived at EDR: 08/20/2013	Telephone: 573-751-3176
Date Made Active in Reports: 09/18/2013	Last EDR Contact: 08/20/2013
Number of Days to Update: 29	Next Scheduled EDR Contact: 12/02/2013
	Data Release Frequency: Varies

State and tribal voluntary cleanup sites

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 10/01/2013
Number of Days to Update: 14	Next Scheduled EDR Contact: 01/13/2014
	Data Release Frequency: Varies

VCP: Sites Participating in the Voluntary Cleanup Program

Sites participating in the Voluntary Cleanup Program.

Date of Government Version: 07/09/2013	Source: Department of Natural Resources
Date Data Arrived at EDR: 08/20/2013	Telephone: 573-526-8913
Date Made Active in Reports: 09/18/2013	Last EDR Contact: 08/20/2013
Number of Days to Update: 29	Next Scheduled EDR Contact: 12/02/2013
	Data Release Frequency: Semi-Annually

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

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: 07/09/2013	Source: Department of Natural Resources
Date Data Arrived at EDR: 08/20/2013	Telephone: 573-526-8913
Date Made Active in Reports: 09/18/2013	Last EDR Contact: 08/20/2013
Number of Days to Update: 29	Next Scheduled EDR Contact: 12/02/2013
	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: 06/24/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/25/2013	Telephone: 202-566-2777
Date Made Active in Reports: 08/09/2013	Last EDR Contact: 09/24/2013
Number of Days to Update: 45	Next Scheduled EDR Contact: 01/08/2014
	Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

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

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

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: 09/06/2013
Next Scheduled EDR Contact: 12/16/2013
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: 11/04/2013
Next Scheduled EDR Contact: 02/17/2014
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 08/06/2013
Date Data Arrived at EDR: 09/11/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 22

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 09/04/2013
Next Scheduled EDR Contact: 12/16/2013
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 06/07/2013	Source: Department of Natural Resources
Date Data Arrived at EDR: 06/07/2013	Telephone: 573-522-3710
Date Made Active in Reports: 07/03/2013	Last EDR Contact: 09/03/2013
Number of Days to Update: 26	Next Scheduled EDR Contact: 12/16/2013
	Data Release Frequency: Annually

CDL: Environmental Emergency Response System

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

Date of Government Version: 08/29/2013	Source: Department of Natural Resources
Date Data Arrived at EDR: 09/18/2013	Telephone: 573-751-3443
Date Made Active in Reports: 10/28/2013	Last EDR Contact: 09/18/2013
Number of Days to Update: 40	Next Scheduled EDR Contact: 12/30/2013
	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: 02/06/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/25/2013	Telephone: 202-564-6023
Date Made Active in Reports: 05/10/2013	Last EDR Contact: 11/13/2013
Number of Days to Update: 15	Next Scheduled EDR Contact: 02/11/2014
	Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

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

Date of Government Version: 12/31/2012	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 01/03/2013	Telephone: 202-366-4555
Date Made Active in Reports: 02/27/2013	Last EDR Contact: 10/01/2013
Number of Days to Update: 55	Next Scheduled EDR Contact: 01/13/2014
	Data Release Frequency: Annually

SPILLS: Environmental Response Tracking Database

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/29/2013
Date Data Arrived at EDR: 09/18/2013
Date Made Active in Reports: 10/28/2013
Number of Days to Update: 40

Source: Department of Natural Resources
Telephone: 573-526-3349
Last EDR Contact: 09/18/2013
Next Scheduled EDR Contact: 12/01/2013
Data Release Frequency: Semi-Annually

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/27/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators

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

Date of Government Version: 07/11/2013
Date Data Arrived at EDR: 08/08/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: 913-551-7003
Last EDR Contact: 10/02/2013
Next Scheduled EDR Contact: 01/13/2014
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: 11/06/2013
Next Scheduled EDR Contact: 02/17/2014
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: 10/18/2013
Next Scheduled EDR Contact: 01/27/2014
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 15

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 09/10/2013
Next Scheduled EDR Contact: 12/23/2013
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 06/30/2013	Source: Department of Justice, Consent Decree Library
Date Data Arrived at EDR: 08/07/2013	Telephone: Varies
Date Made Active in Reports: 10/03/2013	Last EDR Contact: 09/30/2013
Number of Days to Update: 57	Next Scheduled EDR Contact: 01/13/2014
	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: 04/26/2013	Source: EPA
Date Data Arrived at EDR: 06/11/2013	Telephone: 703-416-0223
Date Made Active in Reports: 11/01/2013	Last EDR Contact: 09/13/2013
Number of Days to Update: 143	Next Scheduled EDR Contact: 12/23/2013
	Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010	Source: Department of Energy
Date Data Arrived at EDR: 10/07/2011	Telephone: 505-845-0011
Date Made Active in Reports: 03/01/2012	Last EDR Contact: 05/28/2013
Number of Days to Update: 146	Next Scheduled EDR Contact: 09/09/2013
	Data Release Frequency: Varies

US MINES: Mines Master Index File

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

Date of Government Version: 08/01/2013	Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 09/05/2013	Telephone: 303-231-5959
Date Made Active in Reports: 10/03/2013	Last EDR Contact: 09/05/2013
Number of Days to Update: 28	Next Scheduled EDR Contact: 12/16/2013
	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: 12/31/2011	Source: EPA
Date Data Arrived at EDR: 07/31/2013	Telephone: 202-566-0250
Date Made Active in Reports: 09/13/2013	Last EDR Contact: 08/30/2013
Number of Days to Update: 44	Next Scheduled EDR Contact: 12/09/2013
	Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2006	Source: EPA
Date Data Arrived at EDR: 09/29/2010	Telephone: 202-260-5521
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 09/24/2013
Number of Days to Update: 64	Next Scheduled EDR Contact: 01/08/2014
	Data Release Frequency: Every 4 Years

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
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: 08/22/2013
Next Scheduled EDR Contact: 12/09/2013
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: 08/22/2013
Next Scheduled EDR Contact: 12/09/2013
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

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

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

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

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

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

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

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

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: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/10/2011	Telephone: 202-564-5088
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 10/09/2014
Number of Days to Update: 61	Next Scheduled EDR Contact: 01/27/2014
	Data Release Frequency: Quarterly

PADS: PCB Activity Database System

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

Date of Government Version: 06/01/2013	Source: EPA
Date Data Arrived at EDR: 07/17/2013	Telephone: 202-566-0500
Date Made Active in Reports: 11/01/2013	Last EDR Contact: 10/18/2013
Number of Days to Update: 107	Next Scheduled EDR Contact: 01/27/2014
	Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/22/2013	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 08/02/2013	Telephone: 301-415-7169
Date Made Active in Reports: 11/01/2013	Last EDR Contact: 09/10/2013
Number of Days to Update: 91	Next Scheduled EDR Contact: 12/23/2013
	Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 09/30/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/09/2013	Telephone: 202-343-9775
Date Made Active in Reports: 11/01/2013	Last EDR Contact: 10/09/2013
Number of Days to Update: 23	Next Scheduled EDR Contact: 01/20/2014
	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: 03/08/2013	Source: EPA
Date Data Arrived at EDR: 03/21/2013	Telephone: (913) 551-7003
Date Made Active in Reports: 07/10/2013	Last EDR Contact: 09/11/2013
Number of Days to Update: 111	Next Scheduled EDR Contact: 12/23/2013
	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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 05/08/2012
Date Data Arrived at EDR: 05/25/2012
Date Made Active in Reports: 07/10/2012
Number of Days to Update: 46

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 04/19/2013
Number of Days to Update: 52

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 08/26/2013
Next Scheduled EDR Contact: 12/09/2013
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: 09/09/2013
Date Data Arrived at EDR: 09/10/2013
Date Made Active in Reports: 10/25/2013
Number of Days to Update: 45

Source: Department of Natural Resources
Telephone: 573-368-2183
Last EDR Contact: 09/10/2013
Next Scheduled EDR Contact: 12/09/2013
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.

Date of Government Version: 09/16/2013
Date Data Arrived at EDR: 09/17/2013
Date Made Active in Reports: 10/28/2013
Number of Days to Update: 41

Source: Department of Natural Resources
Telephone: 573-526-8913
Last EDR Contact: 09/16/2013
Next Scheduled EDR Contact: 12/30/2013
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: 09/16/2013
Date Data Arrived at EDR: 09/18/2013
Date Made Active in Reports: 10/28/2013
Number of Days to Update: 40

Source: Department of Natural Resources
Telephone: 573-751-3176
Last EDR Contact: 09/16/2013
Next Scheduled EDR Contact: 12/30/2013
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NPDES: Permitted Facility Listing

A listing of permitted facilities from the Water Pollution Branch.

Date of Government Version: 10/07/2013	Source: Department of Natural Resources
Date Data Arrived at EDR: 10/08/2013	Telephone: 573-751-7023
Date Made Active in Reports: 10/31/2013	Last EDR Contact: 07/03/2013
Number of Days to Update: 23	Next Scheduled EDR Contact: 01/20/2014
	Data Release Frequency: Varies

AIRS: Permit Facility Listing

A listing of Air Pollution Control Program permits.

Date of Government Version: 09/17/2013	Source: Department of Natural Resources
Date Data Arrived at EDR: 09/18/2013	Telephone: 573-751-4817
Date Made Active in Reports: 10/25/2013	Last EDR Contact: 09/16/2013
Number of Days to Update: 37	Next Scheduled EDR Contact: 12/30/2013
	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: 10/18/2013
Number of Days to Update: 34	Next Scheduled EDR Contact: 01/27/2014
	Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011	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: 11/18/2013
Number of Days to Update: 54	Next Scheduled EDR Contact: 02/03/2014
	Data Release Frequency: Varies

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 04/15/2013	Source: EPA
Date Data Arrived at EDR: 07/03/2013	Telephone: 202-564-6023
Date Made Active in Reports: 09/13/2013	Last EDR Contact: 10/04/2013
Number of Days to Update: 72	Next Scheduled EDR Contact: 01/13/2014
	Data Release Frequency: Quarterly

MINES: Industrial Mineral Mines Database

This data set contains names, locations and additional data for active Industrial Mineral Mines permitted with the Missouri Department of Natural Resources, Division of Environmental Quality, Land Reclamation Program. Industrial Mineral Mines permitted are rock quarries, clay pits, sand and gravel pits, or in-stream sand and gravel operations.

Date of Government Version: 10/24/2008	Source: Department of Natural Resources
Date Data Arrived at EDR: 12/17/2012	Telephone: 573-751-4041
Date Made Active in Reports: 12/21/2012	Last EDR Contact: 10/25/2013
Number of Days to Update: 4	Next Scheduled EDR Contact: 02/03/2014
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SMARS: Site Management and Reporting System

SMARS currently houses information for Superfund, Federal Facility, Brownfields Voluntary Cleanup Program and Missouri's other state response programs.

Date of Government Version: 08/07/2013	Source: Department of Natural Resources
Date Data Arrived at EDR: 08/08/2013	Telephone: 573-751-3043
Date Made Active in Reports: 08/14/2013	Last EDR Contact: 11/04/2013
Number of Days to Update: 6	Next Scheduled EDR Contact: 02/17/2014
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/18/2012	Telephone: 703-308-4044
Date Made Active in Reports: 05/25/2012	Last EDR Contact: 11/15/2013
Number of Days to Update: 7	Next Scheduled EDR Contact: 02/24/2014
	Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

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

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

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 01/29/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/14/2013	Telephone: 703-603-8787
Date Made Active in Reports: 02/27/2013	Last EDR Contact: 09/24/2013
Number of Days to Update: 13	Next Scheduled EDR Contact: 01/20/2014
	Data Release Frequency: Varies

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: 10/18/2013
Number of Days to Update: 339	Next Scheduled EDR Contact: 01/27/2014
	Data Release Frequency: N/A

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

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/23/2013
Date Data Arrived at EDR: 01/30/2013
Date Made Active in Reports: 05/10/2013
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-5962
Last EDR Contact: 09/30/2013
Next Scheduled EDR Contact: 01/13/2014
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 01/23/2013
Date Data Arrived at EDR: 01/30/2013
Date Made Active in Reports: 05/10/2013
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-5962
Last EDR Contact: 09/30/2013
Next Scheduled EDR Contact: 01/13/2014
Data Release Frequency: Annually

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: 06/30/2013
Date Data Arrived at EDR: 08/13/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 11/15/2013
Next Scheduled EDR Contact: 02/24/2014
Data Release Frequency: Quarterly

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: 03/04/2013
Date Data Arrived at EDR: 03/15/2013
Date Made Active in Reports: 05/10/2013
Number of Days to Update: 56

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 11/18/2013
Next Scheduled EDR Contact: 03/03/2014
Data Release Frequency: Quarterly

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: 11/01/2013
Next Scheduled EDR Contact: 02/11/2014
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: 10/15/2013
Next Scheduled EDR Contact: 01/27/2014
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 09/13/2013
Next Scheduled EDR Contact: 12/23/2013
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information.

Date of Government Version: 09/10/2013
Date Data Arrived at EDR: 09/13/2013
Date Made Active in Reports: 10/25/2013
Number of Days to Update: 42

Source: Department of Natural Resources
Telephone: 573-751-3553
Last EDR Contact: 09/10/2013
Next Scheduled EDR Contact: 12/23/2013
Data Release Frequency: Varies

COAL ASH: Coal Ash Disposal Sites

A listing of power plants with coal ash ponds.

Date of Government Version: 10/07/2013
Date Data Arrived at EDR: 10/08/2013
Date Made Active in Reports: 10/28/2013
Number of Days to Update: 20

Source: Department of Natural Resources
Telephone: 573-526-1825
Last EDR Contact: 10/07/2013
Next Scheduled EDR Contact: 01/20/2014
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

Date of Government Version: 09/11/2013
Date Data Arrived at EDR: 09/12/2013
Date Made Active in Reports: 10/25/2013
Number of Days to Update: 43

Source: Department of Natural Resources
Telephone: 573-751-5401
Last EDR Contact: 09/12/2013
Next Scheduled EDR Contact: 12/23/2013
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

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

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

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

EDR US Hist Auto Stat: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Exclusive Historic Dry Cleaners

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

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

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Auto Stat: EDR Proprietary Historic Gas Stations - Cole

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: N/A
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Proprietary Historic Dry Cleaners - Cole

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: N/A
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013
Date Data Arrived at EDR: 08/19/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 08/19/2013
Next Scheduled EDR Contact: 12/02/2013
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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 11/01/2013
Date Data Arrived at EDR: 11/07/2013
Date Made Active in Reports: 11/18/2013
Number of Days to Update: 11

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 11/07/2013
Next Scheduled EDR Contact: 02/17/2014
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 07/24/2013
Date Made Active in Reports: 08/19/2013
Number of Days to Update: 26

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 10/21/2013
Next Scheduled EDR Contact: 02/03/2014
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 06/21/2013
Date Made Active in Reports: 08/05/2013
Number of Days to Update: 45

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 08/23/2013
Next Scheduled EDR Contact: 12/09/2013
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 08/09/2013
Date Made Active in Reports: 09/27/2013
Number of Days to Update: 49

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 09/16/2013
Next Scheduled EDR Contact: 12/30/2013
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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.

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

KANSAS CITY MISSOURI PUBLIC WORKS EAST GARAGE
4635 EAST COAL MINE RD AND 4725 EAST COAL MINE RD
KANSAS CITY, MO 64129

TARGET PROPERTY COORDINATES

Latitude (North):	39.0426 - 39° 2' 33.36"
Longitude (West):	94.5082 - 94° 30' 29.52"
Universal Tranverse Mercator:	Zone 15
UTM X (Meters):	369474.2
UTM Y (Meters):	4322378.0
Elevation:	764 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	39094-A5 KANSAS CITY, MO KS
Most Recent Revision:	1996
East Map:	39094-A4 INDEPENDENCE, MO
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).

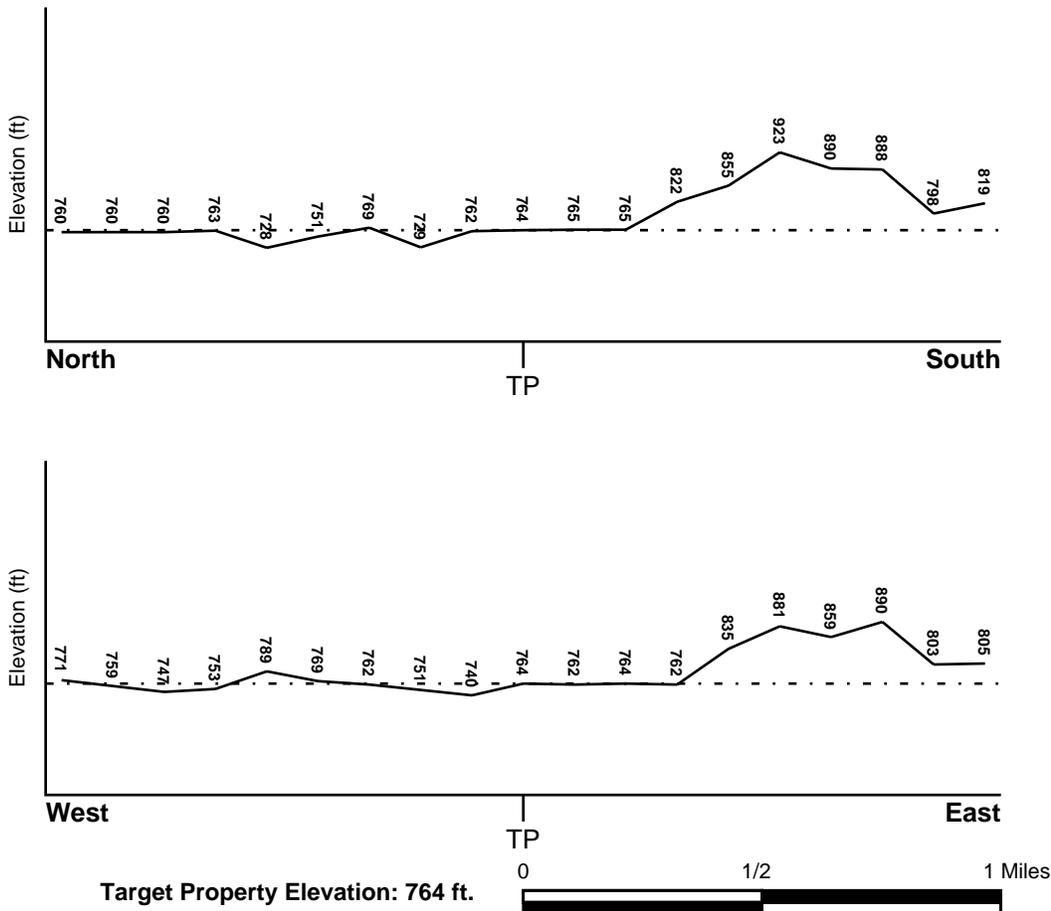
TOPOGRAPHIC INFORMATION

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 NNW

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
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> KANSAS CITY	<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

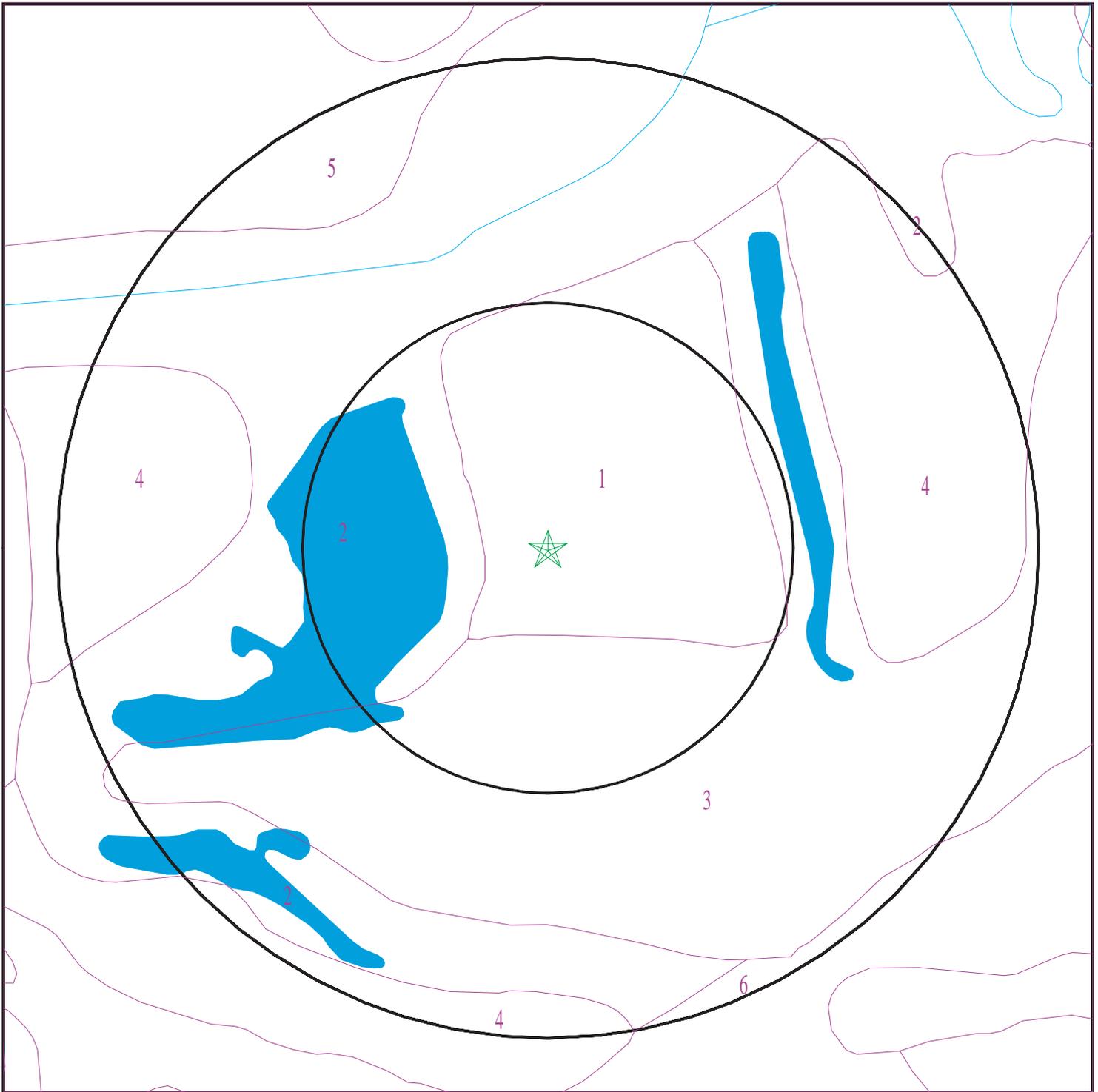
Era:	Paleozoic
System:	Pennsylvanian
Series:	Missourian Series
Code:	PP3 (<i>decoded above as Era, System & Series</i>)

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 - 3789859.2s



- ★ Target Property
- SSURGO Soil
- Water



SITE NAME: Kansas City Missouri Public Works East Garage
ADDRESS: 4635 East Coal Mine Rd and 4725 East Coal Mine Rd
Kansas City MO 64129
LAT/LONG: 39.0426 / 94.5082

CLIENT: Tetra Tech EMI
CONTACT: Kumud Pyakuryal
INQUIRY #: 3789859.2s
DATE: November 19, 2013 3:52 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: Bremer

Soil Surface Texture: silt loam

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

Soil Drainage Class: Poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 46 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	20 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: 5.6
2	20 inches	44 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 4 Min: 1.4	Max: 6.5 Min: 5.6
3	44 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 50% or more), Fat Clay.	Max: 4 Min: 1.4	Max: 6.5 Min: 5.6

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 2

Soil Component Name: Kennebec

Soil Surface Texture: silt loam

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

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 122 inches

Soil Layer Information							
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: 5.6
2	18 inches	59 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 Soils.	Max: 14 Min: 4	Max: 7.3 Min: 6.1

Soil Map ID: 3

Soil Component Name: Colo

Soil Surface Texture: silty clay loam

Hydrologic Group: Class B/D - Drained/undrained hydrology class of soils that can be drained and are classified.

Soil Drainage Class: Poorly drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 7.3 Min: 5.6
2	5 inches	35 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 7.3 Min: 5.6
3	35 inches	62 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 7.3 Min: 6.1

Soil Map ID: 4

Soil Component Name: Wiota

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: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
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), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 14 Min: 4	Max: 7.3 Min: 5.6
2	11 inches	46 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 14 Min: 4	Max: 6.5 Min: 5.1
3	46 inches	59 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 14 Min: 4	Max: 6.5 Min: 6.1

Soil Map ID: 5

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: 6

Soil Component Name: Snead

Soil Surface Texture: flaggy silty clay loam

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

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 76 inches

Depth to Watertable Min: > 76 inches

Soil Layer Information							
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.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 4 Min: 1.4	Max: 7.3 Min: 6.1
2	11 inches	31 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 8.4 Min: 6.6

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
3	31 inches	40 inches	bedrock	Not reported	Not reported	Max: 0.11 Min: 0	Max: Min:

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	USGS40000697329	1/2 - 1 Mile NNE
3	USGS40000697275	1/2 - 1 Mile South

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>
2	MOLOG1000021835	1/2 - 1 Mile North

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

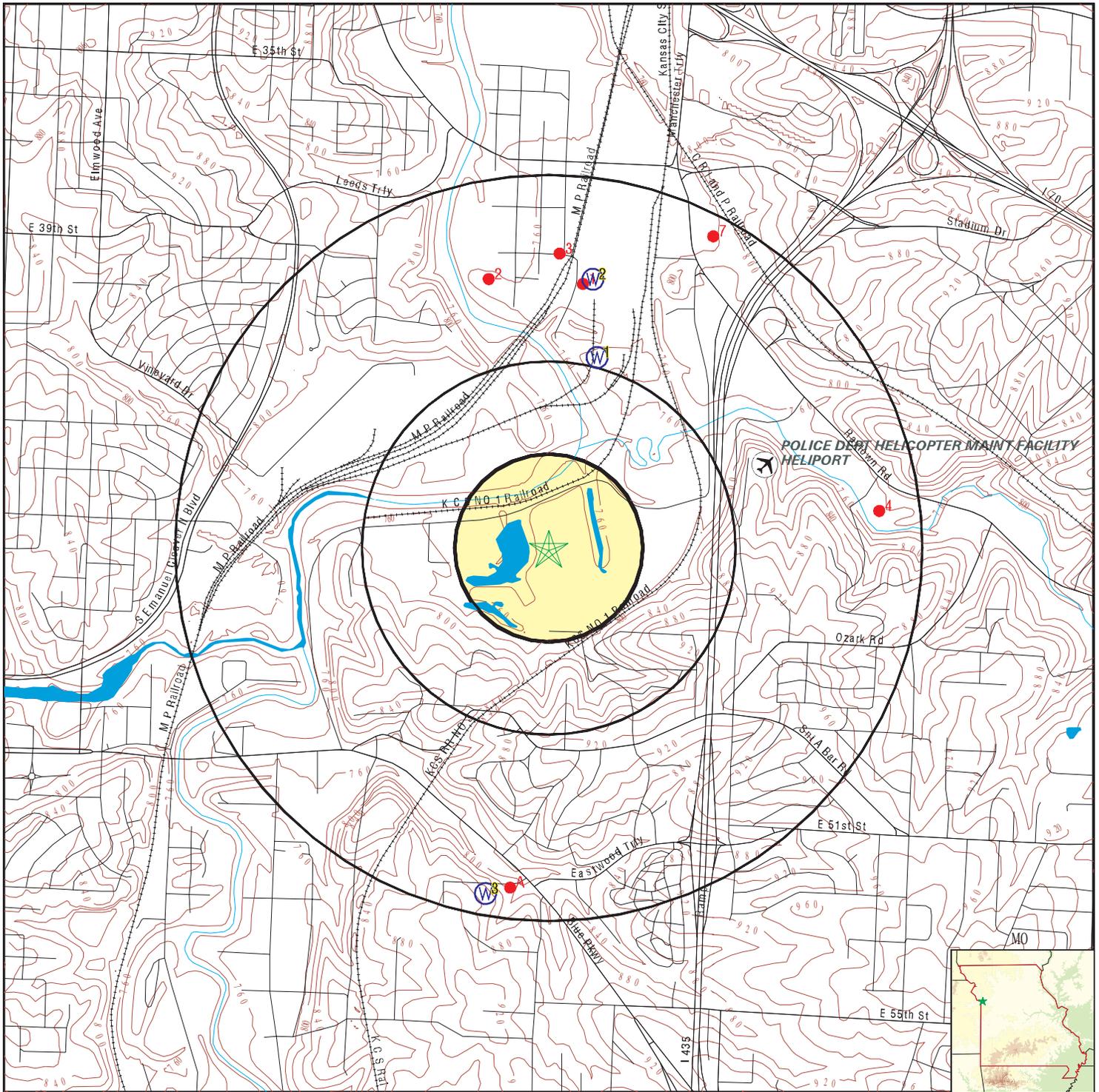
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	MOOG40000008740	1/2 - 1 Mile North

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE OIL/GAS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
2	MOOG40000008741	1/2 - 1 Mile NNW
3	MOOG40000008748	1/2 - 1 Mile North
4	MOOG40000008708	1/2 - 1 Mile East
A5	MOOG40000008632	1/2 - 1 Mile South
A6	MOOG40000008633	1/2 - 1 Mile South
7	MOOG40000008756	1/2 - 1 Mile NNE

PHYSICAL SETTING SOURCE MAP - 3789859.2s



- 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: Kansas City Missouri Public Works East Garage
 ADDRESS: 4635 East Coal Mine Rd and 4725 East Coal Mine Rd
 Kansas City MO 64129
 LAT/LONG: 39.0426 / 94.5082

CLIENT: Tetra Tech EMI
 CONTACT: Kumud Pyakuryal
 INQUIRY #: 3789859.2s
 DATE: November 19, 2013 3:52 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

1
NNE
1/2 - 1 Mile
Lower **FED USGS** **USGS40000697329**

Org. Identifier:	USGS-MO		
Formal name:	USGS Missouri Water Science Center		
Monloc Identifier:	USGS-390300094302001		
Monloc name:	T49N R33W 24DBC1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	10300101	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	39.0500052
Longitude:	-94.505787	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	minutes
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	740
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Other aquifers		
Formation type:	Cherokee Group		
Aquifer type:	Confined multiple aquifer		
Construction date:	Not Reported	Welldepth:	615
Welldepth units:	ft	Wellholedepth:	615
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

2
North
1/2 - 1 Mile
Higher **MO WELLS** **MOLOG1000021835**

Id:	008541	Located:	Not Reported
Notenough:	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		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Swl:	0	Site id:	MOLOG1000021835
Quadrangle:	KANSAS CITY		
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		
Utm x:	369684		
Utm y:	4323534		
Quadmap na:	KANSAS CITY	Ohio code:	39094A5
Llmeas:	D	Scale:	100k
Locator:	VBProgram	Typelog1:	S
Typelog2:	Not Reported	Typelog3:	Not Reported
Ownerind:	1	Owner:	Cooper Jarrett Company Well #1
Leasenam:	Not Reported	Driller:	Bradford & Son
Drldate:	1944/05/15	Permit:	Not Reported
Logdate:	0000/00/00	Logger:	McManamy
Elev:	764		
Elevbase:	S	Prodyld:	Not Reported
Gpmcfs:	Not Reported		
Depthbed:	10		
Sampsav:	1	Swla:	Not Reported
Swlb:	Not Reported		
Water at:	Not Reported		
Totdepth:	652	Formation :	PLEASANTON GROUP
Formation1:	MISSISSIPPIAN SYSTEM		
Intcrdtp:	0		
Intcrdbt:	0		
Drawdown:	Not Reported	Aquclass:	Not Reported
Confind:	0	Reldate:	Not Reported
Probind1:	Not Reported	Probind2:	Not Reported
Probind3:	Not Reported	Additional:	Not Reported
Alagency1:	Not Reported	Add databa:	Not Reported
Addition 1:	Not Reported	Add data 1:	Not Reported
Alnum2:	Not Reported	Add data 2:	Not Reported
Add data 3:	Not Reported	Rmkind:	N
Remarks:	PLANT @ LEEDS; NE COR 40TH & EWING - DRY & ABANDONED		
C total:	0	C plugind:	Not Reported
C remarks:	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		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Minrocc: 0
Rmk20: Not Reported

Strata Information:

Id:	008541	Stratordr:	0
Fmtop:	0		
Fmbot:	10		
Formation :	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:	008541	Stratordr:	4800
Fmtop:	10		
Fmbot:	650		
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		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	008541	Stratordr:	13500
Fmtop:	10		
Fmbot:	183		
Formation :	MISSOURIAN SERIES		
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		

Strata Information:

Id:	008541	Stratordr:	18800
Fmtop:	10		
Fmbot:	183		
Formation :	PLEASANTON GROUP		
Primlith:	SHALE		
Seclith:	SAND	Minlith:	GRAVEL
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:	19500
Fmtp:	183		
Fmbot:	650		
Formation :	DESMOINESIAN SERIES		
Prmlith:	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:	19600
Fmtp:	183		
Fmbot:	295		
Formation :	MARMATON GROUP		
Prmlith:	SHALE	Minlith:	Not Reported
Seclith:	LIMESTONE		
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	008541	Stratordr:	22000
Fmtp:	250		
Fmbot:	260		
Formation :	MYRICK STATION LS. MEMBER		
Prmlith:	LIMESTONE	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:	23300
Fmtp:	285		
Fmbot:	295		
Formation :	EXCELLO SHALE		
Prmlith:	SHALE	Minlith:	COAL
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:	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		
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		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Minrocc: 0
 Rmk20: Not Reported

Strata Information:

Id:	008541	Stratordr:	28400
Fmtp:	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		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	008541	Stratordr:	32300
Fmtp:	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
Fmtp:	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		

3
South
1/2 - 1 Mile
Higher

FED USGS USGS40000697275

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Org. Identifier:	USGS-MO		
Formal name:	USGS Missouri Water Science Center		
Monloc Identifier:	USGS-390145094304001		
Monloc name:	T49N R33W 36		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	10300101	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	39.0291722
Longitude:	-94.5113428	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	minutes
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	803
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Other aquifers		
Formation type:	Cherokee Group		
Aquifer type:	Confined multiple aquifer		
Construction date:	Not Reported		
Welldepth units:	ft	Welldepth:	233
Wellholedepth units:	ft	Wellholedepth:	233

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

1

North
1/2 - 1 Mile

OIL_GAS

MOOG4000008740

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:	MOOG4000008740

2

NNW
1/2 - 1 Mile

OIL_GAS

MOOG4000008741

County:	JACKSON	Countycode:	095
Township:	49		
Range:	33		
Rangedir:	W		
Section:	24		
Surveyloc1:	NW NE SW	Surveyloc2:	Not Reported
Ogcnumber:	01618	Quadname:	KANSAS CITY
Coname:	KRAKENFUHL	Leasename:	FEE
Wellno:	Not Reported		
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:	759		
Proposedtd:	0		
Actualtd:	575		
Pbtd:	0		
Orig oper:	Not Reported	Latitude :	39 3 10

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Longitude :	-94 30 40		
Latdec:	39.05305		
Longdec:	-94.51119		
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 GAS		
Spl log:	DR	Site id:	MOOG4000008741

3

**North
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

4

**East
1/2 - 1 Mile**

OIL_GAS

MOOG4000008708

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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

**A5
South
1/2 - 1 Mile**

OIL_GAS

MOOG4000008632

County:	JACKSON	Countycode:	095
Township:	49		
Range:	33		
Rangedir:	W		
Section:	36		
Surveyloc1:	SE NE NW	Surveyloc2:	Not Reported
Ogcnumber:	01645	Quadname:	KANSAS CITY
Coname:	GAUGH, GROVER	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:	07/19/37
Plug dt:	Not Reported		
Elevation:	805		
Proposedtd:	0		
Actualtd:	426		
Pbtd:	0		
Orig oper:	Not Reported	Latitude :	39 1 45

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Longitude :	-94 30 36		
Latdec:	39.0294		
Longdec:	-94.51012		
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 :	SMALL GAS WELL		
Spl log:	DR	Site id:	MOOG40000008632

**A6
South
1/2 - 1 Mile**

OIL_GAS MOOG40000008633

County:	JACKSON	Countycode:	095
Township:	49		
Range:	33		
Rangedir:	W		
Section:	36		
Surveyloc1:	SE NE NW	Surveyloc2:	Not Reported
Ogcnumber:	01644	Quadname:	KANSAS CITY
Coname:	GAUGH, GROVER	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:	04/05/37
Plug dt:	Not Reported		
Elevation:	803		
Proposedtd:	0		
Actualtd:	233		
Pbtd:	0		
Orig oper:	Not Reported	Latitude :	39 1 45
Longitude :	-94 30 36		
Latdec:	39.0294		
Longdec:	-94.51012		
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:	MOOG40000008633

**7
NNE
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:	MOOG40000008756

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 F
HISTORICAL USE DOCUMENTATION

APPENDIX F-1

HISTORICAL SANBORN® MAPS



Kansas City Missouri Public Works East Garage

4635 East Coal Mine Rd and 4725 East Coal Mine Rd
Kansas City, MO 64129

Inquiry Number: 3789859.3

November 19, 2013



Certified Sanborn® Map Report

Certified Sanborn® Map Report

11/19/13

Site Name:

Kansas City Missouri Public
4635 East Coal Mine Rd and
Kansas City, MO 64129

Client Name:

Tetra Tech EMI
415 Oak Street
Kansas City, MO 64106

EDR Inquiry # 3789859.3

Contact: Kumud Pyakuryal



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: Kansas City Missouri Public Works East
Address: 4635 East Coal Mine Rd and 4725 East Coal
City, State, Zip: Kansas City, MO 64129
Cross Street:
P.O. # START 4/X9025.14.0002.019.001
Project: KCMO Public Works Garage TBA
Certification # 743E-473C-A738



Sanborn® Library search results
Certification # 743E-473C-A738

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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APPENDIX F-2
HISTORICAL AERIAL PHOTOGRAPHS



Kansas City Missouri Public Works East Garage

4635 East Coal Mine Rd and 4725 East Coal Mine Rd
Kansas City, MO 64129

Inquiry Number: 3789859.5

November 20, 2013

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 November 20, 2013

Target Property:

4635 East Coal Mine Rd and 4725 East Coal Mine Rd

Kansas City, MO 64129

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1955	Aerial Photograph. Scale: 1"=750'	Panel #: 39094-A5, Kansas City, MO;/Flight Date: May 15, 1955	EDR
1957	Aerial Photograph. Scale: 1"=500'	Panel #: 39094-A5, Kansas City, MO;/Flight Date: January 01, 1957	EDR
1963	Aerial Photograph. Scale: 1"=500'	Panel #: 39094-A5, Kansas City, MO;/Flight Date: March 17, 1963	EDR
1969	Aerial Photograph. Scale: 1"=500'	Panel #: 39094-A5, Kansas City, MO;/Flight Date: January 01, 1969	EDR
1970	Aerial Photograph. Scale: 1"=500'	Panel #: 39094-A5, Kansas City, MO;/Flight Date: October 02, 1970	EDR
1979	Aerial Photograph. Scale: 1"=500'	Panel #: 39094-A5, Kansas City, MO;/Flight Date: January 01, 1979	EDR
1983	Aerial Photograph. Scale: 1"=500'	Panel #: 39094-A5, Kansas City, MO;/Flight Date: January 01, 1983	EDR
1985	Aerial Photograph. Scale: 1"=500'	Panel #: 39094-A5, Kansas City, MO;/Flight Date: January 01, 1985	EDR
1990	Aerial Photograph. Scale: 1"=500'	Panel #: 39094-A5, Kansas City, MO;/Flight Date: January 01, 1990	EDR
1996	Aerial Photograph. Scale: 1"=750'	Panel #: 39094-A5, Kansas City, MO;/Flight Date: March 07, 1996	EDR
1997	Aerial Photograph. Scale: 1"=500'	Panel #: 39094-A5, Kansas City, MO;/DOQQ - acquisition dates: March 06, 1997	EDR
2005	Aerial Photograph. Scale: 1"=500'	Panel #: 39094-A5, Kansas City, MO;/Flight Year: 2005	EDR
2006	Aerial Photograph. Scale: 1"=500'	Panel #: 39094-A5, Kansas City, MO;/Flight Year: 2006	EDR
2007	Aerial Photograph. Scale: 1"=500'	Panel #: 39094-A5, Kansas City, MO;/Flight Year: 2007	EDR
2009	Aerial Photograph. Scale: 1"=500'	Panel #: 39094-A5, Kansas City, MO;/Flight Year: 2009	EDR
2010	Aerial Photograph. Scale: 1"=500'	Panel #: 39094-A5, Kansas City, MO;/Flight Year: 2010	EDR
2012	Aerial Photograph. Scale: 1"=500'	Panel #: 39094-A5, Kansas City, MO;/Flight Year: 2012	EDR



INQUIRY #: 3789859.5

YEAR: 1955

 = 750'





INQUIRY #: 3789859.5

YEAR: 1957

| = 500'





INQUIRY #: 3789859.5

YEAR: 1963

 = 500'





INQUIRY #: 3789859.5

YEAR: 1969

 = 500'





INQUIRY #: 3789859.5

YEAR: 1970

 = 500'





INQUIRY #: 3789859.5

YEAR: 1979

 = 500'





INQUIRY #: 3789859.5

YEAR: 1983

| = 500'





INQUIRY #: 3789859.5

YEAR: 1985

 = 500'





INQUIRY #: 3789859.5

YEAR: 1990

| = 500'





INQUIRY #: 3789859.5

YEAR: 1996

| = 750'





INQUIRY #: 3789859.5

YEAR: 1997

 = 500'





INQUIRY #: 3789859.5

YEAR: 2005

 = 500'





INQUIRY #: 3789859.5

YEAR: 2006

|—————| = 500'



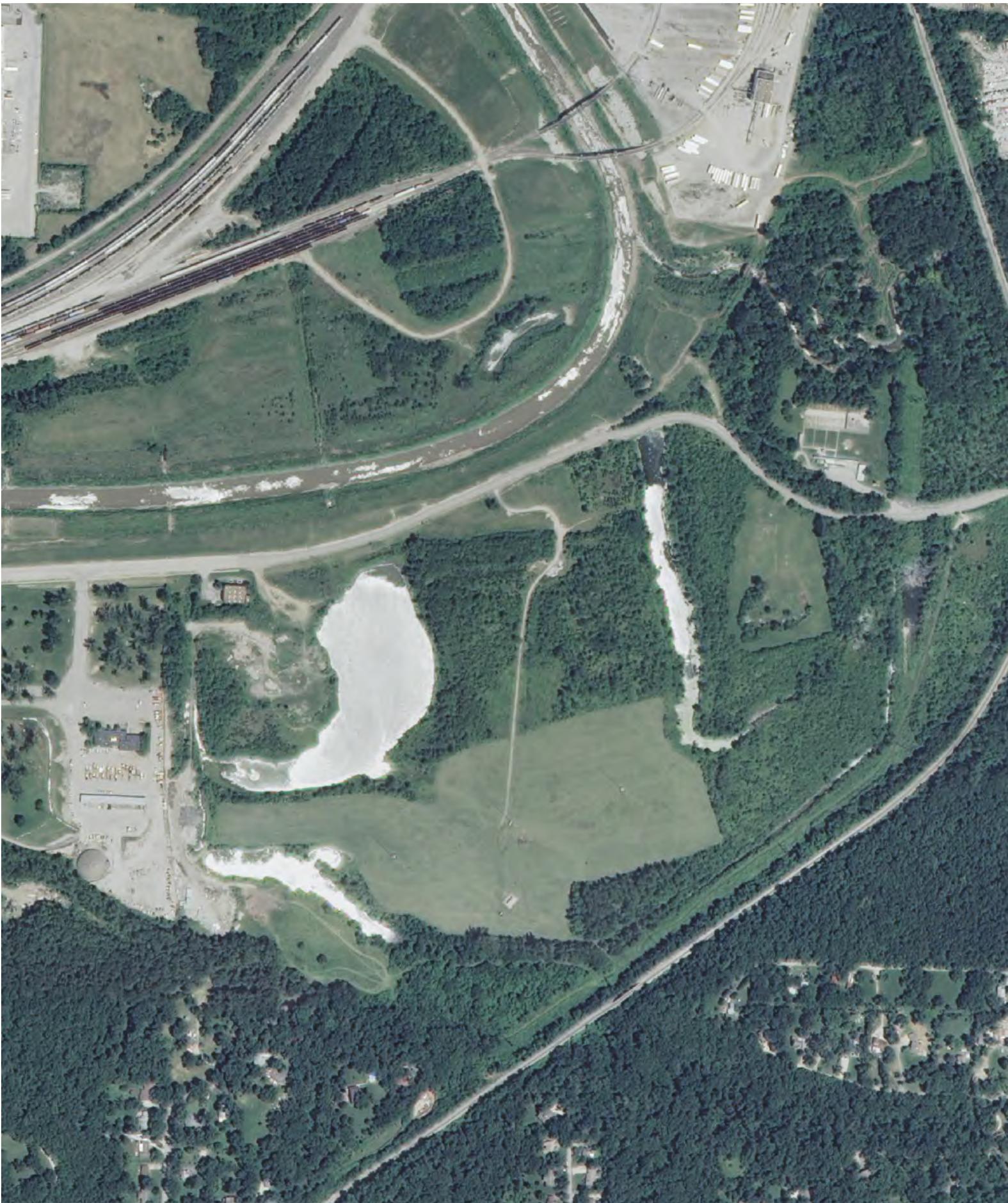


INQUIRY #: 3789859.5

YEAR: 2007

| = 500'





INQUIRY #: 3789859.5

YEAR: 2009

| = 500'





INQUIRY #: 3789859.5

YEAR: 2010

|—————| = 500'





INQUIRY #: 3789859.5

YEAR: 2012

| = 500'



APPENDIX F-3

HISTORICAL TOPOGRAPHIC MAPS

Kansas City Missouri Public Works East Garage

4635 East Coal Mine Rd and 4725 East Coal Mine Rd
Kansas City, MO 64129

Inquiry Number: 3789859.4

November 19, 2013

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

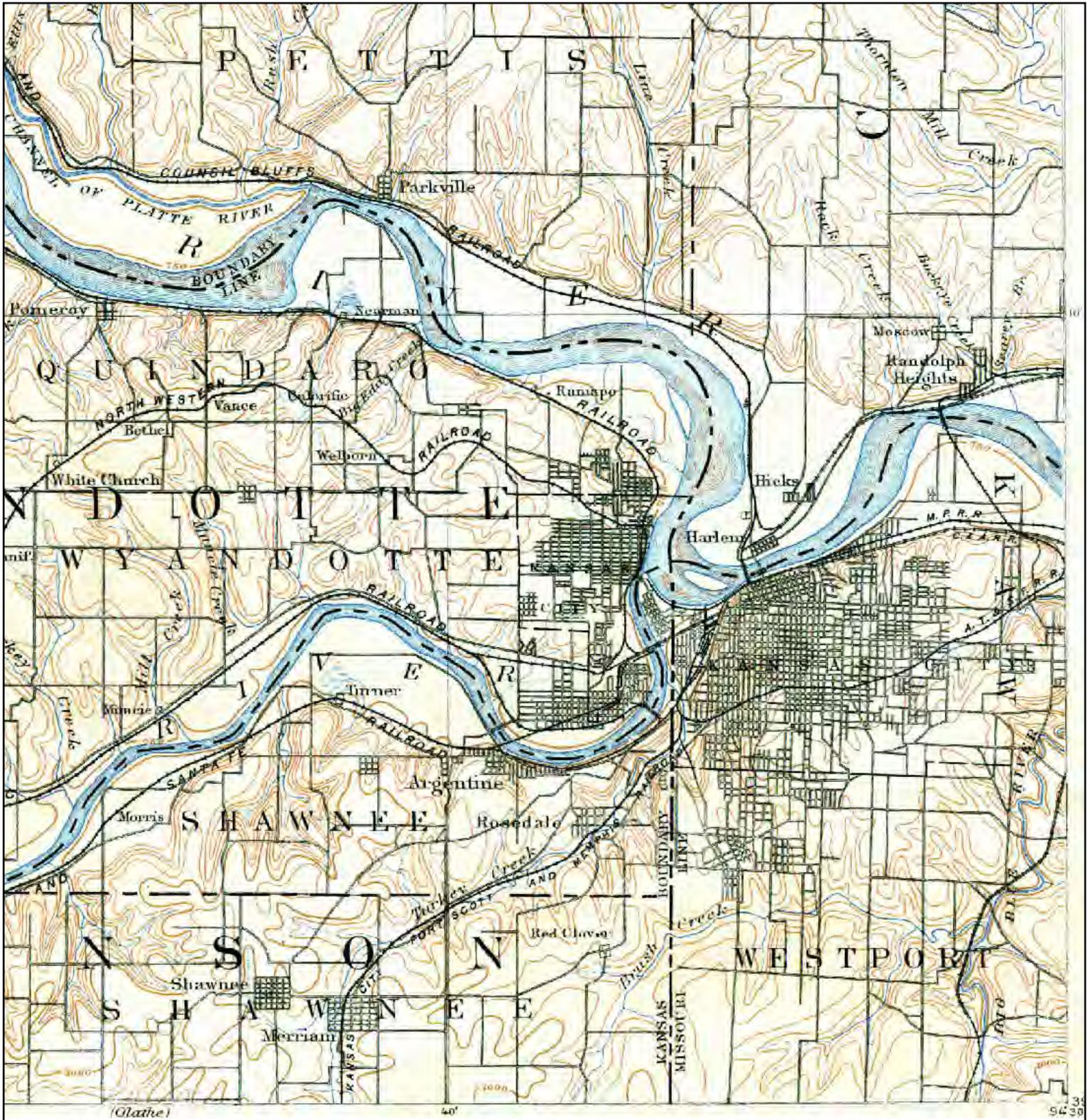
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Historical Topographic Map



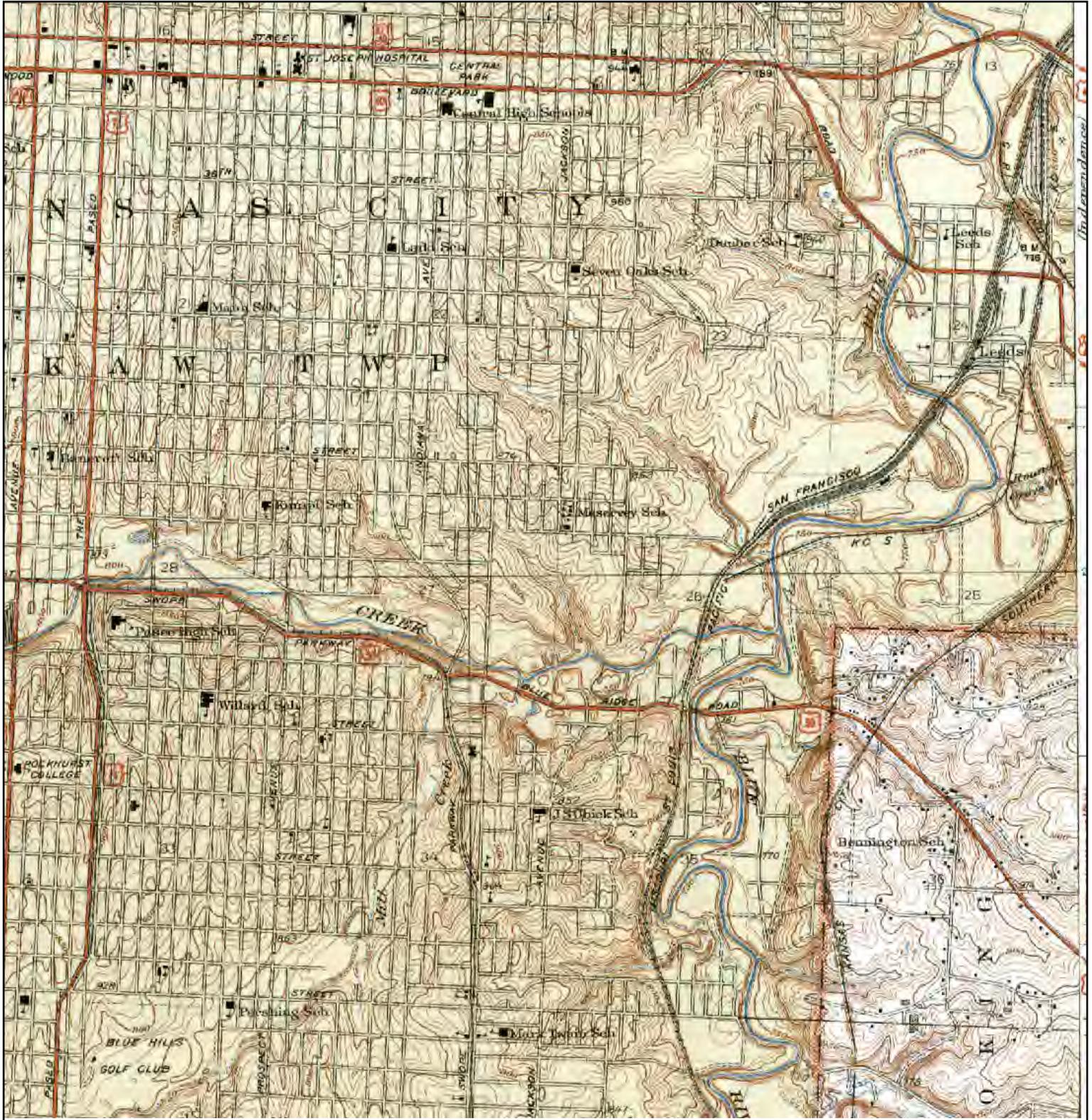
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	NAME: KANSAS CITY		CONTACT: Kumud Pyakuryal
	MAP YEAR: 1894	ADDRESS: 4635 East Coal Mine Rd and 4725 East Coal Mine Rd	INQUIRY#: 3789859.4
	SERIES: 30	LAT/LONG: 39.0426 / -94.5082	RESEARCH DATE: 11/19/2013
	SCALE: 1:125000		

Historical Topographic Map



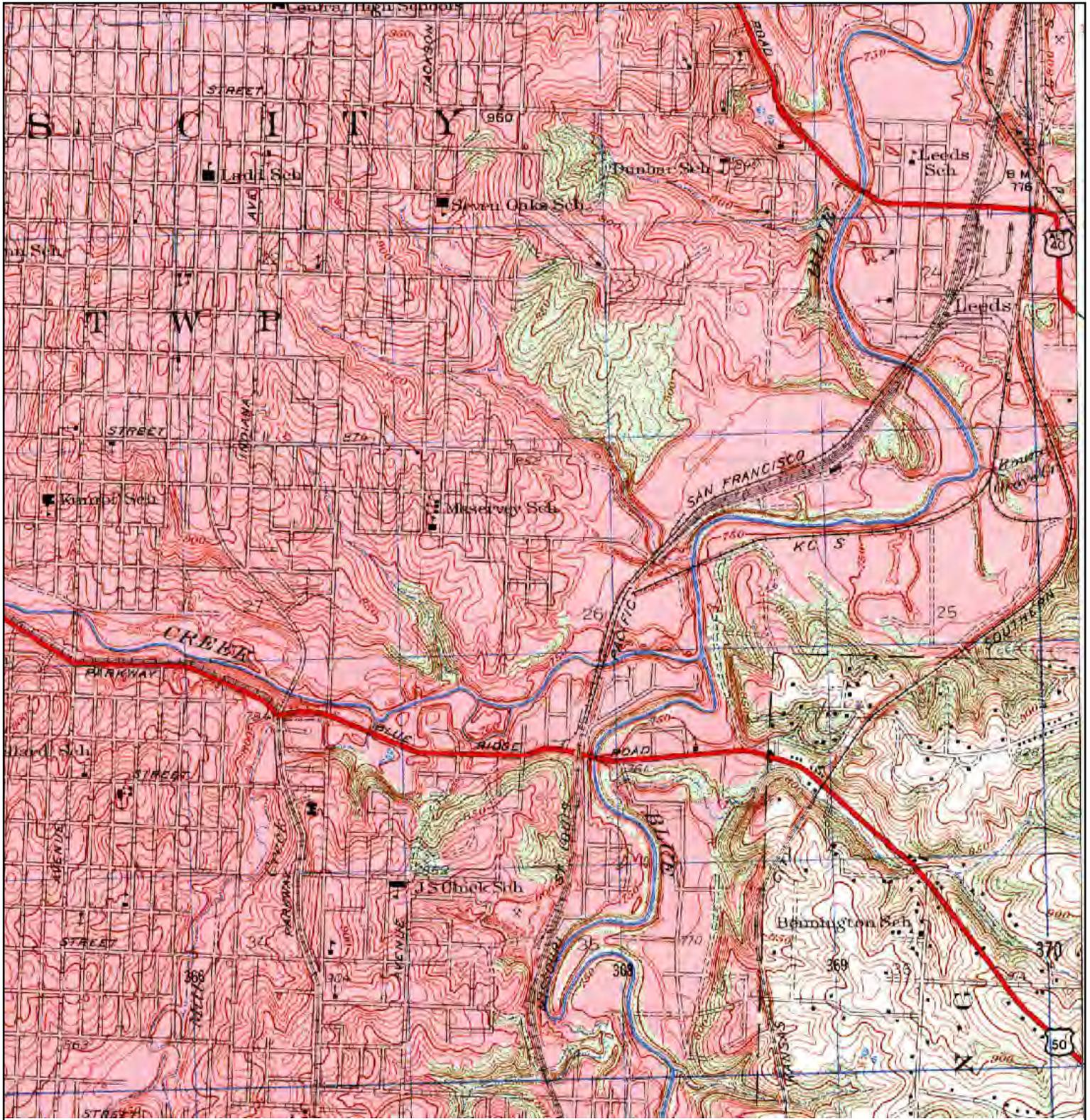
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Historical Topographic Map



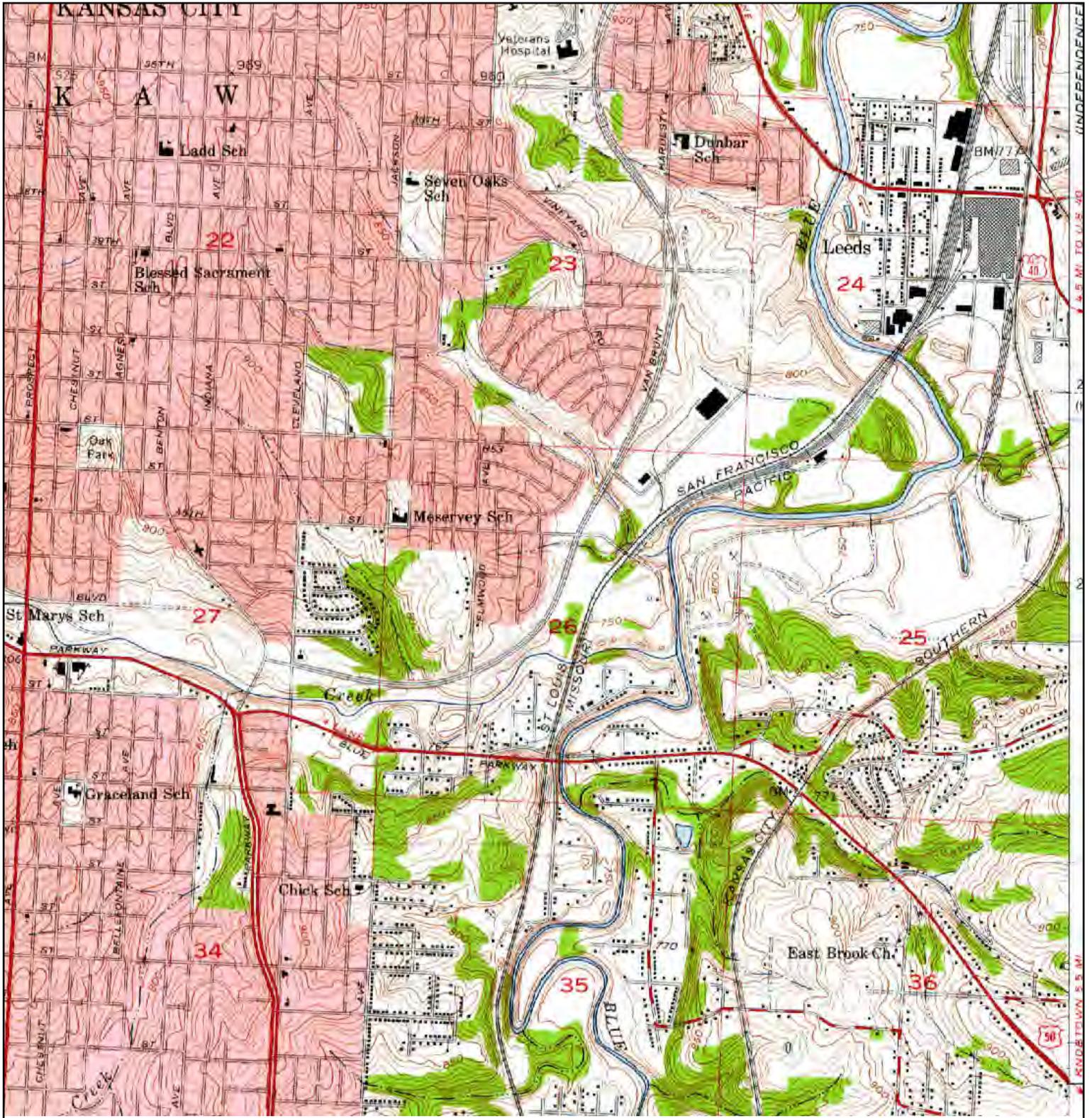
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	MAP YEAR: 1940	KANSAS CITY, MO 64129	INQUIRY#: 3789859.4
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Historical Topographic Map



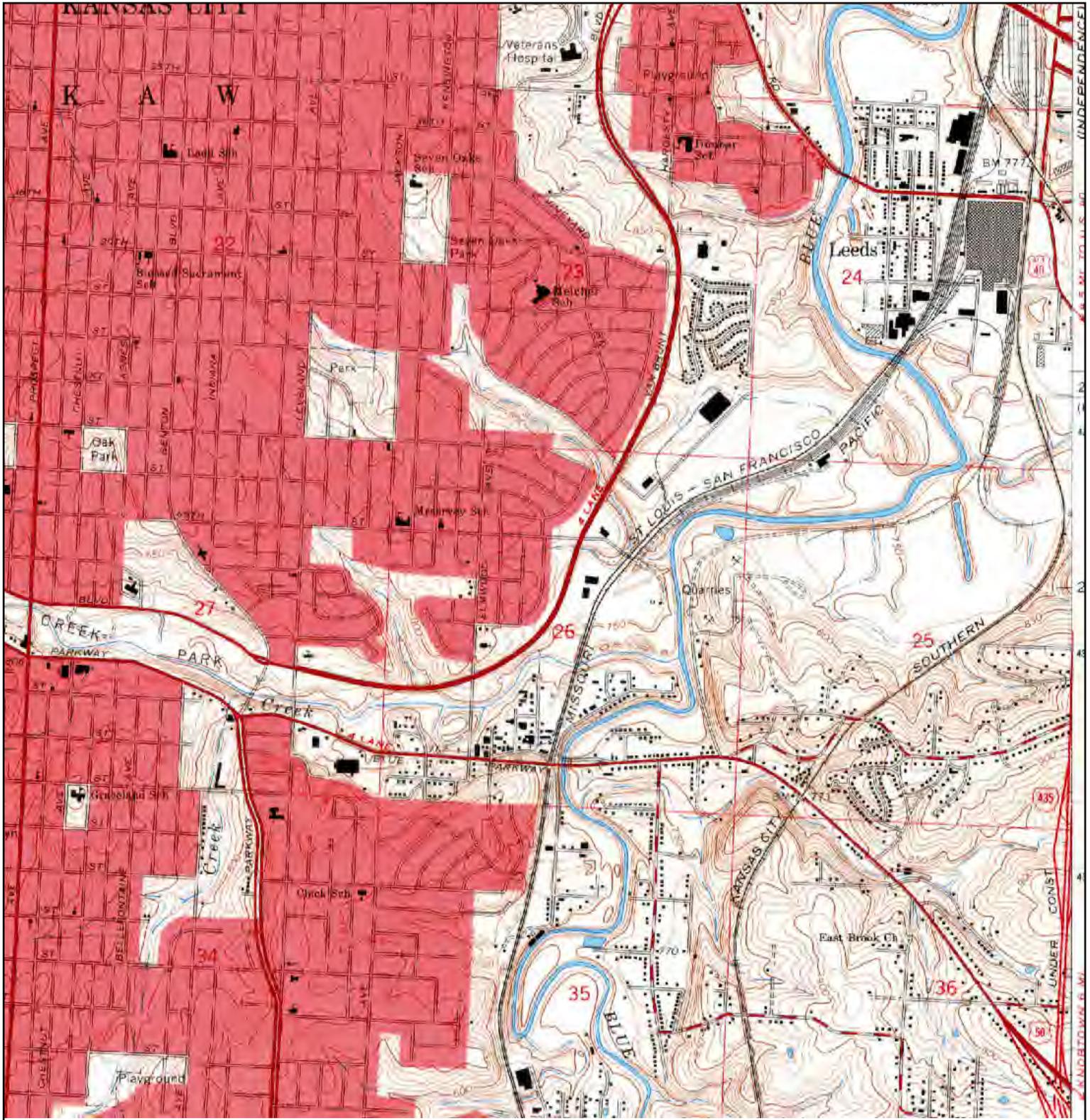
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	<p>SERIES: 7.5</p> <p>SCALE: 1:25000</p>	<p>ADDRESS: 4635 East Coal Mine Rd and 4725 East Coal Mine Rd</p>	<p>CONTACT: Kumud Pyakuryal</p>
		<p>LAT/LONG: 39.0426 / -94.5082</p>	<p>INQUIRY#: 3789859.4</p>
			<p>RESEARCH DATE: 11/19/2013</p>

Historical Topographic Map



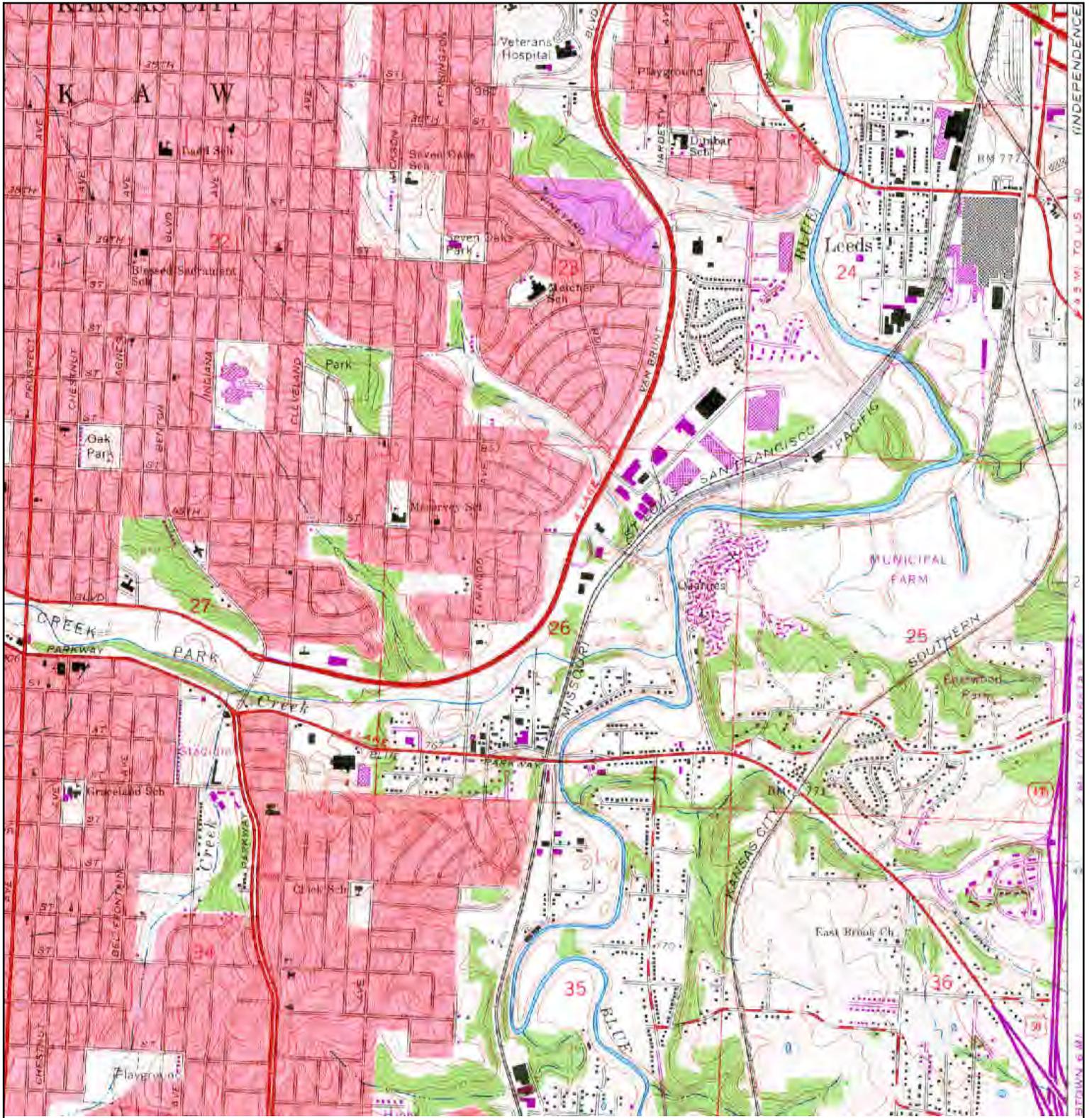
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	NAME: KANSAS CITY	ADDRESS: 4635 East Coal Mine Rd and 4725 East Coal Mine Rd	CONTACT: Kumud Pyakuryal	
	MAP YEAR: 1957	LAT/LONG: 39.0426 / -94.5082	INQUIRY#: 3789859.4	RESEARCH DATE: 11/19/2013
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Historical Topographic Map



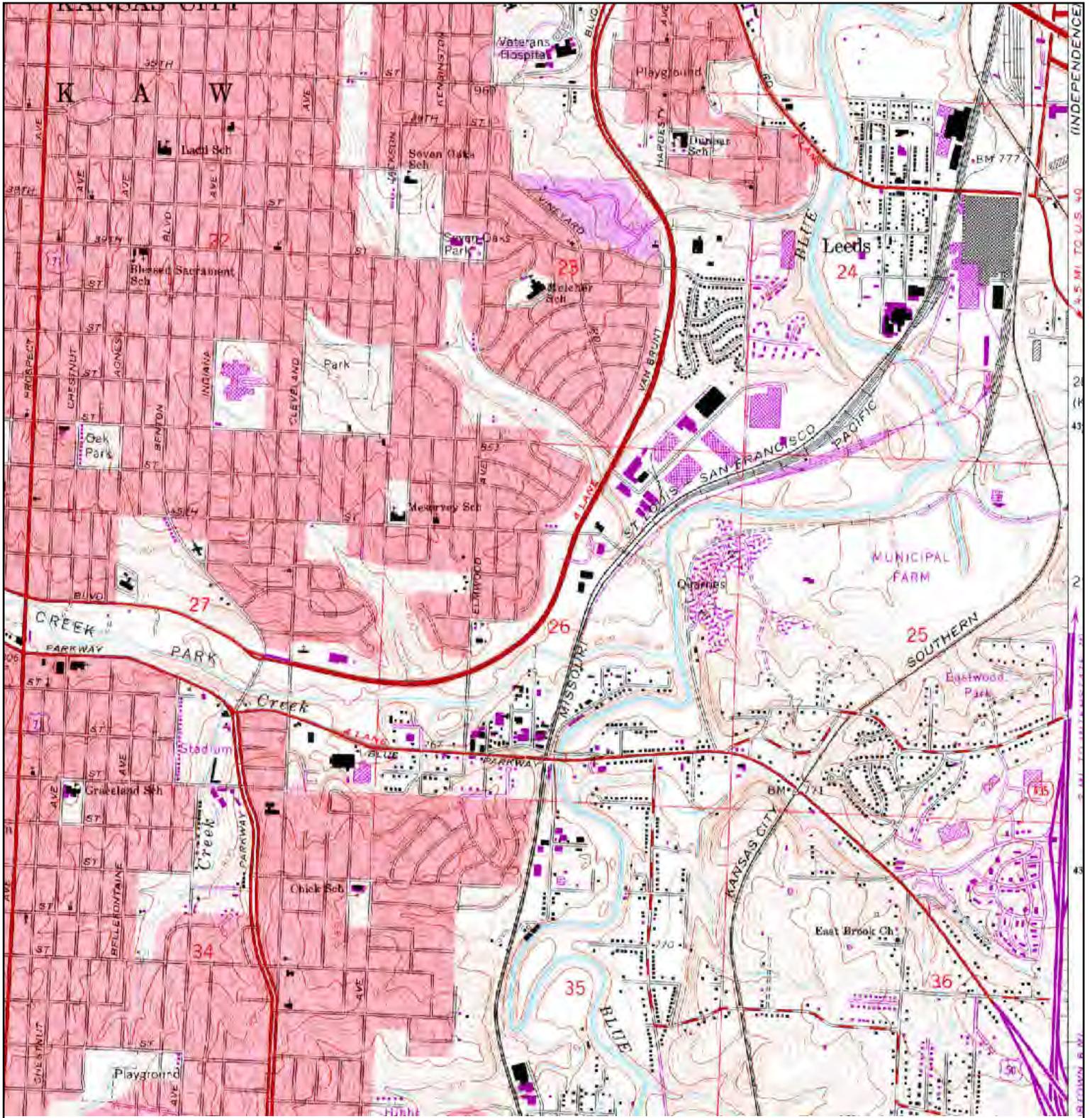
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	MAP YEAR: 1964	LAT/LONG: 39.0426 / -94.5082	INQUIRY#: 3789859.4	RESEARCH DATE: 11/19/2013
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Historical Topographic Map



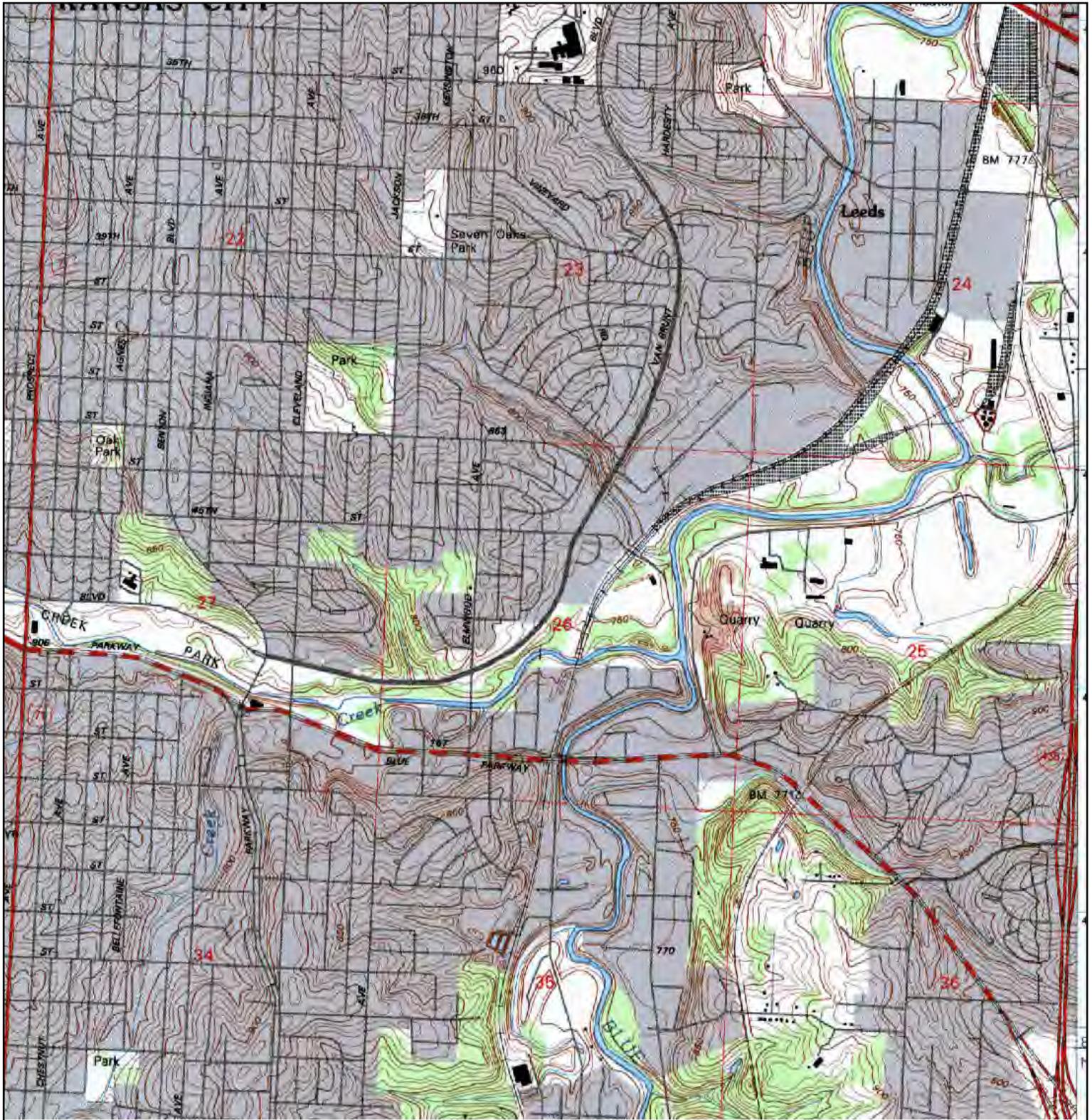
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	<p>NAME: KANSAS CITY</p>	<p>ADDRESS: 4635 East Coal Mine Rd and 4725 East Coal Mine Rd</p>	<p>CONTACT: Kumud Pyakuryal</p>
	<p>MAP YEAR: 1970</p>	<p>Kansas City, MO 64129</p>	<p>INQUIRY#: 3789859.4</p>
	<p>PHOTOREVISED FROM :1964</p>	<p>LAT/LONG: 39.0426 / -94.5082</p>	<p>RESEARCH DATE: 11/19/2013</p>
	<p>SERIES: 7.5</p>		
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Historical Topographic Map



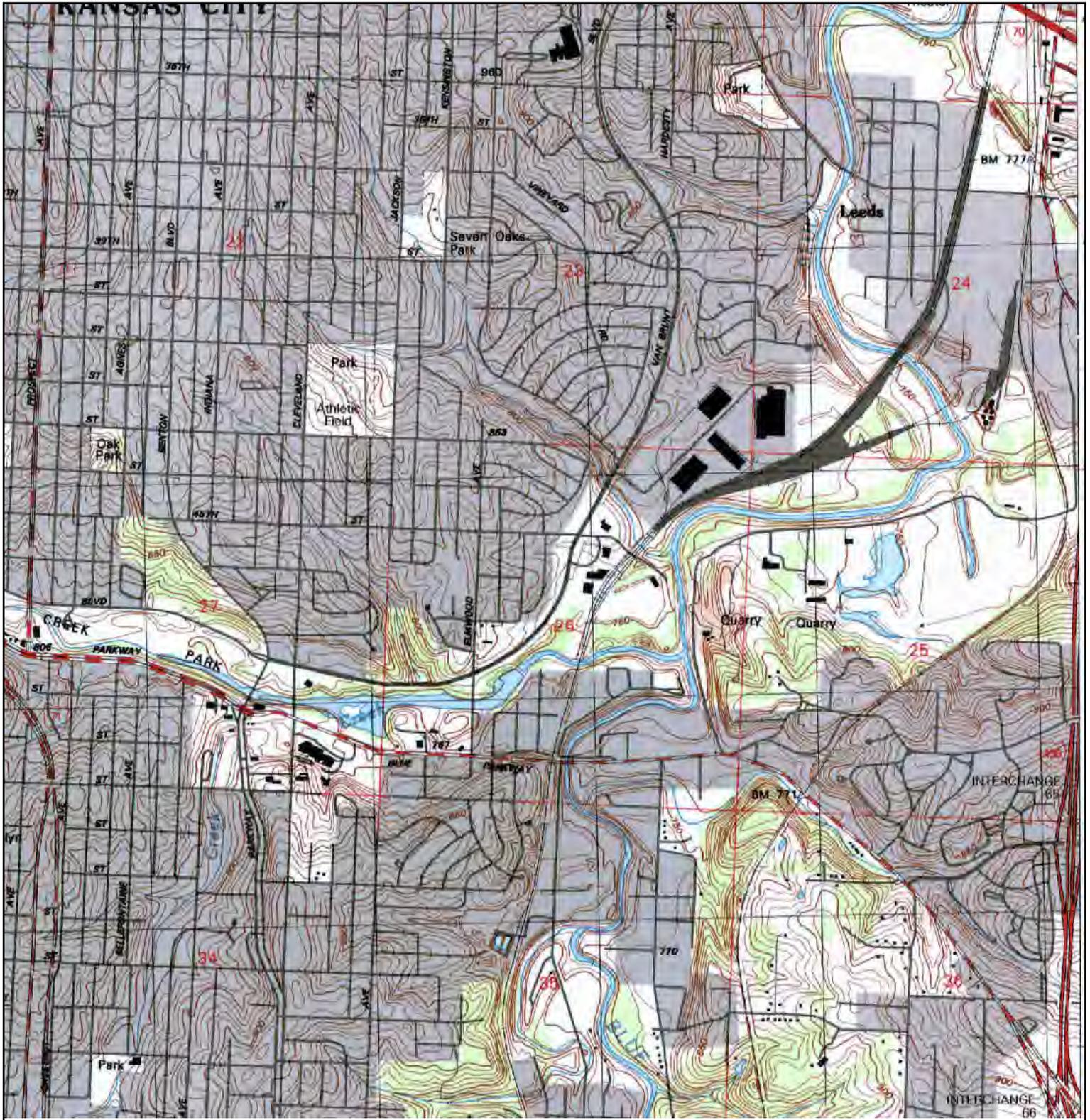
<p>N ↑</p>	TARGET QUAD	SITE NAME: Kansas City Missouri Public Works	CLIENT: Tetra Tech EMI
	NAME: KANSAS CITY	East Garage	CONTACT: Kumud Pyakuryal
	MAP YEAR: 1975	ADDRESS: 4635 East Coal Mine Rd and 4725	INQUIRY#: 3789859.4
	PHOTOREVISED FROM :1964	East Coal Mine Rd	RESEARCH DATE: 11/19/2013
	SERIES: 7.5	Kansas City, MO 64129	
	SCALE: 1:24000	LAT/LONG: 39.0426 / -94.5082	

Historical Topographic Map



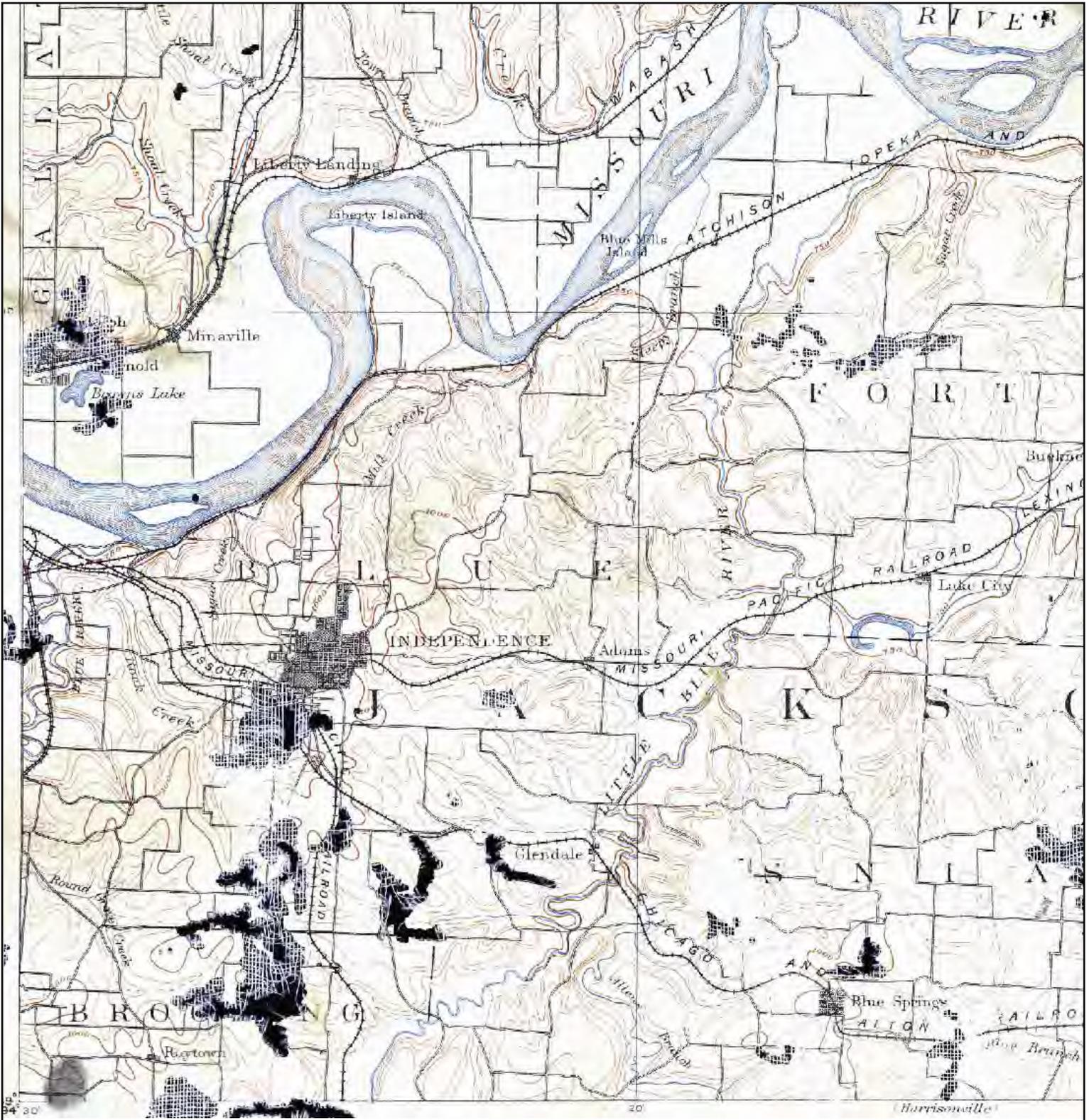
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	NAME: KANSAS CITY	ADDRESS: 4635 East Coal Mine Rd and 4725 East Coal Mine Rd	CONTACT: Kumud Pyakuryal
	MAP YEAR: 1991	Kansas City, MO 64129	INQUIRY#: 3789859.4
	SERIES: 7.5	LAT/LONG: 39.0426 / -94.5082	RESEARCH DATE: 11/19/2013
	SCALE: 1:24000		

Historical Topographic Map



<p>N</p> 	<p>TARGET QUAD NAME: KANSAS CITY MAP YEAR: 1996</p>	<p>SITE NAME: Kansas City Missouri Public Works East Garage</p>	<p>CLIENT: Tetra Tech EMI</p>
	<p>SERIES: 7.5 SCALE: 1:24000</p>	<p>ADDRESS: 4635 East Coal Mine Rd and 4725 East Coal Mine Rd Kansas City, MO 64129</p>	<p>CONTACT: Kumud Pyakuryal INQUIRY#: 3789859.4 RESEARCH DATE: 11/19/2013</p>

Historical Topographic Map



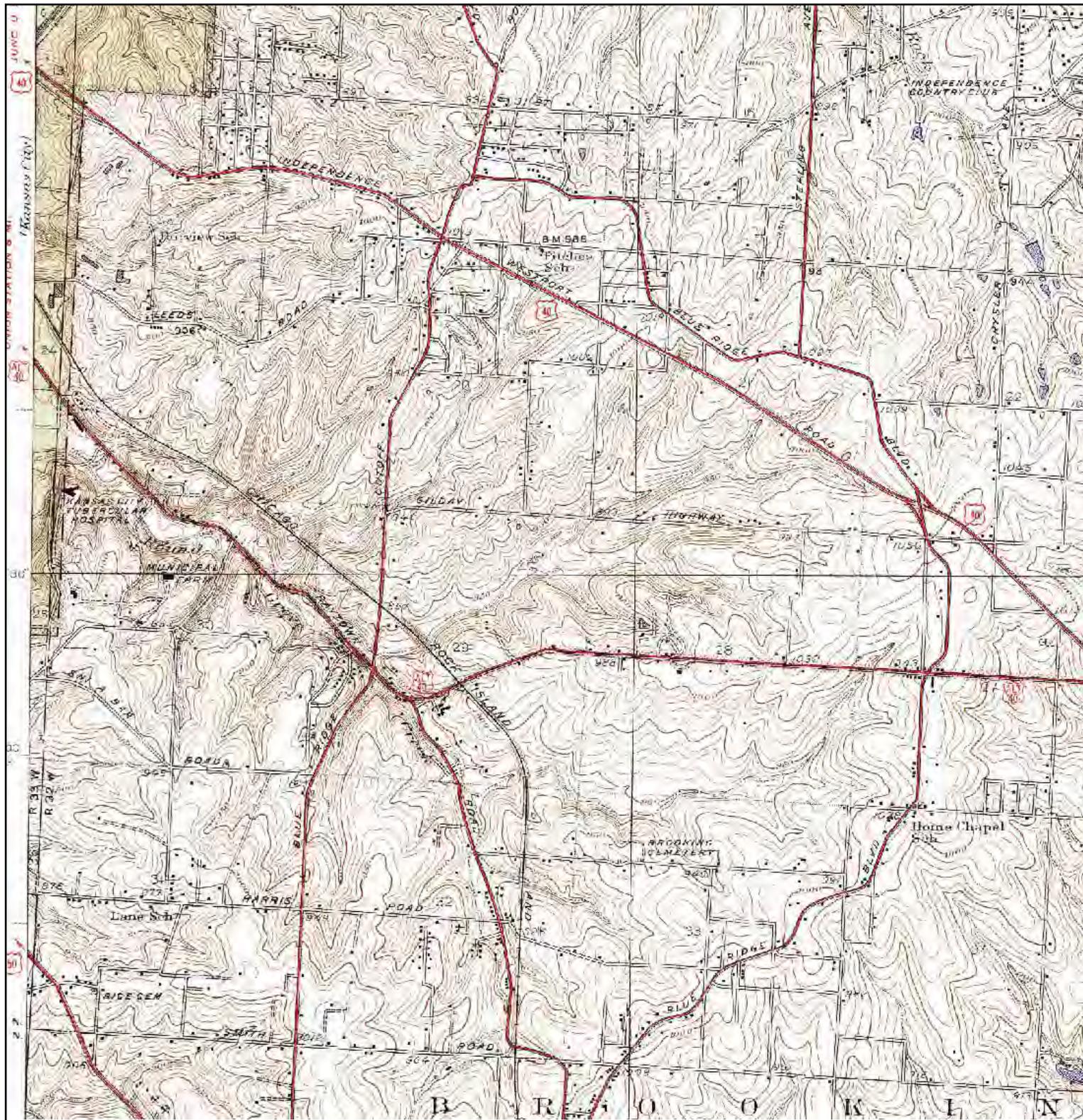
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	NAME: INDEPENDENCE			
	MAP YEAR: 1894			
	SERIES: 30			
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Historical Topographic Map



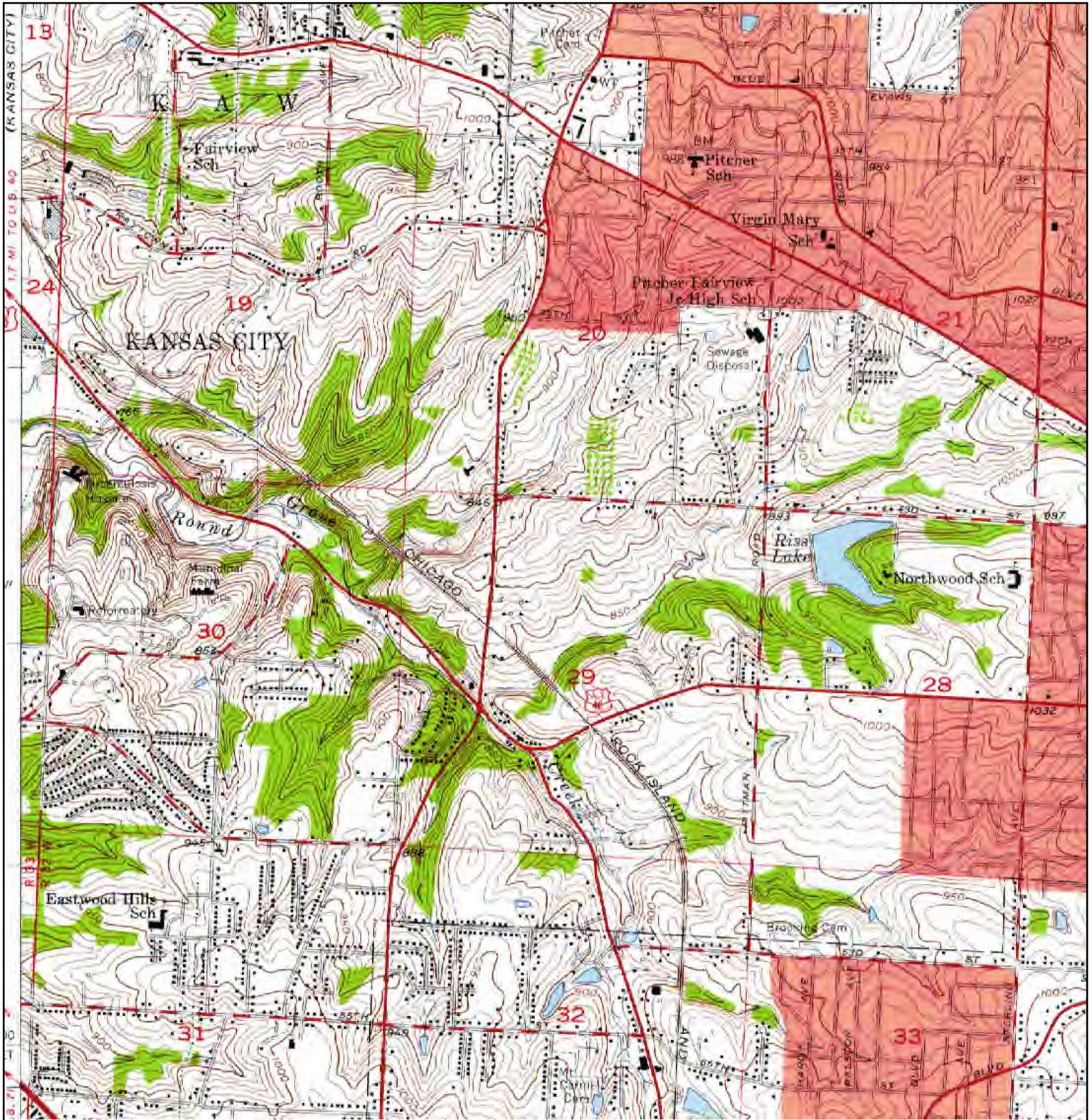
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	NAME:	INDEPENDENCE		SITE NAME: Kansas City Missouri Public Works East Garage
	MAP YEAR:	1934		ADDRESS: 4635 East Coal Mine Rd and 4725 East Coal Mine Rd Kansas City, MO 64129
	SERIES:	7.5		LAT/LONG: 39.0426 / -94.5082
	SCALE:	1:24000		CLIENT: Tetra Tech EMI CONTACT: Kumud Pyakuryal INQUIRY#: 3789859.4 RESEARCH DATE: 11/19/2013

Historical Topographic Map



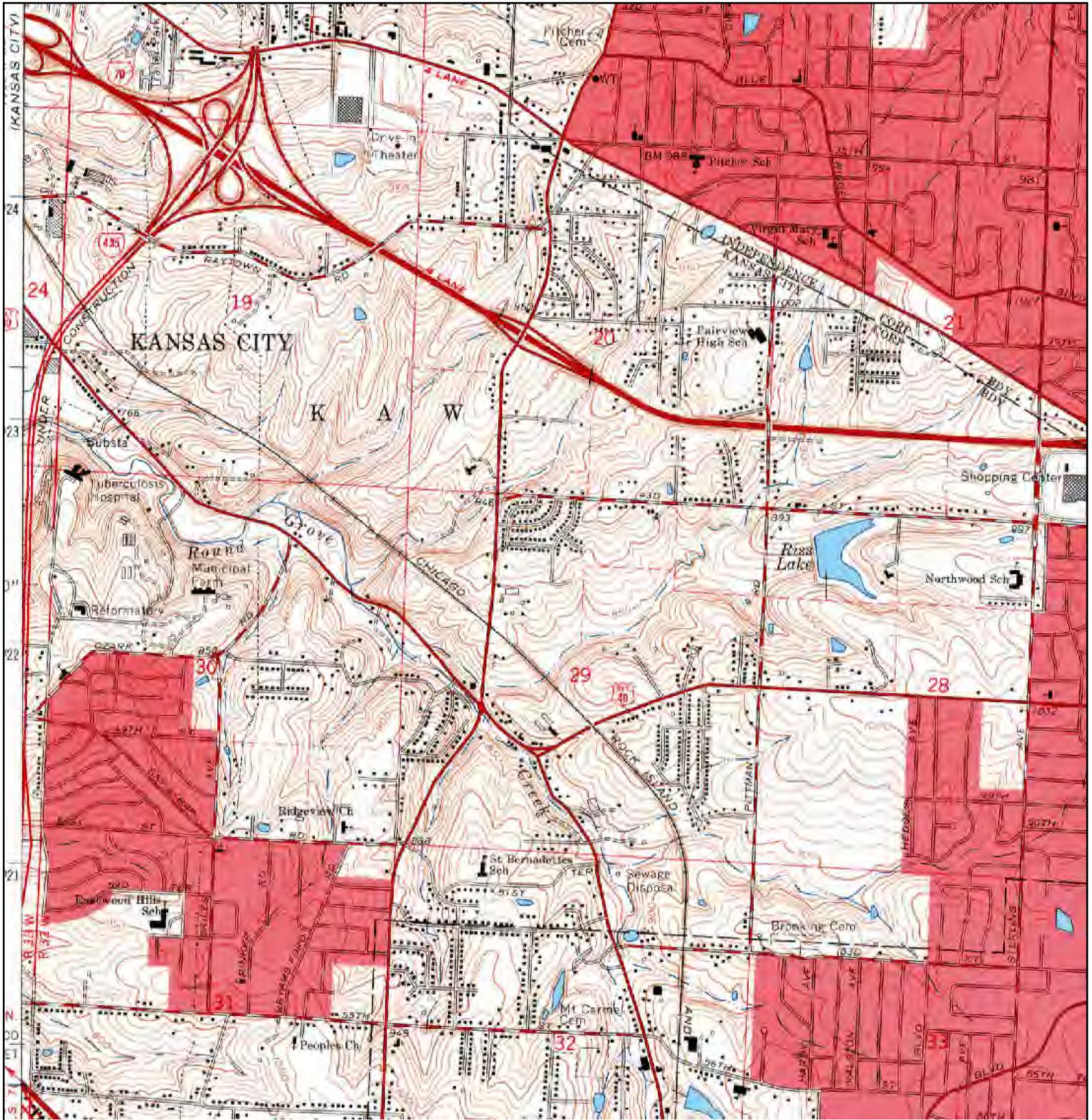
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	NAME:	INDEPENDENCE		SITE NAME: Kansas City Missouri Public Works East Garage
	MAP YEAR:	1940		ADDRESS: 4635 East Coal Mine Rd and 4725 East Coal Mine Rd Kansas City, MO 64129
	SERIES:	7.5		CLIENT: Tetra Tech EMI
	SCALE:	1:31680		CONTACT: Kumud Pyakuryal
		LAT/LONG: 39.0426 / -94.5082	INQUIRY#: 3789859.4	
			RESEARCH DATE: 11/19/2013	

Historical Topographic Map



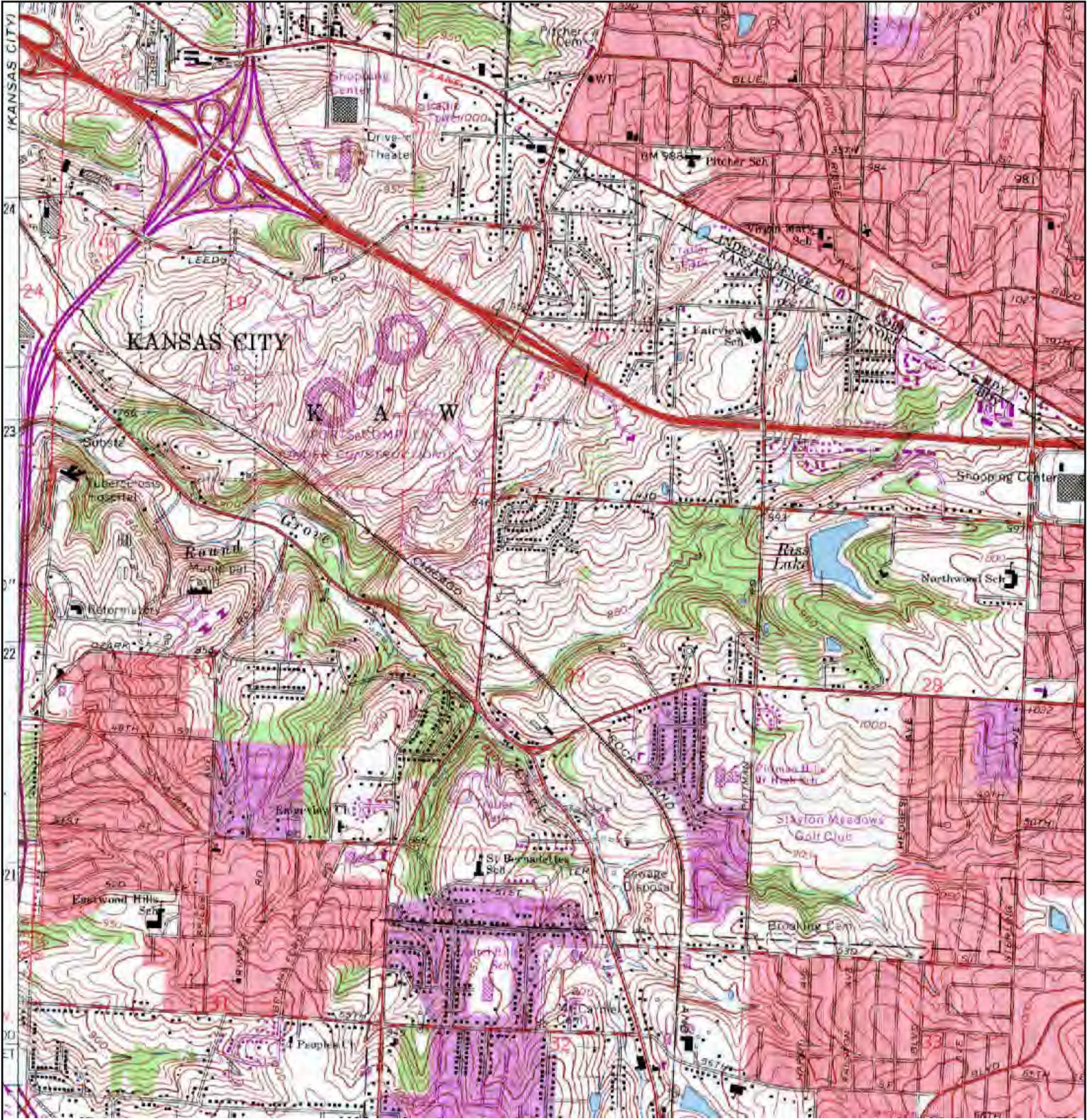
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	NAME:	INDEPENDENCE		SITE NAME:	Kansas City Missouri Public Works East Garage	CLIENT:	Tetra Tech EMI
	MAP YEAR:	1957		ADDRESS:	4635 East Coal Mine Rd and 4725 East Coal Mine Rd Kansas City, MO 64129	CONTACT:	Kumud Pyakuryal
	SERIES:	7.5		LAT/LONG:	39.0426 / -94.5082	INQUIRY#:	3789859.4
	SCALE:	1:24000				RESEARCH DATE:	11/19/2013

Historical Topographic Map



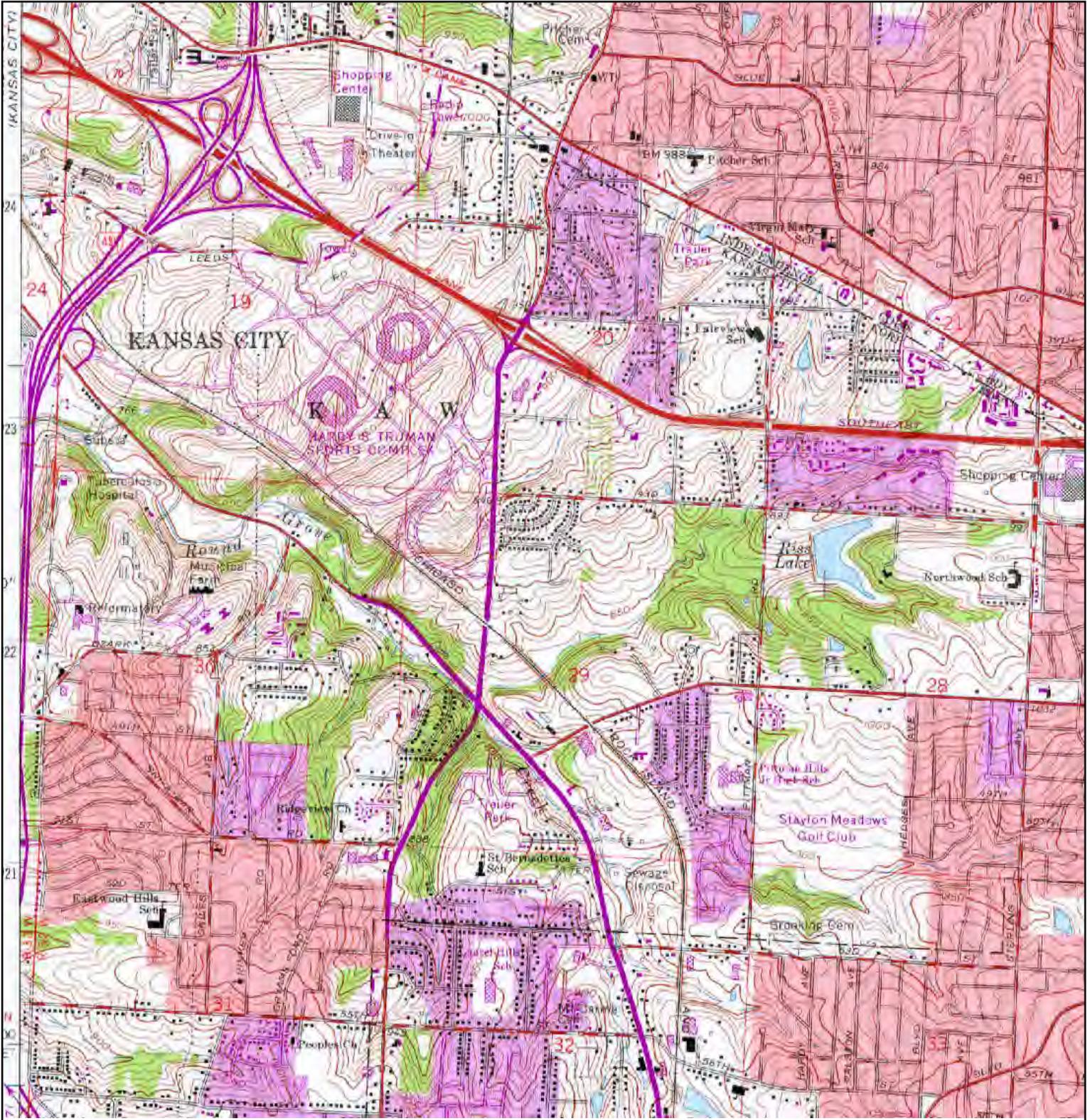
	ADJOINING QUAD			
	NAME:	INDEPENDENCE		SITE NAME: Kansas City Missouri Public Works East Garage
	MAP YEAR:	1964		ADDRESS: 4635 East Coal Mine Rd and 4725 East Coal Mine Rd Kansas City, MO 64129
	SERIES:	7.5		LAT/LONG: 39.0426 / -94.5082
	SCALE:	1:24000		CLIENT: Tetra Tech EMI CONTACT: Kumud Pyakuryal INQUIRY#: 3789859.4 RESEARCH DATE: 11/19/2013

Historical Topographic Map



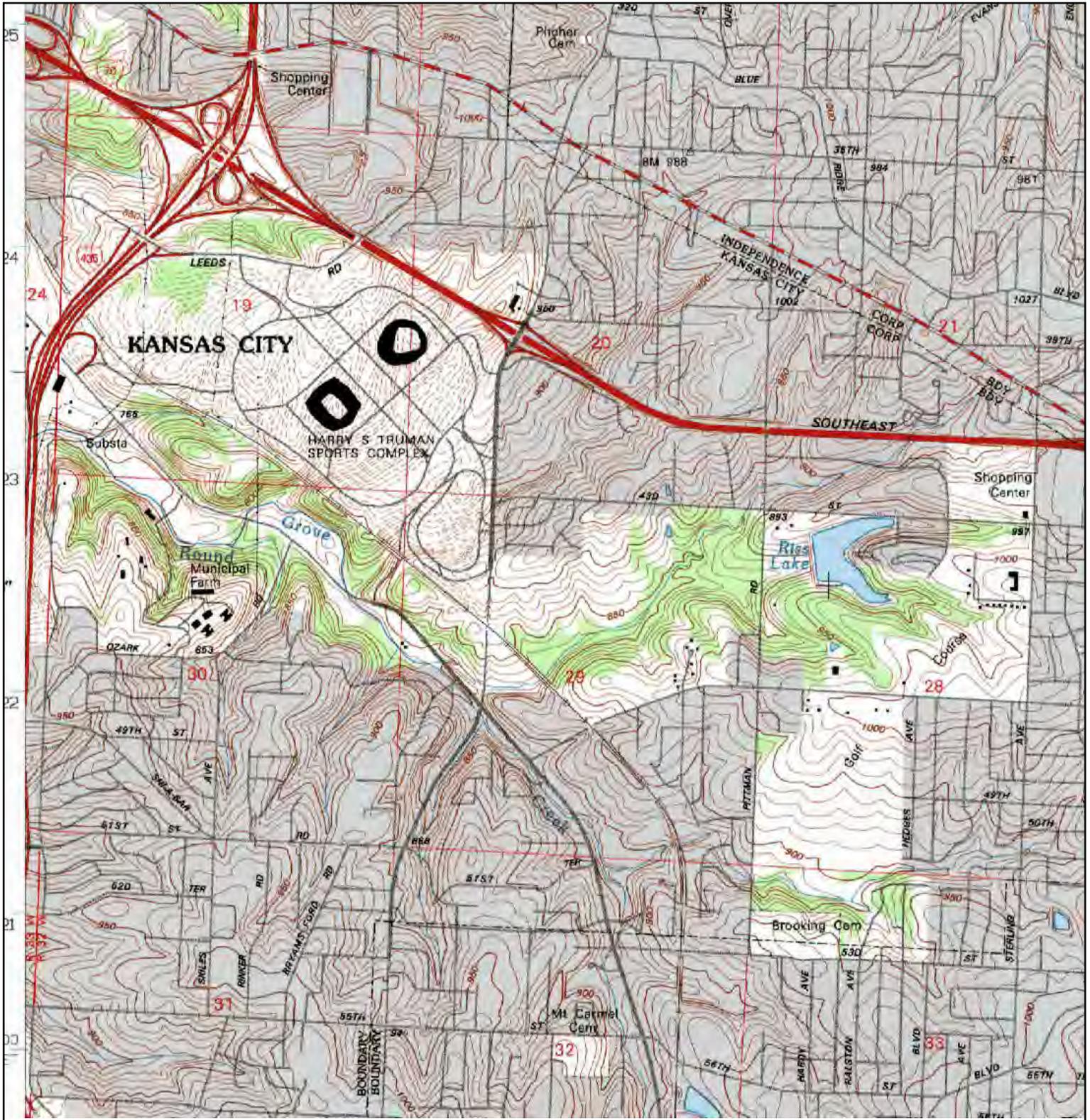
	ADJOINING QUAD				
	NAME:	INDEPENDENCE		SITE NAME:	Kansas City Missouri Public Works East Garage
	MAP YEAR:	1970		ADDRESS:	4635 East Coal Mine Rd and 4725 East Coal Mine Rd
	PHOTOREVISED FROM :	1964			Kansas City, MO 64129
	SERIES:	7.5		LAT/LONG:	39.0426 / -94.5082
	SCALE:	1:24000		CLIENT:	Tetra Tech EMI
		CONTACT:	Kumud Pyakuryal		
		INQUIRY#:	3789859.4		
		RESEARCH DATE:	11/19/2013		

Historical Topographic Map



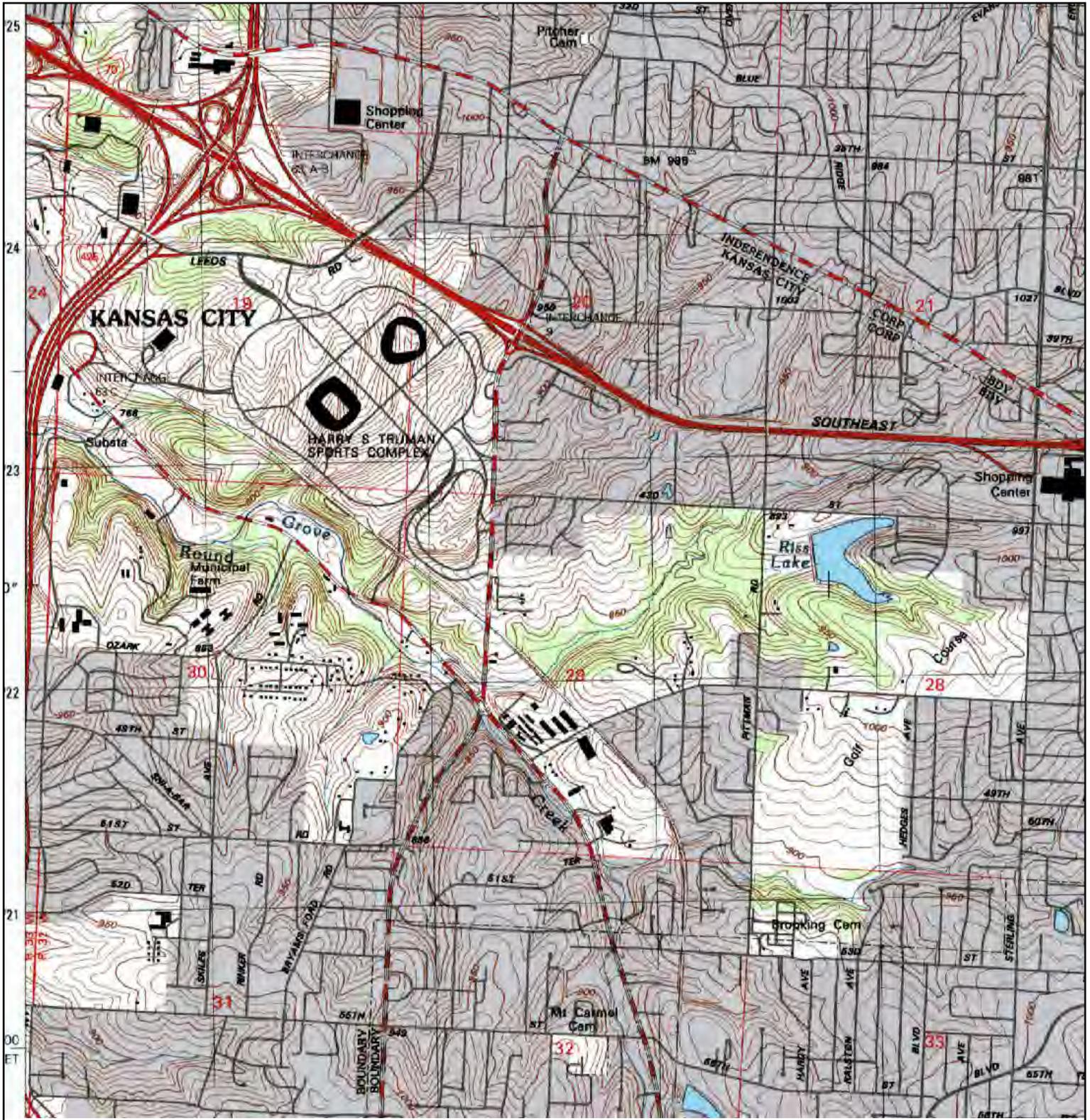
	ADJOINING QUAD		SITE NAME: Kansas City Missouri Public Works East Garage	CLIENT: Tetra Tech EMI
	NAME: INDEPENDENCE	SITE NAME: Kansas City Missouri Public Works East Garage		
	MAP YEAR: 1975	ADDRESS: 4635 East Coal Mine Rd and 4725 East Coal Mine Rd	INQUIRY#: 3789859.4	RESEARCH DATE: 11/19/2013
	PHOTOREVISED FROM : 1964	LAT/LONG: 39.0426 / -94.5082		
	SERIES: 7.5			
	SCALE: 1:24000			

Historical Topographic Map



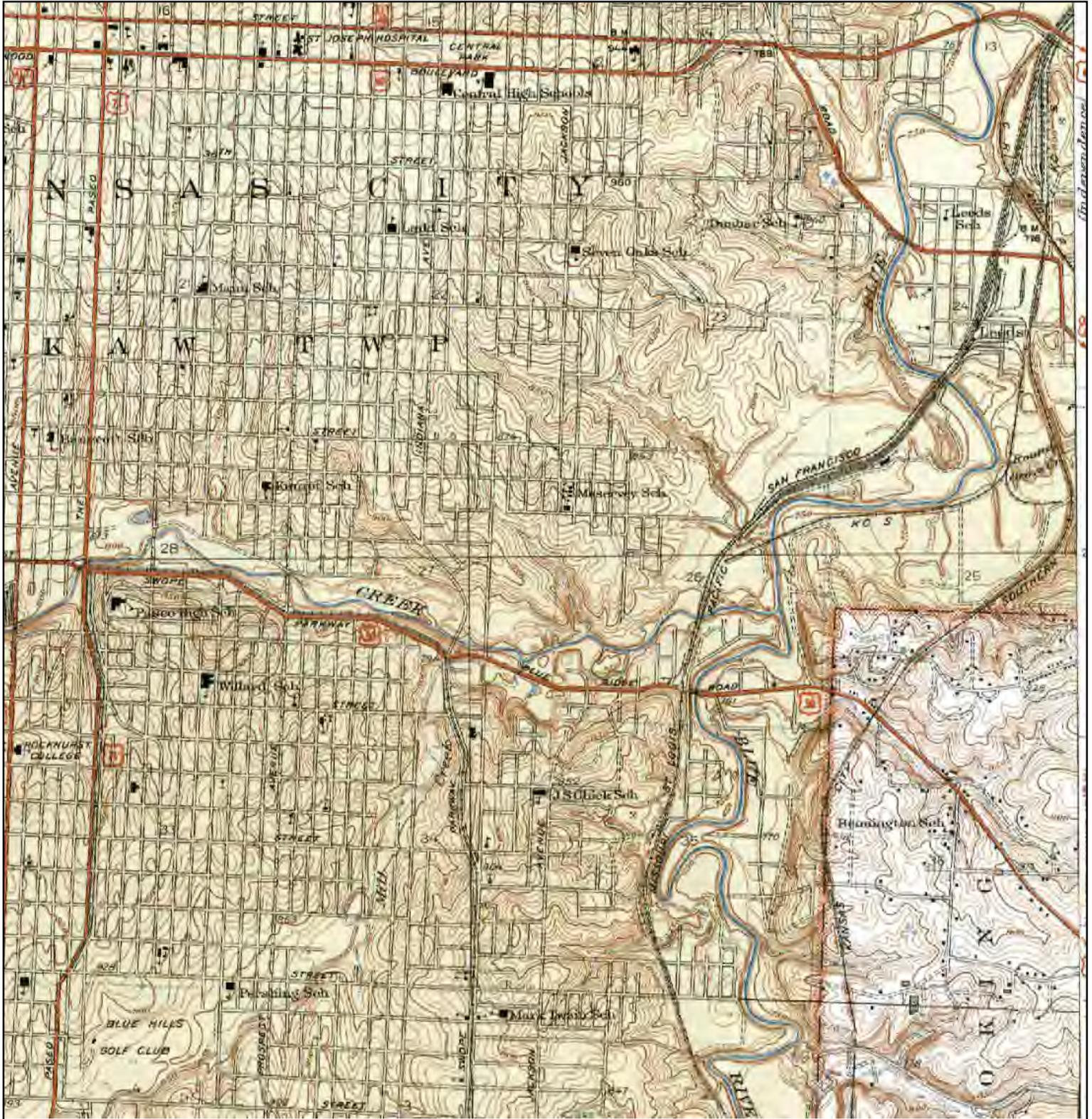
	ADJOINING QUAD	SITE NAME:	CLIENT:
	NAME: INDEPENDENCE	Kansas City Missouri Public Works East Garage	Tetra Tech EMI
	MAP YEAR: 1990	ADDRESS:	Kumud Pyakuryal
	SERIES: 7.5	4635 East Coal Mine Rd and 4725 East Coal Mine Rd	INQUIRY#: 3789859.4
	SCALE: 1:24000	Kansas City, MO 64129	RESEARCH DATE: 11/19/2013
	LAT/LONG:	39.0426 / -94.5082	

Historical Topographic Map



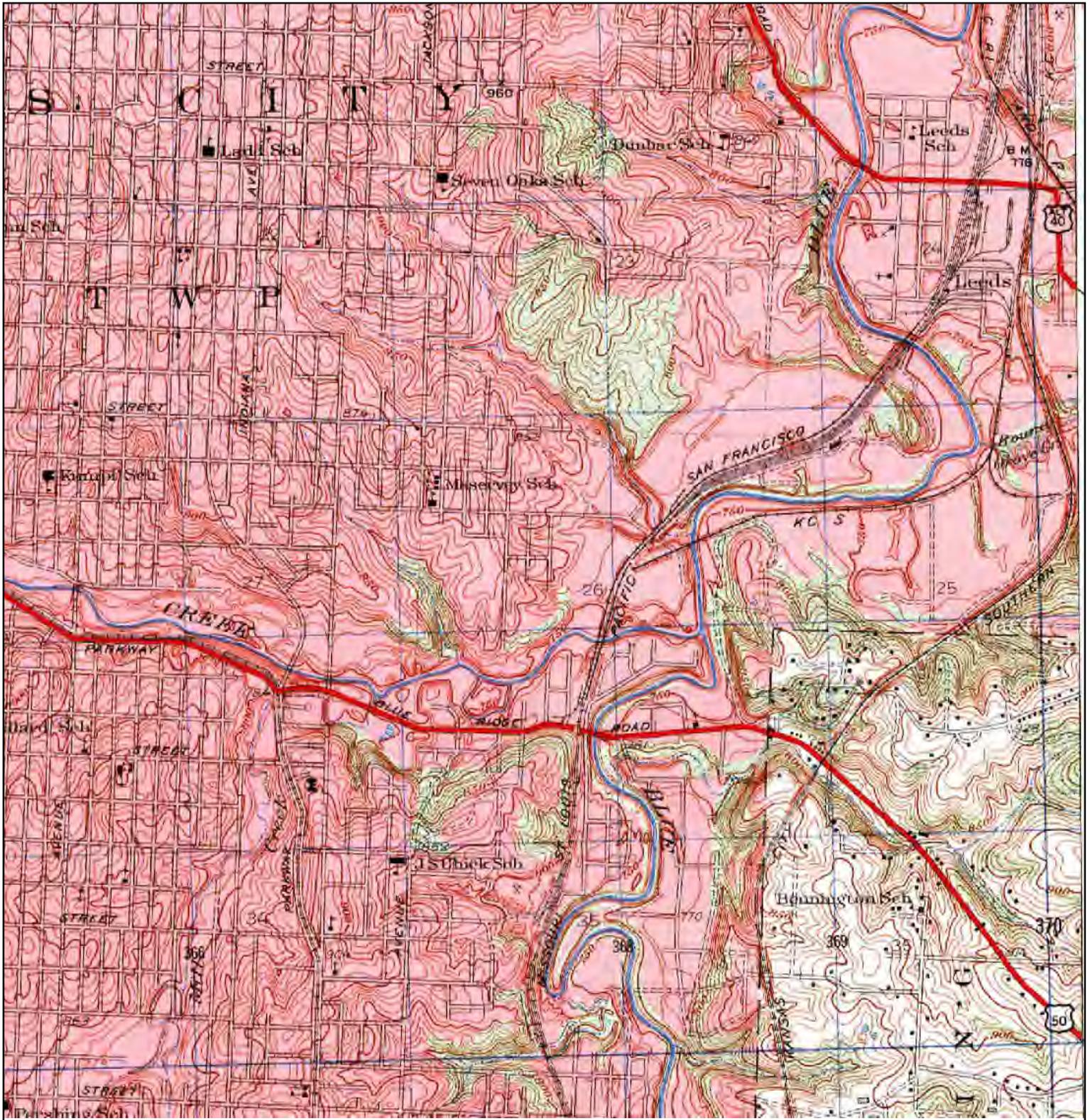
	ADJOINING QUAD			
	NAME:	INDEPENDENCE		SITE NAME: Kansas City Missouri Public Works East Garage
	MAP YEAR:	1996		ADDRESS: 4635 East Coal Mine Rd and 4725 East Coal Mine Rd Kansas City, MO 64129
	SERIES:	7.5		LAT/LONG: 39.0426 / -94.5082
	SCALE:	1:24000	CLIENT: Tetra Tech EMI CONTACT: Kumud Pyakuryal INQUIRY#: 3789859.4 RESEARCH DATE: 11/19/2013	

Historical Topographic Map



	TARGET QUAD	SITE NAME: LaFarge Site	CLIENT: Tetra Tech EMI
	NAME: KANSAS CITY	ADDRESS: 4701, 4721, and 4725 E Coal Mine Rd	CONTACT: Joanna Sciegienka
	MAP YEAR: 1940	Kansas City, MO 64129	INQUIRY#: 3439985.4
	SERIES: 7.5	LAT/LONG: 39.0416 / -94.5122	RESEARCH DATE: 10/24/2012
	SCALE: 1:31680		

Historical Topographic Map



N ↑	TARGET QUAD	SITE NAME: LaFarge Site	CLIENT: Tetra Tech EMI
	NAME: KANSAS CITY	ADDRESS: 4701, 4721, and 4725 E Coal Mine Rd	CONTACT: Joanna Sciegienka
	MAP YEAR: 1948	KANSAS CITY, MO 64129	INQUIRY#: 3439985.4
	SERIES: 7.5	LAT/LONG: 39.0416 / -94.5122	RESEARCH DATE: 10/24/2012
	SCALE: 1:25000		

APPENDIX F-4
HISTORICAL CITY DIRECTORIES

Kansas City Missouri Public Works East Garage

4635 East Coal Mine Rd and 4725 East Coal Mine Rd
Kansas City, MO 64129

Inquiry Number: 3789859.6

November 19, 2013

The EDR-City Directory Abstract

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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

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 2013. 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.

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>
2013	Cole Information Services	-	-	-	-
2008	Cole Information Services	-	-	-	-
2006	Cole Information Services	-	-	-	-
2000	R. L. Polk Co. Publishers	-	-	-	-
1995	Cole Publications	-	-	-	-
1990	R. L. Polk Co.	-	-	-	-
1985	R. L. Polk and Co.	-	-	-	-
1980	R. L. Polk Co., Publishers	-	-	-	-
1975	R. L. Polk Co.	-	-	-	-
1970	R. L. Polk Co.	-	-	-	-
1966	R. L. Polk and Co.	-	-	-	-
1961	R. L. Polk Co.	-	-	-	-
1956	R. L. Polk Co.	-	-	-	-
1951	R. L. Polk Co.	-	-	-	-
1945	Gate City Directory Co.	-	-	-	-
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

4635 East Coal Mine Rd and 4725 East Coal Mine Rd
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.

No Addresses Found

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

4635 East Coal Mine Rd and
4725 East Coal Mine Rd

Address Not Identified in Research Source

2013, 2008, 2006, 2000, 1995, 1990, 1985, 1980, 1975, 1970, 1966, 1961, 1956,
1951, 1945, 1940, 1935, 1930, 1925, 1920, 1909