

**PHASE I
ENVIRONMENTAL SITE ASSESSMENT**

**HALL OF WATERS BUILDING
201 EAST BROADWAY
EXCELSIOR SPRINGS, CLAY COUNTY, MISSOURI 64025**



Prepared For

State of Missouri

Prepared By



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EXECUTIVE SUMMARY
Hall of Waters Building
201 East Broadway
Excelsior Springs, Missouri 64025

American Osage Consulting, Inc. (AOC) is pleased to submit the results of our Phase I Environmental Site Assessment (ESA) of the Hall of Waters Building located at 201 East Broadway Street in Excelsior Springs, Missouri (Subject Property herein). The site location is illustrated in Figure 1. This assessment was authorized on October 20, 2012 by Mr. Eric Gorman.

The Subject Property consists of one (1), two-story office building, with two sub-grade levels which houses the city government for Excelsior Springs. The Subject Property reportedly began construction in 1935. The Subject Property orientation is illustrated in Figure 2.

Item	Report Section	Satisfactory	Satisfactory / O&M or Other Recommended	Phase II Recommended / Comments
Physical Setting	3.0	X		
Historic Uses of Property	4.1	X		
Historic Uses of Abutting Sites	4.2	X		Area heavily developed dating back to early 1900s.
Prior Reports	4.3			None provided.
User Supplied Data	4.4 - 4.11			None provided.
Regulatory Records	5.1	X		Subject Property listed.
Local Agency Records	5.2	X		No concerns identified by city building or fire departments.
EnviroFacts	5.3	X		Subject Property not listed.
Site Uses and Operations	6.3.1	X		Office space
Underground Storage Tanks	6.3.2	X		None noted or reported
Aboveground Storage Tanks	6.3.3	X		None noted or reported
Polychlorinated Biphenyls	6.3.4	X		One pole-mounted transformer present, which is not labeled.
Hydraulic Equipment	6.3.5		X	Elevator and transformer fluids may contain PCBs
Chemicals/Hazardous Materials & Raw Materials	6.3.6	X		No concerns noted.
Waste Generation	6.3.7	X		Standard waste and recycling waste noted.
Wells, Sumps, Pits, & Flood Drains	6.3.8	X		No concerns noted.
Runoff & Surface Water	6.3.9	X		No concerns noted.
Lagoons, Septic Systems & Separators	6.3.10	X		None on or abutting Subject Property.
Stressed Vegetation, Staining, Odors	6.3.11	X		None
Surficial Disturbances	6.3.12	X		None
On-site Dry Cleaners	6.3.13	X		None present or registered

				via database.
Drums & Other Containers	6.3.14	X		No concerns noted.
Wastewater Discharges	6.3.15	X		No concerns noted.
Radon	6.4.1	X		Area prone / testing is recommended if the lower level is to be used with greater frequency
Lead-based Paint	6.4.2	X		Likely present due to age of development, excluding office area.
Lead In Drinking Water	6.4.3	X		No concerns noted.
Air Emissions	6.4.5	X		No concerns noted.
Current Uses of Abutting Properties	6.4.5	X		Mostly commercial and retail.
Other			X	A file review is recommended for the two former dry cleaning sites listed in the EDR

Recommendations

- AOC does recommend a file review of the MDNR offices in Jefferson City regarding the two abandoned dry cleaning facilities reported by EDR within 0.25 miles of the Subject Property. The file review should be to ascertain whether contamination from these two facilities, if any, has impacted the Subject Property.
- AOC recommends radon testing in the lower levels if these areas are to be inhabited with greater frequency.
- asbestos
- lead-paint

1.0 INTRODUCTION

This report presents the results of the Phase I Environmental Site Assessment (ESA) performed by American Osage Consulting, Inc. (AOC) at the Hall of Waters Building located at 201 East Broadway in Excelsior Springs, Clay County, Missouri (Subject Property). This assessment was authorized by Mr. Eric Gorman on October 20, 2012.

1.1 Purpose and Scope

The purpose of the ESA was to conduct all appropriate inquiry into the previous ownership and uses of the Subject Property consistent with good commercial or customary practice as defined at 42 U.S.C. Section 9601(35)(B). As such, this assessment is intended to permit a user to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on Comprehensive Environmental Response, Compensation, and Liability Act liability.

The scope of work for this project included observing site and adjoining property conditions, reviewing regulatory agency database records, contacting local officials and other persons knowledgeable of the property, and reviewing pertinent historical documents with regard to past land use, regional setting information, and ownership records, and summarizing our findings. Each task is conducted with the intent to identify recognized environmental conditions, as defined by American Society for Testing and Materials (ASTM) Standard Practice for Environmental Site Assessments E 1527-05. This ASTM E 1527-05 standard meets the requirements set forth in 40 CFR Part 312, Standards and Practices for All Appropriate Inquiries.

Recognized environmental conditions generally include features suggesting the presence or likely presence of hazardous substances or petroleum products on the Subject Property that cause or threaten to cause the incurrence of response actions. Recognized environmental conditions include hazardous substances or petroleum products under conditions that are in compliance with laws. Recognized environmental conditions may also include historical conditions that have been addressed in the past.

Recognized environmental conditions do not include de minimis conditions that generally do not present a threat to human health or the environment, and generally would not be subject to enforcement action if brought to the attention of appropriate governmental agencies.

1.2 User Reliance

This report has been prepared to aid State of Missouri (herein referred to as CLIENT) in identifying and addressing potential environmental site conditions at the Subject Property. This report is prepared for the sole benefit of CLIENT, and may not be relied upon by any other person or entity without the written authorization of AOC and its subcontractor.

All limitations and conditions associated with the original report and the original contract with the original primary client remain in effect and transfer along with this authorization of reliance, with the exception of the items noted. This report supersedes any and all exclusivity provisions contained in the referenced report or contract. All other conditions remain unchanged. In the event that a dispute should arise between any two or more entities granted reliance on the referenced reports, AOC will testify only as a fact witness. Notwithstanding limitations defined in the terms and conditions of the contract with the borrower, the limitation of professional liability extended to interested parties relying on this report shall be the fee in total.

1.3 General Limitations

In conducting this Phase I ESA, AOC relied on federal and state regulatory agency database information, published historical and physical setting sources, and interviews with knowledgeable parties, regulatory officials, and other private individuals. AOC has assumed where reasonable to do so that the information provided is true and accurate. If information to the contrary is discovered, our conclusions and recommendations may not be valid.

No environmental site assessment can wholly eliminate uncertainty regarding the potential for recognized environmental conditions in connection with a property. Performance of this practice is intended to reduce, but not eliminate, uncertainty regarding the potential for recognized environmental conditions in connection with a property, and this practice recognizes reasonable limits of time and cost.

AOC obtained environmental agency database information from Environmental Data Resources, Inc. (EDR). The databases usually present the location of the entities by their street address. In many cases this is the only reasonable means by which we may locate a database entry. The actual location of an entry may not be accurately indicated by the street address given.

Certain environmental hazards are impossible to visually identify; their presence can be verified only by testing and analysis. AOC can make no direct inferences as to the subsurface conditions at the site based on the Phase I scope of work, which does not include a physical investigation of the subsurface. No detailed wetlands assessments, endangered species, or fault investigations were performed during this site assessment.

Conditions other than those observed may exist in inaccessible or unobserved areas of the Subject Property. During the site visit, materials identified on the Subject Property were not disturbed and underlying conditions were not observed. Should there be a substantial change in the functional utilization of the property, or if additional improvements are planned, the conclusions presented here may not be valid. If there are changes in the use of the Subject Property or changes in the adjacent property activities or conditions, AOC should be notified so that we may observe these conditions.

Our conclusions and recommendations relate only to the areas we observed during the site reconnaissance and the findings of the research noted in this report. The scope of this report is limited to matters expressly covered.

1.4 Site Specific Limitations

Weather Related Limitations: There were no weather related limitations to this assessment.

Access Limitations: AOC experienced access limitations on the day of the inspection. The site contact that reportedly was to show AOC through the building did not show at the appointed time. As a result, the personnel in the building were unaware of the pending inspection and various locations were not accessible for the Phase I portion of the review. A review of the roof and tower were not deemed necessary for this Phase I. AOC was not able to interview any of the current tenants' representatives. The completion of the site questionnaire was declined by State of Missouri. Due to the dense growth along the southern boundary (creek area), AOC was unable to walk this area.

Other limitations: There were no other limitations to this assessment.

1.5 Data Gaps

AOC was unable to determine the property use at 5-year intervals, which constitutes a data gap. The following problems were encountered:

- The city of Excelsior Springs does not have a collection of aerial photographs for the area.
- The Excelsior Springs, Liberty, and Kearney, Missouri Public Libraries did not have a collection of City Directories for the city.
- Aerials could not be provided at five-year increments.
- Most of the topographic maps illustrate the Subject Property and area as shaded and did not delineate individual structures.
- Recorded land title records were not reasonably ascertainable within the City's records.

Except for property tax files and recorded land title records, which are not considered to be sufficiently useful, AOC reviewed all standard historical sources and conducted appropriate interviews.

The missing aerial photographs and lack of historic topographic map data constitutes a data failure, but are not considered critical and do not change the conclusions of this report.

2.0 PROPERTY DESCRIPTION

The legal description of the Subject Property is as follows:

Address	Parcel Number	Lot Size (acres)	Lot Shape	Developed With
201 East Broadway Street	12-311-00-23-021.00	14.28	Irregular	Two-story office with two sub-levels
Total Land Area		14.28 acres or 622,036.8 SF +/-		

The Subject Property is located at 201 East Broadway in Excelsior Springs, Clay County, Missouri (see Figure 1) and consists of a single, two-story building constructed in 1935 (start of construction). The building has two below grade levels, one with offices and the other housing the old boilers and storage. The Subject property is located along the south side of East Broadway, near the intersection of Main and Broadway. A copy of the parcel map is included in Appendix A. The Subject property orientation is illustrated in Figure 2. The legal description is as follows:

EXCELSIOR SPRINGS CITY BLOCKS CBS 68, 69, 70, 71, 120 & 121 BLK 35
SOUTHERN ADDITION BEG SE COR INTERS S MAIN ST & RIVER ST, N415,
E65, N70, E75, N100, E160, S77, E50, S34, E210, N33, E10, S33, E185, S

According to the plaques located in the building (historic building), the building construction began in 1935 and was completed in 1939 under Public Works Project No. 5252. The Parcel No. for the Subject Property is 12-311-00-23-021.00. According to the current owner, the subject property building has a gross area of 50,500 square feet (SF). The Clay County Assessor's office could not verify the square footage of the building. According to the city Planning Department, the zoning designation for the Subject Property is "Park."

The following was obtained from the city's website:

In 1935 the city of Excelsior Springs began a \$1 million Federal Public Works Administration project, the Hall of Waters, to house Siloam Spring and bottle it and nine other mineral waters. The waters bottled here included calcium bicarbonate, sodium bicarbonate (soda water), sulfo-saline, and iron manganese. The building is one of two Art Deco buildings in the city. It is listed on the Local Landmarks Register, the Clay County Historical Register and the National Register of Historic Places. It is the center piece of the Local Register Hall of Waters Historic District, designated in March 2007. Public offices are housed here today, open from 8 a.m. to 5 p.m. Monday through Friday. It houses the world's longest water bar. The water bar solarium features a self-guided walking tour of the history of Excelsior Springs and is available for community events.

Various wells connected with the city water supply at Excelsior Springs were found to contain certain chemicals of medicinal and therapeutic value. This water is first purified and then pumped to the dispensing outlets in the 'hall of waters' which was erected by the city as part of a program of the mineral-water development. The building contains a large swimming pool, hydrotherapy departments for men and women, locker and shower rooms, and rooms for cooling and packing treatment. Also included are offices for the chamber of commerce, city council, manager, and for sales, production, and distribution of water. The building is constructed of rubble stone, dressed stone, and some stucco finish. It was completed in July 1939 at a construction cost of \$574,187 and a project cost of \$873,257.

The Subject Property building is constructed with two floors above grade and two floors below grade. Overall, the building has a reinforced concrete frame with stone/granite exterior walls and a reinforced concrete foundation. Under the grassy area in front of the building (referred to herein as the lawn) is a designated bomb shelter with is also constructed or reinforced concrete framing and walls. At the time of the inspection, the building was occupied by the city offices of Excelsior Springs, along with a tourist information area. Parking is available on the west side of the building and along the east side of the building.

Most of the Subject Property is undeveloped land or used as a park/ball field. A creek runs along the southern portion of the Subject Property. The southern embankment is steep and heavily overgrown with native trees and shrubs.

The interior of the building is finished with plaster and sheetrock walls; 2'x2' and 2'x4' ceiling panels suspended from an aluminum frame, sheetrock, and plaster ceilings; and either low-pile carpet, vinyl tile, or terrazzo flooring. Portions of the two below grade areas are unfinished with exposed concrete floors, walls, and ceilings. Under the tourist museum/information center is the former "hot springs" pool, which is no longer in use.

The building is heated by one natural gas fired boiler. Cooling is accomplished by exterior condensers and window units. Heated water is supplied by natural gas fired water heaters.

The building has a net rentable/gross area of approximately 50,500 SF. According to the Clay County Assessor's office, the building is situated on approximately 14.28 acres of land that is currently owned by the city.

The Subject Property lies along the south side of East Broadway Street in an area referred to as the Historic Hall of Waters District. The area along Broadway is predominantly developed as retail or commercial. To the north of the Subject Property is East Broadway followed by a city parking lot then new housing. The area along the south side Broadway consists of a mix of retail shops, restaurants, and vacant spaces. The area to the east consists of a residential neighborhood. To the south are two buildings housing an automotive repair shop, Darkside Tinting, and Don Loveland

Doors. Along the south side of Highway 10 the area is residential. To the west is the police building (east side of Main Street) and the Gallery Off Broadway and Paradise Playhouse (both on the west side of Main Street).

The city of Excelsior Springs (Board of Public Utilities or BPU) provides electricity, sewer, and water and Missouri Gas Service provides natural gas to the area.

3.0 PHYSICAL SETTING

AOC reviewed reasonably ascertainable information to characterize the general topography, geology, soils, and hydrogeology in the site vicinity. These features were examined to evaluate their potential as pathways for contaminant migration, and to identify potential receptors of contamination either on or near the Subject Property. AOC reviewed the information discussed in the following with regard to the geology and hydrogeology of the site and surrounding area. Appendix A includes records of correspondence and website information.

- Groundwater – determined based on recent drilling activities.
- *Clay County Soil Survey*, Version 5 dated November 23, 2010
- U. S. Geological Survey (USGS), 7.5 Minute, Excelsior Springs, Missouri, 1996.
- Hydric soil information presented at the <http://soils.usda.gov/use/hydric/lists/state.html> website.
- United States Fish and Wildlife Services, National Wetland Inventory Map, www.fws.com.
- Federal Emergency Management Agency, Flood Insurance Rate Maps, Community Panel No. 20209C0180D, dated September 2, 2011, <http://fema.gov>.

Topography and Surface Drainage: According to the USGS, Excelsior Springs, Missouri, 7.5-minute topographic map, the Subject Property lies at an elevation between 720 and 790 feet above sea level. The site has a moderate to steep slope towards the creek. The area on the north side of the creek slopes moderately toward the creek. The area south of the creek has a steep slope towards the creek. Approximately 20 percent of the entire Subject Property is developed or covered by either the building or paved areas. The remainder of the Subject Property consists of grassy or wooded areas. Given the large amount of grassy area that exists, a considerable amount of precipitation would stay on or percolate into the Subject Property.

Runoff from the paved area along the west side of the building is channeled to curb inlets around the perimeter of the lot. Runoff from the eastern lot is channeled to one grate inlet or to the abutting grassy area. Runoff from the roofs is conveyed through the building to the municipal system.

Based on the observed surface conditions, it appears that the Subject Property could receive significant surface water runoff from adjoining properties to the south. Little runoff would be anticipated from the abutting areas to the north, east, and west.

Other than the creek (East Fort Fishing River) that runs through the Subject Property, the nearest body of water appears to be the Dry Fork River, which is approximately 600 feet west. Dry Fork flows in a southerly direction. The next closest body of water is Dry

Fork Lake, which is approximately 0.25 miles northeast of the Subject Property. No other bodies of water are located within 0.5 miles of the property. A copy of the topographic map is included in Appendix A.

Geology: Clay County, Missouri lies within the Western Interior Plains Confining System (USGS, 1996). The bedrock units found in Clay County are not part of a regional aquifer system but are part of a confining unit between the Great Plains aquifer system and the Western Interior Plains aquifer system (USGS, 1996). The Pennsylvanian age limestone deposits can act as potential aquifers, but leakage and vertical water movement through the confining unit is very small, due to the thick shale layers found in the region. The Pennsylvanian rocks found in Clay County can be used to provide water for domestic and stock purposes with very low well yields. These units are not used to provide water for large municipal water supplies. The bedrock units are inconsistent and highly variable in terms of finding sustainable yields.

Clay County lays within the Physiographic region known as the Central Lowland Province, specifically, the Osage Cuesta physiographic area. The Cuestas of the Central Lowland Province in Clay County are Pennsylvanian Age lime stones and shale that dip gently to the west and northwest. The Cuestas are characterized by a series of east-facing ridges (or escarpments), between which are flat to gently rolling plains. Each escarpment is capped by the more-resistant limestone, while the gentle slopes are underlain by thick layers of shale. The steep faces of the cuestas range in height from approximately 50 feet to 200 feet. Streams within Clay County flow as tributaries to major rivers such as the Missouri River to the south. Tributaries to the major streams are typically formed from valley-fill sediments of silt and clay; therefore, the transmissibility is low.

Soils: According to the USDA, *Clay County Soil Survey*, Version 10 dated September 24, 2012; the Subject Property soil consists of Wiota silt loam, 0 to 2 percent slopes; Nodaway silt loam, 0 to 2 percent slopes, occasionally flooded; and Bremer silt loam, 0 to 2 percent slopes, occasionally flooded. Wiota silt loam, 0 to 2 percent slopes (Wiota) soils are derived from Alluvium. Wiota is classified as being well drained with a very high water capacity. The typical profile for this soil is as follows:

0 to 29 inches Silt loam
29 to 48 inches Silty clay loam
48 to 80 inches Silt loam

Nodaway silt loam, 0 to 2 percent slopes, occasionally flooded (Nodaway) soils are derived from Alluvium. Nodaway is classified as being moderately well drained with a very high water capacity. The typical profile for this soil is as follows:

0 to 8 inches Silt loam
8 to 80 inches Silt loam

Bremer silt loam, 0 to 2 percent slopes, occasionally flooded (Bremer) soils are derived from Alluvium. Bremer is classified as being poorly drained with a high water capacity. The typical profile for this soil is as follows:

0 to 20 inches Silt loam
20 to 41 inches Silty clay loam
41 to 60 inches Silty clay loam

The creek running through the Subject Property is classified as wetlands, as is Dry Fork to the west. The map and detailed descriptions are included in Appendix A.

Hydrogeology: Major groundwater aquifers in the Clay County area include both the Great Plains aquifer system and the Western Interior Plains aquifer system. The majority of water production for domestic use is from surface sources and not groundwater. Based on groundwater investigations on the Subject Property and others performed in the immediate area, depth to groundwater is estimated to vary depending on the location. Groundwater was encountered along the north side of East Broadway in early 2012 at a depth of 16 to 18 feet below ground surface. Groundwater flow is inferred to the south, southwest following the river.

Federal Emergency Management Act (FEMA) Flood Insurance Rate Map (FIRM): A review of the Flood Insurance Rate Maps, published by the Federal Emergency Management Agency, indicates the Subject Property is located in a Flood Zone with established depths. The area along the creek that runs through the Subject property is designated as a Flood Zone with established depths. Refer to Panel 2900900005C, dated April 16, 2003. This map is included in Appendix A.

Wetlands: Wetlands are defined as areas that have a predominance of hydric soils, and are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support a prevalence of hydrophilic vegetation typically adapted for life in saturated soil conditions. AOC reviewed the National Wetlands Inventory map for the Subject Property, which was prepared by the US Fish and Wildlife Service for the Subject Property. The National Wetland Inventory map does indicate that the creek running through the Subject Property is a wetland. A copy of the map is included in Appendix A.

Seismic: According to the 1997 Uniform Building Code, the subject property is located in a classification Zone 2a seismic zone. The classification implies minimal threat of seismic activity occurring in this area. Historically, Missouri has seen only minimum levels of seismic activity, with no significant activity or damage noted. Damage to the buildings on the subject property was not observed.

4.0 HISTORICAL REVIEW

AOC consulted standard historical sources, conducted interviews with knowledgeable site personnel, where available, and reviewed previously-conducted environmental reports (if provided by owner) to learn the historic uses of the Subject Property and the surrounding area to identify recognized environmental conditions in connection with the Subject Property. AOC reviewed the historical sources listed below.

- Sanborn fire insurance maps were provided by EDR for the years 1894, 1900, 1905, 1909, 1913, 1926, and 1942.
- Aerial photographs were provided by EDR for the years: 1947, 1970, 1975, 1996, 2005, 2006, and 2007.
- A 2004 aerial photograph was available from the Clay County Assessor's office.
- Aerial photographs for 1970 and 2007 were available for review at www.historicaerials.com.
- USGS topographic quadrangle maps, entitled Excelsior Springs, Missouri, were available at www.historicaerials.com for the years: 1894, 1901, 1910, 1921, 1941, 1958, 1976, and 1997.
- City Directories for Excelsior Springs were not made.

4.1 Historic Site Uses

Aerial Photograph Summary:

According to the available aerial photographs, the Subject Property was developed prior to the earliest available aerial photograph, which was taken in 1947. In the 1947 aerial, the building appears constructed but the pool is open or not enclosed. The western parking lot is developed with a building in 1947. The parking lot did not appear until the 1996 aerial. The pool enclosure is first clearly visible in the 1975 aerial.

Sanborn Fire Insurance Maps:

From 1894 to 1926, the current building was not present in the Sanborn maps. Portions of the northern and western boundaries were developed with commercial developments, none of which were identified as an environmental concern. Historically, most of the land area has not been developed and has been used as a park and playground area.

Date: 1894	
Source/Scale: EDR/NTS	
SUBJECT PROPERTY	OFFSITE
<p>Most of the Subject Property is not covered by the Sanborn Map. The area where the current building is located appears to be developed with a structure referred to as the Siloam Spring, with what appears to be a platform with steps. The platform appears to extend out to the East Fork Fishing River which cuts through the Subject Property. The area on the south side of the river is listed as vacant.</p> <p>Two buildings are present along the east side of main one listed as a hose house (267) and storage (268). In between the two buildings is a bell tower.</p>	<p>North – On the south side of East Broadway and west of the current “front lawn” is a building listed as Refreshment & Restaurant. On the south side of East Broadway and east of the current “front lawn” is (from west to east) one building housing a carpenter shop, paint shop, and storage (111-110). Further east is a dwelling (106).</p> <p>Along the north side of East Broadway is (east to west) First Street; a vacant lot (95) a dwelling (94); a vacant lot (93); a dwelling (92); cold storage building (90½-91); a dwelling (90) then three vacant lots (87-89); a hotel (86); Elizabeth intersection; a building housing a drug store and printing shop (84-85); 2nd Hand store (83); drug store (82); Keystone Livery (80-81); doctor’s office and a cobbler (78-79); and a liquor store (76-77).</p> <p>South – No coverage</p> <p>East – No coverage</p> <p>West – Developed with the Excelsior Hotel. On the west side of Main (from north to south) is a grocery (253); cobbler (252½); tailor (252); vacant space (251); Chinese Laundry (250); a vacant lot (249); a dwelling (248); a street intersection; a dwelling (247); ice house (245); dwelling 164); street intersection; and a dwelling (165).</p>

Date: 1900	
Source/Scale: EDR/NTS	
SUBJECT PROPERTY	OFFSITE
<p>Most of the Subject Property is not covered by the Sanborn Map. The area where the current building is located appears to be developed with a structure referred to as the Siloam Spring, with what appears to be a platform with steps. The platform appears to extend out to the East Fork Fishing River which cuts through the Subject Property. The area on the south side of the river is listed as vacant.</p> <p>Three buildings are present along the east side of main one listed as a hose house (267), Bl Siti (268), and wood (269).</p>	<p>North – On the south side of East Broadway and west of what is currently the “front lawn” area is a building listed as Refreshment & Restaurant. On the south side of East Broadway and east of what is currently the “front lawn” area are multiple small buildings listed as (west to east) hand printing (112-111), dwelling (110), repair shop, flour (109), and photo (108), vacant lot, dwelling (107), and a boarding house (106). Along the north side of East Broadway is (east to west) First Street, nothing listed at 95, dwelling (94), nothing listed at 93, grocery (92), storage (91), bath house (90), three vacant lots (87-89), Planters Hotel (86), Elizabeth intersects, grocery (85), a printer (84), meat market (83), a space labeled sal (82), livery (80-81), a barber (79), a restaurant (78), and a drug store and grocery store (76-77).</p> <p>South – No coverage</p> <p>East – No coverage</p> <p>West – Developed with the Excelsior Hotel. On the west side of Main (from north to south) is a hardware</p>

	store (253); W. He (252½); grocery (252); Chinese Laundry (251); Bath House (248-250); a street intersection; a dwelling (247); alley; gas pipe shop (246); a vacant lot (245); dwelling 164); street intersection; and a dwelling (165).
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Date: 1905	
Source/Scale: EDR/NTS	
SUBJECT PROPERTY	OFFSITE
Most of the Subject Property is not covered by the Sanborn Map. The area where the current building is located appears to be developed with a structure referred to as the Siloam Spring, with what appears to be a platform with steps. The platform is labeled as "Pavilion." The spring no longer appears to feed into the East Fork Fishing River which cuts through the Subject Property. The area on the south side of the river is listed as vacant.	<p>North – On the south side of East Broadway and west of the current "front lawn area" is a building listed as Refreshment & Restaurant. On the south side of East Broadway and east of the current "front lawn" is (from west to east) one building listed as rooms; then an office building; then a building housing a novelty store, grocery store, and the Journal & Daily Call; then two offices in one building; and a photo. Along the north side of East Broadway is (east to west) the fire department (95); an office (94); grocery (92); tin shop (91); a vacant building (90); a building titled K of P Hall (87-89) with a bakery; the Planters Hotel (86); Elizabeth intersects Broadway; drug store (85); Bro (84); Furniture store (83); 2nd Hand store (82); livery (80-82); two unidentified addresses 78 and 79; Queens & Bro (77); and a drug store (76). At the SE corner of Main and Broadway is the Clay County Bank.</p> <p>South – No coverage</p> <p>East – No coverage</p> <p>West – Developed with the Excelsior Hotel. One the west side of Main (from north to south) is a vacant building (253); lunch (252½); barber (252); Chinese Laundry (251); Excelsior Bowling Academy (249-250); street intersection; dwelling (247); carpenter (246); marble works (245); dwelling (164); street intersects; and a dwelling (165).</p>

Date: 1909	
Source/Scale: EDR/NTS	
SUBJECT PROPERTY	OFFSITE
<p>Most of the Subject Property is not covered by the Sanborn Map. The area where the current building is located appears to be developed with a structure referred to as the Siloam Spring, with what appears to be a platform with steps. There appears to be a walk out to the East Fork Fishing River which cuts through the Subject Property. The area on the south side of the river is listed as vacant.</p> <p>Along the south side of East Broadway is a building listed as "Sulfur Saline Serine" (117-119) and a small building that is not legible. West is a building listed as lunch and confy (115-117).</p> <p>The area where the existing west lot is located is developed with a building fronting main listed as housing doctor's offices, a bakery, barber, and a grocery (111-117). To the east of this building is the Excelsior Hotel. To the south of 111-117 is a building labeled as "to be furniture" with an address of 201-203. South of 201-203 is a lunch building (207) then the Hotel Nebraska (213-221).</p>	<p>North – On the south side of East Broadway and west of what is currently the "front lawn" are three buildings – ornamental glass, candy, and jewelry. On the SE corner of Main and Broadway is a bank. On the south side of East Broadway and east of what is currently the "front lawn" are multiple buildings. From west to east, a shop labeled D.G.; furnishings; barber; office; Aanos; confy; office; photo; two offices; drug store; and two offices.</p> <p>South – No coverage</p> <p>East – No coverage</p> <p>West – The west side of Main (from north to south) is developed with a drug store (251-253); bowling alley and auditorium (248-250); intersecting street; Orient Hotel; alley; cla cleaning (246); stone cutter (245); Chinese laundry; cla cleaning; intersection street; Buckley Boarding House.</p>

Date: 1913	
Source/Scale: EDR/NTS	
SUBJECT PROPERTY	OFFSITE
<p>Most of the Subject Property is not covered by the Sanborn Map. The area where the current building is located appears to be developed with a structure referred to as the Siloam Spring and a retaining wall. There appears to be a walk out to the East Fork Fishing River which cuts through the Subject Property. The area on the south side of the river is listed as vacant.</p> <p>Along the south side of East Broadway is a building listed as "Sulfur Saline Spring" (119).</p> <p>The area where the existing west lot is located is developed with a building fronting main listed as housing doctor's offices, undertaker, office, and spring water (111-117). To the east of this building is the Excelsior Hotel. To the south of 111-117 is a building labeled as housing a barber and undertaker with an address of 201-203. South of 201-203 is a lunch building (207) then the Hotel Nebraska (213-221).</p>	<p>North – On the south side of East Broadway and west of what is currently the "front lawn" are three buildings – oriental goods, candy, and jewelry. On the SE corner of Main and Broadway is a bank. On the south side of East Broadway and east of what is currently the "front lawn" are multiple buildings. From west to east, a shop labeled D.G.; drugs and printing; barber; office; Notions; office; cobbler, press, photo; grocery; office; and a dwelling. The entire south side of Broadway appears developed.</p> <p>South – No coverage</p> <p>East – No coverage</p> <p>West – The west side of Main (from north to south) is developed with a drug store; bowling alley and auditorium; intersecting street; Orient Hotel; alley; vacant lot; intersection street; building with 2 rooms. The remainder of the area is not illustrated.</p>

Date: 1926	
Source/Scale: EDR/NTS	
SUBJECT PROPERTY	OFFSITE
<p>Most of the Subject Property is not covered by the Sanborn Map. The area where the current building is located appears to be developed with a structure referred to as the Siloam Spring-fire proof construction. The area surrounding the building is listed as Siloam Park. The East Fork Fishing River is not illustrated on the Sanborn.</p> <p>Along the south side of East Broadway is a building listed as "Sulfur Saline Spring HQ" (119).</p> <p>The area where the existing west lot is located is developed with a building fronting Main that is not listed with any tenants but has the name St. Joe (111-117). To the east of this building is the Excelsior Hotel. To the south of 111-117 is a building labeled Lodge hall with multiple rooms. The previous Hotel Nebraska is not illustrated on the map.</p>	<p>North – On the south side of East Broadway and west of what is currently the "front lawn" are five buildings – not labeled, candy factory, not labeled, hotel, and a bank. On the south side of East Broadway and east of what is currently the "front lawn" are multiple buildings, none of which are labeled. The entire south side of Broadway appears developed.</p> <p>South – No coverage</p> <p>East – No coverage</p> <p>West – The west side of Main (from north to south) is developed with an unknown building tenant; a building housing a bowling alley, theater, gym, and dance rink; intersecting street; Savoy Hotel; alley; vacant lot; intersection street; building with 2 rooms. The remainder of the area is not illustrated.</p>

Date: 1942	
Source/Scale: EDR/NTS	
SUBJECT PROPERTY	OFFSITE
<p>Most of the Subject Property is not covered by the Sanborn Map. In 1942, the main building had been developed and is listed as Hall of Waters Municipal Bath House. The area surrounding the building is listed as Siloam Park. The East Fork Fishing River is not illustrated on the Sanborn.</p> <p>The area where the existing west lot is located is developed with a building fronting Main that is listed as the Francis Hotel (111-117). The Excelsior Hotel that used to lie to the east of this building is not present.</p> <p>To the south of 111-117 is a building labeled Mitchell Clinic & Sanatorium.</p>	<p>North – On the south side of East Broadway and west of what is currently the "front lawn" are five main buildings – not labeled, candy factory, not labeled, hotel, and a bank. Between the hotel and the bank are three small structures. On the south side of East Broadway and east of what is currently the "front lawn" are multiple buildings, none of which are labeled. The entire south side of Broadway appears developed.</p> <p>South – No coverage</p> <p>East – No coverage</p> <p>West – The west side of Main (from north to south) is developed with an unknown building tenant; a building housing a dance hall; intersecting street; Savoy Hotel; alley; vacant lot; intersection street; building with 2 rooms. The remainder of the area is not illustrated.</p>

No other Sanborn Maps were available.

Aerial Photographs

AOC obtained aerial photographs from EDR for the years: 1947, 1970, 1975, 1996, 2005, 2006, and 2007. Each aerial and its relative importance to the Subject Property are discussed below. Copies of select aerials are included in Appendix A.

Date: 1947 Scale: 1" = 500' Photo I.D. No.: 3439514.4	
SUBJECT PROPERTY	OFFSITE
Developed with the existing building. The west parking lot is not present but is developed with a building fronting Main. Most of the Subject Property is not developed.	North – The area along the north and south sides of Broadway appear developed with commercial buildings.
	South – Undeveloped
	East – Developed with various small, residential size buildings.
	West – The area along the east and west sides of Main appear developed with commercial buildings.

Date: 1970 Scale: 1" = 500' Photo I.D. No.: 3439514.4	
SUBJECT PROPERTY	OFFSITE
Developed with the existing building. The west parking lot is not present but is developed with a building fronting Main. Most of the Subject Property is not developed.	North – The area along the north and south sides of Broadway appear developed with commercial buildings.
	South – Developed with one commercial-like building fronting Highway 10.
	East – Developed with several commercial buildings followed by various small, residential size buildings.
	West – The area along the east and west sides of Main appear developed with commercial buildings.

Date: 1975 Scale: 1" = 750' Photo I.D. No.: 3439514.4	
SUBJECT PROPERTY	OFFSITE
Developed with the existing building. The west parking lot is not present but is developed with a building fronting Main. By 1975, a ball field had been added along the eastern side of the Subject property. Most of the Subject Property is not developed.	North – The area along the north and south sides of Broadway appear developed with commercial buildings.
	South – Developed with one commercial-like building fronting Highway 10.
	East – Developed with several commercial buildings followed by various small, residential size buildings.
	West – The area along the east and west sides of Main appear developed with commercial buildings.

Date: 1996 Scale: 1" = 500' Photo I.D. No.: 3439514.4	
SUBJECT PROPERTY	OFFSITE
Developed with the existing building and parking lot. The ball field was still evident in the aerial. Most of the Subject Property is not developed.	North – The area along the north and south sides of Broadway appear developed with commercial buildings.
	South – Developed with two commercial-like buildings fronting Highway 10.
	East – Developed with one commercial building followed by various small, residential size buildings.
	West – The area along the east and west sides of Main appear developed with commercial buildings. The police station building was present on the east side of Main by 1996.

Date: 2005 Scale: 1" = 500' Photo I.D. No.: 3439514.4	
SUBJECT PROPERTY	OFFSITE
No significant changes were noted to the Subject Property.	North – No significant changes were noted.
	South – No significant changes were noted.
	East – No significant changes were noted.
	West – No significant changes were noted.

Date: 2006 Scale: 1" = 500' Photo I.D. No.: 3439514.4	
SUBJECT PROPERTY	OFFSITE
No significant changes were noted to the Subject Property.	North – No significant changes were noted.
	South – No significant changes were noted.
	East – No significant changes were noted.
	West – No significant changes were noted.

Date: 2007 Scale: 1" = 500' Photo I.D. No.: 3439514.4	
SUBJECT PROPERTY	OFFSITE
No significant changes were noted to the Subject Property.	North – No significant changes were noted.
	South – No significant changes were noted.
	East – No significant changes were noted.
	West – No significant changes were noted.

No significant changes were noted between 1996 and 2007 for the Subject Property or the immediately surrounding sites. No other aerial photographs were readily available for review. Copies of available aerial photographs are included in Appendix A.

Topographic Maps:

USGS topographic maps, entitled Excelsior Springs, Missouri, were reviewed at www.historicaerials.com for the years: 1894, 1901, 1910, 1921, 1941, 1958, 1976, and 1997. Due to the high degree of historic development within the area, no individual structures are illustrated for the Subject Property on any of the topographic maps. The Subject Property and abutting sites/area is shaded signifying the area to be highly developed. The exceptions are as follows:

1976

Hall of Waters Building is illustrated on the Subject Property. The area to the northwest and southwest are both illustrated with commercial developments. The current automotive facility to the south is illustrated on the topographic map.

1958

Hall of Waters Building is illustrated on the Subject Property. The area to the northwest and southwest are both illustrated with commercial developments. A commercial building is illustrated across Broadway to the north.

City Directories:

No City Directories were developed for the Excelsior Springs area.

Other Historic data:

Historic Building Permits

AOC has contacted the Excelsior Springs Building Department on November 8 and met with representatives on November 9. According to Mr. Larry Murry, the city does not have records for the construction of the building. The city offices moved into the building in the early 1940s and have occupied it since.

Historic Business Licenses

Since the Subject Property is city owned, the city of Excelsior Springs would not have historic business licenses on file.

Historic Zoning

According to Mr. Bill Ahrens, with the Zoning Department, the current zoning for the Subject Property is "Park." Mr. Ahrens could not delineate when this zoning was established. No other data was available.

4.2 Historic Surrounding Land Uses

Aerial Photographs: A review of the aerial photographs provided has always shown the surrounding properties as commercially developed.

Topographic Maps:

All of the historic topographic maps illustrated the surrounding sites as shaded and did not illustrate individual structures. This signifies that the area in question was heavily developed when the topographic map was made or updated.

4.3 Previously-Conducted Environmental Studies

AOC did not receive a prior Phase I for the Subject Property. In January and February 2012, Mr. Browning was involved in a Phase II and an underground fuel oil tank removal at a site across Broadway and along the north side of the city parking lot. The purpose of the Phase II was to assess whether the soil and groundwater in this area was contaminated. Non-reportable levels petroleum contamination was found in the soil with no source present. Eventually, the contractor working in the area discovered an underground storage tank when excavating for a house footing. The tank was reported to the state and removed following Missouri Department of Natural Resources guidelines. Mr. Browning was able to ascertain that the area was not contaminated from this fuel tank. Thus, the Subject Property would not be threatened by this area.

4.4 User Supplied Information

Fulfillment of these user responsibilities is key to qualification for the identified defenses to CERCLA liability. AOC requested the site contact to provide information to satisfy User Responsibilities as identified in Section 6 of the ASTM guidance. Terracon declined to provide AOC with a completed questionnaire and declined to forward the questionnaire to the state. A copy of the questionnaire is included in Appendix A.

Pursuant to ASTM E 1527-05, AOC requested the following site information from Client (User of this report).

Item	Provided By User	Not Provided By User	Discussed Below	Does Not Apply
1. Environmental Pre-Survey Questionnaire		X		
2. Title Records		X		
3. Environmental Liens or Activity and Use Limitation		X		
4. Specialized Knowledge		X		
5. Valuation Reduction for Environmental Issues		X		
6. Identification of Key Site Manager		X		
7. Reason for Performing Phase I ESA		X		
8. Prior Environmental Reports		X		
9. Other		X		

In accordance with ASTM E 1527-05 guidelines, it is the responsibility of our client to provide information for the following conditions:

1. Environmental cleanup liens that are filed or recorded against the site.
2. Activity and land use limitations that are in place on the site or that have been filed or recorded in a registry.
3. Specialized knowledge or experience of the person seeking to qualify for Landowner Liability Protections (such as may relate to recognized environmental conditions on the site).
4. Relationship of the purchase price to the fair market value of the property if it were not contaminated (if applicable).
5. Commonly known or reasonably ascertainable information about the property that could identify environmental concerns at the site.
6. Knowledge and experience related to the Subject Property regarding obvious indicators that point to the presence or likely presence of contamination on the Subject Property.
7. Reason for performing the Phase I ESA.

None of the above was provided by Terracon.

Mr. Larry Murry, Building Official with the city of Excelsior Springs, provided the following information:

- Subject Property was first occupied by the city in the early 1940s
- The building's original source of heat was a boiler fueled by coal
- No ASTs or USTs have been on the Subject Property
- There are four (4) water wells on the Subject Property that are no longer used
- Mr. Murry was not aware of any Use Limitation; engineering controls; and environmental cleanup liens, judgments resulting from environmental conditions, legal actions, or covenant/condition of restriction
- Mr. Murry does not have any reason to believe the value of the property is or was discounted to reflect an existing or past release of hazardous substance or petroleum product.
- Mr. Murry is not aware of any obvious evidence of a release of a hazardous substance or petroleum product at the subject or surrounding properties

A copy of the blank questionnaire is included in Appendix A.

4.4.1 Interview with Owner

The owner's representative, Mr. Murry, was available to be interviewed at the time of the second site visit.

4.4.2 Interview with Report User

The Report User was not available for interviews.

4.4.3 Interview with Key Site Manager

No Key Site Manager was provided to AOC.

4.4.4 Interviews with Past Owners, Operators and Occupants

Since the city has occupied the Subject Property since the early 1940s, an interview with Mr. Murry was deemed acceptable as a past owner.

4.4.5 Interview with Others

As the subject property is not an abandoned property as defined in ASTM 1527-05, interview with others were not performed.

4.4.6 Title Records

Recorded land title records were not reasonably ascertainable within the City's records. AOC was not provided with title records for review as part of this assessment. AOC did not perform an environmental lien search for the subject property.

4.4.7 Environmental Liens or Activity and Use Limitation

No environmental lien or activity and use limitation information was provided by the Client or the User at the time of the assessment.

4.4.8 Specialized Knowledge

No specialized knowledge information was provided by the Client or the User at the time of the assessment.

4.4.9 Commonly Known or Reasonably Ascertainable Information

AOC inquired with the Client regarding any commonly known or *reasonably ascertainable* information within the local community about the subject property that is material to *recognized environmental conditions* in connection with the subject property. The Client declined to complete the pre-survey questionnaire.

4.4.10 Valuation Reduction for Environmental Issues

AOC inquired with the Client regarding any knowledge of reductions in property value due to environmental issues. The Client declined to complete the questionnaire.

4.4.11 Previous Reports and Other Provided Documentation

A prior Phase I was not provided to AOC.

5.0 RECORDS REVIEW

5.1 Regulatory Listed Facilities

EDR provided a summary report of environmental agency database information. AOC reviewed the report to identify listings for the Subject Property and for sites that are located within search radii prescribed in ASTM E 1527-05. Table 1 lists sites that are located within ASTM E 1527-05 search radii. The database report may list sites that are not shown of Table 1, but AOC found that any such sites are actually located beyond ASTM E 1527-05 search radii or are on non-ASTM E 1527-05 databases. AOC reviewed the following ASTM E 1527-05 required databases, and others as listed in the database report (included in Appendix B):

TABLE 1		
ASTM-REQUIRED DATABASES		
DATABASE	SEARCH RADIUS*	LISTINGS
EPA National Priorities List NPL / Proposed NPL / NPL Liens	1 mile	0
EPA Delisted NPL	1 mile	0
EPA Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), including CERCLA No Further Remedial Action Planned (NFRAP) sites	0.5 mile	1
Federal Facility Equivalent CERCLA State Hazardous Waste Sites	1 mile	0
EPA Resource Conservation and Recovery Act (RCRA) Corrective Action Sites (CORRACTS)	1 mile	0
EPA RCRA Treatment/Storage/Disposal (TSD) Facilities	0.5 mile	0
EPA RCRA Waste Generators and Transporters (Large, small, and non-generators)	0.25 mile	2
US Engineering / Institutional Controls	0.50 mile	0
Emergency Release and Notification System (ERNS)	Subject Property	0
State and Tribal equivalent CERCLIS sites	1.0 mile	1
Solid Waste Facilities and Dump Sites	0.5 mile	0
State and Tribal Leaking Underground Storage Tank (LUST) Sites	0.5 mile	5
State and Tribal Leaking Aboveground Storage Tank (LAST) Sites	0.5 mile	0
State and Tribal Underground Storage Tank (UST) Sites	0.25 mile	4
State and Tribal Aboveground Storage Tank (AST) Sites	0.25 mile	0
State and Tribal Voluntary Cleanup Program (VCP) and Brownfield Sites	0.5 mile	2
State Institutional Control/Engineering Control Registries	0.5 mile	0
State and Tribal Brownfields	0.5 mile	0
US Brownfields	0.5 mile	0
Liens	Subject Property	0

TABLE 1 ASTM-REQUIRED DATABASES		
DATABASE	SEARCH RADIUS*	LISTINGS
Spills	Subject Property	1
TRIS, TSCA, FTTS, HIST FTTS, SSTS, ICIS, PADS, MLTS, RADINFO, FINDS, RAATS, UIC, AIRS, TIER2, PCB TRANSFER, FINANCIAL ASSURANCE, COAL ASH DOE	Subject Property	2 FINDS 1 NPDES
Drycleaners	0.25 mile	2
*No adjustments were made to the search radii.		

5.1.1 On-Site Listings:

The regulatory agency databases did not identify the Subject Property as an active, inactive, or closed NPL, CERCLIS, RCRA, or LUST/UST site. The Subject Property is listed as a SPILLS site due to the incorrect disposal/abandoned cans of floor sealant and paint waste that was discovered on October 12, 2006. The city contacted the Kansas City Hazardous Waste collection station to remove the materials.

The Subject Property is also listed in the Voluntary Cleanup Program. According to Mr. Murry, the city is in process of renovating the building and has applied for state funding to assist. Part of this investigation is to ascertain what, if any, environmental concerns exist and address them prior to the renovations.

The city is also listed as having an NPDES Permit No. MO-R040074. The permit was issued in June 2008 and is valid until June 2013. The city of Excelsior Springs is one of approximately 150 regulated Municipal Separate Storm Sewer Systems, or MS4s in the state of Missouri. Approximately 147 regulated MS4s have populations between 1,000 and 100,000 and are regulated under the Master General Permit for Small MS4s (Phase IIs). The general permit for small MS4s requires the development and implementation of a formal, written storm water management program plan or SWMP. The plan must include measurable goals and interim milestones and must be reported to the state annually.

The city is also listed as a FINDS site due to the state's monitoring of aquatic life/streams.

AOC contacted the State of Missouri – Water Protection Program, Ms. Ruth Wallace, to ascertain whether the city is in compliance with its permit. According to Ms. Wallace, the state has not reviewed the city's operations to ascertain whether the city is in compliance or not. As of this writing, there are no violations on file with the state.

5.1.2 Off-Site Listings: The EDR report of regulatory agency databases identified the following facilities within the ASTM specified radii of the Subject property:

- One (1) CERCLIS Site
 - Excelsior Springs FMGP #1 at 320 West Excelsior Street (0.18 mile WNW) is listed as a former manufactured gas plant, a FINDS site, and a CERCLA site. Refer to the discussion under gas plants.
- Two (2) RCRA conditionally exempt small quantity generators
 - Southside Machine Shop at 204 North Main (<0.1 mile NW) is listed as a RCRA conditionally exempt small quantity generator and waste oil generator. This facility has no violations related to a spill or release.
 - United Auto Service & Marine at 402 South Street (0.187 miles WSW) is listed as a RCRA conditionally exempt small quantity generator. This facility is not listed with violations pertaining to a release or spill.
- One (1) state hazardous waste site
 - Excelsior Springs FMGP #1 at 320 West Excelsior Street (0.18 mile WNW) is listed as a former manufactured gas plant. Surface and subsurface soil was contaminated with coal tar residuals. VOCs and carcinogenic PAHs were present in soil at concentrations exceeding health-based screening levels. One sample contained leachable benzene that exceeded the Toxicity Characteristic Leaching Procedure (TCLP) regulatory limit of 0.5 parts per million making this sample characteristic hazardous waste based on toxicity. PAHs also were detected in sediment of the Dry Fork of Fishing River; however, hazardous substances were not detected in the surface water. Groundwater contamination including BTEX compounds, PAHs, and one or more RCRA heavy metal remains on-site and will be monitored annually. Institutional controls have been put in place to minimize the present and future potential for exposure to contaminated groundwater. Ameren UE was determined to be the responsible party but the state. Under the oversight of the state and EPA, Ameren UE removed approximately 1,900 tons of soil and source material from the site in 2006. The area in question was restored. Some contamination was left in place due to its location. The state has imposed restrictive covenants

and institutional controls to address the remaining contamination.

- Five (5) LUST sites were identified within 0.5 miles of the Subject Property:
 - Excelsior Springs CO at 216 West Broadway (0.1 mile west) is listed as a LUST site. According to the EDR report, the cleanup began and was completed in 1994, although the date a No Further Action Letter was issued is not identified. The LUST site is listed as closed.
 - Excelsior Springs Service Center at 405 Marietta (0.146 miles NW) is listed as a UST and LUST site. The LUST cleanup reportedly started and was completed in 1997. This LUST is considered closed though a no further action letter date is not listed.
 - Wilson Tire & Alignment Center at 401 St Louis Avenue is listed as a LUST and UST facility. Remediation of this site began in 1999 and is still in process. All four (4) USTs have been removed.
 - Former 7-Eleven at 500 St Louis Avenue (0.342 miles SW) is listed as a LUST and UST site. According to the EDR report, cleanup began in 1990 and was completed in 1994. All five (5) USTs were removed.
 - Pour Boy #5 at 510 St Louis Avenue (0.365 miles SW) is listed as a LUST and UST site. This site is listed as requiring no further action as of August 20, 2012. Four (4) USTs were removed as part of the remediation. This facility is still in operation with replacement USTs.
- Four (4) UST sites were identified within 0.25 miles of the Subject Property.
 - Clay Ray Plastics at 202 North Main has five (5) unknown size USTs that are listed as permanently closed in place. The contents of the USTs was not reported.
 - Excelsior Springs CO at 216 West Broadway (0.1 mile west) is listed as a UST site. This facility has a diesel fiberglass UST which was installed in 2006 and is not listed as leaking.
 - Robert Hedges Properties Inc at 308 North Main (0.133 miles NNW) is listed as a UST site. All three USTs are identified as closed in place and none are listed as leaking.

- Excelsior Springs Service Center at 405 Marietta (0.146 miles NW) is listed as a UST site. Both USTs are listed as removed.
- One (1) additional Voluntary Cleanup Program site
 - The Lewis Elementary School at 501 Leavenworth Street is listed as a voluntary cleanup program site. An unregistered 1,000-gallon heating oil tank was discovered, its contents removed, and the UST closed in place. Soil contamination was discovered in the area of the UST. No further data was available.
- Two (2) dry cleaner sites:
 - Excelsior Econ-O-Wash at 118 West Broadway (west approximately 300 feet) is listed as an abandoned dry cleaning facility. No data was available via the EDR data base.
 - Bond Cleaners at 314 West Broadway (0.15 mile west) is listed as an abandoned dry cleaning facility. No other data is provided.
- One (1) manufactured gas plant
 - Excelsior Springs FMGP #1 at 320 West Excelsior Street (0.18 mile WNW) is listed as a former manufactured gas plant. Surface and subsurface soil was contaminated with coal tar residuals. VOCs and carcinogenic PAHs were present in soil at concentrations exceeding health-based screening levels. One sample contained leachable benzene that exceeded the Toxicity Characteristic Leaching Procedure (TCLP) regulatory limit of 0.5 parts per million making this sample characteristic hazardous waste based on toxicity. PAHs also were detected in sediment of the Dry Fork of Fishing River; however, hazardous substances were not detected in the surface water. Groundwater contamination including BTEX compounds, PAHs, and one or more RCRA heavy metal remains on-site and will be monitored annually. Institutional controls have been put in place to minimize the present and future potential for exposure to contaminated groundwater.

No other concerns were noted. Of the aforementioned sites, the two abandoned dry cleaning sites appear to be in close enough proximity to the Subject Property to warrant concern. A copy of the EDR report is included in Appendix B.

5.2 Local Agency Interviews

AOC contacted the following local agencies for information regarding any hazardous materials response incidents, chemical emergencies, or notices of environmental violations at the Subject Property or vicinity.

- City of Excelsior Springs Fire Department
- City of Excelsior Springs Community Development - Zoning Department
- City of Excelsior Springs Community Development – Building Department
- Clay County Health Department

The Excelsior Springs Fire Department, Chef Kent Cantrell, indicated that the Fire Department has no records on file that would indicate the presence of above or underground fuel or oil tanks, nor has there been a Hazardous Materials spill/release at the location.

AOC interviewed Mr. Larry Murry on November 8 and 9, 2012. Mr. Murry, who has been with the city for 13 years, indicated he was not aware of any ASTs, USTs, spills/releases, or other environmental concerns associated with the building other than possible lead-based paint and asbestos. Mr. Murry indicated the original heating source for the building was coal, which was switched to natural gas in the 1950s.

The Clay County Health Department does not respond to spills or releases and were not contacted. AOC attempted to interview Mr. Bill Ahrens of the Excelsior Springs Planning Department. Mr. Ahrens declined the interview and referred AOC to Mr. Murry.

5.3 EPA EnviroFacts Web Site

The six tables available in this section are:

- Database Information
- Permitted Discharge to Water
- Toxic Releases Reported
- Hazardous Waste Handler
- Active or Archived Superfund Report
- Air Release Reported

AOC searched for the Subject property, which is not listed on the Envirofacts website. A copy of the search results is included in Appendix B.

6.0 SITE AND AREA RECONNAISSANCE

On October 30 and November 9, 2012, Mr. William R. Browning of AOC visited the Subject Property to conduct a site reconnaissance and to conduct interviews with knowledgeable site personnel. During the initial site visit, the site contact did not show at the Subject Property at the appointed time. Due to a lack of data, AOC performed a second visit to interview applicable knowledgeable individuals.

During the site visit AOC observed surface conditions, conducted interviews when appropriate, and identified and observed land use and conditions on the Subject Property and adjoining properties. The objective of the site reconnaissance was to obtain information indicating the likelihood of recognized environmental conditions in connection with the Subject Property.

6.1. Reconnaissance Methodology

Between both visits, AOC had access to most of the interior of the building, excluding areas where meetings were in process. AOC also had access to all exterior areas, excluding the roofs which were not deemed necessary for a Phase I. AOC assessed the surface conditions at the site by walking the perimeter of the building, walking the parking lot, and traversing the undeveloped areas of the property where not overgrown.

Surface conditions of interest include the presence of anomalies in surface elevations, standing water, evidence of subsurface equipment, discoloring of surfacing materials, distressed vegetation, and/or areas possibly affected by operations on adjacent properties. AOC was able to interview one of the city's representatives (Mr. Larry Murry – Building Official) regarding the property operations.

6.2 Interviews

As required by ASTM E 1527-05, AOC interviewed or attempted to interview one of the property owners and the site property manager, to learn if they know of:

- 1) Any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the Subject Property,
- 2) Any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on or from the Subject Property, and
- 3) Any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products.

AOC was able to interview a representative of the city on November 8 and 9, 2012. As mentioned, no key site manager was provided and a completed questionnaire was not returned..

6.3 ASTM Scope Considerations

6.3.1 Site Uses and Operations

The Subject Property is located at 201 East Broadway in Excelsior Springs, Clay County, Missouri and consists of one (1) two-story office building, with two below grade levels and a bomb shelter. According to records, the Subject Property began construction in 1935. The Clay County Assessor's office could not verify this data. According to the city, the zoning for the Subject property is "Park."

In total, the Subject Property building has a gross/rentable area of approximately 50,500 SF and sits on a tract of land that is approximately 14.28 acres in size. According to the Clay County Assessor's office, the building is owned by the city of Excelsior Springs, Missouri.

At the time of the inspection, the Subject Property was being as office space, with a considerable amount of unused space. No other uses were noted at the time of the inspection.

6.3.2 Underground Storage Tanks (USTs)

Based upon our site visit and review of available regulatory database information, no underground storage tanks (USTs) were observed on the exterior of the Subject Property. The tenant's representative, Mr. Murry, indicated he was not aware of any USTs on the Subject Property.

No ruins of former UST structures or similar were noted on the Subject Property that could suggest the former usage of the Subject Property as a UST facility or as having USTs. AOC also did not identify signage or equipment that could indicate former operations at the site that are different from those currently conducted.

6.3.3 Aboveground Storage Tanks (ASTs)

Based upon our site visit and review of available regulatory database information, no aboveground storage tanks (ASTs) were observed at the Subject Property. The tenant's representative indicated that he was not aware of any ASTs on the Subject Property.

6.3.4 Polychlorinated Biphenyls (PCBs)

Based our site reconnaissance, there is one (1) pole-mounted, utility-owned transformer located on the east side of the Subject Property. The transformer is not labeled as "non-PCB." At the time of the inspection, the transformer was not leaking.

6.3.5 Hydraulic Equipment

AOC did not observe lifts associated with docks that would likely contain hydraulic fluids. The building does have one hydraulic elevator. Hydraulic fluid containing polychlorinated biphenyls (PCB) was mostly used in high-temperature applications such as die-casting machines. There is a small possibility that hydraulic fluids for elevators or automotive lifts may be contaminated by PCBs, if the fluids haven't been completely

flushed and replaced since about 1984, and there is no manufacturer-applied label that states that the fluids are PCB-free. AOC would recommend treating the fluids as PCB-containing until flushed or otherwise advised.

6.3.6 Chemicals, Hazardous Materials, and Raw Material Storage

AOC did not observe any chemicals of concern on the day of the inspection. Other than retail cleaning materials, various paints, and ice melt granules, no other chemicals were noted. None of the above items is considered hazardous.

AOC did observe several 55-gallon drums within the building. At the time of the inspection the drums were being used for solid waste and not to store chemicals. No other hazardous materials, drums, or other similar were noted as stored across the exterior of the Subject Property.

6.3.7 Waste Generation, Storage, and Disposal

Located along the north side of the building is a one cubic yard dumpster. On the day of the inspection AOC noted no suspicious waste in or around the dumpster. No waste tires or chemicals were noted.

Within the building AOC observed several waste collection and recycling areas for cardboard. No concerns were noted. No on-site disposal was noted or reported.

6.3.8 Wells, Sumps, Pits, and Floor Drains

According to Mr. Murry, the Subject Property has four water wells, none of which have been used in a long time and none of which are used for landscape irrigation. AOC did not observe any indications of oil or gas wells, or oil/gas production equipment on the Subject Property or near its boundaries.

AOC reviewed the USGS topographic maps to identify oil or gas wells located near or on the Subject Property. According to the maps, no oil or gas wells were drilled on the Subject Property.

Within the lower levels of the building, AOC noted several sumps associated with the current and former boilers. Various floor drains were noted inside the building. All of the drains were corroded which is estimated to be the result of age versus dumping. No sheens or odors were noted associated with the sumps.

6.3.9 Storm Water Runoff and Surface Water

As mentioned, the site has a moderate to steep slope towards the creek. The area on the north side of the creek slopes moderately toward the creek. The area south of the creek has a steep slope towards the creek. Approximately 20 percent of the entire Subject Property is developed or covered by either the building or paved areas. The remainder of the Subject Property consists of grassy or wooded areas. Given the large amount of grassy area that exists, a considerable amount of precipitation would stay on or percolate into the Subject Property.

Runoff from the paved area along the west side of the building is channeled to curb inlets around the perimeter of the lot. Runoff from the eastern lot is channeled to one grate inlet or to the abutting grassy area. Runoff from the roofs is conveyed through the building to the municipal system.

Based on the observed surface conditions, it appears that the Subject Property could receive significant surface water runoff from adjoining properties to the north and south. Little runoff would be anticipated from the abutting areas to the east and west.

6.3.10 Lagoons, Septic Systems, and Separators

AOC did not observe any indications of lagoons on or abutting the Subject Property. AOC did not observe any indications of equipment that would use separators (e.g., oil-water separators) on the Subject Property or near its boundaries.

6.3.11 Stressed Vegetation, Staining, and Odors

At the time of the inspection the grassy areas surrounding the building were noted in good condition. Many of the trees and shrubs were noted as dormant. AOC did not observe any stressed vegetation, soil staining, or odors across the Subject Property. Oil staining was noted in isolated paved areas due to vehicular parking. This is not considered an environmental concern.

6.3.12 Surficial Disturbances

AOC did not observe indications of recent grading or pile(s) of debris on the Subject Property.

6.3.13 On-Property Dry Cleaners

AOC did not observe any indications of active dry cleaning operations on the Subject Property or near its boundaries. According to the EDR database, there are two abandoned dry cleaners within 0.25 miles of the Subject Property. The Subject Property was not listed as a dry cleaning facility.

6.3.14 Drums and Other Containers of Petroleum Products

No drums were noted other than those used for solid waste.

6.3.15 Wastewater Discharge

The only evidence of wastewater originating at the Subject Property is sanitary sewage that flows into the city municipal system. The building was noted with sewer clean-out ports protruding along the exterior of the building. There was no evidence of wastewater discharges to the grounds of the Subject Property.

6.4 Non-ASTM Scope Considerations

6.4.1 Radon

Radon is a colorless, odorless, naturally occurring, radioactive, inert, gaseous element formed by radioactive decay of radium atoms. The US EPA has prepared a map to assist National, State, and local organizations to target their resources and to implement radon-

resistant building codes. The map divides the country into three Radon Zones; Zone 1 being those areas with the average predicted indoor radon concentration in residential dwellings exceeding the US EPA Action Limit of 4.0 PicoCuries per Liter (pCi/L).

Radon sampling was not conducted as part of this assessment. A review of the US EPA Map of Radon Zones places the Subject Property in Zone 1, where average predicted radon levels exceed 4.0 pCi/L. The building is constructed with two below grade areas. As such, AOC does recommend testing if these areas are to be used for extended periods.

6.4.2 Lead-based Paint

Given the age of the development (pre-1979), there is a moderate to high probability that lead-based paint (LBP) could be present on some of the painted finishes. See below for a summary of the positive findings.

AOC has determined there is LBP at the property . The following components contain LBP in amounts equal to or exceeding 1.0 mg/cm² on the surfaces tested.

Sam- ple #	Room Location	Floor/ Location	Side*	Component	Color	Substrate	Poor Intact	Pass Fail	Reading
	11/1/12 RESULTS								
4	108	Hallway	D	Wall	Orange	Plaster	Intact	Positive	1.00
11	121	First Floor	A	Wall	Brown	Plaster		Positive	1.00
15	129	First Floor	B	Wall	Brown	Tile	Intact	Positive	1.00
17	Exterior	level GM	B	Wrought Iron	Black	Metal	Intact	Positive	1.19
18	Exterior	level GM	B	Window	Green	Metal	Intact	Positive	5.00
19	215	Second Fl	D	Wall	Brown	Plaster	Intact	Positive	1.00
21	9	Stair 209	D	Stair Riser	Green	Metal	Intact	Positive	5.00
22	P02	Penthouse	B	Hatch Door	Green	Wood	Intact	Positive	5.00
23	P02	Penthouse	C	Door Jamb	Green	Wood	Intact	Positive	5.00
24	P02	Penthouse	C	Door Trim	Green	Wood	Intact	Positive	5.00
	11/9/12 RESULTS								
10	G23	Ground	B	Window sash	Beige	Metal	Poor	Positive	2.74
11	G30	Ground	B	Vent	Green	Metal	Poor	Positive	1.00
18	Exterior		A	Door Décor	Black	Metal	Intact	Positive	5.00
19	Exterior		A	Door Décor	Blue	Metal	Intact	Positive	5.00
20	Exterior		A	Wrought iron	Yellow	Metal	Intact	Positive	2.93
24	Exterior		C	Door frame	Blue	Metal	Intact	Positive	4.13
25	Exterior		C	Door header	Blue	Metal	Intact	Positive	5.00
26	Exterior		C	Wall	Blue	Cer.Tile	Intact	Positive	1.00
27	Exterior		B	Door	Brown	Wood	Poor	Positive	5.00
28	Exterior		B	Door jamb	Brown	Wood	Poor	Positive	5.00
29	Exterior		B	Door	Brown	Wood	Poor	Positive	5.00
31	Exterior		A	Window frame	Blue	Metal	Intact	Positive	5.00
32	Exterior		A	Window header	Blue	Metal	Intact	Positive	4.77
33	Dock		D	Wall	White	Concrete	Poor	Positive	1.00
34	Dock		D	Window	White	Metal	Poor	Positive	5.00
40	Dock		D	Signage	Yellow	Concrete	Poor	Positive	4.47
41	Dock		D	Signage	Black	Concrete	Poor	Positive	2.72

*For the purpose of this LBP report the front of the building is Side A (West); going clockwise, Side B (North), Side C (East), Side D (South).

6.4.3 Lead in Drinking Water

The Subject Property is provided with domestic water by the city. The city was required to perform system-wide lead screening of their water system starting in 1992, under the USEPA "Lead and Copper Regulations" (Federal Register Volume 56, No. 26460). These regulations, promulgated in June 1991, require public water systems to perform screening and provide for public notification and corrective action to reduce the lead hazards present in the water system. According to the 2009 Water Quality Report (most recent available), the city is in compliance with EPA criteria including lead and copper. AOC does not recommend testing.

6.4.4 Potential Wetlands

Wetlands are defined as areas that have a predominance of hydric soils, and are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support a prevalence of hydrophilic vegetation typically adapted for life in saturated soil conditions. AOC reviewed the National Wetlands Inventory map for the Subject Property, which was prepared by the US Fish and Wildlife Service for the Subject Property. The National Wetland Inventory map does indicate that the creek running through the Subject Property is a wetland. A copy of the map is included in Appendix A.

6.4.5 Air Emissions

The only emissions noted would be from the boiler, water heaters, and the direct vented furnaces. AOC noted no other or unusual source of air emissions on the subject property.

6.4.6 Asbestos

Given the age of the finishes, there is a moderate to high probability some of the materials contain asbestos. See below for a summary of the positive findings. Refer to Appendix D for the full report.

The following ACBM components tested positive for asbestos:

Sample No.	Location	Component	Color	Chrysotile %
07-01	Vault Room 214	Floor Tile	Black	6.0
08-01	Various	Thermal Systems Insulation (TSI)	Gray	75.0

6.5 Current Uses and Conditions Observed on Adjoining Properties

AOC observed the current uses and conditions of the adjoining properties to identify potential recognized environmental conditions in association with the Subject Property.

The area reconnaissance was conducted by viewing from the Subject Property and public right-of-ways. The following paragraphs describe the current uses and conditions on the adjoining properties, based on our observations. See Figure 2 for a map of the observed land use on the adjoining properties.

North of 201 East Broadway: Across East Broadway is a city owned parking lot. Along the south side of East Broadway and east of the front lawn area is (from west to east); a vacant space in an old building, Ray's Diner (in business since 1932), two vacant spaces, and a barber shop. On the south side of East Broadway and west of the front lawn consists of (east to west): three vacant spaces (one of which was formerly the Olde English Gardens Shop) and a museum (formerly a bank).

The north side of Broadway consists of various retail and office spaces including (east to west): the city owned parking lot, a law office, cupcake bakery, cabinet shop, and a fix-it shop.

West of 201 East Broadway: Along Main are (north to south): the Gallery Off Broadway, Paradise Playhouse, and the police station.

South and southwest of 201 East Broadway: Two commercial buildings housing Don Loveland's Doors, Darkside Tinting, and an auto repair facility, followed by Highway 10. South of Highway 10 are residences.

East of 201 East Broadway: Immediately abutting the east side of the Subject Property is commercial building with no information available, followed by Deer Road, then a residential area.

Refer to Figure 2 for a map of the observed land use on the adjoining properties.

7.0 SUMMARY OF FINDINGS

The Subject Property is located at 201 East Broadway in Excelsior Springs, Clay County, Missouri (see Figure 1) and consists of a single, two-story building constructed in 1935 (start of construction). The building has two below grade levels, one with offices and the other housing the old boilers and storage.

According to the plaques located in the building (historic building), the building construction began in 1935 and was completed in 1939 under Public Works Project No. 5252. The Parcel No. for the Subject Property is 12-311-00-23-021.00. According to the current owner, the subject property building has a gross area of 50,500 square feet (SF). The Clay County Assessor's office could not verify the square footage of the building. According to the city Planning Department, the zoning designation for the Subject Property is "Park."

The Subject Property building is constructed with two floors above grade and two floors below grade. Overall, the building has a reinforced concrete frame with stone/granite exterior walls and a reinforced concrete foundation. Under the grassy area in front of the building (referred to herein as the lawn) is a designated bomb shelter with is also constructed or reinforced concrete framing and walls. At the time of the inspection, the building was occupied by the city offices of Excelsior Springs, along with a tourist information area. Parking is available on the west side of the building and along the east side of the building.

Most of the Subject Property is undeveloped land or used as a park/ball field. A creek runs along the southern portion of the Subject Property. The southern embankment is steep and heavily overgrown with native trees and shrubs.

The interior of the building is finished with plaster and sheetrock walls; 2'x2' and 2'x4' ceiling panels suspended from an aluminum frame, sheetrock, and plaster ceilings; and either low-pile carpet, vinyl tile, or terrazzo flooring. Portions of the two below grade areas are unfinished with exposed concrete floors, walls, and ceilings. Under the tourist museum/information center is the former "hot springs" pool, which is no longer in use.

The building is heated by one natural gas fired boiler. Cooling is accomplished by exterior condensers and window units. Heated water is supplied by natural gas fired water heaters.

Based on the observed surface conditions, it appears that the Subject Property could receive significant surface water runoff from adjoining properties to the south. Little runoff would be anticipated from the abutting areas to the north, east, and west.

The creek (East Fort Fishing River) that runs through the Subject Property is classified as a wetland.

Based on groundwater investigations on the Subject Property and others performed in the immediate area, depth to groundwater is estimated to vary depending on the location. Groundwater was encountered along the north side of East Broadway in early 2012 at a depth of 16 to 18 feet below ground surface. Groundwater flow is inferred to the south, southwest following the river.

A review of the Flood Insurance Rate Maps, published by the Federal Emergency Management Agency, indicates the Subject Property is located in a Flood Zone with established depths. The area along the creek that runs through the Subject property is designated as a Flood Zone with established depths.

According to the available aerial photographs, the Subject Property was developed prior to the earliest available aerial photograph, which was taken in 1947. In the 1947 aerial, the building appears constructed but the pool is open or not enclosed. The western parking lot is developed with a building in 1947. The parking lot did not appear until the 1996 aerial. The pool enclosure is first clearly visible in the 1975 aerial.

From 1894 to 1926, the current building was not present in the Sanborn maps. Portions of the northern and western boundaries were developed with commercial developments, none of which were identified as an environmental concern. Historically, most of the land area has not been developed and has been used as a park and playground area.

Mr. Larry Murry, Building Official with the city of Excelsior Springs, provided the following information:

- Subject Property was first occupied by the city in the early 1940s
- The building's original source of heat was a boiler fueled by coal
- No ASTs or USTs have been on the Subject Property
- There are four (4) water wells on the Subject Property that are no longer used
- Mr. Murry was not aware of any Use Limitation; engineering controls; and environmental cleanup liens, judgments resulting from environmental conditions, legal actions, or covenant/condition of restriction
- Mr. Murry does not have any reason to believe the value of the property is or was discounted to reflect an existing or past release of hazardous substance or petroleum product.

Mr. Murry is not aware of any obvious evidence of a release of a hazardous substance or petroleum product at the subject or surrounding properties

The regulatory agency databases did not identify the Subject Property as an active, inactive, or closed NPL, CERCLIS, RCRA, or LUST/UST site. The Subject Property is listed as a SPILLS site due to the incorrect disposal/abandoned cans of floor sealant and paint waste that was discovered on October 12, 2006. The city contacted the Kansas City Hazardous Waste collection station to remove the materials.

The Subject Property is also listed in the Voluntary Cleanup Program. According to Mr. Murry, the city is in process of renovating the building and has applied for state funding to assist. Part of this investigation is to ascertain what, if any, environmental concerns exist and address them prior to the renovations. Mr. Brian McCurren with MDNR stated "This site is not a VCP. It was mistakenly listed as a VCP site in our database".

The city is also listed as having an NPDES Permit No. MO-R040074. The permit was issued in June 2008 and is valid until June 2013. The city of Excelsior Springs is one of approximately 150 regulated Municipal Separate Storm Sewer Systems, or MS4s in the State of Missouri.

The city is also listed as a FINDS site due to the state's monitoring of aquatic life/streams.

AOC contacted the State of Missouri – Water Protection Program to ascertain whether the city is in compliance with its permit. As of this writing AOC has not received a response from the state.

Two off-site abandoned dry cleaning sites appear to be in close enough proximity to the Subject Property to warrant concern.

Based upon our site visit and review of available regulatory database information, no underground storage tanks (USTs) or above ground storage tanks (ASTs) were observed on the exterior of the Subject Property. The tenant's representative, Mr. Murry, indicated he was not aware of any USTs or ASTs on the Subject Property.

Based our site reconnaissance, there is one (1) pole-mounted, utility-owned transformer located on the east side of the Subject Property. The transformer is not labeled as "non-PCB." There is a small possibility that hydraulic fluids for elevators or automotive lifts may be contaminated by PCBs, if the fluids haven't been completely flushed and replaced since about 1984, and there is no manufacturer-applied label that states that the fluids are PCB-free.

AOC did not observe any chemicals of concern on the day of the inspection. Other than retail cleaning materials, various paints, and ice melt granules, no other chemicals were noted.

According to Mr. Murry, the Subject Property has four water wells, none of which have been used in a long time and none of which are used for landscape irrigation. AOC did not observe any indications of oil or gas wells, or oil/gas production equipment on the Subject Property or near its boundaries.

No drums were noted other than those used for solid waste.

A review of the US EPA Map of Radon Zones places the Subject Property in Zone 1, where average predicted radon levels exceed 4.0 pCi/L. The building is constructed with two below grade areas. As such, AOC does recommend testing if these areas are to be used for extended periods.

See Lead Based Paint Report – Appendix C

See Asbestos Report – Appendix D

8.0 OPINION OF POTENTIAL FOR ENVIRONMENTAL IMPACT

This assessment has not revealed documented soil or groundwater contamination associated with the Subject Property. A file review should be conducted of the two former dry cleaning sites to verify this.

9.0 CONCLUSIONS

We have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527-05 of Hall of Waters Building located at 201 East Broadway in Excelsior Springs, Missouri. Any exceptions to, or deletions from, this practice are described in Section 1.4 of this report. This assessment has revealed the following RECs associated with the Subject Property:

Transformers may contain PCBs

Elevator fluids may contain PCBs

Existence of former dry cleaning sites should be further investigated via file review

No other RECs were identified concerning the abutting sites.

10.0 SIGNATURE PAGE

We the undersigned declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in Section 312.10 of 40 CFR Part 312, and we have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Subject Property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Sincerely,

American Osage Consulting, Inc.

William R. Browning

William R. Browning REA, REPA



Patsy Stuke, President

11.0 REFERENCES

Sanborn fire insurance maps were provided by EDR for the years 1894, 1900, 1905, 1909, 1913, 1926, and 1942.

Aerial photographs were provided by EDR for the years: 1947, 1970, 1975, 1996, 2005, 2006, and 2007.

Aerial photographs for 1970 and 2007 were available for review at www.historicaerials.com.

USGS topographic quadrangle maps, entitled Excelsior Springs, Missouri, were available at www.historicaerials.com for the years: 1894, 1901, 1910, 1921, 1941, 1958, 1976, and 1997.

City Directories for Excelsior Springs were not made.

USGS topographic quadrangle maps, were reviewed at www.historicaerials.com for the years: 1894, 1901, 1910, 1921, 1941, 1958, 1976, and 1997.

American Society of Testing and Materials (ASTM) Standard Practice Designation E 1527-05.

USDA, *Clay County Soil Survey*

Hydric soil information presented at the <http://soils.usda.gov/use/hydric/lists/state.html> website.

United States Fish and Wildlife Services, National Wetland Inventory Map, www.fws.com.

Federal Emergency Management Agency, Flood Insurance Rate Maps, <http://msc.fema.gov>.

City of Excelsior Springs Fire Department.

City of Excelsior Springs Zoning Department

City of Excelsior Springs Building Department

Annual Water Quality Report for 2010.

Mr. Larry Murry – Building Official

FIGURES

FIGURE 1 – SITE LOCATION MAP

FIGURE 2 - SITE PLAN

FIGURE 3- SITE PHOTOGRAPHS

Parcel Map



Cathy Rinehart
Assessor

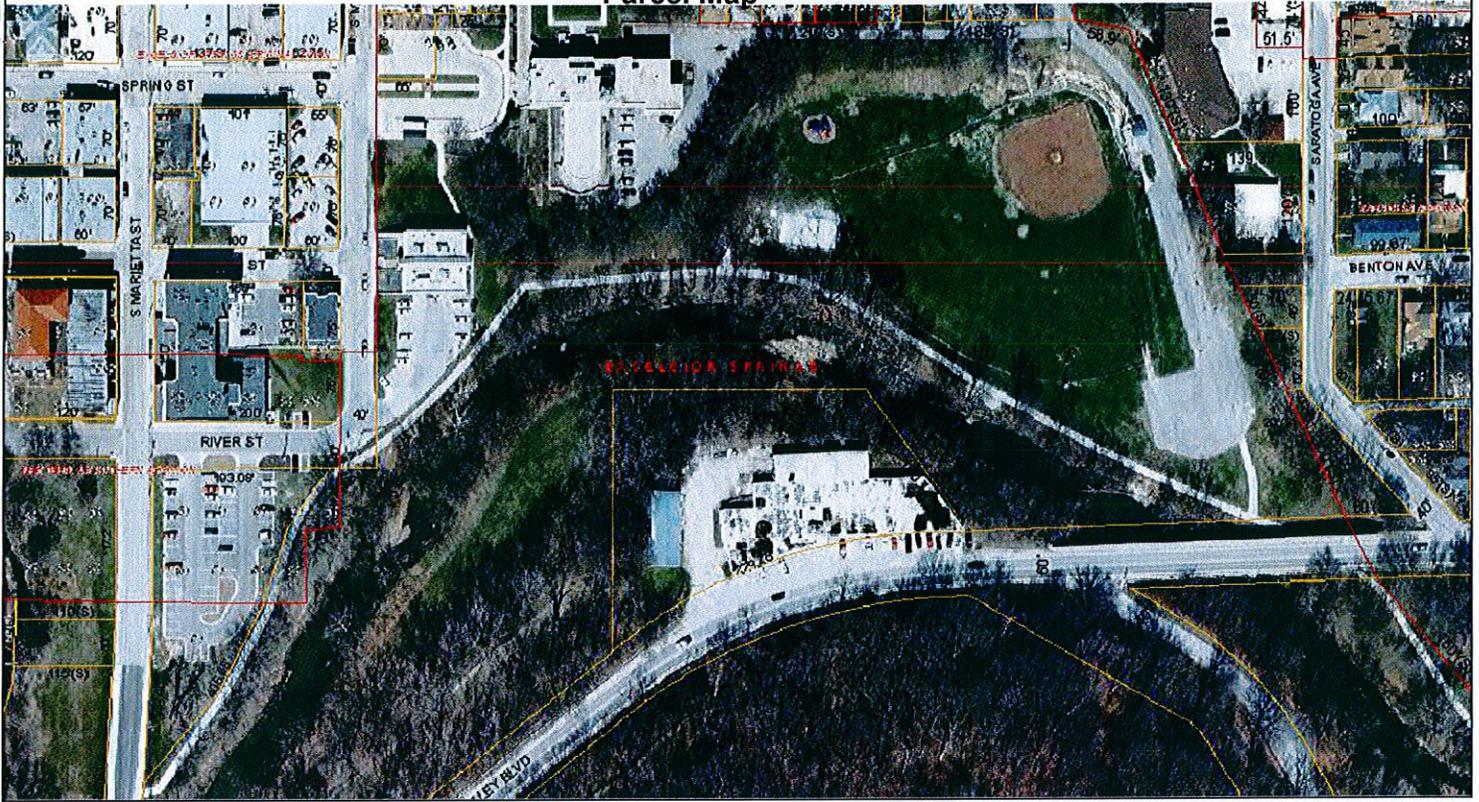
Clay County Assessor, GIS/Mapping

Map created by GIS/Mapping, Clay County Assessor

Printed: Nov 07, 2012



Parcel Map



Clay County Assessor, GIS/Mapping

Map created by GIS/Mapping, Clay County Assessor

Printed: Nov 07, 2012





GIS
Clay County Assessor



Current Tool Pan Map
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Search

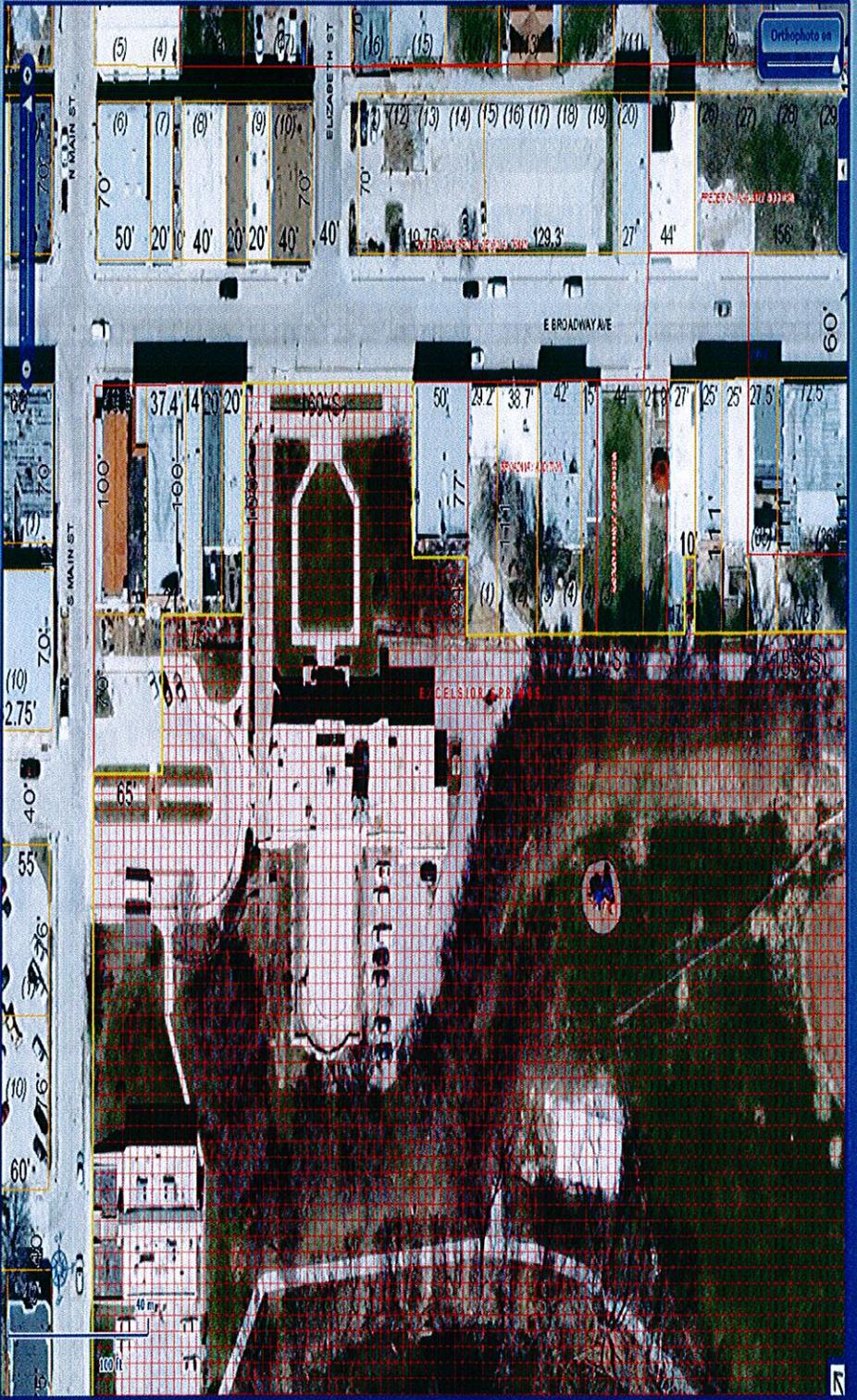
Search by Parcel layer.

Search Parcel by Parcel ID [Example: 15118000200900]
or Property Address [Example: 234 W Shrader]

Total Results:

Layer Visibility

Legend



234 W Shrader St., Suite D Liberty, MO 64068 Phone:(816) 407-3370 Fax:(816) 407-3371



Photograph Number 1: Front elevation



Photograph Number 2: Area to north from front lawn



Photograph Number 3: Area to north from front lawn



Photograph Number 4: Area to north from front lawn



Photograph Number 5: Area to east from NE corner of front lawn



Photograph Number 6: Area to east from NE corner of front lawn



Photograph Number 7: Area to north from NW corner of front lawn



Photograph Number 8: Area to north from NW corner of front lawn



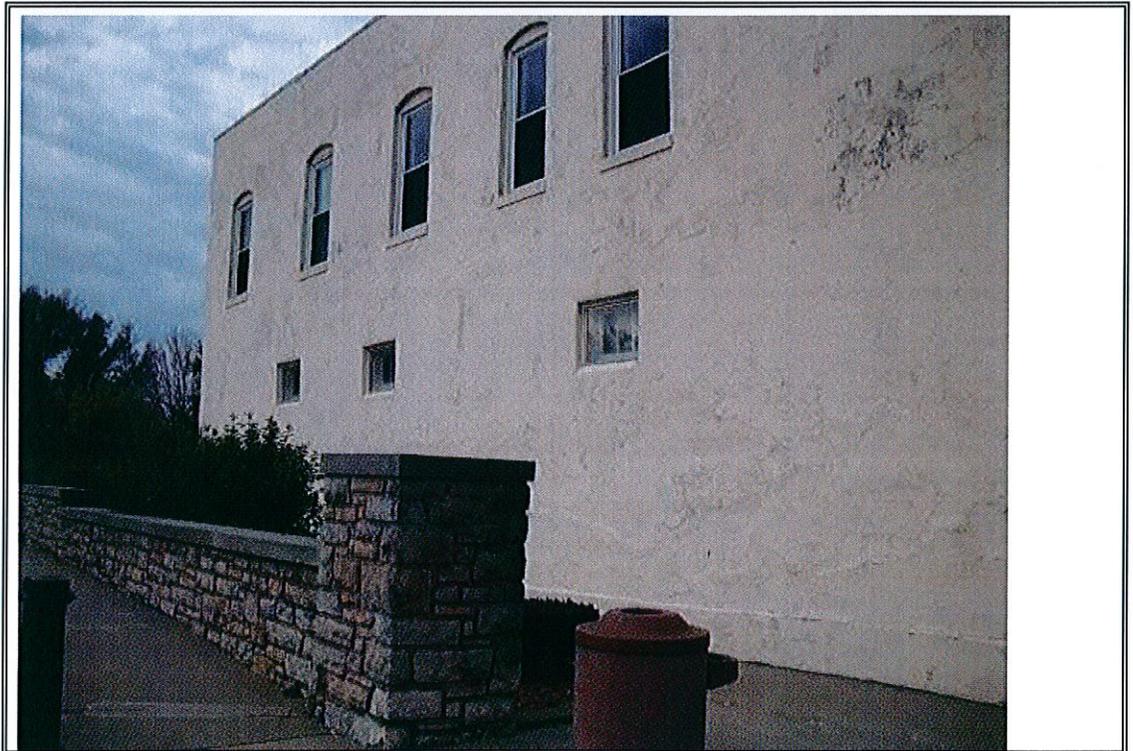
Photograph Number 9: Area to north from NW corner of front lawn



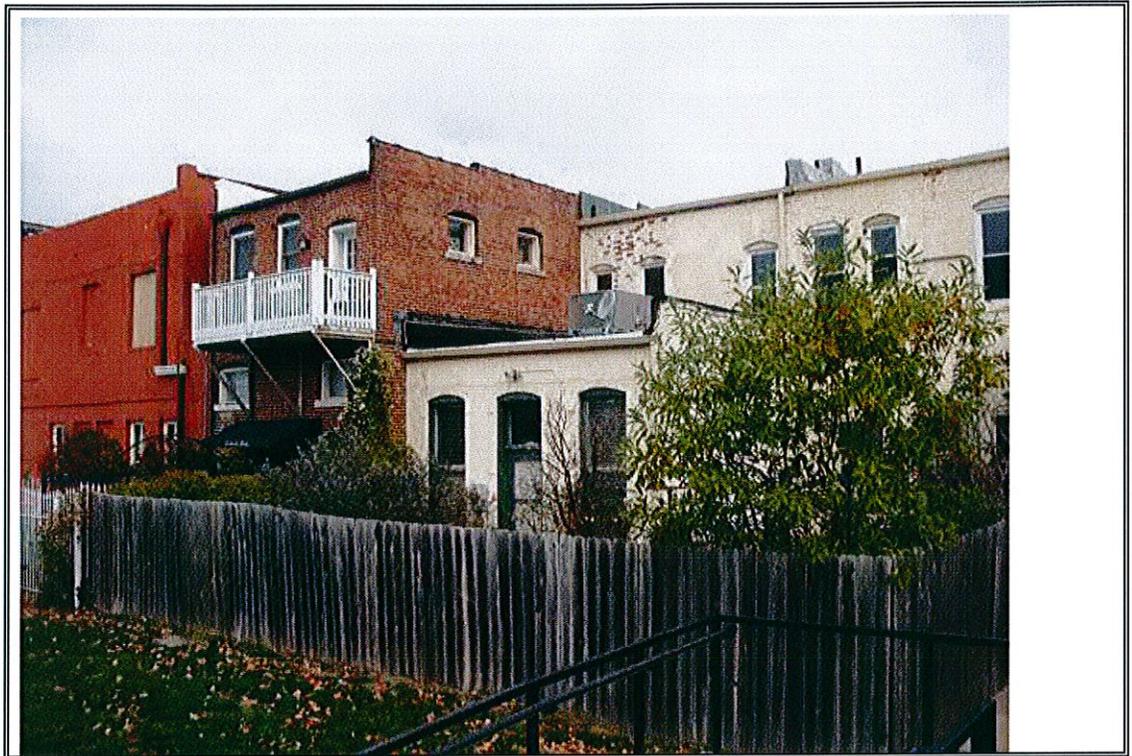
Photograph Number 10: Area to west



Photograph Number 11: Area to west from NW corner of front lawn



Photograph Number 12: Area to west from NW corner of front lawn



Photograph Number 13: Area to west from NE corner of parking lot



Photograph Number 14: Area to west from near the NE corner of parking lot / parking lot



Photograph Number 15: Area to west from NW corner of parking lot



Photograph Number 16: Area to west from NW corner of parking lot



Photograph Number 17: Area to west from NW corner of parking lot



Photograph Number 18: Police station to west



Photograph Number 19: Area to south



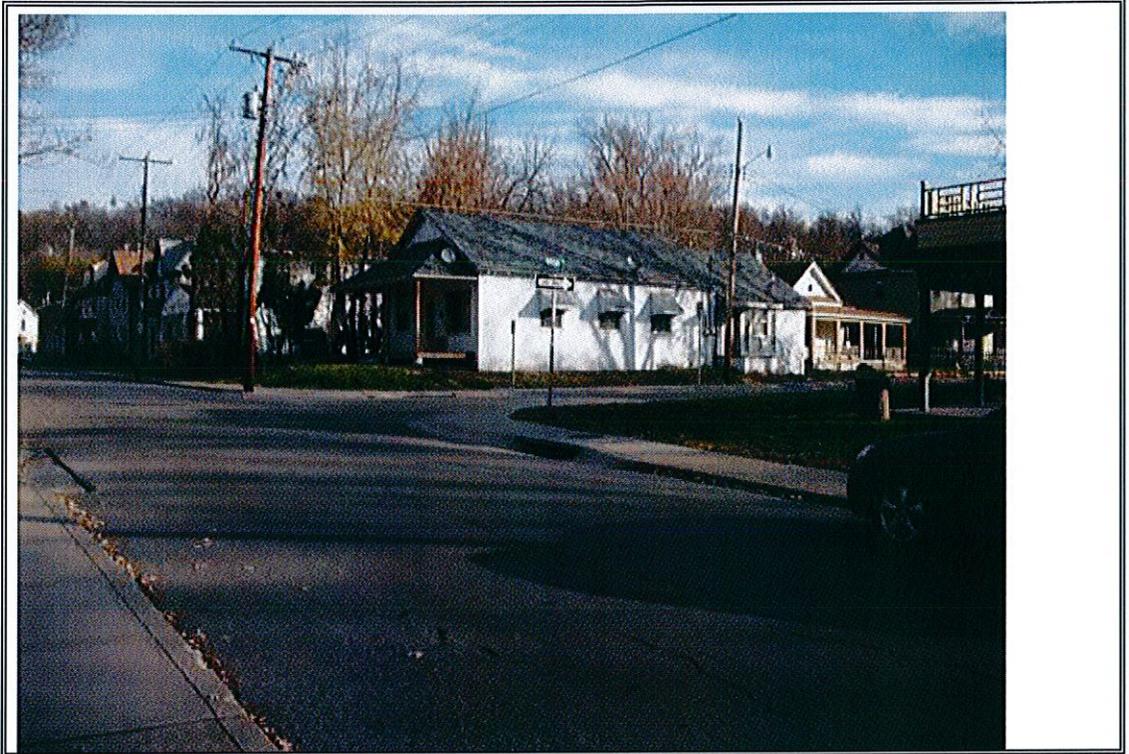
Photograph Number 20: Area to south



Photograph Number 21: Residential area to east



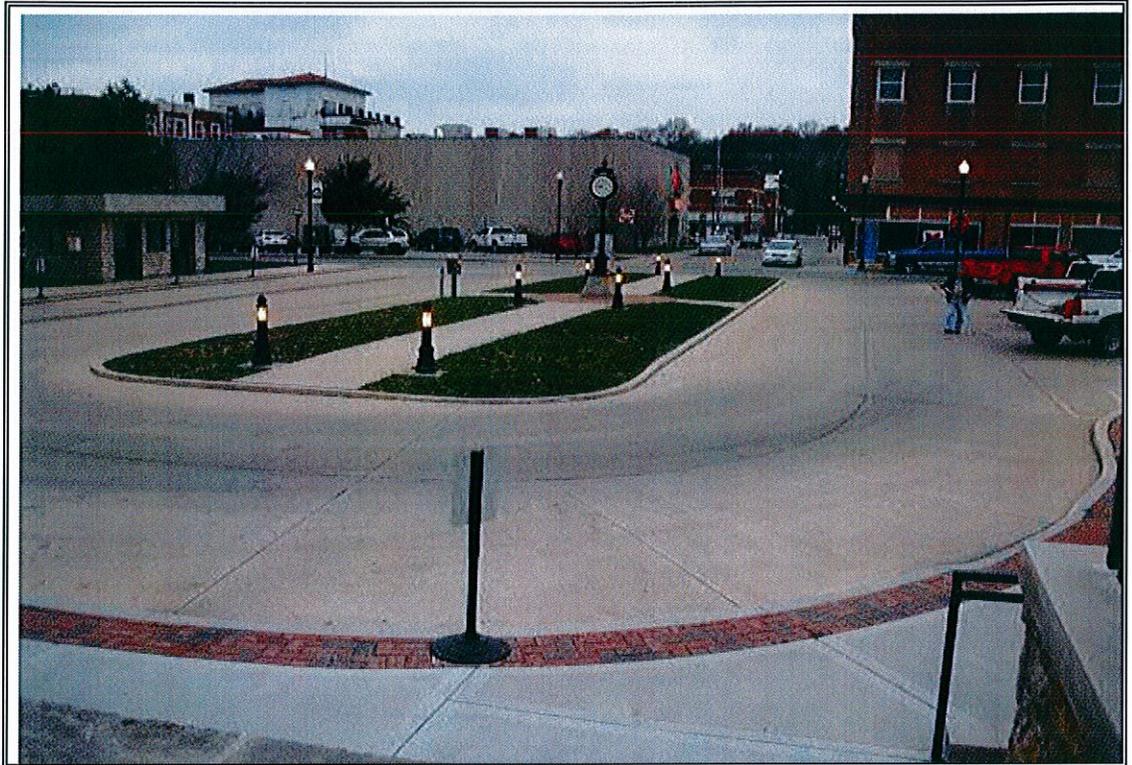
Photograph Number 22: Residential area to east



Photograph Number 23: Residential area to east



Photograph Number 24: Wooded area along southern boundary



Photograph Number 1: Parking lot



Photograph Number 2: Front lawn area



Photograph Number 3: SW area of building



Photograph Number 4: SE area of building / back lot



Photograph Number 5: Garage



Photograph Number 6: One water well



Photograph Number 7: Dumpster



Photograph Number 8: Park area behind building



Photograph Number 9: Ball field area



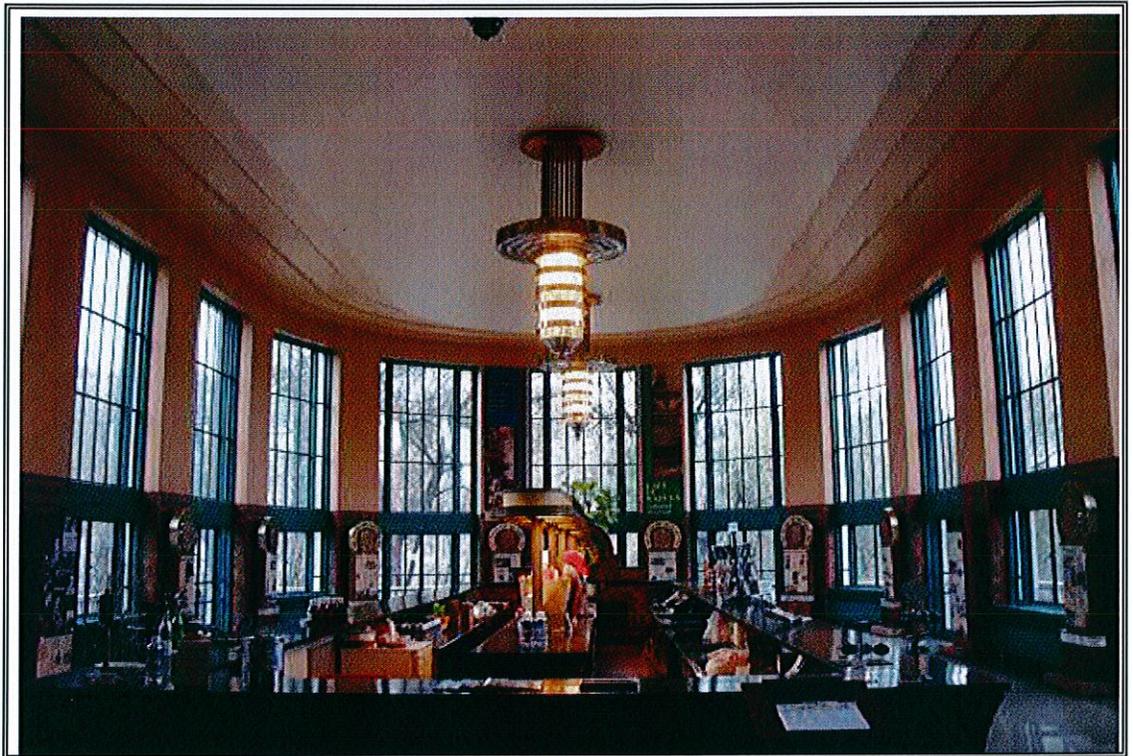
Photograph Number 10: Ball field area



Photograph Number 11: Bomb shelter



Photograph Number 12: Bomb shelter



Photograph Number 13: Water bar / tourist info center



Photograph Number 14: Lobby



Photograph Number 15: Lowest building level



Photograph Number 16: Lowest building level



Photograph Number 17: Lowest building level / original boilers



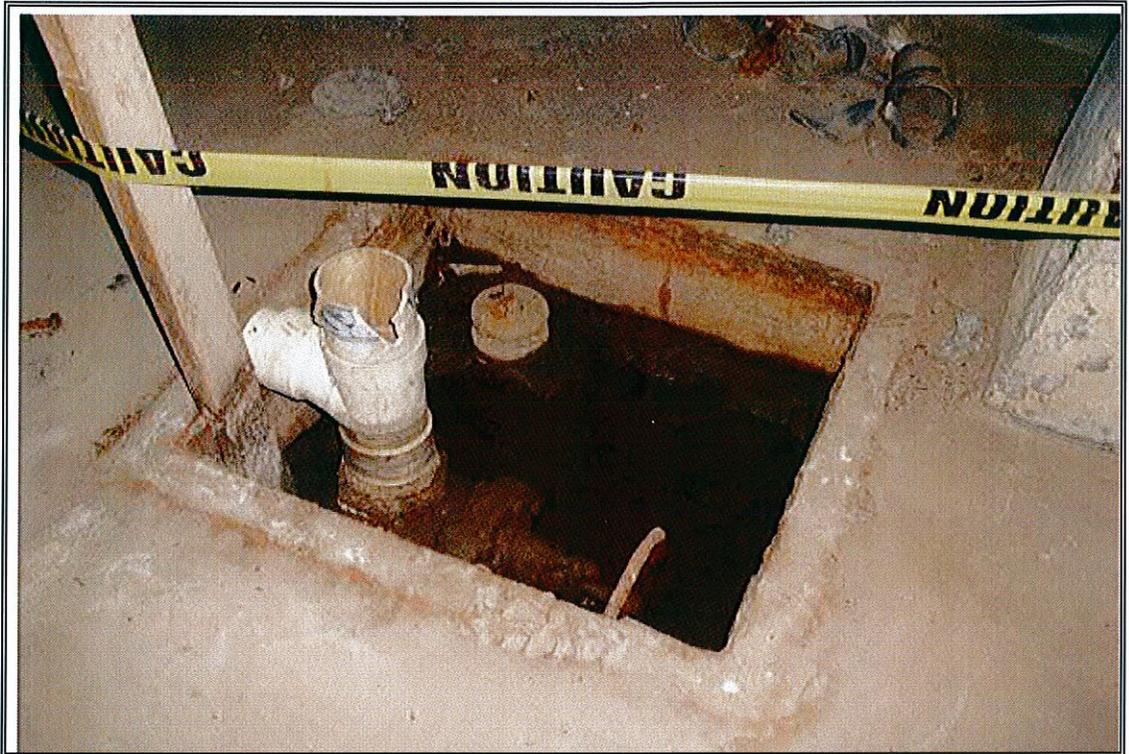
Photograph Number 18: Current boilers



Photograph Number 19: Electrical room



Photograph Number 20: Former pool area / south wing



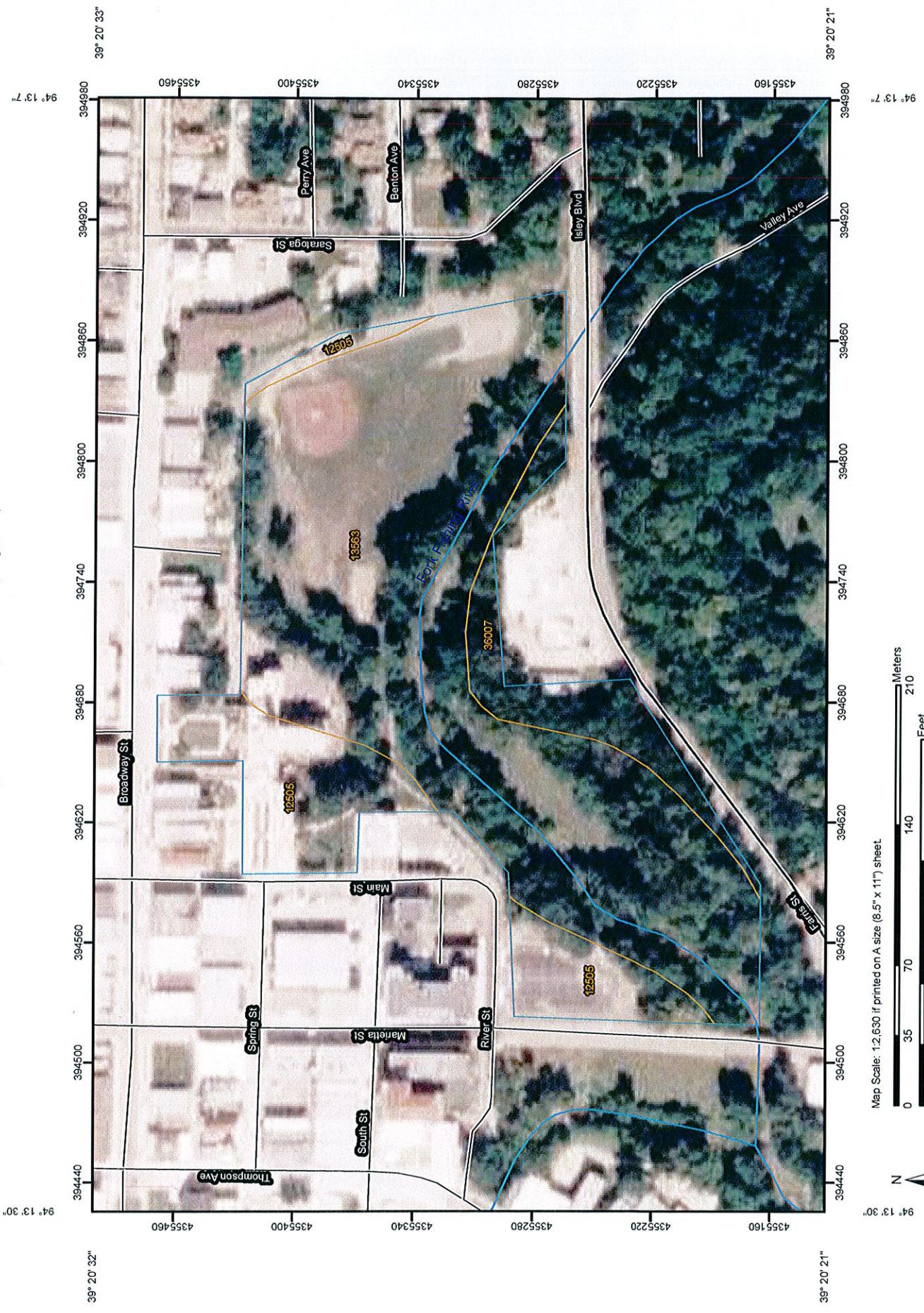
Photograph Number 21: Sump



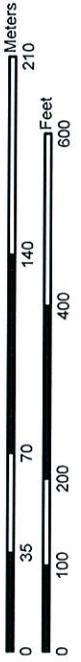
Photograph Number 22: Lower level of building

APPENDIX A
CORRESPONDENCE AND WEBSITE INFORMATION

Soil Map—Clay County, Missouri
 (201 East Broadway Excelsior Springs, MO)



Map Scale: 1:2,630 if printed on A size (8.5" x 11") sheet



Map Unit Legend

Clay County, Missouri (MO047)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
12505	Wiota silt loam, 0 to 2 percent slopes	2.6	19.1%
13563	Nodaway silt loam, 0 to 2 percent slopes, occasionally flooded	10.0	72.7%
36007	Bremer silt loam, 0 to 2 percent slopes, occasionally flooded	1.1	8.1%
Totals for Area of Interest		13.8	100.0%

Excelsior Springs, Missouri Water Department

2009 Water Quality Report

This Water Quality Report is provided in accordance with the Safe Drinking Water Act (SDWA) and designed to inform you of the quality of water provided to our customers last year.

Who regulates our water utility? The Missouri Department of Natural Resources regulates our water system and requires us to test our water on a regular basis to ensure its safety. Our system has been assigned the identification number MO1010261 for the purposes of tracking test results. Last year we tested for a variety of contaminants. The detectable results of these tests are on the following pages of this report. The Excelsior Springs Water Department has never had any monitoring or treatment violations, and takes pride in providing the highest quality of treated water to our consumers.

What is the source of our water? The sources of drinking water, both tap water and bottled water, include rivers, lakes, streams, ponds, reservoirs, springs, and groundwater wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity. Excelsior Springs' water comes from six (6) municipal wells in the Missouri River alluvial field. The wells range from 78 to 110 feet deep and are located seven miles south of the City Limits on "N" Highway.

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

- * Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- * Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban

stormwater runoff, industrial, or domestic wastewater discharges, oil and gas production, mining, or farming.

- * Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.

- * Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can, also come from gas stations, urban storm water runoff, and septic systems.

- * Radioactive contaminants, which can be naturally occurring or be the results of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, the Department of Natural Resources prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. Department of Health regulations, establish limits for contaminants in bottled water, which must provide the same protection for public health.

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

How might I become actively involved?

If you would like to become involved or observe the decision-making process that affect drinking water quality or if you have any further questions about this drinking water report, please call us at 816-630-0755 to inquire about scheduled meetings or contact persons.

Tour our Facilities: Public and educational tours of the Water Treatment Plant may be arranged by calling 816-630-0755.

EXCELSIOR SPRINGS
2009 Annual Water Quality Report
(Consumer Confidence Report)

MO1010261

Violations and Health Effects Information

During the 2009 calendar year, we had the below noted violation(s) of drinking water regulations.

Type	Category	Analyte	Compliance Period
No Violations Occurred in the Calendar Year of 2009			

Any Additional Required Health Effects Language or Violation Notices

There are no additional required health effects notices.

There are no additional required health effects violation notices.

Optional Monitoring (not required by EPA)

Optional Contaminants

Monitoring is not required for optional contaminants.

Secondary Contaminants	Collection Date	Highest Value	Range	Unit	MCL	MCLG	Typical Source
ALKALINITY, CaCO ₃ STABILITY	3/19/2008	117	117	MG/L			
ALKALINITY, TOTAL	3/29/2005	120	120	MG/L			
CALCIUM	3/19/2008	10.3	10.3	MG/L			
CHLORIDE	3/19/2008	14.2	14.2	MG/L	250		
HARDNESS, CARBONATE	3/19/2008	85.4	85.4	MG/L			
IRON	3/19/2008	0.0109	0.0109	MG/L	0.3		
MAGNESIUM	3/19/2008	14.5	14.5	MG/L			
PH	3/19/2008	7.78	7.78	PH	8.5		
POTASSIUM	3/19/2008	5.59	5.59	MG/L			
SODIUM	3/19/2008	8	8	MG/L		20	
SULFATE	3/19/2008	43.1	43.1	MG/L	250		
TDS	3/19/2008	155	155	MG/L	500		

Across-slope shape: Linear
Other vegetative classification: Grass/Prairie (Herbaceous
Vegetation)

Vesser

Percent of map unit: 3 percent
Landform: Flood-plain steps
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Concave
Other vegetative classification: Grass/Prairie (Herbaceous
Vegetation)

Data Source Information

Soil Survey Area: Clay County, Missouri
Survey Area Data: Version 10, Sep 24, 2012

Other vegetative classification: Mixed/Transitional (Mixed Native Vegetation)

Colo, ponded

Percent of map unit: 3 percent

Landform: Flood-plain steps

Down-slope shape: Linear

Across-slope shape: Linear

Other vegetative classification: Grass/Prairie (Herbaceous Vegetation)

Colo, channeled, frequently flooded

Percent of map unit: 3 percent

Landform: Flood plains

Down-slope shape: Linear

Across-slope shape: Linear

Other vegetative classification: Grass/Prairie (Herbaceous Vegetation)

Zook

Percent of map unit: 3 percent

Landform: Flood plains

Down-slope shape: Linear

Across-slope shape: Linear

Other vegetative classification: Grass/Prairie (Herbaceous Vegetation)

Data Source Information

Soil Survey Area: Clay County, Missouri

Survey Area Data: Version 10, Sep 24, 2012

Across-slope shape: Linear

Other vegetative classification: Grass/Prairie (Herbaceous Vegetation)

Data Source Information

Soil Survey Area: Clay County, Missouri

Survey Area Data: Version 10, Sep 24, 2012

INSURANCE Agency of Central Missouri



APPROXIMATE SCALE IN FEET



NATIONAL FLOOD INSURANCE PROGRAM

FIRM FLOOD INSURANCE RATE MAP

CITY OF
EXCELSIOR SPRINGS,
MISSOURI
CLAY AND RAY COUNTIES

ONLY PANEL PRINTED

COMMUNITY-PANEL NUMBER
2900900005 C

MAP REVISED:
APRIL 16, 2003



Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

LEGEND

SPECIAL FLOOD HAZARD AREAS INUNDATED BY 100-YEAR FLOOD

ZONE A No base flood elevations determined.

ZONE AE Base flood elevations determined.

ZONE AH Flood depths of 1 to 3 feet (usually areas of ponding); base flood elevations determined.

ZONE AO Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding; velocities also determined.

ZONE A99 To be protected from 100-year flood by Federal flood protection system under construction; no base flood elevations determined.

ZONE V Coastal flood with velocity hazard (wave action); no base flood elevations determined.

ZONE VE Coastal flood with velocity hazard (wave action); base flood elevations determined.

FLOODWAY AREAS IN ZONE AE

OTHER FLOOD AREAS

ZONE X Areas of 500-year flood; areas of 100-year flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 100-year flood.

OTHER AREAS

ZONE X Areas determined to be outside 500-year floodplain.

ZONE D Areas in which flood hazards are undetermined.

UNDEVELOPED COASTAL BARRIERST

Identified 1983

Identified 1990

Otherwise Protected Areas

Floodplain Boundary

Floodway Boundary

Zone D Boundary

Boundary Dividing Special Flood Hazard Zones, and Boundary Dividing Areas of Different Coastal Base Flood Elevations Within Special Flood Hazard Zones.

Base Flood Elevation Line; Elevation in Feet*

513

areas where Base Flood elevations have been determined, users are advised to consult the Floodway Data tables and Floodway Data tables Study (FIS) report that are that BFEs shown on the maps and therefore may not be presented in the FIS. For other purposes, users are advised to consult the FIS as presented in this FIS in the FIS.

As listed on this map were used for determination of flood elevations on this map. Flood elevations may have changed since the up-to-date-elevation (NGS) ERMs shown on this map. Map users should consult the NGS at (301) 847-2000. Map users should consult elevations when using the map for management purposes.

Within a 0.01 National Flood Insurance Rate Map (NFIRM) should be aware of the information provided in the Summary of Flood Insurance Study report for this area of Stillwater Elevations or floodplain management actions shown on this FIRM.

edge north of Sherri

in concrete post

for information

APPENDIX A
CORRESPONDENCE AND WEBSITE INFORMATION



U.S. Fish and Wildlife Service

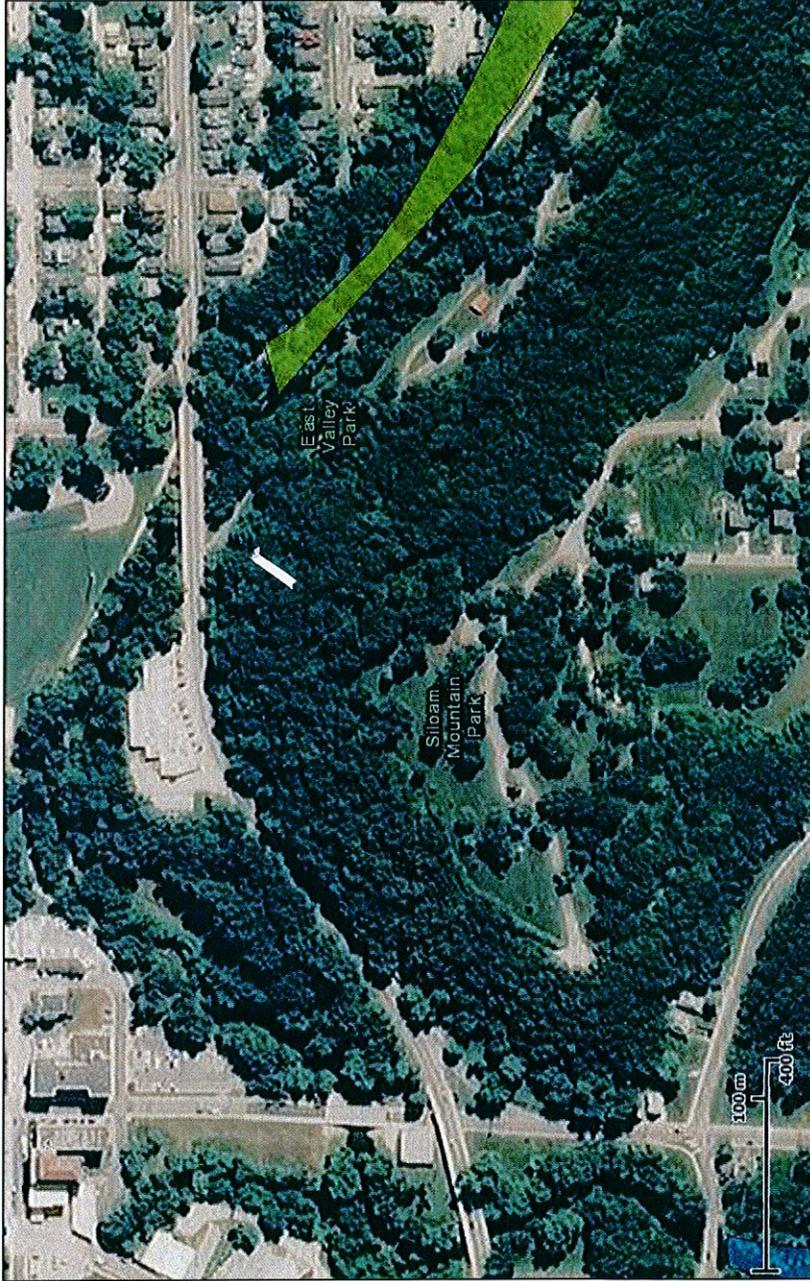
National Wetlands Inventory

Hall of Waters Building

Nov 9, 2012

Wetlands

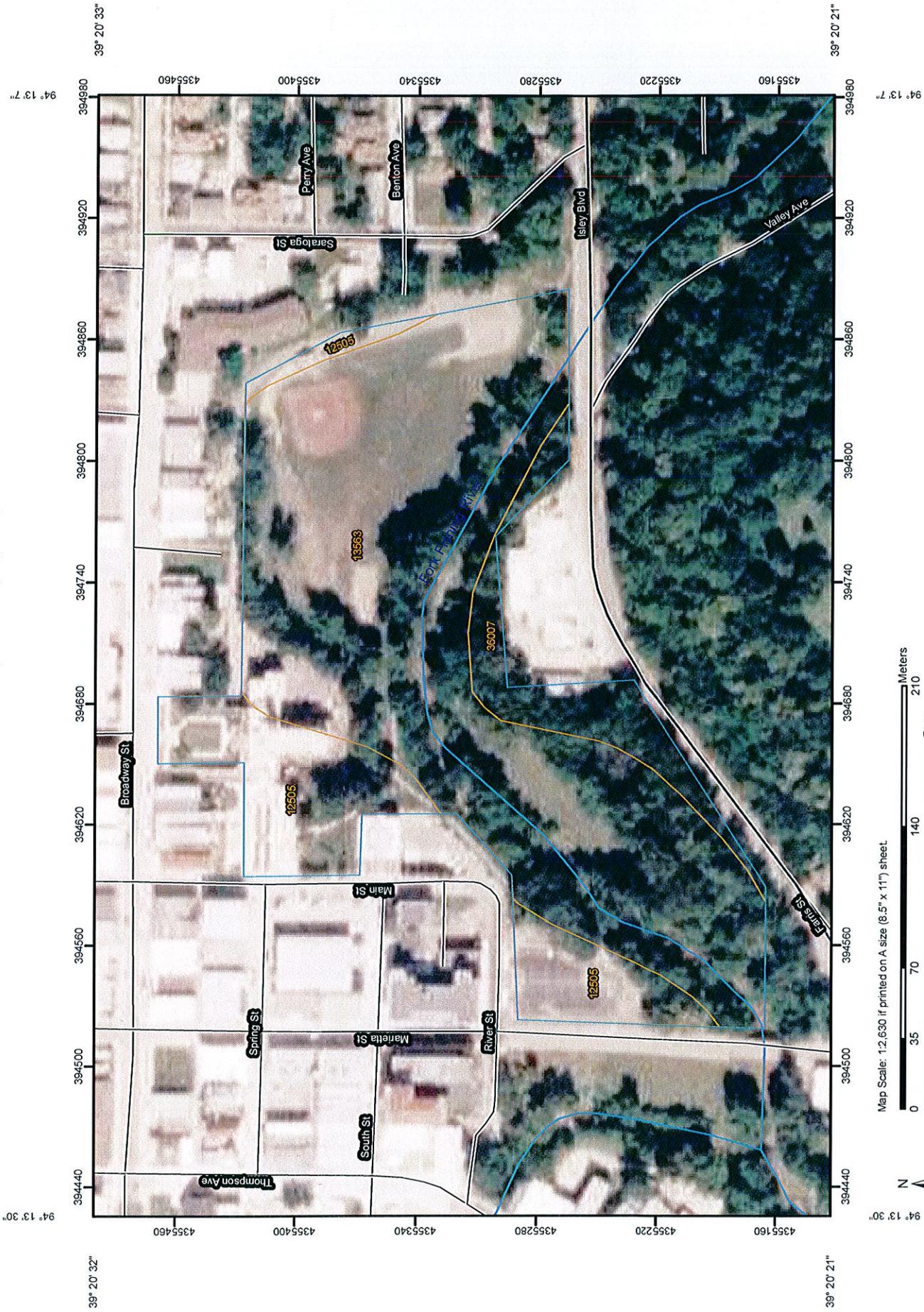
-  Freshwater Emergent
-  Freshwater Forested/Shrub
-  Estuarine and Marine Deepwater
-  Estuarine and Marine
-  Freshwater Pond
-  Lake
-  Riverine
-  Other



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

User Remarks:

Soil Map—Clay County, Missouri
 (201 East Broadway Excelsior Springs, MO)



Map Scale: 1:2,630 if printed on A size (8.5" x 11") sheet.



MAP LEGEND

 Area of Interest (AOI)	 Very Stony Spot
 Soils	 Wet Spot
	 Other
 Special Point Features	Special Line Features
 Blowout	 Gully
 Borrow Pit	 Short Steep Slope
 Clay Spot	 Other
 Closed Depression	Political Features
 Gravel Pit	 Cities
 Gravelly Spot	Water Features
 Landfill	 Streams and Canals
 Lava Flow	Transportation
 Marsh or swamp	 Rails
 Mine or Quarry	 Interstate Highways
 Miscellaneous Water	 US Routes
 Perennial Water	 Major Roads
 Rock Outcrop	 Local Roads
 Saline Spot	
 Sandy Spot	
 Severely Eroded Spot	
 Sinkhole	
 Slide or Slip	
 Sodic Spot	
 Spoil Area	
 Stony Spot	

MAP INFORMATION

Map Scale: 1:2,640 if printed on A size (8.5" x 11") sheet.
 The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for accurate map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>
 Coordinate System: UTM Zone 15N NAD83

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Clay County, Missouri
 Survey Area Data: Version 10, Sep 24, 2012

Date(s) aerial images were photographed: 7/6/2007

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Clay County, Missouri (MO047)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
12505	Wiota silt loam, 0 to 2 percent slopes	2.6	19.1%
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Clay County Assessor Parcel Detail

12-311-00-23-021.00

Property Address 000201 E BROADWAY AVE
Property Zip Code 64024

Legal EXCELSIOR SPRINGS CITY BLOCKS CBS 68, 69, 70, 71, 120 & 121 BLK 35
 SOUTHERN ADDITION BEG SE COR INTERS S MAIN ST & RIVER ST,
 N415, E65, N70, E75, N100, E160, S77, E50, S34, E210, N33, E10, S33, E185, S

Section/Township/Range 1/52/30

Owner Name /address EXCELSIOR SPRINGS, CITY OF
 201 E BROADWAY ST
 EXCELSIOR SPRINGS MO 64024-2564

Tax district 7 **Tax code** 40-02-00-10-00-0000
Property class 92 **Status** EX
Property Type COMM

	Land Value	Improvement value	Appraised value	Assessed value
Residential				
Commercial	622,900	1,596,400	2,219,300	
Agricultural				
Total	622,900	1,596,400	2,219,300	

Book & Page **Sale Date**
 1472-0824
 1512-0672
 1622-0842
 1835-0075

[Location of this parcel](#)

Excelsior Springs, Missouri Water Department

2009 Water Quality Report

This Water Quality Report is provided in accordance with the Safe Drinking Water Act (SDWA) and designed to inform you of the quality of water provided to our customers last year.

Who regulates our water utility? The Missouri Department of Natural Resources regulates our water system and requires us to test our water on a regular basis to ensure its safety. Our system has been assigned the identification number MO1010261 for the purposes of tracking test results. Last year we tested for a variety of contaminants. The detectable results of these tests are on the following pages of this report. The Excelsior Springs Water Department has never had any monitoring or treatment violations, and takes pride in providing the highest quality of treated water to our consumers.

What is the source of our water? The sources of drinking water, both tap water and bottled water, include rivers, lakes, streams, ponds, reservoirs, springs, and groundwater wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity. Excelsior Springs' water comes from six (6) municipal wells in the Missouri River alluvial field. The wells range from 78 to 110 feet deep and are located seven miles south of the City Limits on "N" Highway.

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

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stormwater runoff, industrial, or domestic wastewater discharges, oil and gas production, mining, or farming.

- * Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.

- * Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can, also come from gas stations, urban storm water runoff, and septic systems.

- * Radioactive contaminants, which can be naturally occurring or be the results of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, the Department of Natural Resources prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. Department of Health regulations, establish limits for contaminants in bottled water, which must provide the same protection for public health.

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

How might I become actively involved?

If you would like to become involved or observe the decision-making process that affect drinking water quality or if you have any further questions about this drinking water report, please call us at 816-630-0755 to inquire about scheduled meetings or contact persons.

Tour our Facilities: Public and educational tours of the Water Treatment Plant may be arranged by calling 816-630-0755.

EXCELSIOR SPRINGS
2009 Annual Water Quality Report
(Consumer Confidence Report)
Contaminants Report

MO1010261

Definitions:

MCLG: Maximum Contaminant Level Goal, or the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
MCL: Maximum Contaminant Level, or the highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

AL: Action Level, or the concentration of a contaminant which, when exceeded, triggers treatment or other requirements which a water system must follow.

TT: Treatment Technique, or a required process intended to reduce the level of a contaminant in drinking water.

90th percentile: For lead and Copper testing, 10% of test results are above this level and 90% are below this level.

Level Found: is the average of all test results for a particular contaminant.

Range of Detection: Shows the lowest and highest levels found during a testing period, if only one sample was taken, then this number equals the Level Found.

MRLDG: Maximum Residual Disinfectant Level Goal, or the level of a drinking water disinfectant below which there is no known or expected risk to health

MRDL: Maximum Residual Disinfectant Level, or the highest level of a disinfectant allowed in drinking water.

RAA: Running Annual Average, or the average of sample analytical results for samples taken during the previous four calendar quarters.

Abbreviations:

PPB: parts per billion or micrograms per liter.

PPM: parts per million or milligrams per liter.

n/a: not applicable.

NTU: Nephelometric Turbidity Unit, used to measure cloudiness in drinking water.

MFL: million fibers per liter, used to measure asbestos concentration.

nd: not detectable at testing limits.

The state has reduced monitoring requirements for certain contaminants to less often than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Records with a sample year more than one year old are still considered representative.

Regulated Contaminants

Regulated Contaminants	Collection Date	Highest Value	Range	Unit	MCL	MCLG	Typical Source
BARIUM	3/19/2008	0.0419	0.0419	ppm	2	2	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
FLUORIDE	3/19/2008	0.15	0.15	ppm	4	4	Natural deposits; Water additive which promotes strong teeth.
NITRATE-NITRITE	11/10/2009	0.08	0.08	ppm	10	10	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits

Disinfection By Products	Monitoring Period	RAA	Range	Unit	MCL	MCLG	Typical Source
TOTAL HALOACETIC ACIDS (HAA5)	2009	23.66521	8.36 - 38.2	ppb	60	0	By-product of drinking water disinfection
TTHM	2009	60.81178	33.3 - 101	ppb	80	0	By-product of drinking water chlorination

Lead and Copper	Date	90 th Percentile	Range	Unit	AL	Sites Over AL	Typical Source
COPPER	2008 - 2010	0.0348	0.00374 - 0.0524	ppm	1.3	0	Corrosion of household plumbing systems

Microbiological	Result	MCL	MCLG	Typical Source
No Detected Results were Found in the Calendar Year of 2009				

Monday, May 24, 2010

EXCELSIOR SPRINGS
2009 Annual Water Quality Report
(Consumer Confidence Report)

MO1010261

Violations and Health Effects Information

During the 2009 calendar year, we had the below noted violation(s) of drinking water regulations.

Type	Category	Analyte	Compliance Period
No Violations Occurred in the Calendar Year of 2009			

Any Additional Required Health Effects Language or Violation Notices

There are no additional required health effects notices.

There are no additional required health effects violation notices.

Optional Monitoring (not required by EPA)

Optional Contaminants

Monitoring is not required for optional contaminants.

Secondary Contaminants	Collection Date	Highest Value	Range	Unit	MCL	MCLG	Typical Source
ALKALINITY, CaCO3 STABILITY	3/19/2008	117	117	MG/L			
ALKALINITY, TOTAL	3/29/2005	120	120	MG/L			
CALCIUM	3/19/2008	10.3	10.3	MG/L			
CHLORIDE	3/19/2008	14.2	14.2	MG/L	250		
HARDNESS, CARBONATE	3/19/2008	85.4	85.4	MG/L			
IRON	3/19/2008	0.0109	0.0109	MG/L	0.3		
MAGNESIUM	3/19/2008	14.5	14.5	MG/L			
PH	3/19/2008	7.78	7.78	PH	8.5		
POTASSIUM	3/19/2008	5.59	5.59	MG/L			
SODIUM	3/19/2008	8	8	MG/L		20	
SULFATE	3/19/2008	43.1	43.1	MG/L	250		
TDS	3/19/2008	155	155	MG/L	500		

Clay County, Missouri

12505—Wiota silt loam, 0 to 2 percent slopes

Map Unit Setting

Elevation: 480 to 1,400 feet

Mean annual precipitation: 33 to 41 inches

Mean annual air temperature: 50 to 55 degrees F

Frost-free period: 177 to 220 days

Map Unit Composition

Wiota and similar soils: 90 percent

Minor components: 6 percent

Description of Wiota

Setting

Landform: Stream terraces

Landform position (three-dimensional): Tread

Down-slope shape: Convex

Across-slope shape: Linear

Parent material: Alluvium

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Capacity of the most limiting layer to transmit water

(Ksat): Moderately high (0.20 to 0.57 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)

Available water capacity: Very high (about 12.8 inches)

Interpretive groups

Land capability (nonirrigated): 1

Ecological site: Mollic Moist Terrace Prairie And Savanna
(R109XY034MO)

Other vegetative classification: Grass/Prairie (Herbaceous
Vegetation)

Typical profile

0 to 29 inches: Silt loam

29 to 48 inches: Silty clay loam

48 to 80 inches: Silt loam

Minor Components

Bremer

Percent of map unit: 3 percent

Landform: Flood-plain steps

Landform position (three-dimensional): Tread

Down-slope shape: Linear

Across-slope shape: Linear
Other vegetative classification: Grass/Prairie (Herbaceous
Vegetation)

Vesser

Percent of map unit: 3 percent
Landform: Flood-plain steps
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Concave
Other vegetative classification: Grass/Prairie (Herbaceous
Vegetation)

Data Source Information

Soil Survey Area: Clay County, Missouri
Survey Area Data: Version 10, Sep 24, 2012

Clay County, Missouri

13563—Nodaway silt loam, 0 to 2 percent slopes, occasionally flooded

Map Unit Setting

Elevation: 500 to 1,400 feet

Mean annual precipitation: 33 to 41 inches

Mean annual air temperature: 50 to 55 degrees F

Frost-free period: 177 to 220 days

Map Unit Composition

Nodaway and similar soils: 80 percent

Minor components: 12 percent

Description of Nodaway

Setting

Landform: Flood-plain steps

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Alluvium

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Moderately well drained

Capacity of the most limiting layer to transmit water

(Ksat): Moderately high to high (0.57 to 1.98 in/hr)

Depth to water table: About 36 to 60 inches

Frequency of flooding: Occasional

Frequency of ponding: None

Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)

Available water capacity: Very high (about 13.2 inches)

Interpretive groups

Land capability (nonirrigated): 2w

Ecological site: Ulmus americana-Celtis occidentalis/Vitis-Staphylea trifolia/Carex-Laportea canadensis (F109XY030MO)

Other vegetative classification: Mixed/Transitional (Mixed Native Vegetation)

Typical profile

0 to 8 inches: Silt loam

8 to 60 inches: Silt loam

Minor Components

Nodaway, frequently flooded

Percent of map unit: 3 percent

Landform: Flood plains

Down-slope shape: Linear

Across-slope shape: Linear

Other vegetative classification: Mixed/Transitional (Mixed Native Vegetation)

Colo, ponded

Percent of map unit: 3 percent

Landform: Flood-plain steps

Down-slope shape: Linear

Across-slope shape: Linear

Other vegetative classification: Grass/Prairie (Herbaceous Vegetation)

Colo, channeled, frequently flooded

Percent of map unit: 3 percent

Landform: Flood plains

Down-slope shape: Linear

Across-slope shape: Linear

Other vegetative classification: Grass/Prairie (Herbaceous Vegetation)

Zook

Percent of map unit: 3 percent

Landform: Flood plains

Down-slope shape: Linear

Across-slope shape: Linear

Other vegetative classification: Grass/Prairie (Herbaceous Vegetation)

Data Source Information

Soil Survey Area: Clay County, Missouri

Survey Area Data: Version 10, Sep 24, 2012

Clay County, Missouri

36007—Bremer silt loam, 0 to 2 percent slopes, occasionally flooded

Map Unit Setting

Elevation: 500 to 1,400 feet

Mean annual precipitation: 35 to 41 inches

Mean annual air temperature: 50 to 54 degrees F

Frost-free period: 177 to 209 days

Map Unit Composition

Bremer and similar soils: 90 percent

Minor components: 5 percent

Description of Bremer

Setting

Landform: Flood-plain steps

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Alluvium

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Poorly drained

Capacity of the most limiting layer to transmit water

(Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)

Depth to water table: About 0 to 12 inches

Frequency of flooding: Occasional

Frequency of ponding: None

Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)

Available water capacity: High (about 12.0 inches)

Interpretive groups

Land capability (nonirrigated): 3w

Ecological site: Mollic Wet Terrace Prairie And Savanna
(R109XY038MO)

Other vegetative classification: Grass/Prairie (Herbaceous
Vegetation)

Typical profile

0 to 20 inches: Silt loam

20 to 41 inches: Silty clay loam

41 to 60 inches: Silty clay loam

Minor Components

Colo

Percent of map unit: 5 percent

Landform: Flood-plain steps

Landform position (three-dimensional): Dip

Down-slope shape: Linear

Across-slope shape: Linear
Other vegetative classification: Grass/Prairie (Herbaceous
Vegetation)

Data Source Information

Soil Survey Area: Clay County, Missouri
Survey Area Data: Version 10, Sep 24, 2012

Insurance Agency of Central Missouri
 APPROXIMATE SCALE IN FEET
 1000

NATIONAL FLOOD INSURANCE PROGRAM

FIRM FLOOD INSURANCE RATE MAP

CITY OF
 EXCELSIOR SPRINGS,
 MISSOURI
 CLAY AND RAY COUNTIES

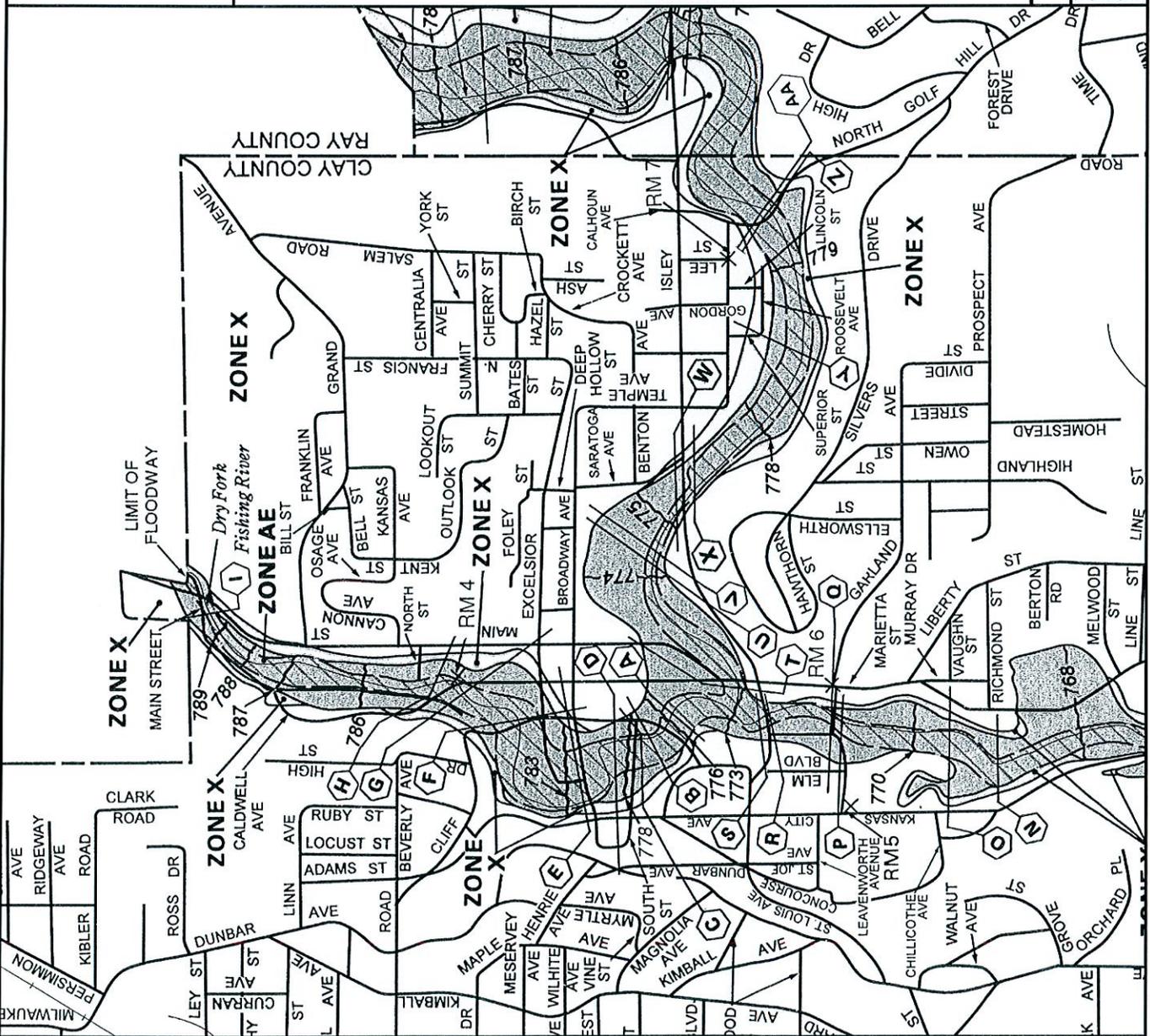
ONLY PANEL PRINTED

COMMUNITY-PANEL NUMBER
 2900900005 C

MAP REVISED:
 APRIL 16, 2003

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov



areas where Base Flood elevations have been determined, users are advised to consult the National Flood Insurance Study (NFIS) and Floodway Data Tables (FDT) report that are that BEFs shown on the maps and therefore may not be presented in the FIS. For other purposes, users are advised to consult the FIS in the NFIS.

Users listed on this map were not included for determination of flood elevations on this map. Floodway Data Tables (FDT) may have changed since the NFIS was published. Users should obtain up-to-date elevation data from the National Geospatial-Intelligence Agency (NGS) ERMs shown on this map. Branch of the NGS at (301) 741-4000. Map users should consult the FIS for more information on management purposes.

Users should be aware that the National Flood Insurance Study (NFIS) should be aware of the Floodway Data Tables (FDT) report for this study of Stillwater Elevations and floodplain management actions shown on this FIRM.

LEGEND

- SPECIAL FLOOD HAZARD AREAS INUNDATED BY 100-YEAR FLOOD**
- ZONE A** No base flood elevations determined.
 - ZONE AE** Base flood elevations determined.
 - ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); base flood elevations determined.
 - ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding; velocities also determined.
 - ZONE A99** To be protected from 100-year flood by Federal flood protection system under construction; no base flood elevations determined.
 - ZONE V** Coastal flood with velocity hazard (wave action); no base flood elevations determined.
 - ZONE VE** Coastal flood with velocity hazard (wave action); base flood elevations determined.
- FLOODWAY AREAS IN ZONE AE**
- OTHER FLOOD AREAS**
 - ZONE X** Areas of 500-year flood; areas of 100-year flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 100-year flood.
 - OTHER AREAS**
 - ZONE X** Areas determined to be outside 500-year floodplain.
 - ZONE D** Areas in which flood hazards are undetermined.
- UNDEVELOPED COASTAL BARRIERS†**
- Identified 1983
 - Identified 1990
 - Otherwise Protected Areas
- †Coastal barrier areas are normally located within or adjacent to special flood hazard areas.
- Floodplain Boundary
 - Floodway Boundary
 - Zone D Boundary
 - Boundary Dividing Special Flood Hazard Zones, and Boundary Dividing Areas of Different Coastal Base Flood Elevations Within Special Flood Hazard Zones.
 - Base Flood Elevation Line; Elevation in Feet*

APPROXIMATE SCALE IN FEET
1000
0

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

CITY OF
EXCELSIOR SPRINGS,
MISSOURI
CLAY AND RAY COUNTIES

ONLY PANEL PRINTED

COMMUNITY-PANEL NUMBER
2900900005 C

MAP REVISED:
APRIL 16, 2003

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

idge north of Sherri

* in concrete post

bor of intersection



APPENDIX B
FEDERAL AND STATE DATABASE INFORMATION

Historic Hall of Waters Building

201 East Broadway

Excelsior Springs, MO 64024

Inquiry Number: 3439514.2s

October 23, 2012

The EDR Radius Map™ Report with GeoCheck®



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

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

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EXECUTIVE SUMMARY

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

TARGET PROPERTY INFORMATION

ADDRESS

201 EAST BROADWAY
EXCELSIOR SPRINGS, MO 64024

COORDINATES

Latitude (North): 39.3423000 - 39° 20' 32.28"
Longitude (West): 94.2223000 - 94° 13' 20.28"
Universal Transverse Mercator: Zone 15
UTM X (Meters): 394666.4
UTM Y (Meters): 4355266.5
Elevation: 784 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 39094-C2 EXCELSIOR SPRINGS, MO
Most Recent Revision: 1975

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 2009, 2010
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>
201 EAST BROADWAY 201 EAST BROADWAY EXCELSIOR SPRINGS, MO	SPILLS	N/A
EXCELSIOR SPRINGS, CITY O 201 E BROADWAY EXCELSIOR SPRIN, MO 64024	FINDS	N/A
HISTORIC HALL OF WATERS BUILDING 201 E. BROADWAY EXCELSIOR SPRINGS, MO 64024	VCP NPDES	N/A
CITY OF EXCELSIOR SPRINGS 201 E BROADWAY EXCELSIOR SPRINGS, MO 64024	FINDS	N/A

EXECUTIVE SUMMARY

DATABASES WITH NO MAPPED SITES

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

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

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

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY..... Federal Facility Site Information listing

Federal CERCLIS NFRAP site List

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
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

EXECUTIVE SUMMARY

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

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

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

Local Lists of Hazardous waste / Contaminated Sites

US CDL..... Clandestine Drug Labs
DEL SHWS..... Registry Sites Withdrawn or Deleted
CDL..... Environmental Emergency Response System
US HIST CDL..... National Clandestine Laboratory Register

Local Land Records

LIENS 2..... CERCLA Lien Information

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System

Other Ascertainable Records

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

EXECUTIVE SUMMARY

DOT OPS.....	Incident and Accident Data
DOD.....	Department of Defense Sites
FUDS.....	Formerly Used Defense Sites
CONSENT.....	Superfund (CERCLA) Consent Decrees
ROD.....	Records Of Decision
UMTRA.....	Uranium Mill Tailings Sites
MINES.....	Mines Master Index File
TRIS.....	Toxic Chemical Release Inventory System
TSCA.....	Toxic Substances Control Act
FTTS.....	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS.....	FIFRA/TSCA Tracking System Administrative Case Listing
SSTS.....	Section 7 Tracking Systems
ICIS.....	Integrated Compliance Information System
PADS.....	PCB Activity Database System
MLTS.....	Material Licensing Tracking System
RADINFO.....	Radiation Information Database
FINDS.....	Facility Index System/Facility Registry System
RAATS.....	RCRA Administrative Action Tracking System
UIC.....	Underground Injection Wells Database
MO RRC.....	Certified Hazardous Waste Resource Recovery Facilities
AIRS.....	Permit Facility Listing
INDIAN RESERV.....	Indian Reservations
SCRD DRYCLEANERS.....	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR.....	Financial Assurance Information
COAL ASH.....	Coal Ash Disposal Sites
FINANCIAL ASSURANCE.....	Financial Assurance Information Listing
EPA WATCH LIST.....	EPA WATCH LIST
PRP.....	Potentially Responsible Parties
PCB TRANSFORMER.....	PCB Transformer Registration Database
2020 COR ACTION.....	2020 Corrective Action Program List
COAL ASH DOE.....	Steam-Electric Plant Operation Data
COAL ASH EPA.....	Coal Combustion Residues Surface Impoundments List

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

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

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

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

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS list

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

EXECUTIVE SUMMARY

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.

A review of the CERCLIS list, as provided by EDR, and dated 12/27/2011 has revealed that there is 1 CERCLIS site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
EXCELSIOR SPRINGS FMGP	320 W. EXCELSIOR ST.	WNW 1/8 - 1/4 (0.184 mi.)	C14	39

Federal RCRA generators list

RCRA-CESQG: 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.

A review of the RCRA-CESQG list, as provided by EDR, and dated 03/15/2012 has revealed that there are 2 RCRA-CESQG sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
SOUTHSIDE MACHINE SHOP	204 N MAIN ST	NW 0 - 1/8 (0.084 mi.)	B7	18
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
UNITED AUTO SVC & MARINE	402 SOUTH ST	WSW 1/8 - 1/4 (0.187 mi.)	15	44

State- and tribal - equivalent CERCLIS

SHWS: Registry and Registry Log.

A review of the SHWS list, as provided by EDR, and dated 06/06/2012 has revealed that there is 1 SHWS site within approximately 1 mile of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
EXCELSIOR SPRINGS FMGP #1	320 W. EXCELSIOR STREET	WNW 1/8 - 1/4 (0.184 mi.)	C13	36

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tanks.

A review of the LUST list, as provided by EDR, and dated 09/11/2012 has revealed that there are 5 LUST sites within approximately 0.5 miles of the target property.

EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>EXCELSIOR SPRINGS C O</i>	<i>216 W BROADWAY</i>	<i>W 0 - 1/8 (0.102 mi.)</i>	<i>8</i>	<i>21</i>
<i>WILSON TIRE & ALIGNMENT CENTER</i>	<i>401 ST LOUIS AVE</i>	<i>SW 1/4 - 1/2 (0.305 mi.)</i>	<i>16</i>	<i>47</i>
<i>7-ELEVEN - FORMER</i>	<i>500 ST LOUIS AVE</i>	<i>SW 1/4 - 1/2 (0.342 mi.)</i>	<i>17</i>	<i>56</i>
<i>POUR BOY #5</i>	<i>510 ST LOUIS ST</i>	<i>SW 1/4 - 1/2 (0.365 mi.)</i>	<i>18</i>	<i>65</i>

Date Of NFA Letter From DNR: 8/20/2012

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>EXCELSIOR SPRINGS SERVICE CENT</i>	<i>405 N MARIETTA</i>	<i>NW 1/8 - 1/4 (0.146 mi.)</i>	<i>10</i>	<i>31</i>

State and tribal registered storage tank lists

UST: Underground Storage Tank Information.

A review of the UST list, as provided by EDR, and dated 09/11/2012 has revealed that there are 4 UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>CLAY RAY PLASTICS CO INC</i>	<i>202 N MAIN</i>	<i>NW 0 - 1/8 (0.081 mi.)</i>	<i>B6</i>	<i>10</i>
<i>EXCELSIOR SPRINGS C O</i>	<i>216 W BROADWAY</i>	<i>W 0 - 1/8 (0.102 mi.)</i>	<i>8</i>	<i>21</i>
<i>ROBERT HEDGES PROPERTIES INC</i>	<i>308 N MAIN</i>	<i>NNW 1/8 - 1/4 (0.133 mi.)</i>	<i>9</i>	<i>25</i>

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>EXCELSIOR SPRINGS SERVICE CENT</i>	<i>405 N MARIETTA</i>	<i>NW 1/8 - 1/4 (0.146 mi.)</i>	<i>10</i>	<i>31</i>

State and tribal voluntary cleanup sites

VCP: Voluntary Cleanup Program Site Listing.

A review of the VCP list, as provided by EDR, and dated 08/03/2012 has revealed that there is 1 VCP site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>LEWIS ELEMENTARY SCHOOL</i>	<i>501 LEAVENWORTH STREET</i>	<i>SW 1/4 - 1/2 (0.439 mi.)</i>	<i>19</i>	<i>82</i>

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

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

A review of the DRYCLEANERS list, as provided by EDR, and dated 09/18/2012 has revealed that there

EXECUTIVE SUMMARY

are 2 DRYCLEANERS sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
EXCELSIOR ECON-O-WASH	118 W. BROADWAY	W 0 - 1/8 (0.057 mi.)	5	9
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
BOND CLEANERS	314 W BROADWAY	W 1/8 - 1/4 (0.151 mi.)	11	35

EDR PROPRIETARY RECORDS

EDR Proprietary Records

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.

A review of the Manufactured Gas Plants list, as provided by EDR, has revealed that there is 1 Manufactured Gas Plants site within approximately 1 mile of the target property.

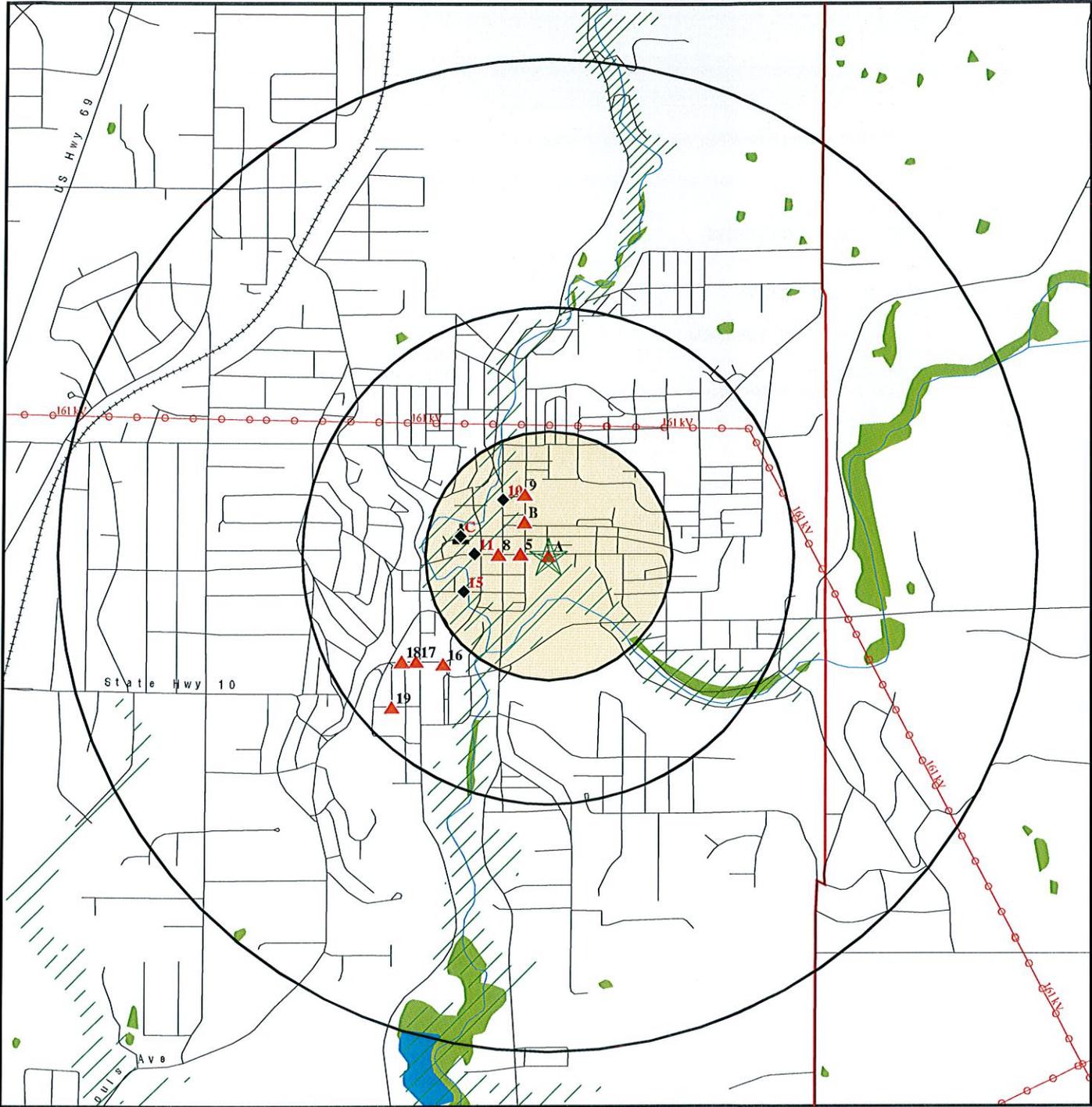
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
EXCELSIOR SPRINGS FMGP #1	320 W. EXCELSIOR STREE	WNW 1/8 - 1/4 (0.184 mi.)	C12	35

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 11 records.

<u>Site Name</u>	<u>Database(s)</u>
EXCELSIOR SPRINGS MAINT LOT	LUST, UST
SOO LINE RAILROAD EXCELSIOR SPRING	LUST, UST
TARKIO RANCH	UST
PEPSI COLA	UST
PROPOSED AIRPORT - RON PREWITT	LAST
BOBS COLLISION REPAIR	RCRA-SQG, FINDS
AMEREN MO FORMER EXCELSIOR SPRINGS	RCRA-SQG
QUALITY BODY WORKS	RCRA-NonGen, FINDS
EXCELSIOR SPRINGS FMGP	RCRA-NonGen
MO POWER & LIGHT EXCELSIOR SPRINGS	RCRA-NonGen
AT&T COMPANY LONG LINES	RCRA-NonGen, FINDS

OVERVIEW MAP - 3439514.2s



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

- ☒ Indian Reservations BIA
- ↯ County Boundary
- ⚡ Power transmission lines
- ↯ Oil & Gas pipelines from USGS
- ▨ 100-year flood zone
- ▨ 500-year flood zone
- National Wetland Inventory

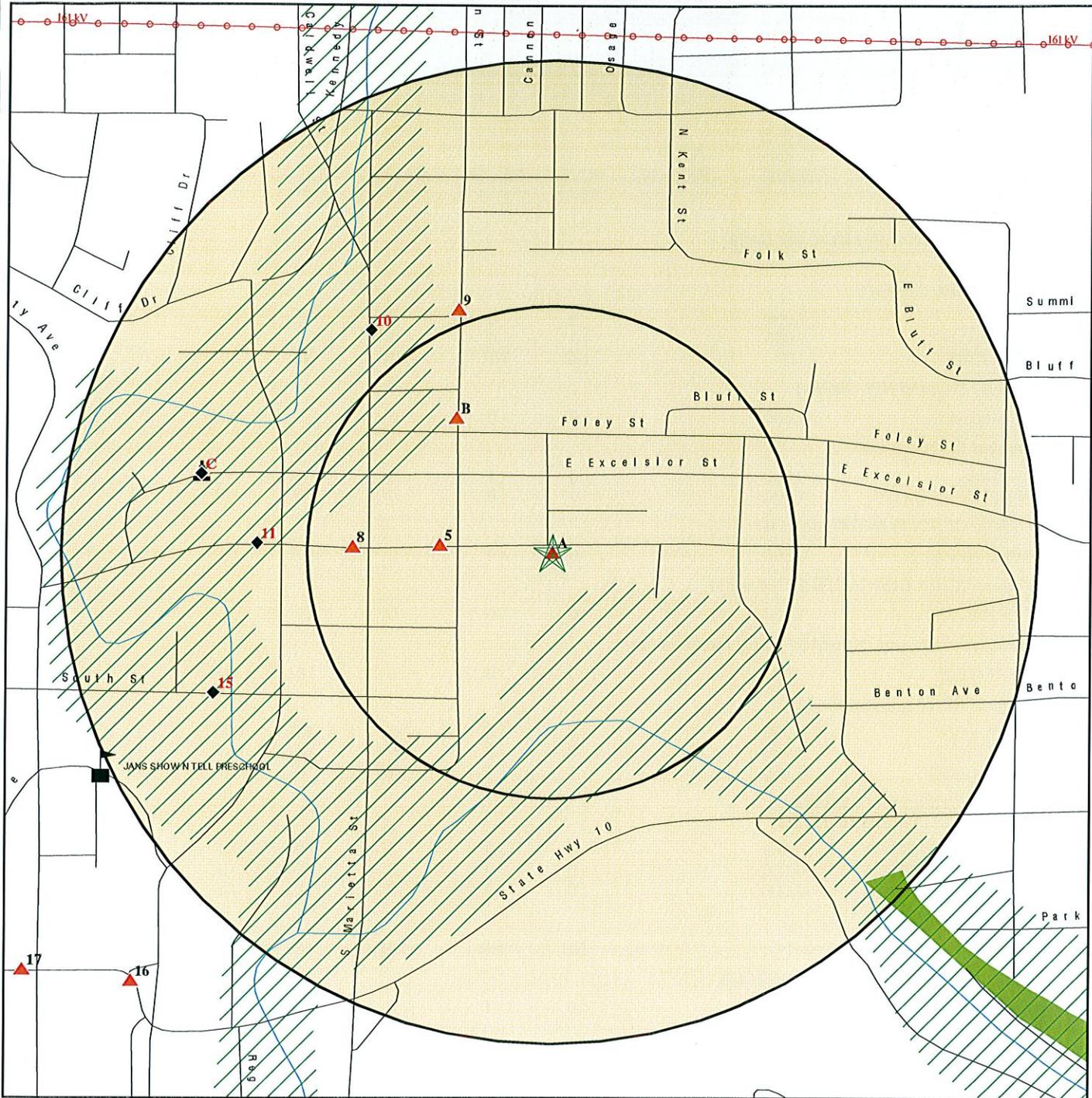


This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Historic Hall of Waters Building
 ADDRESS: 201 East Broadway
 Excelsior Springs MO 64024
 LAT/LONG: 39.3423 / 94.2223

CLIENT: Browning & Associates, Inc.
 CONTACT: Bill Browning
 INQUIRY #: 3439514.2s
 DATE: October 23, 2012 6:22 pm

DETAIL MAP - 3439514.2s



- ★ 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: Historic Hall of Waters Building
 ADDRESS: 201 East Broadway
 Excelsior Springs MO 64024
 LAT/LONG: 39.3423 / 94.2223

CLIENT: Browning & Associates, Inc.
 CONTACT: Bill Browning
 INQUIRY #: 3439514.2s
 DATE: October 23, 2012 6:27 pm

MAP FINDINGS SUMMARY

<u>Database</u>	<u>Search Distance (Miles)</u>	<u>Target Property</u>	<u>< 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>> 1</u>	<u>Total Plotted</u>
<u>STANDARD ENVIRONMENTAL RECORDS</u>								
<i>Federal NPL site list</i>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
<i>Federal Delisted NPL site list</i>								
Delisted NPL	1.000		0	0	0	0	NR	0
<i>Federal CERCLIS list</i>								
CERCLIS	0.500		0	1	0	NR	NR	1
FEDERAL FACILITY	1.000		0	0	0	0	NR	0
<i>Federal CERCLIS NFRAP site List</i>								
CERC-NFRAP	0.500		0	0	0	NR	NR	0
<i>Federal RCRA CORRACTS facilities list</i>								
CORRACTS	1.000		0	0	0	0	NR	0
<i>Federal RCRA non-CORRACTS TSD facilities list</i>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<i>Federal RCRA generators list</i>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		1	1	NR	NR	NR	2
<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	1	0	0	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	1	3	NR	NR	5
LAST	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
<i>State and tribal registered storage tank lists</i>								
UST	0.250		2	2	NR	NR	NR	4

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
<i>State and tribal institutional control / engineering control registries</i>								
AUL	0.500		0	0	0	NR	NR	0
<i>State and tribal voluntary cleanup sites</i>								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500	1	0	0	1	NR	NR	2
<i>State and tribal Brownfields sites</i>								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
<u>ADDITIONAL ENVIRONMENTAL RECORDS</u>								
<i>Local Brownfield lists</i>								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
<i>Local Lists of Landfill / Solid Waste Disposal Sites</i>								
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
HIST LF	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
<i>Local Lists of Hazardous waste / Contaminated Sites</i>								
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
<i>Local Land Records</i>								
LIENS 2	TP		NR	NR	NR	NR	NR	0
<i>Records of Emergency Release Reports</i>								
HMIRS	TP		NR	NR	NR	NR	NR	0
SPILLS	TP	1	NR	NR	NR	NR	NR	1
<i>Other Ascertainable Records</i>								
RCRA-NonGen	0.250		0	0	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1.000		0	0	0	0	NR	0
FUDS	1.000		0	0	0	0	NR	0
CONSENT	1.000		0	0	0	0	NR	0
ROD	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
MINES	0.250		0	0	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP	2	NR	NR	NR	NR	NR	2
RAATS	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
DRYCLEANERS	0.250		1	1	NR	NR	NR	2
MO RRC	TP		NR	NR	NR	NR	NR	0
NPDES	TP	1	NR	NR	NR	NR	NR	1
AIRS	TP		NR	NR	NR	NR	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
FINANCIAL ASSURANCE	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants	1.000		0	1	0	0	NR	1
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NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

A1
Target
Property

201 EAST BROADWAY
EXCELSIOR SPRINGS, MO

SPILLS **S108271400**
 N/A

Site 1 of 4 in cluster A

Actual:
784 ft.

MO SPILLS:

Facility ID: 0610121415MDG
Regional Office: KCRO
Spill Number: 0610121415MDG
Date Reported: 10/12/2006
Call Date/time: 14:15:00
Lat/Long: 39.343391 -94.223091
UTM Zone For GPS: 15
Discovery Date: 10/12/2006
Email: False
Is This A Continuous Release To Be Monitored?: False
Cause: Improper Disposal
Contact Name: Unknown
Contact Phone #: 0000000000
Contact Id: {9B864C07-1FCD-4567-A594-519E3DCD46E5}
Organization Name: Unknown
Organization Address1: Not reported
Organization Address2: Not reported
Organization City: Unknown
Organization State: XX
Organization Zip: 00000
Entity Phone #: 0000000000
Date Of Incident Search: 10/12/2006
Property Code Description: Public Property
Property Sub Category: Not reported
Cause Description: Improper Disposal
Cause Sub Category: Not reported
Description: Address Matching - Other Address Matching
Job Code: Not reported
Additional Info: On 10/12/06 at 1415 hours, the EER was contacted by Mr. Roy Gray with the city of Excelsior Springs regarding some abandoned cans of floor sealant and paint waste. They we left is a few of their city parks. The city will contact the Kansas City Household Hazardous Waste collection station to properly dispose of the waste.

A2
Target
Property

EXCELSIOR SPRINGS, CITY O
201 E BROADWAY
EXCELSIOR SPRIN, MO 64024

FINDS **1010380101**
 N/A

Site 2 of 4 in cluster A

Actual:
784 ft.

FINDS:

Registry ID: 110031105257

Environmental Interest/Information System

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

US National Pollutant Discharge Elimination System (NPDES) module of

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

EXCELSIOR SPRINGS, CITY O (Continued)

1010380101

the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

PCS (Permit Compliance System) is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

A3 HISTORIC HALL OF WATERS BUILDING
 Target 201 E. BROADWAY
 Property EXCELSIOR SPRINGS, MO 64024

VCP S108837592
 NPDES N/A

Site 3 of 4 in cluster A

Actual:
 784 ft.

VCP:

Facility Status:	Active/Investigation
Activity Use:	Not reported
Manager:	Brian McCurren
Cert. of completion issued:	Not reported
Application Received:	7/24/2012
State Funded:	Not reported
Federal Funded:	Not reported
Acreage:	Not reported
Northing:	Not reported
Easting:	Not reported
Operable Unit:	Historic Hall of Waters Building
Site Description:	The Downtown Excelsior Partnership has applied for a Brownfields Assessment for The Historic Hall of Waters Building, which is an approximately 50,500 square foot building along the Fishing River in Excelsior Springs. The building was constructed in the late 1800's and, historically, has been used as a mineral water bottling facility, health spa, and pool. Portions of the building are currently being used as the city hall, while the rest of the building is vacant. Possible uses after redevelopment include a health spa, entertainment, and continued use for city functions. The building was flooded in 1993, damaging the lower portions of the structure. The suspected contaminants are asbestos, lead-based paint, and chemicals associated with coal burning.
Contaminant:	Not reported

NPDES:

Permit Number:	MOR040074
SIC:	9511
SIC Description:	AIR, WATER, AND SOLID WASTE MANAGEMENT
Issue Date:	06/20/2008
Effective Date:	06/20/2008
Expire Date:	06/12/2013
Category Description:	Storm Water Small MS4
Treatment Type Description:	Storm Water
Facility Telephone:	8166300755
Owner Name:	EXCELSIOR SPRINGS, CITY O

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HISTORIC HALL OF WATERS BUILDING (Continued)

S108837592

Owner Address: 201 E BROADWAY
Owner Address 2: Not reported
Owner City: EXCELSIOR SPRIN
Owner State: MO
Owner Zip: 64024

A4
Target
Property

CITY OF EXCELSIOR SPRINGS
201 E BROADWAY
EXCELSIOR SPRINGS, MO 64024

FINDS **1014758459**
N/A

Site 4 of 4 in cluster A

Actual:
784 ft.

FINDS:

Registry ID: 110042443889

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.

5
West
< 1/8
0.057 mi.
303 ft.

EXCELSIOR ECON-O-WASH
118 W. BROADWAY
EXCELSIOR SPRINGS, MO 64024

DRYCLEANERS **S106876302**
N/A

Relative:
Higher

DRYCLEANERS:

Actual:
785 ft.

Plant Number: 047-
DC Number: 01967
Facility Status: Abandoned
Facility Contact: Not reported
Facility Phone: Not reported
Site NA: False
Dry Store: False
DC Plant: True
Supplier: False
Chlorinated: False
Non Chlorinated: False
Supplier ID: Not reported
OUID: 5246
Party ID: 2246

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number
EPA ID Number

B6 CLAY RAY PLASTICS CO INC
NW 202 N MAIN
< 1/8 EXCELSIOR SPRINGS, MO 64024
0.081 mi.
430 ft. Site 1 of 2 in cluster B

UST U001159054
N/A

Relative:
Higher

UST:

Actual:
788 ft.

Facility ID: ST0013924
Region: KC
Lat/Long: 39.28324 / -94.21867
Lat/Long (dms): Not reported
Easting: 394591.910
Northing: 4355546.52
Method Data Was Obtained: Street Centerline
Accuracy Of Geospatial Data: 8
Owner Of Geospatial Data: Hazardous Waste Program
Amount Of Deviation In Accuracy: Not reported
Deviation In Meters; Feet; Pdrop; Score: Not reported
Geospatial Point Line Area Indicator: Not reported
Geospatial Horizontal Reference Datum: Not reported
Where Geospatial Data Collected On Site: Not reported
Geospatial Source Data Location: Not reported
Geospatial Data Collected By: VANCE, S
Geospatial Elevation Method: Not reported
Geospatial Elevation Reference Datum: Not reported
Date Gis Data Collected: 06/30/2010

Tanks:

Owner:

Owner ID: OW10433
Owner Name: CLAY RAY PLASTICS CO, INC
Owner Address: 205 N MARIETTA
Owner City,St,Zip: EXCELSIOR SPRINGS, MO 64024
Owner County Code: 47
Owner Phone: 6373772
Mail Was Not Deliverable: No
Is Owner Active?: No
Date Registration Received: Not reported
Date Record Added: 1995-06-30 00:00:00
Date Record Edited: Not reported
Name of Person Editing Record: Not reported

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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CLAY RAY PLASTICS CO INC (Continued)

U001159054

Date Tank Last Used: 01/01/1970
Date Tank Permanently Closed/ Removed: 01/01/1970
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: 1970-01-01 00:00:00
Date Record Added: 06/30/1995
Date Record Edited: 08/20/2007
Person Adding/Editing Record: LIGHT, K
Date Of NFA Letter: Not reported
Is Tank Used For Emergency Generator: No
Date Closure Notice Received: Not reported
Date Of Approval Letter: Not reported
Firm Closing Tank: Not reported
Date Closure Report Received: Not reported
Registration End Date: Not reported
LockOut Flag: No
Comments: Closed prior to dept regulations.

Tank Compartment:

Tank Compartment PK: 34871
Tank PK: 34873
Compartment No: 1
Compartment Status: Permanently Closed in place
Compartment Temp Verified Dt: Not reported
Capacity: 1000
Pipe Installation Dt: Not reported
Pipe System: Not reported
Pipe Material: 1
Pipe Material Other: Not reported
Pipe Protection: Not reported
Pipe Protection Dt: Not reported
Pipe Double Wall: 0
Substance: Empty
Substance Other: Not reported
Hazardous Substance: Not reported
Case Number: Not reported
Mixture: 0
Date of Last Use: 1970-01-01 00:00:00
Spill Protection: 0
Tanks Use: 0

Owner:

Owner ID: OW10433
Owner Name: CLAY RAY PLASTICS CO, INC
Owner Address: 205 N MARIETTA
Owner City,St,Zip: EXCELSIOR SPRINGS, MO 64024
Owner County Code: 47
Owner Phone: 6373772
Mail Was Not Deliverable: No
Is Owner Active?: No
Date Registration Received: Not reported
Date Record Added: 1995-06-30 00:00:00

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CLAY RAY PLASTICS CO INC (Continued)

U001159054

Date Record Edited: Not reported
Name of Person Editing Record: Not reported

Tank ID: 2
Tank Double Wall: 0
Tank Type: Below Ground
Tank Status: Permanently Closed in place
Meet 98 Update Requirements: No
Date Tank Installed: Not reported
Tank Material: Steel
Code for Tank Material Manufacturer: Not reported
Code for Tank Installer: Not reported
Other Type Of Tank Material: Not reported
Tank Internal Protection: No
Other Tank Internal Protection: Not reported
Tank Internal Protection Date: Not reported
Tank External Protection: Unknown
Other Type Tank Extn Protec: Not reported
Tank External Protec Date: Not reported
Date Tank Last Used: 01/01/1970
Date Tank Permanently Closed/ Removed: 01/01/1970
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: 1970-01-01 00:00:00
Date Record Added: 06/30/1995
Date Record Edited: 08/20/2007
Person Adding/Editing Record: LIGHT, K
Date Of NFA Letter: Not reported
Is Tank Used For Emergency Generator: No
Date Closure Notice Received: Not reported
Date Of Approval Letter: Not reported
Firm Closing Tank: Not reported
Date Closure Report Received: Not reported
Registration End Date: Not reported
LockOut Flag: No
Comments: Not reported

Tank Compartment:

Tank Compartment PK: 34872
Tank PK: 34874
Compartment No: 1
Compartment Status: Permanently Closed in place
Compartment Temp Verified Dt: Not reported
Capacity: 1000
Pipe Installation Dt: Not reported
Pipe System: Not reported
Pipe Material: 1
Pipe Material Other: Not reported
Pipe Protection: Not reported
Pipe Protection Dt: Not reported
Pipe Double Wall: 0
Substance: Empty
Substance Other: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CLAY RAY PLASTICS CO INC (Continued)

U001159054

Hazardous Substance: Not reported
Case Number: Not reported
Mixture: 0
Date of Last Use: 1970-01-01 00:00:00
Spill Protection: 0
Tanks Use: 0

Owner:

Owner ID: OW10433
Owner Name: CLAY RAY PLASTICS CO, INC
Owner Address: 205 N MARIETTA
Owner City,St,Zip: EXCELSIOR SPRINGS, MO 64024
Owner County Code: 47
Owner Phone: 6373772
Mail Was Not Deliverable: No
Is Owner Active?: No
Date Registration Received: Not reported
Date Record Added: 1995-06-30 00:00:00
Date Record Edited: Not reported
Name of Person Editing Record: Not reported

Tank ID: 3
Tank Double Wall: 0
Tank Type: Below Ground
Tank Status: Permanently Closed in place
Meet 98 Update Requirements: No
Date Tank Installed: Not reported
Tank Material: Steel
Code for Tank Material Manufacturer: Not reported
Code for Tank Installer: Not reported
Other Type Of Tank Material: Not reported
Tank Internal Protection: No
Other Tank Internal Protection: Not reported
Tank Internal Protection Date: Not reported
Tank External Protection: Unknown
Other Type Tank Exlrm Protec: Not reported
Tank External Protec Date: Not reported
Date Tank Last Used: 01/01/1970
Date Tank Permanently Closed/ Removed: 01/01/1970
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: 1970-01-01 00:00:00
Date Record Added: 06/30/1995
Date Record Edited: 08/20/2007
Person Adding/Editing Record: LIGHT, K
Date Of NFA Letter: Not reported
Is Tank Used For Emergency Generator: No
Date Closure Notice Received: Not reported
Date Of Approval Letter: Not reported
Firm Closing Tank: Not reported
Date Closure Report Received: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CLAY RAY PLASTICS CO INC (Continued)

U001159054

Registration End Date: Not reported
LockOut Flag: No
Comments: Not reported

Tank Compartment:
Tank Compartment PK: 34873
Tank PK: 34875
Compartment No: 1
Compartment Status: Permanently Closed in place
Compartment Temp Verified Dt: Not reported
Capacity: 1000
Pipe Installation Dt: Not reported
Pipe System: Not reported
Pipe Material: 1
Pipe Material Other: Not reported
Pipe Protection: Not reported
Pipe Protection Dt: Not reported
Pipe Double Wall: 0
Substance: Empty
Substance Other: Not reported
Hazardous Substance: Not reported
Case Number: Not reported
Mixture: 0
Date of Last Use: 1970-01-01 00:00:00
Spill Protection: 0
Tanks Use: 0

Owner:
Owner ID: OW10433
Owner Name: CLAY RAY PLASTICS CO, INC
Owner Address: 205 N MARIETTA
Owner City,St,Zip: EXCELSIOR SPRINGS, MO 64024
Owner County Code: 47
Owner Phone: 6373772
Mail Was Not Deliverable: No
Is Owner Active?: No
Date Registration Received: Not reported
Date Record Added: 1995-06-30 00:00:00
Date Record Edited: Not reported
Name of Person Editing Record: Not reported

Tank ID: 4
Tank Double Wall: 0
Tank Type: Below Ground
Tank Status: Permanently Closed in place
Meet 98 Update Requirements: No
Date Tank Installed: Not reported
Tank Material: Steel
Code for Tank Material Manufacturer: Not reported
Code for Tank Installer: Not reported
Other Type Of Tank Material: Not reported
Tank Internal Protection: No
Other Tank Internal Protection: Not reported
Tank Internal Protection Date: Not reported
Tank External Protection: Unknown

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CLAY RAY PLASTICS CO INC (Continued)

U001159054

Other Type Tank Extn Protec: Not reported
Tank External Protec Date: Not reported
Date Tank Last Used: 01/01/1970
Date Tank Permanently Closed/ Removed: 01/01/1970
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: 1970-01-01 00:00:00
Date Record Added: 06/30/1995
Date Record Edited: 08/20/2007
Person Adding/Editing Record: LIGHT, K
Date Of NFA Letter: Not reported
Is Tank Used For Emergency Generator: No
Date Closure Notice Received: Not reported
Date Of Approval Letter: Not reported
Firm Closing Tank: Not reported
Date Closure Report Received: Not reported
Registration End Date: Not reported
LockOut Flag: No
Comments: Not reported

Tank Compartment:

Tank Compartment PK: 34874
Tank PK: 34876
Compartment No: 1
Compartment Status: Permanently Closed in place
Compartment Temp Verified Dt: Not reported
Capacity: 1000
Pipe Installation Dt: Not reported
Pipe System: Not reported
Pipe Material: 1
Pipe Material Other: Not reported
Pipe Protection: Not reported
Pipe Protection Dt: Not reported
Pipe Double Wall: 0
Substance: Empty
Substance Other: Not reported
Hazardous Substance: Not reported
Case Number: Not reported
Mixture: 0
Date of Last Use: 1970-01-01 00:00:00
Spill Protection: 0
Tanks Use: 0

Owner:

Owner ID: OW10433
Owner Name: CLAY RAY PLASTICS CO, INC
Owner Address: 205 N MARIETTA
Owner City,St,Zip: EXCELSIOR SPRINGS, MO 64024
Owner County Code: 47
Owner Phone: 6373772
Mail Was Not Deliverable: No
Is Owner Active?: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CLAY RAY PLASTICS CO INC (Continued)

U001159054

Date Registration Received: Not reported
Date Record Added: 1995-06-30 00:00:00
Date Record Edited: Not reported
Name of Person Editing Record: Not reported

Tank ID: 5
Tank Double Wall: 0
Tank Type: Below Ground
Tank Status: Permanently Closed in place
Meet 98 Update Requirements: No
Date Tank Installed: Not reported
Tank Material: Steel
Code for Tank Material Manufacturer: Not reported
Code for Tank Installer: Not reported
Other Type Of Tank Material: Not reported
Tank Internal Protection: No
Other Tank Internal Protection: Not reported
Tank Internal Protection Date: Not reported
Tank External Protection: Unknown
Other Type Tank Extn Protec: Not reported
Tank External Protec Date: Not reported
Date Tank Last Used: 01/01/1970
Date Tank Permanently Closed/ Removed: 01/01/1970
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: 1970-01-01 00:00:00
Date Record Added: 06/30/1995
Date Record Edited: 08/20/2007
Person Adding/Editing Record: LIGHT, K
Date Of NFA Letter: Not reported
Is Tank Used For Emergency Generator: No
Date Closure Notice Received: Not reported
Date Of Approval Letter: Not reported
Firm Closing Tank: Not reported
Date Closure Report Received: Not reported
Registration End Date: Not reported
LockOut Flag: No
Comments: Not reported

Tank Compartment:
Tank Compartment PK: 34875
Tank PK: 34877
Compartment No: 1
Compartment Status: Permanently Closed in place
Compartment Temp Verified Dt: Not reported
Capacity: 1000
Pipe Installation Dt: Not reported
Pipe System: Not reported
Pipe Material: 1
Pipe Material Other: Not reported
Pipe Protection: Not reported
Pipe Protection Dt: Not reported
Pipe Double Wall: 0

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CLAY RAY PLASTICS CO INC (Continued)

U001159054

Substance: Empty
Substance Other: Not reported
Hazardous Substance: Not reported
Case Number: Not reported
Mixture: 0
Date of Last Use: 1970-01-01 00:00:00
Spill Protection: 0
Tanks Use: 0

Tank Aug 2011:

Facility Id: ST0013924
Tank Id: 1
Site Usage: Not reported
Risk Type: Not reported
Soil Type: Not reported
GW Flow: Not reported
Offsite Impact: Not reported
Free Product: Not reported
Drinking Water: Not reported
Closed Under: Not reported
No Drinking Wells: No
No Buildings: No
Vapor Barrier: 0
St Louis Mo: No
Special Well Area: No
Surface Cap: No
No Excavation: No

Facility Id: ST0013924
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: ST0013924
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CLAY RAY PLASTICS CO INC (Continued)

U001159054

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: ST0013924
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
Vapor Barrier: 0
St Louis Mo: No
Special Well Area: No
Surface Cap: No
No Excavation: No

Facility Id: ST0013924
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

B7 SOUTHSIDE MACHINE SHOP
NW 204 N MAIN ST
< 1/8 EXCELSIOR SPRINGS, MO 64024
0.084 mi.
445 ft. Site 2 of 2 in cluster B

RCRA-CESQG 1004740907
FINDS MOD985821651

Relative: RCRA-CESQG:
Higher Date form received by agency: 03/20/1997
Facility name: SOUTHSIDE MACHINE SHOP
Actual: Facility address: 204 N MAIN ST
789 ft. EXCELSIOR SPRINGS, MO 64024
EPA ID: MOD985821651
Mailing address: N MAIN ST
EXCELSIOR SPRINGS, MO 64024

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SOUTHSIDE MACHINE SHOP (Continued)

1004740907

Contact: AL CHAMP
Contact address: 204 N MAIN ST
EXCELSIOR SPRINGS, MO 64024
Contact country: US
Contact telephone: (816) 637-6300
Contact email: Not reported
EPA Region: 07
Land type: Facility is not located on Indian land. Additional information is not known.
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: CORP
Owner/operator address: NA
NA, MO NA
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:

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

Hazardous Waste Summary:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SOUTHSIDE MACHINE SHOP (Continued)

1004740907

CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D098
Waste name: D098

Facility Has Received Notices of Violations:

Regulation violated: Not reported
Area of violation: Used Oil - Generators
Date violation determined: 04/16/2010
Date achieved compliance: 04/16/2010
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 04/16/2010
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Used Oil - Generators
Date achieved compliance: 04/16/2010
Evaluation lead agency: State

FINDS:

Registry ID: 110003974888

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.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number
EPA ID Number

8
West
< 1/8
0.102 mi.
538 ft.

EXCELSIOR SPRINGS C O
216 W BROADWAY
EXCELSIOR SPRINGS, MO 64024

LUST **U001162274**
UST **N/A**

Relative:
Higher

LUST:

Facility ID: ST0002616
Region: KC - Kansas City Regional Office
Lat/Long (dms): Not reported
Spill Number: 940202-1605-LDA
Release Date: 01/02/1994
Release Type: UNDERGROUND STORAGE TANK
Date Cleanup Started: 02/02/1994
Date Cleanup Finished: 08/30/1994
Expedited: No
Expedited Date: Not reported
Expenditures From The American Recovery and Reinvestment Act of 2009: No
Reopened Date: Not reported
Number Of Remediation Monitoring Wells: 0
Active: No
Date Of NFA Letter From DNR: Not reported
Date Record Meets Archive Criteria: Not reported
Remediation ID: R004543
Rank: Not reported
Emergency Response Date: Not reported
Emergency Cleanup Start: Not reported
Referred To DGLS for Investigation: Not reported
Contractor Performing Clean Up: Not reported
RBCA NFA: No
Project Manager: L
Next Correspondence/Update With Fac: Not reported
Date Added: 06/30/1995
Date Record Edited: 03/10/2000
Person Adding Or Editing Record: NREQHW-MUKHH
Facility Sent To State Archive: Yes
Date Remediation Unit Closed The File: Not reported
Site Affectd By Funding Level From PSTIF: No
General Comments: 08-31-94 - DT - SITE CLOSED.

Actual:
784 ft.

UST:

Facility ID: ST0002616
Region: KC
Lat/Long: 39.3410609 / -94.223970
Lat/Long (dms): Not reported
Easting: 394523.328
Northing: 4355339.84
Method Data Was Obtained: Street Centerline
Accuracy Of Geospatial Data: 8
Owner Of Geospatial Data: Hazardous Waste Program
Amount Of Deviation In Accuracy: 82
Deviation In Meters; Feet; Pdrop; Score: Score
Geospatial Point Line Area Indicator: 001
Geospatial Horizontal Reference Datum: NAD83
Where Geospatial Data Collected On Site: Not reported
Geospatial Source Data Location: HWP
Geospatial Data Collected By: ROBERTS, J
Geospatial Elevation Method: Not reported
Geospatial Elevation Reference Datum: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

EXCELSIOR SPRINGS C O (Continued)

U001162274

Date Gis Data Collected: 01/15/2004

Tanks:

Owner:

Owner ID: OW04700
Owner Name: SOUTHWESTERN BELL TELEPHONE DBA ATT SERS INC
Owner Address: 3 BELL PLZA/308 S AKARD/RM 1700
Owner City,St,Zip: DALLAS, TX 75202 5399
Owner County Code: 59
Owner Phone: 5669347
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: 2010-11-10 00:00:00
Name of Person Editing Record: KIRCHNER, M

Tank ID: 1
Tank Double Wall: 0
Tank Type: Below Ground
Tank Status: **Removed**
Meet 98 Update Requirements: No
Date Tank Installed: 01/01/1971
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 Extn Protec: Not reported
Tank External Protec Date: Not reported
Date Tank Last Used: 01/01/1994
Date Tank Permanently Closed/ Removed: 09/01/1994
Dt Tk Exp Brought InUse/Internal Tracking: Not reported
Tank Fees Waived: No
Expedite Closure On Tank?: No
Responsible Person Expediting Closure: Not reported
Temporary Status Verified Date: Not reported
Admin Fee 585: Not reported
Date Administratively Closed: Not reported
Date Record Added: 06/30/1995
Date Record Edited: 08/20/1996
Person Adding/Editing Record: N\$HOEGR
Date Of NFA Letter: 09/01/1994
Is Tank Used For Emergency Generator: No
Date Closure Notice Received: 12/13/1993
Date Of Approval Letter: 1994-09-01 00:00:00
Firm Closing Tank: B&V CONSTRUCTION
Date Closure Report Received: Not reported
Registration End Date: Not reported
LockOut Flag: No
Comments: 1-2000 GAL DIESEL

Tank Compartment:

Tank Compartment PK: 6452

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

EXCELSIOR SPRINGS C O (Continued)

U001162274

Tank PK: 6452
Compartment No: 1
Compartment Status: Removed
Compartment Temp Verified Dt: Not reported
Capacity: 2000
Pipe Installation Dt: Not reported
Pipe System: Not reported
Pipe Material: 22
Pipe Material Other: S.
Pipe Protection: Not reported
Pipe Protection Dt: Not reported
Pipe Double Wall: 0
Substance: Diesel
Substance Other: Not reported
Hazardous Substance: Not reported
Case Number: Not reported
Mixture: 0
Date of Last Use: 1994-01-01 00:00:00
Spill Protection: 0
Tanks Use: 0

Owner:

Owner ID: OW04700
Owner Name: SOUTHWESTERN BELL TELEPHONE DBA ATT SERS INC
Owner Address: 3 BELL PLZA/308 S AKARD/RM 1700
Owner City,St,Zip: DALLAS, TX 75202 5399
Owner County Code: 59
Owner Phone: 5669347
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: 2010-11-10 00:00:00
Name of Person Editing Record: KIRCHNER, M

Tank ID: 2
Tank Double Wall: -1
Tank Type: Below Ground
Tank Status: Curently in use
Meet 98 Update Requirements: Yes
Date Tank Installed: 12/22/2006
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)
EDR ID Number
EPA ID Number

EXCELSIOR SPRINGS C O (Continued)

U001162274

Expedite Closure On Tank?: No
Responsible Person Expediting Closure: Not reported
Temporary Status Verified Date: Not reported
Admin Fee 585: Not reported
Date Administratively Closed: Not reported
Date Record Added: 02/05/2007
Date Record Edited: 01/19/2010
Person Adding/Editing Record: CORBIN, M
Date Of NFA Letter: Not reported
Is Tank Used For Emergency Generator: Yes
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: 2017-09-30 00:00:00
LockOut Flag: No
Comments: Not reported

Tank Compartment:

Tank Compartment PK: 6453
Tank PK: 6453
Compartment No: 1
Compartment Status: Curently in use
Compartment Temp Verified Dt: Not reported
Capacity: 1000
Pipe Installation Dt: 2006-12-22 00:00:00
Pipe System: 2
Pipe Material: 8
Pipe Material Other: Not reported
Pipe Protection: Not reported
Pipe Protection Dt: Not reported
Pipe Double Wall: -1
Substance: Diesel
Substance Other: Not reported
Hazardous Substance: Not reported
Case Number: Not reported
Mixture: 0
Date of Last Use: Not reported
Spill Protection: -1
Tanks Use: -1

Tank Aug 2011:

Facility Id: ST0002616
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

EXCELSIOR SPRINGS C O (Continued)

U001162274

Special Well Area: No
Surface Cap: No
No Excavation: No

Facility Id: ST0002616
Tank Id: 1
Site Usage: Not reported
Risk Type: Not reported
Soil Type: Not reported
GW Flow: Not reported
Offsite Impact: Not reported
Free Product: Not reported
Drinking Water: Not reported
Closed Under: Not reported
No Drinking Wells: No
No Buildings: No
Vapor Barrier: 0
St Louis Mo: No
Special Well Area: No
Surface Cap: No
No Excavation: No

9
NNW
1/8-1/4
0.133 mi.
700 ft.

ROBERT HEDGES PROPERTIES INC
308 N MAIN
EXCELSIOR SPRINGS, MO 64024

UST U001159053
N/A

Relative:
Higher

UST:

Facility ID: ST0001043
Region: KC
Lat/Long: 39.28324 / -94.21867
Lat/Long (dms): Not reported
Easting: 394593.580
Northing: 4355612.37
Method Data Was Obtained: Street Centerline
Accuracy Of Geospatial Data: 8
Owner Of Geospatial Data: Hazardous Waste Program
Amount Of Deviation In Accuracy: Not reported
Deviation In Meters; Feet; Pdrop; Score: Not reported
Geospatial Point Line Area Indicator: Not reported
Geospatial Horizontal Reference Datum: Not reported
Where Geospatial Data Collected On Site: Not reported
Geospatial Source Data Location: Not reported
Geospatial Data Collected By: VANCE, S
Geospatial Elevation Method: Not reported
Geospatial Elevation Reference Datum: Not reported
Date Gis Data Collected: 06/30/2010

Actual:
795 ft.

Tanks:

Owner:

Owner ID: OW00933
Owner Name: ROBERT HEDGES PROPERTIES INC
Owner Address: 308 N MAIN []
Owner City,St,Zip: EXCELSIOR SPRINGS, MO 64024
Owner County Code: 47
Owner Phone: 6373117
Mail Was Not Deliverable: Yes

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ROBERT HEDGES PROPERTIES INC (Continued)

U001159053

Is Owner Active?: No
Date Registration Received: Not reported
Date Record Added: 1995-06-30 00:00:00
Date Record Edited: Not reported
Name of Person Editing Record: Not reported

Tank ID: 1
Tank Double Wall: 0
Tank Type: Below Ground
Tank Status: Permanently Closed in place
Meet 98 Update Requirements: No
Date Tank Installed: Not reported
Tank Material: Not reported
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 Exlrm Protec: Not reported
Tank External Protec Date: Not reported
Date Tank Last Used: 07/01/1984
Date Tank Permanently Closed/ Removed: 07/01/1984
Dt Tk Exp Brought InUse/Internal Tracking: Not reported
Tank Fees Waived: No
Expedite Closure On Tank?: No
Responsible Person Expediting Closure: Not reported
Temporary Status Verified Date: Not reported
Admin Fee 585: Not reported
Date Administratively Closed: Not reported
Date Record Added: 06/30/1995
Date Record Edited: 04/18/1996
Person Adding/Editing Record: Not reported
Date Of NFA Letter: 07/01/1984
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: Not reported
LockOut Flag: No
Comments: Not reported

Tank Compartment:
Tank Compartment PK: 2603
Tank PK: 2603
Compartment No: 1
Compartment Status: Permanently Closed in place
Compartment Temp Verified Dt: Not reported
Capacity: Not reported
Pipe Installation Dt: Not reported
Pipe System: Not reported
Pipe Material: Not reported
Pipe Material Other: Not reported
Pipe Protection: Not reported
Pipe Protection Dt: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ROBERT HEDGES PROPERTIES INC (Continued)

U001159053

Pipe Double Wall: 0
Substance: Other
Substance Other: P.
Hazardous Substance: Not reported
Case Number: Not reported
Mixture: 0
Date of Last Use: 1984-07-01 00:00:00
Spill Protection: 0
Tanks Use: 0

Owner:

Owner ID: OW00933
Owner Name: ROBERT HEDGES PROPERTIES INC
Owner Address: 308 N MAIN []
Owner City,St,Zip: EXCELSIOR SPRINGS, MO 64024
Owner County Code: 47
Owner Phone: 6373117
Mail Was Not Deliverable: Yes
Is Owner Active?: No
Date Registration Received: Not reported
Date Record Added: 1995-06-30 00:00:00
Date Record Edited: Not reported
Name of Person Editing Record: Not reported

Tank ID: 2
Tank Double Wall: 0
Tank Type: Below Ground
Tank Status: Permanently Closed in place
Meet 98 Update Requirements: No
Date Tank Installed: Not reported
Tank Material: Not reported
Code for Tank Material Manufacturer: Not reported
Code for Tank Installer: Not reported
Other Type Of Tank Material: Not reported
Tank Internal Protection: No
Other Tank Internal Protection: Not reported
Tank Internal Protection Date: Not reported
Tank External Protection: Unknown
Other Type Tank Extrn Protec: Not reported
Tank External Protec Date: Not reported
Date Tank Last Used: 07/01/1984
Date Tank Permanently Closed/ Removed: 07/01/1984
Dt Tk Exp Brought InUse/Internal Tracking: Not reported
Tank Fees Waived: No
Expedite Closure On Tank?: No
Responsible Person Expediting Closure: Not reported
Temporary Status Verified Date: Not reported
Admin Fee 585: Not reported
Date Administratively Closed: Not reported
Date Record Added: 06/30/1995
Date Record Edited: 04/18/1996
Person Adding/Editing Record: Not reported
Date Of NFA Letter: 07/01/1984
Is Tank Used For Emergency Generator: No
Date Closure Notice Received: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ROBERT HEDGES PROPERTIES INC (Continued)

U001159053

Date Of Approval Letter: Not reported
Firm Closing Tank: Not reported
Date Closure Report Received: Not reported
Registration End Date: Not reported
LockOut Flag: No
Comments: Not reported

Tank Compartment:
Tank Compartment PK: 2604
Tank PK: 2604
Compartment No: 1
Compartment Status: Permanently Closed in place
Compartment Temp Verified Dt: Not reported
Capacity: Not reported
Pipe Installation Dt: Not reported
Pipe System: Not reported
Pipe Material: Not reported
Pipe Material Other: Not reported
Pipe Protection: Not reported
Pipe Protection Dt: Not reported
Pipe Double Wall: 0
Substance: Other
Substance Other: P.
Hazardous Substance: Not reported
Case Number: Not reported
Mixture: 0
Date of Last Use: 1984-07-01 00:00:00
Spill Protection: 0
Tanks Use: 0

Owner:
Owner ID: OW00933
Owner Name: ROBERT HEDGES PROPERTIES INC
Owner Address: 308 N MAIN []
Owner City,St,Zip: EXCELSIOR SPRINGS, MO 64024
Owner County Code: 47
Owner Phone: 6373117
Mail Was Not Deliverable: Yes
Is Owner Active?: No
Date Registration Received: Not reported
Date Record Added: 1995-06-30 00:00:00
Date Record Edited: Not reported
Name of Person Editing Record: Not reported

Tank ID: 3
Tank Double Wall: 0
Tank Type: Below Ground
Tank Status: Permanently Closed in place
Meet 98 Update Requirements: No
Date Tank Installed: Not reported
Tank Material: Not reported
Code for Tank Material Manufacturer: Not reported
Code for Tank Installer: Not reported
Other Type Of Tank Material: Not reported
Tank Internal Protection: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ROBERT HEDGES PROPERTIES INC (Continued)

U001159053

Other Tank Internal Protection: Not reported
Tank Internal Protection Date: Not reported
Tank External Protection: Unknown
Other Type Tank Extn Protec: Not reported
Tank External Protec Date: Not reported
Date Tank Last Used: 07/01/1984
Date Tank Permanently Closed/ Removed: 07/01/1984
Dt Tk Exp Brought InUse/Internal Tracking: Not reported
Tank Fees Waived: No
Expedite Closure On Tank?: No
Responsible Person Expediting Closure: Not reported
Temporary Status Verified Date: Not reported
Admin Fee 585: Not reported
Date Administratively Closed: Not reported
Date Record Added: 06/30/1995
Date Record Edited: 04/18/1996
Person Adding/Editing Record: Not reported
Date Of NFA Letter: 07/01/1984
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: Not reported
LockOut Flag: No
Comments: Not reported

Tank Compartment:

Tank Compartment PK: 2605
Tank PK: 2605
Compartment No: 1
Compartment Status: Permanently Closed in place
Compartment Temp Verified Dt: Not reported
Capacity: Not reported
Pipe Installation Dt: Not reported
Pipe System: Not reported
Pipe Material: Not reported
Pipe Material Other: Not reported
Pipe Protection: Not reported
Pipe Protection Dt: Not reported
Pipe Double Wall: 0
Substance: Other
Substance Other: P.
Hazardous Substance: Not reported
Case Number: Not reported
Mixture: 0
Date of Last Use: 1984-07-01 00:00:00
Spill Protection: 0
Tanks Use: 0

Tank Aug 2011:

Facility Id: ST0001043
Tank Id: 1
Site Usage: Not reported
Risk Type: Not reported
Soil Type: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ROBERT HEDGES PROPERTIES INC (Continued)

U001159053

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: ST0001043
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: ST0001043
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

10
NW
1/8-1/4
0.146 mi.
771 ft.

EXCELSIOR SPRINGS SERVICE CENTER
405 N MARIETTA
EXCELSIOR SPRINGS, MO 64024

LUST **U001159055**
UST **N/A**

Relative:
Lower

LUST:

Facility ID: ST0013403
Region: KC - Kansas City Regional Office
Lat/Long (dms): Not reported
Spill Number: Not reported
Release Date: 06/19/1997
Release Type: UNKNOWN
Date Cleanup Started: 06/19/1997
Date Cleanup Finished: 10/10/1997
Expedited: No
Expedited Date: Not reported
Expenditures From The American Recovery and Reinvestment Act of 2009: No
Reopened Date: Not reported
Number Of Remediation Monitoring Wells: 0
Active: No
Date Of NFA Letter From DNR: Not reported
Date Record Meets Archive Criteria: Not reported
Remediation ID: R005954
Rank: Not reported
Emergency Response Date: Not reported
Emergency Cleanup Start: Not reported
Referred To DGLS for Investigation: Not reported
Contractor Performing Clean Up: Not reported
RBCA NFA: No
Project Manager: L
Next Correspondence/Update With Fac: Not reported
Date Added: 02/10/1998
Date Record Edited: 04/22/2002
Person Adding Or Editing Record: HUTSON, F
Facility Sent To State Archive: Yes
Date Remediation Unit Closed The File: Not reported
Site Affectd By Funding Level From PSTIF: No
General Comments: Not reported

UST:

Facility ID: ST0013403
Region: KC
Lat/Long: 39.28324 / -94.21867
Lat/Long (dms): Not reported
Easting: 394520.850
Northing: 4355679.25
Method Data Was Obtained: Street Centerline
Accuracy Of Geospatial Data: 8
Owner Of Geospatial Data: Hazardous Waste Program
Amount Of Deviation In Accuracy: Not reported
Deviation In Meters; Feet; Pdrop; Score: Not reported
Geospatial Point Line Area Indicator: Not reported
Geospatial Horizontal Reference Datum: Not reported
Where Geospatial Data Collected On Site: Not reported
Geospatial Source Data Location: Not reported
Geospatial Data Collected By: VANCE, S
Geospatial Elevation Method: Not reported
Geospatial Elevation Reference Datum: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

EXCELSIOR SPRINGS SERVICE CENTER (Continued)

U001159055

Date Gis Data Collected: 06/30/2010

Tanks:

Owner:

Owner ID: OW10394
Owner Name: UNION ELECTRIC CO, D/B/A AMEREN SERVICES
Owner Address: 1901 CHOUTEAU AVE/PO BOX 66149, MC 602
Owner City,St,Zip: ST LOUIS, MO 63166 6149
Owner County Code: Not reported
Owner Phone: 5544581
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: 2011-07-06 00:00:00
Name of Person Editing Record: CORBIN, M

Tank ID: 1
Tank Double Wall: 0
Tank Type: Below Ground
Tank Status: **Removed**
Meet 98 Update Requirements: No
Date Tank Installed: 01/01/1979
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
Tank External Protec Date: Not reported
Date Tank Last Used: 02/28/1996
Date Tank Permanently Closed/ Removed: 06/17/1997
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: 06/15/2007
Person Adding/Editing Record: HANSEN, M
Date Of NFA Letter: 02/10/1998
Is Tank Used For Emergency Generator: No
Date Closure Notice Received: 05/27/1997
Date Of Approval Letter: 1997-06-17 00:00:00
Firm Closing Tank: GEO ENVIRONMENTAL SERVICES INC
Date Closure Report Received: 1997-11-05 00:00:00
Registration End Date: Not reported
LockOut Flag: No
Comments: Not reported

Tank Compartment:

Tank Compartment PK: 34134

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

EXCELSIOR SPRINGS SERVICE CENTER (Continued)

U001159055

Tank PK: 34136
Compartment No: 1
Compartment Status: Removed
Compartment Temp Verified Dt: Not reported
Capacity: 1500
Pipe Installation Dt: Not reported
Pipe System: Not reported
Pipe Material: 1
Pipe Material Other: Not reported
Pipe Protection: Not reported
Pipe Protection Dt: Not reported
Pipe Double Wall: 0
Substance: Gasoline, Including Blends
Substance Other: Not reported
Hazardous Substance: Not reported
Case Number: Not reported
Mixture: 0
Date of Last Use: 1996-02-28 00:00:00
Spill Protection: 0
Tanks Use: 0

Owner:

Owner ID: OW10394
Owner Name: UNION ELECTRIC CO, D/B/A AMEREN SERVICES
Owner Address: 1901 CHOUTEAU AVE/PO BOX 66149, MC 602
Owner City,St,Zip: ST LOUIS, MO 63166 6149
Owner County Code: Not reported
Owner Phone: 5544581
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: 2011-07-06 00:00:00
Name of Person Editing Record: CORBIN, M

Tank ID: 2
Tank Double Wall: 0
Tank Type: Below Ground
Tank Status: Removed
Meet 98 Update Requirements: No
Date Tank Installed: Not reported
Tank Material: Steel
Code for Tank Material Manufacturer: Not reported
Code for Tank Installer: Not reported
Other Type Of Tank Material: Not reported
Tank Internal Protection: No
Other Tank Internal Protection: Not reported
Tank Internal Protection Date: Not reported
Tank External Protection: Unknown
Other Type Tank 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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

EXCELSIOR SPRINGS SERVICE CENTER (Continued)

U001159055

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: 1988-04-01 00:00:00
Date Record Added: 06/30/1995
Date Record Edited: 08/20/2007
Person Adding/Editing Record: LIGHT, K
Date Of NFA Letter: Not reported
Is Tank Used For Emergency Generator: No
Date Closure Notice Received: Not reported
Date Of Approval Letter: Not reported
Firm Closing Tank: Not reported
Date Closure Report Received: Not reported
Registration End Date: Not reported
LockOut Flag: No
Comments: Not reported

Tank Compartment:

Tank Compartment PK: 34135
Tank PK: 34137
Compartment No: 1
Compartment Status: Removed
Compartment Temp Verified Dt: Not reported
Capacity: 1500
Pipe Installation Dt: Not reported
Pipe System: Not reported
Pipe Material: 1
Pipe Material Other: Not reported
Pipe Protection: Not reported
Pipe Protection Dt: Not reported
Pipe Double Wall: 0
Substance: Diesel
Substance Other: Not reported
Hazardous Substance: Not reported
Case Number: Not reported
Mixture: 0
Date of Last Use: Not reported
Spill Protection: 0
Tanks Use: 0

Tank Aug 2011:

Facility Id: ST0013403
Tank Id: 1
Site Usage: Not reported
Risk Type: Not reported
Soil Type: Not reported
GW Flow: Not reported
Offsite Impact: Not reported
Free Product: Not reported
Drinking Water: Not reported
Closed Under: Not reported
No Drinking Wells: No
No Buildings: No
Vapor Barrier: 0
St Louis Mo: No

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

EXCELSIOR SPRINGS SERVICE CENTER (Continued)

U001159055

Special Well Area: No
 Surface Cap: No
 No Excavation: No

 Facility Id: ST0013403
 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

11
West
1/8-1/4
0.151 mi.
796 ft.

BOND CLEANERS
314 W BROADWAY
EXCELSIOR SPRINGS, MO 64024

DRYCLEANERS **S106876227**
N/A

Relative:
Lower

DRYCLEANERS:
 Plant Number: 047-
 DC Number: 00763
 Facility Status: Abandoned
 Facility Contact: Not reported
 Facility Phone: Not reported
 Site NA: False
 Dry Store: False
 DC Plant: True
 Supplier: False
 Chlorinated: False
 Non Chlorinated: False
 Supplier ID: Not reported
 OUID: 3766
 Party ID: 766

Actual:
782 ft.

C12
WNW
1/8-1/4
0.184 mi.
970 ft.

EXCELSIOR SPRINGS FMGP #1
320 W. EXCELSIOR STREET
EXCELSIOR SPRINGS, MO 64024

Manufactured Gas Plants **1008407804**
N/A

Relative:
Lower

Manufactured Gas Plants:
 No additional information available

Actual:
777 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

EDR ID Number
EPA ID Number

Site

Database(s)

C13 EXCELSIOR SPRINGS FMGP #1
WNW 320 W. EXCELSIOR STREET
1/8-1/4 EXCELSIOR SPRINGS, MO 64024
0.184 mi.
970 ft. Site 2 of 3 in cluster C

SHWS S105775588
N/A

Relative:
Lower

Missouri Hazardous Waste:

Actual:
777 ft.

Category Name:
Category Desc:
Site Class:
Owner Name:
Owner Address:
Owner City,St,Zip:
Action Date:
Contamination:

Registry Sites
Sites in this category are currently listed on the Registry.
4
Excelsior Springs Housing Authority
320 W. Excelsior St.
Excelsior Springs, MO 64024
05/06/2003
Coal Tar, PAHs

Classification:
Date of Placement:
Present Property Owner:
Lead Agency:
Address Detail:
Waste Type:

Class 4
May 6, 2003
Excelsior Springs Housing Authority
EPA
Not reported
Coal tar, which contains volatile organic compounds (VOCs) and semi-volatile organic compounds, including polycyclic aromatic hydrocarbons (PAHs)

Quantity:
Site Description:

1,908 tons of contaminate soil.
The Excelsior Springs Former Manufactured Gas Plant (FMGP) occupies about 1 acre in a mixed business/residential area. Department personnel discovered the site after identifying FMGP structures on historic Sanborn Fire Insurance maps dating between 1900 and 1913. The structures depicted include a 12,000 cubic foot capacity gas holder, a 30,000 cubic foot capacity gas holder, purifiers, a retort room and an oil tank. None of the aboveground FMGP structures remain. Currently, the Excelsior Springs Housing Authority operates the Ruey-Anne Apartment building for low-income persons/families. Approximately 70 residents live in the building. Underground FMGP structures are located under the apartment building and immediately north and west of the apartment building. A removal action under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) authority was completed in the winter of 2006. An Environmental Covenant imposing active and use limitations on the site was executed in May 2008.

Env Problems/Areas of Concern:

Surface and subsurface soil was contaminated with coal tar residuals. VOCs and carcinogenic PAHs were present in soil at concentrations exceeding health-based screening levels. One sample contained leachable benzene that exceeded the Toxicity Characteristic Leaching Procedure (TCLP) regulatory limit of 0.5 parts per million making this sample characteristic hazardous waste based on toxicity. PAHs also were detected in sediment of the Dry Fork of Fishing River, however, hazardous substances were not detected in the surface water. Groundwater contamination including BTEX compounds, PAHs, and one or more RCRA heavy metal remains on-site and will be monitored annually. Institutional controls have been put in place to minimize the present and future potential for exposure to contaminated groundwater.

Remedial Action:

The Department of Natural Resources completed a Pre-CERCLIS (Comprehensive Environmental Response, Compensation, and Liability Information System) Site Screening (SS) investigation in March 2000 and a Preliminary Assessment/Removal Site Evaluation (PA/RSE) investigation in September 2000. The investigations documented coal tar residuals in surface and subsurface soil and that PAHs are

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

EXCELSIOR SPRINGS FMGP #1 (Continued)

S105775588

present in the sediment of the Dry Fork of Fishing River. The investigations concluded that the presence of hazardous substances poses a threat to human health and the environment and that a release to surface water is suspected due to the contaminated sediment. A Removal Action under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) authority, further characterization to delineate surface soil contamination, and action to minimize or eliminate exposure to contaminated soil were recommended. The site was referred to the department's Cooperative Program to negotiate an AOC for a non-time-critical removal action with AmerenUE, the responsible party, in April 2001. AmerenUE submitted a Site Evaluation Workplan in March 2002 and performed the Site Evaluation in October 2002 without any state or federal oversight or approval of the workplan, due to failure to negotiate a mutually agreeable AOC. Because the negotiations failed, the department referred the site to the U.S. Environmental Protection Agency (EPA) for enforcement action under CERCLA. Both the EPA and the department provided comments on all past data and work conducted without approval, along with a Risk Assessment for Residents and Employees Exposed to the Surface Soils at the Ruey- Anne Apartment building. AmerenUE has completed characterization, including sampling on-site monitoring wells, indoor-air sampling, and off-site investigation, and plans to begin Removal activities in 2005. AMEREN completed sampling in the summer of 2004. In July 2005, AmerenUE submitted a draft Engineering Evaluation/Cost Analysis (EE/CA), which included a workplan for remediating the site. The revised final EE/CA was approved by EPA in the fall of 2005. On January 18, 2006, the EPA signed an Administrative Settlement Agreement and Order on Consent for Removal Action (AOC) at the Excelsior Springs FMGP site. Removal action activities at the site were completed during February 2006. A total of approximately 1900 tons of soil and source material were excavated and removed from the site, from the area around the eastern gas holder, western gas holder and a relatively small isolated area north of the western gas holder. Clean backfill was placed in each excavation area. Because much of the footprint of the eastern gas holder lay under a walkway extending from the Ruey-Anne Apartment building, impacted soil columns beneath each piling were necessarily left in place. Surface restoration was conducted in April and May 2006. AmerenUE prepared a post-removal action Human Health Risk Assessment in the spring of 2006. Due to contamination remaining in place, the City of Excelsior Springs was required by city ordinance to enter into a Memorandum of Understanding (MOU) with the department to ensure that appropriate institutional controls are in place that restrict the use of groundwater for a potable drinking water supply. The EPA developed a restrictive covenant for the site to address contaminated soil left in place after the removal action. The restrictive covenant satisfies the requirements of the Missouri Uniform Environmental Covenants Act, and restricts the use of groundwater and soil excavation in specified areas at the Excelsior Springs FMGP site. The department is the grantee in the restrictive covenant. Both the MOU and the Restrictive Covenant were in place in the spring of 2008. The Removal Action Completion Report was approved in February 2009. EPA sent a Notice of Completion to AmerenUE in March 2009.

General Geologic/Hydrologic Setting:

The site is located within the Dissected Till Plain section of the Central Lowlands physiographic province. Topography in this region consists of moderately dissected plains. The region consists of

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number
EPA ID Number

EXCELSIOR SPRINGS FMGP #1 (Continued)

S105775588

Quaternary alluvium and glacial material deposited over Pennsylvanian-age sedimentary rock. Unconsolidated deposits at this site consist of 3 to 6 feet of fill over silty to sandy clay interbedded with clay and gravelly clay alluvium developed from the Dry Fork of the Fishing River. The uppermost bedrock, the Pennsylvanian-age Pleasanton Group, is composed of interbedded shale and limestone. This bedrock unit ranges from 6 to 36 feet, slopes to the northwest, and has an average thickness of approximately 60 feet. An unconfined water-bearing zone is present within the unconsolidated overburden materials, with flow direction to the southwest. The depth to groundwater ranges from 5 to 8 feet below ground surface. The uppermost bedrock aquifer is hosted in sandstones of the Pleasanton Group. Municipal drinking water for the city of Excelsior Springs is obtained from public water-supply wells from the Pennsylvanian-aged sediments of the Pleasanton, Marmanton and Cherokee groups, and Ordovician-aged sandstone of the St. Peter Sandstone.

Public Drinking Water Advisory: The city of Excelsior Springs receives its drinking water from alluvial wells 5 miles south of the city. The public water supply is not affected by this site. The Hall of Waters bottles water from the on-site spring in downtown Excelsior Springs. This bottled water is not regulated or tested by the Public Drinking Water Program (PDWP). The PDWP has no specific information that indicates local springs are impacted by the site. In general, spring water is considered to be susceptible to shallow groundwater contamination. Excelsior Springs markets its bottled water to the public as having health benefits, and the city relies on the image of its springs to draw tourism.

Health Assessment: The following are the major contaminants of concern found in soil, sediment or shallow groundwater at the site: benzene, naphthalene, toluene, xylene, arsenic, mercury, selenium, silver, cyanide, cadmium, chromium, barium, and 16 chemicals collectively grouped into the polycyclic aromatic hydrocarbons (PAHs). Among those PAHs found are potential human carcinogens including benz(a)anthracene, benzo(b)fluoranthene, benzo(l)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, and indeno (1,2,3-c,d)pyrene. Please refer to the Health Assessment Chemical Table in Appendix A for a description of the potential health effects associated with these contaminants. The Department of Health and Senior Services (DHSS) conducted a health investigation in 2000 to determine the potential health risks associated with the site. The potential exposure pathways on and off the site are dermal contact, incidental ingestion, and inhalation of metals, polycyclic aromatic hydrocarbons (PAHs) and volatile organic compounds found in oil. Between 2000 and 2005, AMEREN UE conducted a site investigation to determine the potential risk of exposure to on- and offsite groundwater, and surface water and sediment in the Dry Fork of the Fishing River. Potential risk to human health associated with exposure to soil prompted soil removal. According to a Human Health Risk Assessment (HHRA), dated May 2006, risk associated with exposure to contaminants in soil for residents and workers after the remediation are within the Environmental Protection Agency's (EPA) acceptable cancer and non-cancer risk ranges. This includes risk associated with contaminant vapors migrating from soil into the Ruey-Anne Apartments. Risk for domestic use of shallow groundwater was not estimated for on-site future residents or workers or for adjoining properties. Only risk associated with future construction was estimated to be within EPA's acceptable risk range. Human consumption of groundwater is being prohibited on the property through groundwater use restrictions placed on the property deed. For

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number
EPA ID Number

EXCELSIOR SPRINGS FMGP #1 (Continued)

S105775588

off-site groundwater contamination south of the property, similar restrictions are being sought. Based on available information, risk associated with exposure to soils, sediment, and surface water is within EPA's acceptable limits. On- and off-site groundwater use restrictions will minimize potential risk associated with contaminants in the groundwater. For more information regarding health-related issues, please contact the Missouri Department of Health and Senior Services, P.O. Box 570, Jefferson City, MO 65102, (573) 751-6102.

C14 EXCELSIOR SPRINGS FMGP
WNW 320 W. EXCELSIOR ST.
1/8-1/4 EXCELSIOR SPRINGS, MO 64024
0.184 mi.
970 ft. Site 3 of 3 In cluster C

CERCLIS 1003073166
FINDS MON000703573
PRP

Relative: CERCLIS:
Lower Site ID: 0703573
EPA ID: MON000703573
Actual: Facility County: CLAY
777 ft. Short Name: EXCELSIOR SPRINGS FMGP
Congressional District: 06
IFMS ID: A73P
SMSA Number: Not reported
USGC Hydro Unit: Not reported
Federal Facility: Not a Federal Facility
DMNSN Number: 2.00000
Site Orphan Flag: Not reported
RCRA ID: Not reported
USGS Quadrangle: Not reported
Site Init By Prog: S
NFRAP Flag: Not reported
Parent ID: Not reported
RST Code: Not reported
EPA Region: 07
Classification: Manufacturing Plant
Site Settings Code: Not reported
NPL Status: Not on the NPL
DMNSN Unit Code: ACRE
RBRAC Code: Not reported
RResp Fed Agency Code: Not reported
Non NPL Status: Referred to Removal - NFRAP
Non NPL Status Date: 20030114
Site Fips Code: 29047
CC Concurrence Date: Not reported
CC Concurrence FY: Not reported
Alias EPA ID: Not reported
Site FUDS Flag: Not reported

CERCLIS Site Contact Name(s):

Contact ID: 7271735.00000
Contact Name: FRITZ X-HIRTER
Contact Tel: (913) 551-7130
Contact Title: Community Involvement Coordinator
Contact Email: Not reported

Contact ID: 7271748.00000
Contact Name: PAUL DOHERTY

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number
EPA ID Number

EXCELSIOR SPRINGS FMGP (Continued)

1003073166

Contact Tel: (913) 551-7924
Contact Title: On-Scene Coordinator (OSC)
Contact Email: Not reported

CERCLIS Site Alias Name(s):

Alias ID: 101
Alias Name: RUEY-ANNE APARTMENTS
Alias Address: Not reported
EXCELSIOR SPRINGS, MO
Alias ID: 102
Alias Name: EXCELSIOR SPRINGS
Alias Address: 320 W. EXCELSIOR ST.
EXCELSIOR SPRINGS, MO 64024
Alias ID: 103
Alias Name: EXCELSIOR SPRINGS FMGP
Alias Address: 320 W. EXCELSIOR ST.
EXCELSIOR SPRINGS, MO 64024
Alias ID: 104
Alias Name: EXCELSIOR SPRINGS LIGHT & POWER
Alias Address: Not reported
Not reported
Alias ID: 105
Alias Name: EXCESIOR SPRINGS FMPG #1
Alias Address: Not reported
Not reported
Alias ID: 104
Alias ID: 105
Alias Comments: Not reported
Site Description: FORMER MANUFACTURING GAS PLANT WITH NO ABOVE GROUND STRUCTURES.

CERCLIS Assessment History:

Action Code: 001
Action: PRE-CERCLIS SCREENING
Date Started: 10/01/1999
Date Completed: 11/01/1999
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: State, Fund Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

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

Action Code: 001
Action: DISCOVERY
Date Started: Not reported
Date Completed: 11/01/1999
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: State, Fund Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

EXCELSIOR SPRINGS FMGP (Continued)

1003073166

Action Code: 001
Action: PRELIMINARY ASSESSMENT
Date Started: 01/15/2000
Date Completed: 10/30/2000
Priority Level: Referred to Removal, no further Rmdl Asmt
Operable Unit: SITEWIDE
Primary Responsibility: State, Fund Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

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

Action Code: 001
Action: INTEGRATED ASSESSMENT
Date Started: 01/15/2000
Date Completed: 10/30/2000
Priority Level: Referred to Removal, no further Rmdl Asmt
Operable Unit: SITEWIDE
Primary Responsibility: State, Fund Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

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

Action Code: 001
Action: REMOVAL ASSESSMENT
Date Started: 01/15/2000
Date Completed: 10/30/2000
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: State, Fund Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

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

Action Code: 001
Action: ADMINISTRATIVE ORDER ON CONSENT
Date Started: Not reported
Date Completed: 09/10/2003
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

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

Action Code: 001
Action: NEGOTIATION (GENERIC)
Date Started: 07/09/2003

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number
EPA ID Number

EXCELSIOR SPRINGS FMGP (Continued)

1003073166

Date Completed: 09/10/2003
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

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

Action Code: 001
Action: ENGINEERING EVALUATION/COST ANALYSIS
Date Started: 08/06/2003
Date Completed: 12/22/2005
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Responsible Party
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

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

Action Code: 002
Action: NEGOTIATION (GENERIC)
Date Started: 11/16/2005
Date Completed: 01/18/2006
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

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

Action Code: 002
Action: ADMINISTRATIVE ORDER ON CONSENT
Date Started: Not reported
Date Completed: 01/18/2006
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

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

Action Code: 001
Action: POTENTIALLY RESPONSIBLE PARTY REMOVAL
Date Started: 01/18/2006
Date Completed: 05/02/2008
Priority Level: Cleaned up
Operable Unit: SITEWIDE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

EXCELSIOR SPRINGS FMGP (Continued)

1003073166

Primary Responsibility: Responsible Party
Planning Status: Primary
Urgency Indicator: Time Critical
Action Anomaly: Not reported

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

Action Code: 001
Action: COMMUNITY INVOLVEMENT
Date Started: 10/04/2005
Date Completed: 06/30/2008
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA In-House
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

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

Action Code: 001
Action: STATE SUPPORT AGENCY COOPERATIVE AGREEMENT
Date Started: 04/01/2007
Date Completed: 03/31/2009
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

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

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

FINDS:

Registry ID: 110009294888

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.

CERCLIS (Comprehensive Environmental Response, Compensation, and Liability Information System) is the Superfund database that is used to support management in all phases of the Superfund program. The

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

EXCELSIOR SPRINGS FMGP (Continued)

1003073166

system contains information on all aspects of hazardous waste sites, including an inventory of sites, planned and actual site activities, and financial information.

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and its Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

PRP:

PRP name: UNION ELECTRIC CO
UNION ELECTRIC CO

15
WSW
1/8-1/4
0.187 mi.
987 ft.

UNITED AUTO SVC & MARINE
402 SOUTH ST
EXCELSIOR SPRINGS, MO 64024

RCRA-CESQG 1000399088
FINDS MOD098474885

Relative:
Lower

RCRA-CESQG:

Date form received by agency: 01/17/2003
Facility name: UNITED AUTO SVC & MARINE
Facility address: 402 SOUTH ST
EXCELSIOR SPRINGS, MO 64024
EPA ID: MOD098474885
Mailing address: SOUTH ST
EXCELSIOR SPRINGS, MO 64024
Contact: JOHN JACKSON
Contact address: 402 SOUTH ST
EXCELSIOR SPRINGS, MO 64024
Contact country: US
Contact telephone: (816) 637-5411
Contact email: Not reported
EPA Region: 07
Land type: Private
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

Actual:
763 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNITED AUTO SVC & MARINE (Continued)

1000399088

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: JOHN JACKSON
Owner/operator address: CAVE LN
EXCELSIOR SPRINGS, MO 64024
Owner/operator country: Not reported
Owner/operator telephone: (816) 637-2506
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/17/2003
Owner/Op end date: Not reported

Owner/operator name: RON MORSE
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/0001
Owner/Op end date: Not reported

Owner/operator name: JOHN JACKSON
Owner/operator address: CAVE LN
EXCELSIOR SPRINGS, MO 64024
Owner/operator country: Not reported
Owner/operator telephone: (816) 637-2506
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/17/2003
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
Used 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: 09/05/1986
Facility name: UNITED AUTO SVC & MARINE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNITED AUTO SVC & MARINE (Continued)

1000399088

Classification: Small Quantity Generator

Facility Has Received Notices of Violations:

Regulation violated: SR - F04
Area of violation: Generators - General
Date violation determined: 01/08/2003
Date achieved compliance: 01/08/2003
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - F07
Area of violation: Generators - General
Date violation determined: 01/08/2003
Date achieved compliance: 01/08/2003
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 01/08/2003
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 01/08/2003
Evaluation lead agency: State

FINDS:

Registry ID: 110003950298

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.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number
EPA ID Number

16 WILSON TIRE & ALIGNMENT CENTER
SW 401 ST LOUIS AVE
1/4-1/2 EXCELSIOR SPRINGS, MO 64024
0.305 mi.
1609 ft.

LUST U003164731
UST N/A

Relative:
Higher

LUST:

Actual:
784 ft.

Facility ID: ST0009399
Region: KC - Kansas City Regional Office
Lat/Long (dms): Not reported
Spill Number: Not reported
Release Date: 02/01/1999
Release Type: UNDERGROUND STORAGE TANK
Date Cleanup Started: 01/25/2001
Date Cleanup Finished: Not reported
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: 3
Active: Yes
Date Of NFA Letter From DNR: Not reported
Date Record Meets Archive Criteria: Not reported
Remediation ID: R006378
Rank: 40
Emergency Response Date: Not reported
Emergency Cleanup Start: Not reported
Referred To DGLS for Investigation: Not reported
Contractor Performing Clean Up: 271
RBCA NFA: No
Project Manager: H
Next Correspondence/Update With Fac: Not reported
Date Added: 04/27/1999
Date Record Edited: 05/04/2012
Person Adding Or Editing Record: HENRY, VINCE
Facility Sent To State Archive: No
Date Remediation Unit Closed The File: Not reported
Site Affectd By Funding Level From PSTIF: No
General Comments: 4/27/99 MHL Cont found during closure. 7/27/99 HRM Reviewed subsurface investigation workplan. Advised RP to sample GW if any was encountered and submit analyses with rpt. 11/01/99 HRM Reviewed limited SA rpt. Requested addtl SC, south of old tank pit. 12/14/99 HRM Received response and another copy of original SC. Approved new work plan for 5 borings. 02/28/00 HRM Reviewed rpt re: site investigation. Requested work plan to define contamination. 06/30/00 HRM Reviewed request for closure. Requested addresses for off site access and continued remediation. 09/13/00 HRM Reviewed work plan from Innovative Solutions. Denied plan. Asked for new plan with soil borings combined with HVE. 01/25/01 HRM Reviewed work plan for 4 additional soil borings combined with HVE. Approved plan w/mods. 2 additional borings not to be completed till after three HVE visits. 6/5/01 TH reviewed sc report. Need additional SC of groundwater. 01/12/02 kk rev file. Sent letter Req SC of gw and soil 2/4/02 TH reviewed workplan, provide workplan for SC with gwm rpt. 6/4/02 TH reviewed gwm report. 8/6/02 TH reviewed CA workplan 3-3-03; LJB, rww'd GWM & vac extraction (VE) rpt, wells C-2 & BB-5, no FP, only these 2 wells hot, agree we recommend of another

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)
EDR ID Number
EPA ID Number

WILSON TIRE & ALIGNMENT CENTER (Continued)

U003164731

rd of GWM to evaluate effectiveness of
VE.

12-2-03; LJB, rww'd GWM rpt (no VE rpt or evaluation), C-2 & BB-5 s
till above CLs, sent std RBCA ltr w/ Chap. 7 and requested WP to move
site forward, 60
days.

10-8-04; LJB, rww'd WP for 1 GWM event followed by RBCA. Approved

3-23-05; LJB, reviewed GWM report. Some contaminants above DTLs, b
ut would be below Tier 1 levels as long as trend doesn't reverse.
Also received proposal for 3 more qtrs of GWM,
approved 6/27/05 kk rev gwmr dated 4/11/05. Gw cont in BB-5, C-2.
Look forward to next
report.

10/01/05 kk rev gwmr dated 8/9/05. Analytical data contained in t
he report indicates that petroleum contamination exceeds the
department's cleanup criteria in groundwater at BB-5 and C-2. This
is the second of three groundwater sampling events as approved in the
department's letter dated March 24, 2005. A tier 1 evaluation will
be conducted following the completion of the third groundwater
monitoring
event.

03/29/06 - Reviewed GWM report. Report was only data and summary
of sampling. Requested more information, drawings, evaluation of
trends, and sign and seal. -

LL 07-28-06 ML Called Mark Schultze regarding silling of MW C-1.
All wells are 1" and not within guidelines. A quarterly monitoring
report was reviewed. Reply included the need to analyze naphthalene,
begin Tier 1, and pH and temp. data when collecting C-1
data.

9/21/06 ML- Reviewed groundwater monitoring. Agreed with recomme
ndations to submit further GW monitoring data that has already been
conducted (problems with PSTIF payments for groundwater monitoring
reports). Also, a Tier1,2 and plume dynamics report should be
submitted 4-19-07 ML- Reviewed a groundwater monitoring report. P
lume not stable and site has done GWM for 5 years. Requested a risk
management
plan.

08/20/07 ML- Property owner, Dallas Wilson, called to see when th
is site will be cleaned-up. He would like to retire and would like
to sell the land. I explained that this site has issues with the GW
containing high levels of COCs. Explained that a corrective action
plan was requested in April. He will contact his consultant to see
what is going
on.

4/17/09-VH- Reviewed Tier 1 and addendum, requested variance regar
ding one inch GWM wells and recommended the need for additional
delineation of subsurface soil contamination. An in-depth review of
the RA is pending the results of the activities discussed within this
comment.

10/8/09 - JH - Review RtoC. Variance documentation submitted as r
equested. Site still not delineated with respect to soil type 1 Res
RBTls in soil and groundwater. Reiterate request for addl SC. Draft
letter.

4-29-11-vh-Rev'd WP for GWM, approved GWM (one event) and continue
d to recommend the need for additional activities to complete
delineation.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

7-ELEVEN - FORMER (Continued)

U001159060

Owner Name: 7-ELEVEN, INC.
Owner Address: PO BOX 711
Owner City,St,Zip: DALLAS, TX 75221 0711
Owner County Code: 59
Owner Phone: 6081136
Mail Was Not Deliverable: No
Is Owner Active?: Yes
Date Registration Received: 2001-03-19 00:00:00
Date Record Added: 1995-06-30 00:00:00
Date Record Edited: 2012-04-11 00:00:00
Name of Person Editing Record: KIRCHNER, M

Tank ID: 3
Tank Double Wall: 0
Tank Type: Below Ground
Tank Status: Removed
Meet 98 Update Requirements: No
Date Tank Installed: 07/13/1987
Tank Material: Fiberglass
Code for Tank Material Manufacturer: Not reported
Code for Tank Installer: Not reported
Other Type Of Tank Material: Not reported
Tank Internal Protection: No
Other Tank Internal Protection: Not reported
Tank Internal Protection Date: Not reported
Tank External Protection: Not reported
Other Type Tank Extn Protec: Not reported
Tank External Protec Date: Not reported
Date Tank Last Used: 04/22/1992
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: Not reported
Date Record Edited: 01/09/1998
Person Adding/Editing Record: N\$WILDW
Date Of NFA Letter: 05/01/1993
Is Tank Used For Emergency Generator: No
Date Closure Notice Received: 04/01/1993
Date Of Approval Letter: Not reported
Firm Closing Tank: GROUNDWATER TECHNOLOGY
Date Closure Report Received: 1993-06-21 00:00:00
Registration End Date: Not reported
LockOut Flag: No
Comments: This is a remediation unit file. There does not appear to be a written response to the closure in the files. FJH 10/9/98

Tank Compartment:
Tank Compartment PK: 33093
Tank PK: 33094
Compartment No: 1
Compartment Status: Removed
Compartment Temp Verified Dt: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

7-ELEVEN - FORMER (Continued)

U001159060

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: 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: 06/01/1986
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: Not reported
Date Record Edited: 01/09/1998
Person Adding/Editing Record: N\$WILDW
Date Of NFA Letter: 06/01/1986
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: Not reported
LockOut Flag: No
Comments: Not reported

Tank Compartment:

Tank Compartment PK: 33092
Tank PK: 33093
Compartment No: 1
Compartment Status: Removed
Compartment Temp Verified Dt: Not reported
Capacity: 8000
Pipe Installation Dt: Not reported
Pipe System: Not reported
Pipe Material: 3
Pipe Material Other: Not reported
Pipe Protection: Not reported
Pipe Protection Dt: Not reported
Pipe Double Wall: 0
Substance: Gasoline, Including Blends
Substance Other: Not reported
Hazardous Substance: Not reported
Case Number: Not reported
Mixture: 0
Date of Last Use: Not reported
Spill Protection: 0
Tanks Use: 0

Owner:

Owner ID: OW10452

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

7-ELEVEN - FORMER (Continued)

U001159060

Person Adding/Editing Record: N\$WILDW
Date Of NFA Letter: 06/01/1986
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: Not reported
LockOut Flag: No
Comments: Not reported

Tank Compartment:
Tank Compartment PK: 33091
Tank PK: 33092
Compartment No: 1
Compartment Status: Removed
Compartment Temp Verified Dt: Not reported
Capacity: 8000
Pipe Installation Dt: Not reported
Pipe System: Not reported
Pipe Material: 3
Pipe Material Other: Not reported
Pipe Protection: Not reported
Pipe Protection Dt: Not reported
Pipe Double Wall: 0
Substance: Gasoline, Including Blends
Substance Other: Not reported
Hazardous Substance: Not reported
Case Number: Not reported
Mixture: 0
Date of Last Use: Not reported
Spill Protection: 0
Tanks Use: 0

Owner:
Owner ID: OW10452
Owner Name: 7-ELEVEN, INC.
Owner Address: PO BOX 711
Owner City,St,Zip: DALLAS, TX 75221 0711
Owner County Code: 59
Owner Phone: 6081136
Mail Was Not Deliverable: No
Is Owner Active?: Yes
Date Registration Received: 2001-03-19 00:00:00
Date Record Added: 1995-06-30 00:00:00
Date Record Edited: 2012-04-11 00:00:00
Name of Person Editing Record: KIRCHNER, M

Tank ID: 2
Tank Double Wall: 0
Tank Type: Below Ground
Tank Status: Removed
Meet 98 Update Requirements: No
Date Tank Installed: 04/15/1976
Tank Material: Steel

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

7-ELEVEN - FORMER (Continued)

U001159060

Method Data Was Obtained: Street Centerline
Accuracy Of Geospatial Data: 8
Owner Of Geospatial Data: Hazardous Waste Program
Amount Of Deviation In Accuracy: Not reported
Deviation In Meters; Feet; Pdrop; Score: Not reported
Geospatial Point Line Area Indicator: Not reported
Geospatial Horizontal Reference Datum: Not reported
Where Geospatial Data Collected On Site: Not reported
Geospatial Source Data Location: Not reported
Geospatial Data Collected By: VANCE, S
Geospatial Elevation Method: Not reported
Geospatial Elevation Reference Datum: Not reported
Date Gis Data Collected: 06/30/2010

Tanks:

Owner:

Owner ID: OW10452
Owner Name: 7-ELEVEN, INC.
Owner Address: PO BOX 711
Owner City,St,Zip: DALLAS, TX 75221 0711
Owner County Code: 59
Owner Phone: 6081136
Mail Was Not Deliverable: No
Is Owner Active?: Yes
Date Registration Received: 2001-03-19 00:00:00
Date Record Added: 1995-06-30 00:00:00
Date Record Edited: 2012-04-11 00:00:00
Name of Person Editing Record: KIRCHNER, M

Tank ID: 1
Tank Double Wall: 0
Tank Type: Below Ground
Tank Status: Removed
Meet 98 Update Requirements: No
Date Tank Installed: 04/15/1976
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: 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: 06/01/1986
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: Not reported
Date Record Edited: 01/09/1998

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number
EPA ID Number

WILSON TIRE & ALIGNMENT CENTER (Continued)

U003164731

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

17 7-ELEVEN - FORMER
SW 500 ST LOUIS AVE
1/4-1/2 EXCELSIOR SPRINGS, MO 64024
0.342 mi.
1805 ft.

LUST U001159060
UST N/A

Relative:
Higher

Actual:
787 ft.

LUST:
Facility ID: ST0013048
Region: KC - Kansas City Regional Office
Lat/Long (dms): 39 20 21 / 94 13 39
Spill Number: 940516-1120-BJA
Release Date: 05/02/1992
Release Type: UNDERGROUND STORAGE TANK
Date Cleanup Started: 11/13/1990
Date Cleanup Finished: 11/17/1994
Expedited: No
Expedited Date: Not reported
Expenditures From The American Recovery and Reinvestment Act of 2009: No
Reopened Date: Not reported
Number Of Remediation Monitoring Wells: 0
Active: No
Date Of NFA Letter From DNR: Not reported
Date Record Meets Archive Criteria: Not reported
Remediation ID: R003195
Rank: Not reported
Emergency Response Date: 04/28/1992
Emergency Cleanup Start: Not reported
Referred To DGLS for Investigation: Not reported
Contractor Performing Clean Up: Not reported
RBCA NFA: No
Project Manager: L
Next Correspondence/Update With Fac: Not reported
Date Added: 06/30/1995
Date Record Edited: 05/19/1999
Person Adding Or Editing Record: NREQHW-MUKHH
Facility Sent To State Archive: Yes
Date Remediation Unit Closed The File: Not reported
Site Affectd By Funding Level From PSTIF: No
General Comments: 4/1/99 JP closed site because contamination is due to R1546.

UST:

Facility ID: ST0013048
Region: KC
Lat/Long: 39.28324 / -94.21867
Lat/Long (dms): 39 20 21 / 94 13 39
Easting: 394165.489
Northing: 4355140.02

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WILSON TIRE & ALIGNMENT CENTER (Continued)

U003164731

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: ST0009399
Tank Id: 1
Site Usage: Not reported
Risk Type: Not reported
Soil Type: Not reported
GW Flow: Not reported
Offsite Impact: Not reported
Free Product: Not reported
Drinking Water: Not reported
Closed Under: Not reported
No Drinking Wells: No
No Buildings: No
Vapor Barrier: 0
St Louis Mo: No
Special Well Area: No
Surface Cap: No
No Excavation: No

Facility Id: ST0009399
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: ST0009399
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WILSON TIRE & ALIGNMENT CENTER (Continued)

U003164731

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: 01/01/1976
Date Tank Permanently Closed/ Removed: 12/31/1998
Dt Tk Exp Brought InUse/Internal Tracking: Not reported
Tank Fees Waived: No
Expedite Closure On Tank?: No
Responsible Person Expediting Closure: Not reported
Temporary Status Verified Date: Not reported
Admin Fee 585: Not reported
Date Administratively Closed: Not reported
Date Record Added: 06/30/1995
Date Record Edited: 04/27/1999
Person Adding/Editing Record: NREQHW-LENOM
Date Of NFA Letter: 12/31/1998
Is Tank Used For Emergency Generator: No
Date Closure Notice Received: 11/18/1998
Date Of Approval Letter: 1998-12-31 00:00:00
Firm Closing Tank: PETROLEUM EQUIPMENT
Date Closure Report Received: 1999-03-26 00:00:00
Registration End Date: Not reported
LockOut Flag: No
Comments: Not reported

Tank Compartment:

Tank Compartment PK: 23190
Tank PK: 23190
Compartment No: 1
Compartment Status: Removed
Compartment Temp Verified Dt: Not reported
Capacity: 500
Pipe Installation Dt: Not reported
Pipe System: 4
Pipe Material: Not reported
Pipe Material Other: Not reported
Pipe Protection: Not reported
Pipe Protection Dt: Not reported
Pipe Double Wall: 0
Substance: Used Oil
Substance Other: Not reported
Hazardous Substance: Not reported
Case Number: Not reported
Mixture: 0
Date of Last Use: 1976-01-01 00:00:00
Spill Protection: 0
Tanks Use: 0

Tank Aug 2011:

Facility Id: ST0009399
Tank Id: 2
Site Usage: Not reported
Risk Type: Not reported
Soil Type: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WILSON TIRE & ALIGNMENT CENTER (Continued)

U003164731

Date Of Approval Letter: 1998-12-31 00:00:00
Firm Closing Tank: PETROLEUM EQUIPMENT
Date Closure Report Received: 1999-03-26 00:00:00
Registration End Date: Not reported
LockOut Flag: No
Comments: Not reported

Tank Compartment:

Tank Compartment PK: 23189
Tank PK: 23189
Compartment No: 1
Compartment Status: Removed
Compartment Temp Verified Dt: Not reported
Capacity: 2000
Pipe Installation Dt: Not reported
Pipe System: Not reported
Pipe Material: Not reported
Pipe Material Other: Not reported
Pipe Protection: Not reported
Pipe Protection Dt: Not reported
Pipe Double Wall: 0
Substance: Gasoline, Including Blends
Substance Other: Not reported
Hazardous Substance: Not reported
Case Number: Not reported
Mixture: 0
Date of Last Use: 1976-01-01 00:00:00
Spill Protection: 0
Tanks Use: 0

Owner:

Owner ID: OW06683
Owner Name: DALLAS W & MARY WILSON
Owner Address: 1104 ST PAUL
Owner City,St,Zip: EXCELSIOR SPRINGS, MO 64024
Owner County Code: 47
Owner Phone: 6372886
Mail Was Not Deliverable: No
Is Owner Active?: No
Date Registration Received: Not reported
Date Record Added: 1995-06-30 00:00:00
Date Record Edited: 1999-03-25 00:00:00
Name of Person Editing Record: NREQHW-FASTT

Tank ID: 4
Tank Double Wall: 0
Tank Type: Below Ground
Tank Status: Removed
Meet 98 Update Requirements: No
Date Tank Installed: Not reported
Tank Material: Not reported
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WILSON TIRE & ALIGNMENT CENTER (Continued)

U003164731

Pipe Double Wall: 0
Substance: Gasoline, Including Blends
Substance Other: Not reported
Hazardous Substance: Not reported
Case Number: Not reported
Mixture: 0
Date of Last Use: 1976-01-01 00:00:00
Spill Protection: 0
Tanks Use: 0

Owner:

Owner ID: OW06683
Owner Name: DALLAS W & MARY WILSON
Owner Address: 1104 ST PAUL
Owner City,St,Zip: EXCELSIOR SPRINGS, MO 64024
Owner County Code: 47
Owner Phone: 6372886
Mail Was Not Deliverable: No
Is Owner Active?: No
Date Registration Received: Not reported
Date Record Added: 1995-06-30 00:00:00
Date Record Edited: 1999-03-25 00:00:00
Name of Person Editing Record: NREQHW-FASTT

Tank ID: 3
Tank Double Wall: 0
Tank Type: Below Ground
Tank Status: Removed
Meet 98 Update Requirements: No
Date Tank Installed: Not reported
Tank Material: Not reported
Code for Tank Material Manufacturer: Not reported
Code for Tank Installer: Not reported
Other Type Of Tank Material: Not reported
Tank Internal Protection: Not reported
Other Tank Internal Protection: Not reported
Tank Internal Protection Date: Not reported
Tank External Protection: Not reported
Other Type Tank Extrn Protec: Not reported
Tank External Protec Date: Not reported
Date Tank Last Used: 01/01/1976
Date Tank Permanently Closed/ Removed: 12/31/1998
Dt Tk Exp Brought InUse/Internal Tracking: Not reported
Tank Fees Waived: No
Expedite Closure On Tank?: No
Responsible Person Expediting Closure: Not reported
Temporary Status Verified Date: Not reported
Admin Fee 585: Not reported
Date Administratively Closed: Not reported
Date Record Added: 06/30/1995
Date Record Edited: 04/27/1999
Person Adding/Editing Record: NREQHW-LENOM
Date Of NFA Letter: 12/31/1998
Is Tank Used For Emergency Generator: No
Date Closure Notice Received: 11/18/1998

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number
EPA ID Number

WILSON TIRE & ALIGNMENT CENTER (Continued)

U003164731

Is Owner Active?: No
Date Registration Received: Not reported
Date Record Added: 1995-06-30 00:00:00
Date Record Edited: 1999-03-25 00:00:00
Name of Person Editing Record: NREQHW-FASTT

Tank ID: 2
Tank Double Wall: 0
Tank Type: Below Ground
Tank Status: Removed
Meet 98 Update Requirements: No
Date Tank Installed: Not reported
Tank Material: Not reported
Code for Tank Material Manufacturer: Not reported
Code for Tank Installer: Not reported
Other Type Of Tank Material: Not reported
Tank Internal Protection: Not reported
Other Tank Internal Protection: Not reported
Tank Internal Protection Date: Not reported
Tank External Protection: Not reported
Other Type Tank Extrn Protec: Not reported
Tank External Protec Date: Not reported
Date Tank Last Used: 01/01/1976
Date Tank Permanently Closed/ Removed: 12/31/1998

Dt Tk Exp Brought InUse/Internal Tracking: Not reported
Tank Fees Waived: No
Expedite Closure On Tank?: No
Responsible Person Expediting Closure: Not reported
Temporary Status Verified Date: Not reported
Admin Fee 585: Not reported
Date Administratively Closed: Not reported
Date Record Added: 06/30/1995
Date Record Edited: 04/27/1999
Person Adding/Editing Record: NREQHW-LENOM
Date Of NFA Letter: 12/31/1998
Is Tank Used For Emergency Generator: No
Date Closure Notice Received: 11/18/1998
Date Of Approval Letter: 1998-12-31 00:00:00
Firm Closing Tank: PETROLEUM EQUIPMENT
Date Closure Report Received: 1999-03-26 00:00:00
Registration End Date: Not reported
LockOut Flag: No
Comments: Not reported

Tank Compartment:

Tank Compartment PK: 23188
Tank PK: 23188
Compartment No: 1
Compartment Status: Removed
Compartment Temp Verified Dt: Not reported
Capacity: 3000
Pipe Installation Dt: Not reported
Pipe System: Not reported
Pipe Material: Not reported
Pipe Material Other: Not reported
Pipe Protection: Not reported
Pipe Protection Dt: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WILSON TIRE & ALIGNMENT CENTER (Continued)

U003164731

Tank External Protection: Not reported
Other Type Tank Extn Protec: Not reported
Tank External Protec Date: Not reported
Date Tank Last Used: 01/01/1976
Date Tank Permanently Closed/ Removed: 12/31/1998
Dt Tk Exp Brought InUse/Internal Tracking: Not reported
Tank Fees Waived: No
Expedite Closure On Tank?: No
Responsible Person Expediting Closure: Not reported
Temporary Status Verified Date: Not reported
Admin Fee 585: Not reported
Date Administratively Closed: Not reported
Date Record Added: 06/30/1995
Date Record Edited: 04/27/1999
Person Adding/Editing Record: NREQHW-LENOM
Date Of NFA Letter: 12/31/1998
Is Tank Used For Emergency Generator: No
Date Closure Notice Received: 11/18/1998
Date Of Approval Letter: 1998-12-31 00:00:00
Firm Closing Tank: PETROLEUM EQUIPMENT
Date Closure Report Received: 1999-03-26 00:00:00
Registration End Date: Not reported
LockOut Flag: No
Comments: Not reported

Tank Compartment:

Tank Compartment PK: 23187
Tank PK: 23187
Compartment No: 1
Compartment Status: Removed
Compartment Temp Verified Dt: Not reported
Capacity: 3000
Pipe Installation Dt: Not reported
Pipe System: Not reported
Pipe Material: Not reported
Pipe Material Other: Not reported
Pipe Protection: Not reported
Pipe Protection Dt: Not reported
Pipe Double Wall: 0
Substance: Gasoline, Including Blends
Substance Other: Not reported
Hazardous Substance: Not reported
Case Number: Not reported
Mixture: 0
Date of Last Use: 1976-01-01 00:00:00
Spill Protection: 0
Tanks Use: 0

Owner:

Owner ID: OW06683
Owner Name: DALLAS W & MARY WILSON
Owner Address: 1104 ST PAUL
Owner City,St,Zip: EXCELSIOR SPRINGS, MO 64024
Owner County Code: 47
Owner Phone: 6372886
Mail Was Not Deliverable: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)
EDR ID Number
EPA ID Number

WILSON TIRE & ALIGNMENT CENTER (Continued)

U003164731

8-9-11-VH-Rev'd GWMReport and RAFU. Agreed that RAFU of adjoining church property is non-res. Recommend additional Delineation to the south due to soil cont.

5-4-12-VH-*Reviewed soil sampling report. Cont continues to warra nt additional delineation to the south of replacement soil boring C-4.

UST:

Facility ID: ST0009399
Region: KC
Lat/Long: 39.338969 / -94.226388
Lat/Long (dms): Not reported
Easting: 394311.867
Northing: 4355110.50
Method Data Was Obtained: GPS, Differential Post Processing
Accuracy Of Geospatial Data: 8
Owner Of Geospatial Data: Hazardous Waste Program
Amount Of Deviation In Accuracy: 2.2999999999999998
Deviation In Meters; Feet; Pdrop; Score: PDOP
Geospatial Point Line Area Indicator: 001
Geospatial Horizontal Reference Datum: WGS84
Where Geospatial Data Collected On Site: TU
Geospatial Source Data Location: HWP
Geospatial Data Collected By: INTERNS
Geospatial Elevation Method: Not reported
Geospatial Elevation Reference Datum: Not reported
Date Gis Data Collected: 06/03/2002

Tanks:

Owner:

Owner ID: OW06683
Owner Name: DALLAS W & MARY WILSON
Owner Address: 1104 ST PAUL
Owner City,St,Zip: EXCELSIOR SPRINGS, MO 64024
Owner County Code: 47
Owner Phone: 6372886
Mail Was Not Deliverable: No
Is Owner Active?: No
Date Registration Received: Not reported
Date Record Added: 1995-06-30 00:00:00
Date Record Edited: 1999-03-25 00:00:00
Name of Person Editing Record: NREQHW-FASTT

Tank ID: 1
Tank Double Wall: 0
Tank Type: Below Ground
Tank Status: Removed
Meet 98 Update Requirements: No
Date Tank Installed: Not reported
Tank Material: Not reported
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

7-ELEVEN - FORMER (Continued)

U001159060

Capacity: 10000
Pipe Installation Dt: Not reported
Pipe System: Not reported
Pipe Material: 2
Pipe Material Other: Not reported
Pipe Protection: Not reported
Pipe Protection Dt: Not reported
Pipe Double Wall: 0
Substance: Gasoline, Including Blends
Substance Other: Not reported
Hazardous Substance: Not reported
Case Number: Not reported
Mixture: 0
Date of Last Use: 1992-04-22 00:00:00
Spill Protection: 0
Tanks Use: 0

Owner:

Owner ID: OW10452
Owner Name: 7-ELEVEN, INC.
Owner Address: PO BOX 711
Owner City,St,Zip: DALLAS, TX 75221 0711
Owner County Code: 59
Owner Phone: 6081136
Mail Was Not Deliverable: No
Is Owner Active?: Yes
Date Registration Received: 2001-03-19 00:00:00
Date Record Added: 1995-06-30 00:00:00
Date Record Edited: 2012-04-11 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: 07/13/1987
Tank Material: Fiberglass
Code for Tank Material Manufacturer: Not reported
Code for Tank Installer: Not reported
Other Type Of Tank Material: Not reported
Tank Internal Protection: No
Other Tank Internal Protection: Not reported
Tank Internal Protection Date: Not reported
Tank External Protection: Not reported
Other Type Tank Extrn Protec: Not reported
Tank External Protec Date: Not reported
Date Tank Last Used: 04/22/1992
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

7-ELEVEN - FORMER (Continued)

U001159060

Date Administratively Closed: Not reported
Date Record Added: 01/09/1998
Date Record Edited: 01/09/1998
Person Adding/Editing Record: N\$WILDW
Date Of NFA Letter: 05/01/1993
Is Tank Used For Emergency Generator: No
Date Closure Notice Received: 04/01/1993
Date Of Approval Letter: Not reported
Firm Closing Tank: GROUNDWATER TECHNOLOGY
Date Closure Report Received: 1993-06-21 00:00:00
Registration End Date: Not reported
LockOut Flag: No
Comments: This is a remediation unit file. There does not appear to be a written response to the closure in the files. FJH 10/9/98

Tank Compartment:

Tank Compartment PK: 33094
Tank PK: 33095
Compartment No: 1
Compartment Status: Removed
Compartment Temp Verified Dt: Not reported
Capacity: 10000
Pipe Installation Dt: Not reported
Pipe System: Not reported
Pipe Material: 2
Pipe Material Other: Not reported
Pipe Protection: Not reported
Pipe Protection Dt: Not reported
Pipe Double Wall: 0
Substance: Gasoline, Including Blends
Substance Other: Not reported
Hazardous Substance: Not reported
Case Number: Not reported
Mixture: 0
Date of Last Use: 1992-04-22 00:00:00
Spill Protection: 0
Tanks Use: 0

Owner:

Owner ID: OW10452
Owner Name: 7-ELEVEN, INC.
Owner Address: PO BOX 711
Owner City,St,Zip: DALLAS, TX 75221 0711
Owner County Code: 59
Owner Phone: 6081136
Mail Was Not Deliverable: No
Is Owner Active?: Yes
Date Registration Received: 2001-03-19 00:00:00
Date Record Added: 1995-06-30 00:00:00
Date Record Edited: 2012-04-11 00:00:00
Name of Person Editing Record: KIRCHNER, M

Tank ID: 5
Tank Double Wall: 0
Tank Type: Below Ground

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

7-ELEVEN - FORMER (Continued)

U001159060

Tank Status: Removed
Meet 98 Update Requirements: No
Date Tank Installed: 07/13/1987
Tank Material: Fiberglass
Code for Tank Material Manufacturer: Not reported
Code for Tank Installer: Not reported
Other Type Of Tank Material: Not reported
Tank Internal Protection: No
Other Tank Internal Protection: Not reported
Tank Internal Protection Date: Not reported
Tank External Protection: Not reported
Other Type Tank Extrn Protec: Not reported
Tank External Protec Date: Not reported
Date Tank Last Used: 04/22/1992
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: 01/09/1998
Date Record Edited: 01/09/1998
Person Adding/Editing Record: N\$WILDW
Date Of NFA Letter: 05/01/1993
Is Tank Used For Emergency Generator: No
Date Closure Notice Received: 04/01/1993
Date Of Approval Letter: Not reported
Firm Closing Tank: GROUNDWATER TECHNOLOGY
Date Closure Report Received: 1993-06-21 00:00:00
Registration End Date: Not reported
LockOut Flag: No
Comments: This is a remediation unit file. There does not appear to be a written response to the closure in the files. FJH 10/9/98

Tank Compartment:

Tank Compartment PK: 33095
Tank PK: 33096
Compartment No: 1
Compartment Status: Removed
Compartment Temp Verified Dt: Not reported
Capacity: 10000
Pipe Installation Dt: Not reported
Pipe System: Not reported
Pipe Material: 2
Pipe Material Other: Not reported
Pipe Protection: Not reported
Pipe Protection Dt: Not reported
Pipe Double Wall: 0
Substance: Gasoline, Including Blends
Substance Other: Not reported
Hazardous Substance: Not reported
Case Number: Not reported
Mixture: 0
Date of Last Use: 1992-04-22 00:00:00
Spill Protection: 0
Tanks Use: 0

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number
EPA ID Number

7-ELEVEN - FORMER (Continued)

U001159060

Tank Aug 2011:

Facility Id: ST0013048
Tank Id: 1
Site Usage: Not reported
Risk Type: Not reported
Soil Type: Not reported
GW Flow: Not reported
Offsite Impact: Not reported
Free Product: Not reported
Drinking Water: Not reported
Closed Under: Not reported
No Drinking Wells: No
No Buildings: No
Vapor Barrier: 0
St Louis Mo: No
Special Well Area: No
Surface Cap: No
No Excavation: No

Facility Id: ST0013048
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: ST0013048
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: ST0013048
Tank Id: 4

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

7-ELEVEN - FORMER (Continued)

U001159060

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: ST0013048
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
Vapor Barrier: 0
St Louis Mo: No
Special Well Area: No
Surface Cap: No
No Excavation: No

18 **POUR BOY #5**
SW **510 ST LOUIS ST**
1/4-1/2 **EXCELSIOR SPRINGS, MO 64024**
0.365 mi.
1929 ft.

LUST **U000750225**
UST **N/A**

Relative:
Higher

LUST:

Actual:
789 ft.

Facility ID: ST0001046
Region: KC - Kansas City Regional Office
Lat/Long (dms): 39 20 20 / 94 13 39
Spill Number: Not reported
Release Date: 01/11/1990
Release Type: UNDERGROUND STORAGE TANK
Date Cleanup Started: 01/13/1990
Date Cleanup Finished: 08/01/2012
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: 8/20/2012
Date Record Meets Archive Criteria: Not reported
Remediation ID: R001546

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)
EDR ID Number
EPA ID Number

POUR BOY #5 (Continued)

U000750225

Rank: 58
Emergency Response Date: 01/13/1990
Emergency Cleanup Start: Not reported
Referred To DGLS for Investigation: Not reported
Contractor Performing Clean Up: 144
RBCA NFA: Yes
Project Manager: W
Next Correspondence/Update With Fac: Not reported
Date Added: 06/30/1995
Date Record Edited: 08/20/2012
Person Adding Or Editing Record: KOON, K
Facility Sent To State Archive: No
Date Remediation Unit Closed The File: Not reported
Site Affected By Funding Level From PSTIF: No

General Comments: 5/15/2000 JP requested that they submit a work plan proposing to further define the extent of groundwater contamination to the north, south and west of site and on 7-11 property. 7-19-00 vg rev FPR rpt & app WP for initiation of FPR activities. Also app recommendation for add SA. 8-28-00 the Fund app \$ for free product recovery. 10/24/00 JLG approved workplan & boring locations, & requested status of FPR.
New address: Carter Family Partnership, 8016 Timbercrest Place, Parkville, MO
64152-6059 6/9/01 kk rev file. Requested FP recovery report and report on SC approved in dept letter of 11/14/00.
10/16/2001 MA rev Regional staff compliance inspection report, no visible sign of contamination was observed, nine observation wells were secured in the vicinity of the tank pit.
11/14/2001 MA rev gwmr excessive contamination in MW(1, 2, 3, 4, 5, 7, 25) rpt recommended remediation using bio-augmentation, which includes the injection of anaerobic bacteria and nutrients, req a report of the additional site characterization before approval of any CAP.
Carter Family partnership address: 6504 Turnberry Court, Parkville, MO
64152-3135 2/26/2002 MA rev gwmr, sent a letter requesting submittal of the additional SC and a CAP 4/3/02 MA rev response letter, rejected approval of bio-augmentation and requested the submittal of an alternative remediation method.
5/10/02 MA rev gwmr significant gw cont, concurred with recommendation for HVE and MWs installation as an interim measure to address gw contamination followed by a CAP to address soil contamination.
1/3/03 MA rev gwmr excessive gw contamination, the report of (9/5/01) includes gw analysis only, it does not report additional SC. Request implementation of (7/25/00) WP as approved and submit results.
11/21/03 MA rev file and sent a letter requesting a site status update and a CAP to address the extent of contamination.
2/3/04 MA rev response letter, letter did not address requested information, requested a WP to conduct additional SC and to collect geotechnical data necessary for RBCA evaluation.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

POUR BOY #5 (Continued)

U000750225

8/12/04 MA PSTIF unable to approve cost for insufficient information regarding investigation plan. We did not receive a copy of that WP.

9/13/04 MA rev a WP for SC. The work plan did not provide sufficient detail regarding work to be completed. Requested the submittal of a complete WP to complete SC in accordance with the MRBCA delineation criteria, and to collect geotechnical data and other information necessary to complete risk assessment.

9/28/04 MA PSTIF requested additional proposal from other consultants because the WP was excessive and higher than typically seen for similar projects.

12/27/04 MA PSTIF indicated that the cost is excessive and requested solicitation of additional bids to demonstrate a fair and reasonable price for the services.

1/24/05 MA Unable to approve WP due to PSTIF letter requesting solicitation of additional bids to perform these services. We will resume our review as soon as we receive other proposal to review available data, identify data gaps, collect data to fill data gaps and other information necessary to perform risk assessment.

2/24/05 MA PSTIF letter indicating that Roger Stuart with Pars Consulting Engineers is the new adjuster for the site. Mr. Stuart will contact EWI to discuss the next course of action.

4-28-05; LJB, reviewed work plan for nine soil borings to be completed as monitoring wells. Soil samples plus groundwater samples from wells, slug tests on two. Approved as written.

4/29/05 MA PSTIF Approved cost to perform additional SC and the collection of field data necessary to perform risk assessment using the MRBCA guidance.

9/6/05 KGP Change address - Carter Family Partnership: 6104 Timberidge Court, Parkville, MO 64152.

4/27/06 MA rev a Tier 1/Tier 2 MRBCA report. The report adequately evaluates all complete pathways identified in the exposure model. Based on Tier 2 risk assessment, the representative concentrations do not exceed the Tier 2 SSTLs. No ecological concerns were identified. Concurred with EWI recommendations to continue groundwater monitoring activities to monitor the groundwater condition at the site and to demonstrate plume stability. Requested the submittal of a WP.

8/19/06 JS app'd wp for investigation of utility prox to contamination, attempt at offsite SC, tank pit backfill investigation and gwm.

4/7/08 RDS: Reviewed EWI Status Report dated 7/24/07. EWI stated no further evaluation of sanitary sewer required but did not provide the materials of construction; requested PID gas survey if line is plastic or has rubber gaskets. EWI drilled into former UST pit backfill and concluded that it was compacted Type 2 soil and thereby did not require Type 1 RBTLs; requested engineering data to prove it was properly compacted. EWI claims plumes may be co-mingling from a downgradient abandoned station; requested data to prove or disprove

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

POUR BOY #5 (Continued)

U000750225

co-mingling plumes. EWI claims the site is delineated except for MW-M to SE; full delineation still needed at MWs J & 1 & B and sanitary and storm sewer pathways. Domestic use pathway complete but the single POD well did not address shallow bedrock pathway (6 sampling points did not prove contamination did not reach the bedrock surface); requested RG seal and technical data to prove it cannot reach the City's mineral water well. Soil boring logs in close proximity do not agree in number of soil horizons; requested comments. Geotechnical sampled for vadose zone taken in saturated zone; dry bulk density, porosity, and VWC not in expected paraters; requested more geotechnical sampling if Tier 2 is to be utilized.

5/13/09 - JH -Review 2 GWM reports. LNAPL observed in MW-5, bailed down. Report contained response to dnr comments. GW use pahtway may be incomplete due to GW use restriction MOU b/w MDNR and EPA due to manufactured gas plant superfund site in downtown ES, near site. EWI to get additional info on area affected by MOU and reevaluate RA.

12/2/09 - LTA review groundwater monitoring report, final approved event. 1. Based on a review of the Memorandum of Understanding (MOU) between the City of Excelsior Springs and the Department for the Excelsior Springs Former Manufactured Gas Plant (FMGP) Superfund Site, dated July 30, 2007, the site is not located within the area of restricted groundwater use. Additionally, there is has been no information provided to the department showing the three active mineral water system wells located between 1,500 and 1,800 feet of the Site or City Well #1 is located within the area covered under the MOU. Additionally, no activity use limitations (AULs) restricting the use of groundwater at the site and adjacent properties has been submitted to the department. Therefore, the domestic use pathway should be considered complete.

2. Based on the complete domestic use pathway, the delineation cri teria for groundwater should be the Tier 1, Soil Type 1, residential, groundwater, domestic use RBTLs. The delineation criteria for soil remain the Tier 1, Soil Type 1, residential, subsurface soil, indoor inhalation of vapor emissions RBTLs.

3. The report suggests benzene concentrations in samples collected from monitoring well MW-M are the result of an offsite source and that further delineation south of MW-5 is not warranted. The Department disagrees with this conclusion. Although chemicals of concern concentrations were not present above the delineation criteria in the groundwater sample collected from well MW-E, impacts to soil samples collected from the saturated zone exceeded the delineation criteria. Additionally, there have been no documented releases at the adjacent property (ST0007221). Please provide the Department with evidence that a release has occurred at the offsite property. Otherwise, further delineation to the south is required.

EWI has stated that due to the presence of underground and/or above ground storage tanks formerly located at the adjacent property to the south, further delineation will provide no useful data. The Department disagrees with this assertion. Additional soil and groundwater delineation downgradient of monitoring well MW-M will provide a complete characterization of soil and groundwater plumes associated with the release at the site and the data required for the evaluation of complete offsite pathways; or, provide additional

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

EDR ID Number
EPA ID Number
Database(s)

POUR BOY #5 (Continued)

U000750225

evidence to support the supposition of an offsite source. Please submit a work plan for the complete delineation of impacts to soil and groundwater downgradient of well MW-M.

4. Please include in the aforementioned work plan, delineation of impacts to soil downgradient of boring location SB-K. Additionally, based on the impacts to offsite properties please include in the work plan a comprehensive utility diagram, identifying utility locations at all impacts properties.

5. Based on the significant difference in COC concentrations in groundwater samples collected during 2005 and then 2008, and then a subsequent increasing trend in benzene concentrations, additional monitoring is required to evaluate plume stability. Please include in the work plan an additional 5 quarters of groundwater monitoring. Additionally, in future plume stability evaluations please consider utilizing an additional method of determining plume stability in addition to Mann-Kendall, e.g. linear regression.

6. A discussion of the point of demonstration (POD) and point of exposure (POE) used to calculate the soil concentrations protective of groundwater was included in the report. Please be aware that the POD and POE for the future pathway must be the same point, located onsite in the area of the highest impact. The POE for the current pathway is the existing closest domestic use well, with the POD located somewhere between the source and the POE. Both the future use and current use pathways must be evaluated.

02/14/2011-JJR: Based on the results of the POD/POE analysis and the minimum saturated thickness being less than the 194ft needed for the unconsolidated water bearing unit to be considered a usable aquifer, current and future use of groundwater at the site is incomplete. Based on the incomplete Groundwater Use determination the risk based target levels should remain unchanged. Based on the historical groundwater and soil data, further delineation is not needed. App'vd work plan proposes to establish plume stability by monitoring all 21 groundwater monitoring wells, for three sampling events. Also, once plume stability has been established, all Tier II pathways will be re-evaluated utilizing current data, with amendments completed as necessary, along with recommendations for future site activities, be aware that more than three additional monitoring events may be needed to define plume stability.

03/08/2011-JJR: updated RP address: Mr. Sam Carter 6520 Turnberry Ct Kansas City, MO 64152 08/04/2011-JJR: 16 MWs sampled, minus MW-1. Reqs'd it be sampled next event. May need further monitoring on site, based on next event.

8/1/12 JK--reviewed GWM report, revised Tier 2, and file for site; discussed with Laura, site sampled in September 2011 probably prior to our letter reaching them, based on information for site, no further GWM necessary, drafted NFA. 8/20/12 Issued NFA

UST:

Facility ID: ST0001046
Region: KC
Lat/Long: 39.28324 / -94.21867
Lat/Long (dms): 39 20 20 / 94 13 39

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

POUR BOY #5 (Continued)

U000750225

Eastings: 394196
Northing: 4355177
Method Data Was Obtained: GPS, Carrier Phase, Static Mode (SA Off)
Accuracy Of Geospatial Data: 5
Owner Of Geospatial Data: Hazardous Waste Program
Amount Of Deviation In Accuracy: 17
Deviation In Meters; Feet; Pdrop; Score: Feet
Geospatial Point Line Area Indicator: 001
Geospatial Horizontal Reference Datum: WGS84
Where Geospatial Data Collected On Site: TU
Geospatial Source Data Location: HWP
Geospatial Data Collected By: BLEIBAUM, A
Geospatial Elevation Method: Not reported
Geospatial Elevation Reference Datum: Not reported
Date Gis Data Collected: 03/05/2008

Tanks:

Owner:

Owner ID: OW03962
Owner Name: CARTER FAMILY PARTNERSHIP
Owner Address: 6520 TURNBERRY CT
Owner City,St,Zip: PARKVILLE, MO 64152 3135
Owner County Code: 165
Owner Phone: 7412446
Mail Was Not Deliverable: No
Is Owner Active?: No
Date Registration Received: Not reported
Date Record Added: 1995-06-30 00:00:00
Date Record Edited: 2010-01-13 00:00:00
Name of Person Editing Record: CORBIN, M

Tank ID: 1
Tank Double Wall: 0
Tank Type: Below Ground
Tank Status: Removed
Meet 98 Update Requirements: No
Date Tank Installed: 01/01/1980
Tank Material: Steel
Code for Tank Material Manufacturer: Not reported
Code for Tank Installer: Not reported
Other Type Of Tank Material: Not reported
Tank Internal Protection: No
Other Tank Internal Protection: Not reported
Tank Internal Protection Date: Not reported
Tank External Protection: Unknown
Other Type Tank Extn Protec: Not reported
Tank External Protec Date: Not reported
Date Tank Last Used: 12/23/1992
Date Tank Permanently Closed/ Removed: Not reported
Dt Tk Exp Brought InUse/Internal Tracking: Not reported
Tank Fees Waived: Yes
Expedite Closure On Tank?: No
Responsible Person Expediting Closure: Not reported
Temporary Status Verified Date: Not reported
Admin Fee 585: Not reported
Date Administratively Closed: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

POUR BOY #5 (Continued)

U000750225

Date Record Added: 06/30/1995
Date Record Edited: 01/08/1998
Person Adding/Editing Record: NSWILDW
Date Of NFA Letter: Not reported
Is Tank Used For Emergency Generator: No
Date Closure Notice Received: 12/23/1992
Date Of Approval Letter: Not reported
Firm Closing Tank: CHERRY ASSOCIATES
Date Closure Report Received: Not reported
Registration End Date: Not reported
LockOut Flag: No
Comments: NO NOTICE, REPORT SENT TO ESP, DENNIS TO VISIT SITE, TANKS PULLED IN 1990

Tank Compartment:

Tank Compartment PK: 2612
Tank PK: 2612
Compartment No: 1
Compartment Status: Removed
Compartment Temp Verified Dt: Not reported
Capacity: 4000
Pipe Installation Dt: Not reported
Pipe System: Not reported
Pipe Material: 0
Pipe Material Other: Not reported
Pipe Protection: Not reported
Pipe Protection Dt: Not reported
Pipe Double Wall: 0
Substance: Gasoline, Including Blends
Substance Other: Not reported
Hazardous Substance: Not reported
Case Number: Not reported
Mixture: 0
Date of Last Use: 1992-12-23 00:00:00
Spill Protection: 0
Tanks Use: 0

Owner:

Owner ID: OW03962
Owner Name: CARTER FAMILY PARTNERSHIP
Owner Address: 6520 TURNBERRY CT
Owner City,St,Zip: PARKVILLE, MO 64152 3135
Owner County Code: 165
Owner Phone: 7412446
Mail Was Not Deliverable: No
Is Owner Active?: No
Date Registration Received: Not reported
Date Record Added: 1995-06-30 00:00:00
Date Record Edited: 2010-01-13 00:00:00
Name of Person Editing Record: CORBIN, M

Tank ID: 2
Tank Double Wall: 0
Tank Type: Below Ground
Tank Status: Removed

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number
EPA ID Number

POUR BOY #5 (Continued)

U000750225

Meet 98 Update Requirements: No
Date Tank Installed: 01/01/1980
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
Tank External Protec Date: Not reported
Date Tank Last Used: 12/23/1992
Date Tank Permanently Closed/ Removed: Not reported
Dt Tk Exp Brought InUse/Internal Tracking: Not reported
Tank Fees Waived: Yes
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: 01/08/1998
Person Adding/Editing Record: N\$WILDW
Date Of NFA Letter: Not reported
Is Tank Used For Emergency Generator: No
Date Closure Notice Received: 12/23/1992
Date Of Approval Letter: Not reported
Firm Closing Tank: CHERRY ASSOCIATES
Date Closure Report Received: Not reported
Registration End Date: Not reported
LockOut Flag: No
Comments: NO NOTICE, REPORT SENT TO ESP, DENNIS TO VISIT SITE, TANKS PULLED IN 1990

Tank Compartment:

Tank Compartment PK: 2613
Tank PK: 2613
Compartment No: 1
Compartment Status: Removed
Compartment Temp Verified Dt: Not reported
Capacity: 3000
Pipe Installation Dt: Not reported
Pipe System: Not reported
Pipe Material: 0
Pipe Material Other: Not reported
Pipe Protection: Not reported
Pipe Protection Dt: Not reported
Pipe Double Wall: 0
Substance: Gasoline, Including Blends
Substance Other: Not reported
Hazardous Substance: Not reported
Case Number: Not reported
Mixture: 0
Date of Last Use: 1992-12-23 00:00:00
Spill Protection: 0
Tanks Use: 0

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

POUR BOY #5 (Continued)

U000750225

Owner:

Owner ID: OW03962
Owner Name: CARTER FAMILY PARTNERSHIP
Owner Address: 6520 TURNBERRY CT
Owner City,St,Zip: PARKVILLE, MO 64152 3135
Owner County Code: 165
Owner Phone: 7412446
Mail Was Not Deliverable: No
Is Owner Active?: No
Date Registration Received: Not reported
Date Record Added: 1995-06-30 00:00:00
Date Record Edited: 2010-01-13 00:00:00
Name of Person Editing Record: CORBIN, M

Tank ID: 3
Tank Double Wall: 0
Tank Type: Below Ground
Tank Status: Removed
Meet 98 Update Requirements: No
Date Tank Installed: 01/01/1980
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
Tank External Protec Date: Not reported
Date Tank Last Used: 12/23/1992
Date Tank Permanently Closed/ Removed: Not reported
Dt Tk Exp Brought InUse/Internal Tracking: Not reported
Tank Fees Waived: Yes
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: 01/08/1998
Person Adding/Editing Record: N\$WILDW
Date Of NFA Letter: Not reported
Is Tank Used For Emergency Generator: No
Date Closure Notice Received: 12/23/1992
Date Of Approval Letter: Not reported
Firm Closing Tank: CHERRY ASSOCIATES
Date Closure Report Received: Not reported
Registration End Date: Not reported
LockOut Flag: No
Comments: NO NOTICE, REPORT SENT TO ESP, DENNIS TO VISIT SITE, TANKS PULLED IN 1990

Tank Compartment:

Tank Compartment PK: 2614
Tank PK: 2614

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

POUR BOY #5 (Continued)

U000750225

Compartment No: 1
Compartment Status: Removed
Compartment Temp Verified Dt: Not reported
Capacity: 3000
Pipe Installation Dt: Not reported
Pipe System: Not reported
Pipe Material: 0
Pipe Material Other: Not reported
Pipe Protection: Not reported
Pipe Protection Dt: Not reported
Pipe Double Wall: 0
Substance: Gasoline, Including Blends
Substance Other: Not reported
Hazardous Substance: Not reported
Case Number: Not reported
Mixture: 0
Date of Last Use: 1992-12-23 00:00:00
Spill Protection: 0
Tanks Use: 0

Owner:

Owner ID: OW03962
Owner Name: CARTER FAMILY PARTNERSHIP
Owner Address: 6520 TURNBERRY CT
Owner City,St,Zip: PARKVILLE, MO 64152 3135
Owner County Code: 165
Owner Phone: 7412446
Mail Was Not Deliverable: No
Is Owner Active?: No
Date Registration Received: Not reported
Date Record Added: 1995-06-30 00:00:00
Date Record Edited: 2010-01-13 00:00:00
Name of Person Editing Record: CORBIN, M

Tank ID: 4
Tank Double Wall: 0
Tank Type: Below Ground
Tank Status: Removed
Meet 98 Update Requirements: No
Date Tank Installed: 01/01/1980
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
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: Yes
Expedite Closure On Tank?: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

POUR BOY #5 (Continued)

U000750225

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: 01/08/1998
Person Adding/Editing Record: N\$WILDW
Date Of NFA Letter: Not reported
Is Tank Used For Emergency Generator: No
Date Closure Notice Received: 12/23/1992
Date Of Approval Letter: Not reported
Firm Closing Tank: CHERRY ASSOCIATES
Date Closure Report Received: Not reported
Registration End Date: Not reported
LockOut Flag: No
Comments: NO NOTICE, REPORT SENT TO ESP, DENNIS TO VISIT SITE, TANKS PULLED IN 1990

Tank Compartment:

Tank Compartment PK: 2615
Tank PK: 2615
Compartment No: 1
Compartment Status: Removed
Compartment Temp Verified Dt: Not reported
Capacity: 1000
Pipe Installation Dt: Not reported
Pipe System: Not reported
Pipe Material: 0
Pipe Material Other: Not reported
Pipe Protection: Not reported
Pipe Protection Dt: Not reported
Pipe Double Wall: 0
Substance: Gasoline, Including Blends
Substance Other: Not reported
Hazardous Substance: Not reported
Case Number: Not reported
Mixture: 0
Date of Last Use: Not reported
Spill Protection: 0
Tanks Use: 0

Owner:

Owner ID: OW09256
Owner Name: POUR BOY OIL CO, III INCORPORATED
Owner Address: 22208 N 69 HWY
Owner City,St,Zip: EXCELSIOR SPRINGS, MO 64024
Owner County Code: 47
Owner Phone: 6285109
Mail Was Not Deliverable: No
Is Owner Active?: Yes
Date Registration Received: 1996-11-18 00:00:00
Date Record Added: 1997-01-30 00:00:00
Date Record Edited: 2010-10-29 00:00:00
Name of Person Editing Record: KIRCHNER, M

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number
EPA ID Number

POUR BOY #5 (Continued)

U000750225

Tank ID: 5
Tank Double Wall: 0
Tank Type: Below Ground
Tank Status: Curently in use
Meet 98 Update Requirements: Yes
Date Tank Installed: 04/20/1991
Tank Material: Steel
Code for Tank Material Manufacturer: Not reported
Code for Tank Installer: Not reported
Other Type Of Tank Material: Not reported
Tank Internal Protection: Not reported
Other Tank Internal Protection: Not reported
Tank Internal Protection Date: Not reported
Tank External Protection: Impressed
Other Type Tank Extrn Protec: C.F
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: 06/15/2012
Date Record Edited: 06/15/2012
Person Adding/Editing Record: KIRCHNER, M
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: 2013-09-30 00:00:00
LockOut Flag: No
Comments: Not reported

Tank Compartment:

Tank Compartment PK: 2616
Tank PK: 2616
Compartment No: 1
Compartment Status: Curently in use
Compartment Temp Verified Dt: Not reported
Capacity: 10000
Pipe Installation Dt: 1991-04-20 00:00:00
Pipe System: 1
Pipe Material: 2
Pipe Material Other: Not reported
Pipe Protection: Not reported
Pipe Protection Dt: Not reported
Pipe Double Wall: 0
Substance: Gasoline, Including Blends
Substance Other: Not reported
Hazardous Substance: Not reported
Case Number: Not reported
Mixture: 0
Date of Last Use: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

POUR BOY #5 (Continued)

U000750225

Spill Protection: -1
Tanks Use: 0

Owner:

Owner ID: OW09256
Owner Name: POUR BOY OIL CO, III INCORPORATED
Owner Address: 22208 N 69 HWY
Owner City,St,Zip: EXCELSIOR SPRINGS, MO 64024
Owner County Code: 47
Owner Phone: 6285109
Mail Was Not Deliverable: No
Is Owner Active?: Yes
Date Registration Received: 1996-11-18 00:00:00
Date Record Added: 1997-01-30 00:00:00
Date Record Edited: 2010-10-29 00:00:00
Name of Person Editing Record: KIRCHNER, M

Tank ID: 6
Tank Double Wall: 0
Tank Type: Below Ground
Tank Status: **Temporarily out of use**
Meet 98 Update Requirements: Yes
Date Tank Installed: 04/20/1991
Tank Material: Steel
Code for Tank Material Manufacturer: Not reported
Code for Tank Installer: Not reported
Other Type Of Tank Material: Not reported
Tank Internal Protection: Not reported
Other Tank Internal Protection: Not reported
Tank Internal Protection Date: Not reported
Tank External Protection: Impressed
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: 06/15/2012
Date Record Edited: 06/15/2012
Person Adding/Editing Record: KIRCHNER, M
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: 2013-09-30 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

POUR BOY #5 (Continued)

U000750225

Tank Compartment:
Tank Compartment PK: 2617
Tank PK: 2617
Compartment No: 1
Compartment Status: Temporarily out of use
Compartment Temp Verified Dt: Not reported
Capacity: 10000
Pipe Installation Dt: 1991-04-20 00:00:00
Pipe System: 1
Pipe Material: 2
Pipe Material Other: Not reported
Pipe Protection: Not reported
Pipe Protection Dt: Not reported
Pipe Double Wall: 0
Substance: Gasoline, Including Blends
Substance Other: Not reported
Hazardous Substance: Not reported
Case Number: Not reported
Mixture: 0
Date of Last Use: Not reported
Spill Protection: -1
Tanks Use: 0

Owner:
Owner ID: OW09256
Owner Name: POUR BOY OIL CO, III INCORPORATED
Owner Address: 22208 N 69 HWY
Owner City, St, Zip: EXCELSIOR SPRINGS, MO 64024
Owner County Code: 47
Owner Phone: 6285109
Mail Was Not Deliverable: No
Is Owner Active?: Yes
Date Registration Received: 1996-11-18 00:00:00
Date Record Added: 1997-01-30 00:00:00
Date Record Edited: 2010-10-29 00:00:00
Name of Person Editing Record: KIRCHNER, M

Tank ID: 7
Tank Double Wall: 0
Tank Type: Below Ground
Tank Status: Currently in use
Meet 98 Update Requirements: Yes
Date Tank Installed: 04/20/1991
Tank Material: Steel
Code for Tank Material Manufacturer: Not reported
Code for Tank Installer: Not reported
Other Type Of Tank Material: Not reported
Tank Internal Protection: Not reported
Other Tank Internal Protection: Not reported
Tank Internal Protection Date: Not reported
Tank External Protection: Impressed
Other Type Tank Extn 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

POUR BOY #5 (Continued)

U000750225

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: 06/15/2012
Date Record Edited: 06/15/2012
Person Adding/Editing Record: KIRCHNER, M
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: 2013-09-30 00:00:00
LockOut Flag: No
Comments: Not reported

Tank Compartment:

Tank Compartment PK: 2618
Tank PK: 2618
Compartment No: 1
Compartment Status: Curently in use
Compartment Temp Verified Dt: Not reported
Capacity: 10000
Pipe Installation Dt: 1991-04-20 00:00:00
Pipe System: 1
Pipe Material: 2
Pipe Material Other: Not reported
Pipe Protection: Not reported
Pipe Protection Dt: Not reported
Pipe Double Wall: 0
Substance: Gasoline, Including Blends
Substance Other: Not reported
Hazardous Substance: Not reported
Case Number: Not reported
Mixture: 0
Date of Last Use: Not reported
Spill Protection: -1
Tanks Use: 0

Tank Aug 2011:

Facility Id: ST0001046
Tank Id: 1
Site Usage: Not reported
Risk Type: Not reported
Soil Type: Not reported
GW Flow: Not reported
Offsite Impact: Not reported
Free Product: Not reported
Drinking Water: Not reported
Closed Under: Not reported
No Drinking Wells: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number
EPA ID Number

POUR BOY #5 (Continued)

U000750225

No Buildings:	No
Vapor Barrier:	0
St Louis Mo:	No
Special Well Area:	No
Surface Cap:	No
No Excavation:	No
Facility Id:	ST0001046
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:	ST0001046
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:	ST0001046
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

POUR BOY #5 (Continued)

U000750225

Special Well Area: No
Surface Cap: No
No Excavation: No

Facility Id: ST0001046
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
Vapor Barrier: 0
St Louis Mo: No
Special Well Area: No
Surface Cap: No
No Excavation: No

Facility Id: ST0001046
Tank Id: 6
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: ST0001046
Tank Id: 7
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

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s) EDR ID Number
 EPA ID Number

19 **LEWIS ELEMENTARY SCHOOL**
SW **501 LEAVENWORTH STREET**
1/4-1/2 **EXCELSIOR SPRINGS, MO 64042**
0.439 mi.
2320 ft.

VCP **S109386029**
N/A

Relative:
Higher

VCP:

Facility Status: Cert. of Completion Issued
 Activity Use: Not reported
 Manager: Mike Washburn
 Cert. of completion issued: 7/16/2012
 Application Received: 10/15/2008
 State Funded: Not reported
 Federal Funded: Not reported
 Acreage: 5
 Northing: 4354957
 Easting: 394098
 Operable Unit: Lewis Elementary School
 Site Description: The site is five acres and contains a 77,219 square-foot elementary school. While removing a walk-in refrigerator, a 1,000-gallon fuel oil tank was discovered. The tank's contents were removed and the tank was closed in place. Soil and groundwater sampling showed elevated levels of Diesel Range Organics and polycyclic aromatic hydrocarbons.

Actual:
789 ft.

Contaminant: Heating Oil,PAHs

Count: 11 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
EXCELSIOR SPRINGS	U000281868	TARKIO RANCH	RT 1	64024	UST
EXCELSIOR SPRINGS	U000281864	PEPSI COLA	HWY 10	64024	UST
EXCELSIOR SPRINGS	1000287228	QUALITY BODY WORKS	RTE 4 BOX 445	64024	RCRA-NonGen, FINDS
EXCELSIOR SPRINGS	U001159058	EXCELSIOR SPRINGS MAINT LOT	RT 69	64024	LUST, UST
EXCELSIOR SPRINGS	U003980995	SOO LINE RAILROAD EXCELSIOR SPRING	DUNBAR AVE & PERMISSION DR	64024	LUST, UST
EXCELSIOR SPRINGS	1007110808	EXCELSIOR SPRINGS FMGP	320 EXCELSIOR ST	64024	RCRA-NonGen
EXCELSIOR SPRINGS	1001404950	BOBS COLLISION REPAIR	2066 E HWY 10	64024	RCRA-SQG, FINDS
EXCELSIOR SPRINGS	1010786495	MO POWER & LIGHT EXCELSIOR SPRINGS	110 MAIN ST	64024	RCRA-NonGen
EXCELSIOR SPRINGS	1014917245	AMEREN MO FORMER EXCELSIOR SPRINGS	405 MARIETTA ST	64024	RCRA-SQG
EXCELSIOR SPRINGS	1000359956	AT&T COMPANY LONG LINES	RURAL ROUTE	64024	RCRA-NonGen, FINDS
MOSBY	S109118981	PROPOSED AIRPORT - RON PREWITT	22205 HWY 69	64024	LAST

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

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

Date of Government Version: 06/07/2012	Source: EPA
Date Data Arrived at EDR: 07/05/2012	Telephone: N/A
Date Made Active in Reports: 09/18/2012	Last EDR Contact: 10/11/2012
Number of Days to Update: 75	Next Scheduled EDR Contact: 01/21/2013
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

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

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

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

Date of Government Version: 06/07/2012	Source: EPA
Date Data Arrived at EDR: 07/05/2012	Telephone: N/A
Date Made Active in Reports: 09/18/2012	Last EDR Contact: 10/11/2012
Number of Days to Update: 75	Next Scheduled EDR Contact: 01/21/2013
	Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

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

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

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

Date of Government Version: 06/07/2012	Source: EPA
Date Data Arrived at EDR: 07/05/2012	Telephone: N/A
Date Made Active in Reports: 09/18/2012	Last EDR Contact: 10/11/2012
Number of Days to Update: 75	Next Scheduled EDR Contact: 01/21/2013
	Data Release Frequency: Quarterly

Federal CERCLIS list

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

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

Date of Government Version: 12/27/2011	Source: EPA
Date Data Arrived at EDR: 02/27/2012	Telephone: 703-412-9810
Date Made Active in Reports: 03/12/2012	Last EDR Contact: 10/18/2012
Number of Days to Update: 14	Next Scheduled EDR Contact: 12/10/2012
	Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 12/10/2010	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/11/2011	Telephone: 703-603-8704
Date Made Active in Reports: 02/16/2011	Last EDR Contact: 10/09/2012
Number of Days to Update: 36	Next Scheduled EDR Contact: 01/21/2013
	Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

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

Date of Government Version: 12/28/2011	Source: EPA
Date Data Arrived at EDR: 02/27/2012	Telephone: 703-412-9810
Date Made Active in Reports: 03/12/2012	Last EDR Contact: 10/18/2012
Number of Days to Update: 14	Next Scheduled EDR Contact: 12/10/2012
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/19/2011
Date Data Arrived at EDR: 08/31/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 132

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 08/07/2012
Next Scheduled EDR Contact: 11/26/2012
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

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

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

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

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

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

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

RCRA-SQG: RCRA - Small Quantity Generators

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

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

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

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

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

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

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

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

Date of Government Version: 12/30/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/30/2011	Telephone: 703-603-0695
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 09/05/2012
Number of Days to Update: 11	Next Scheduled EDR Contact: 12/24/2012
	Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

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

Date of Government Version: 12/30/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/30/2011	Telephone: 703-603-0695
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 09/05/2012
Number of Days to Update: 11	Next Scheduled EDR Contact: 12/24/2012
	Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005	Source: Department of the Navy
Date Data Arrived at EDR: 12/11/2006	Telephone: 843-820-7326
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 05/21/2012
Number of Days to Update: 31	Next Scheduled EDR Contact: 09/03/2012
	Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

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

Date of Government Version: 04/02/2012	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 04/03/2012	Telephone: 202-267-2180
Date Made Active in Reports: 06/14/2012	Last EDR Contact: 10/02/2012
Number of Days to Update: 72	Next Scheduled EDR Contact: 01/14/2013
	Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

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

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

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HWS DETAIL: Registry Annual Report

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

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

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

SWF/LF: Solid Waste Facility List

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

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

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tanks

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

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

LAST: Leaking Aboveground Storage Tanks

A listing of leaking aboveground storage tanks.

Date of Government Version: 09/11/2012	Source: Department of Natural Resources
Date Data Arrived at EDR: 09/19/2012	Telephone: 573-751-6822
Date Made Active in Reports: 10/16/2012	Last EDR Contact: 09/19/2012
Number of Days to Update: 27	Next Scheduled EDR Contact: 12/31/2012
	Data Release Frequency: Quarterly

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 08/01/2012	Source: EPA Region 10
Date Data Arrived at EDR: 08/02/2012	Telephone: 206-553-2857
Date Made Active in Reports: 10/16/2012	Last EDR Contact: 07/26/2012
Number of Days to Update: 75	Next Scheduled EDR Contact: 11/12/2012
	Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

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

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

Date of Government Version: 04/12/2012 Source: EPA Region 1
Date Data Arrived at EDR: 05/09/2012 Telephone: 617-918-1313
Date Made Active in Reports: 07/10/2012 Last EDR Contact: 08/03/2012
Number of Days to Update: 62 Next Scheduled EDR Contact: 11/12/2012
Data Release Frequency: Varies

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

Date of Government Version: 12/14/2011 Source: EPA Region 4
Date Data Arrived at EDR: 12/15/2011 Telephone: 404-562-8677
Date Made Active in Reports: 01/10/2012 Last EDR Contact: 07/26/2012
Number of Days to Update: 26 Next Scheduled EDR Contact: 11/12/2012
Data Release Frequency: Semi-Annually

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

Date of Government Version: 09/12/2011 Source: EPA Region 6
Date Data Arrived at EDR: 09/13/2011 Telephone: 214-665-6597
Date Made Active in Reports: 11/11/2011 Last EDR Contact: 07/26/2012
Number of Days to Update: 59 Next Scheduled EDR Contact: 11/12/2012
Data Release Frequency: Varies

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

Date of Government Version: 08/17/2012 Source: EPA Region 7
Date Data Arrived at EDR: 08/28/2012 Telephone: 913-551-7003
Date Made Active in Reports: 10/16/2012 Last EDR Contact: 07/26/2012
Number of Days to Update: 49 Next Scheduled EDR Contact: 11/12/2012
Data Release Frequency: Varies

State and tribal registered storage tank lists

UST: Petroleum Storage Tanks

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

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

AST: Aboveground Petroleum Storage Tanks
Registered Aboveground Storage Tanks.

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

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

INDIAN UST R1: Underground Storage Tanks on Indian Land

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

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

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/03/2012
Next Scheduled EDR Contact: 11/12/2012
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

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

Date of Government Version: 12/14/2011
Date Data Arrived at EDR: 12/15/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 26

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 07/26/2012
Next Scheduled EDR Contact: 11/12/2012
Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

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

Date of Government Version: 02/28/2012
Date Data Arrived at EDR: 02/29/2012
Date Made Active in Reports: 05/15/2012
Number of Days to Update: 76

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

INDIAN UST R6: Underground Storage Tanks on Indian Land

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

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

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 07/26/2012
Next Scheduled EDR Contact: 11/12/2012
Data Release Frequency: Semi-Annually

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 08/17/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN UST R8: Underground Storage Tanks on Indian Land

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

Date of Government Version: 08/27/2012	Source: EPA Region 8
Date Data Arrived at EDR: 08/28/2012	Telephone: 303-312-6137
Date Made Active in Reports: 10/16/2012	Last EDR Contact: 07/26/2012
Number of Days to Update: 49	Next Scheduled EDR Contact: 11/12/2012
	Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land

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

Date of Government Version: 08/01/2012	Source: EPA Region 10
Date Data Arrived at EDR: 08/02/2012	Telephone: 206-553-2857
Date Made Active in Reports: 10/16/2012	Last EDR Contact: 07/26/2012
Number of Days to Update: 75	Next Scheduled EDR Contact: 11/12/2012
	Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land

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

Date of Government Version: 09/06/2012	Source: EPA Region 9
Date Data Arrived at EDR: 09/07/2012	Telephone: 415-972-3368
Date Made Active in Reports: 10/16/2012	Last EDR Contact: 07/26/2012
Number of Days to Update: 39	Next Scheduled EDR Contact: 11/12/2012
	Data Release Frequency: Quarterly

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010	Source: FEMA
Date Data Arrived at EDR: 02/16/2010	Telephone: 202-646-5797
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 10/15/2012
Number of Days to Update: 55	Next Scheduled EDR Contact: 01/28/2013
	Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

AUL: Sites with Controls

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

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

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

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

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN VCP R7: Voluntary Cleanup Priority Listing

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

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

VCP: Sites Participating in the Voluntary Cleanup Program

Sites participating in the Voluntary Cleanup Program.

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

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Site List

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

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

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

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

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

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

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

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ODI: Open Dump Inventory

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

Date of Government Version: 06/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	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	Source: Department of Natural Resources
Date Data Arrived at EDR: 07/19/2006	Telephone: 573-751-5401
Date Made Active in Reports: 08/18/2006	Last EDR Contact: 01/12/2009
Number of Days to Update: 30	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	Source: Department of Natural Resources
Date Data Arrived at EDR: 12/23/2009	Telephone: 573-526-3944
Date Made Active in Reports: 01/21/2010	Last EDR Contact: 09/19/2012
Number of Days to Update: 29	Next Scheduled EDR Contact: 12/17/2012
	Data Release Frequency: Varies

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

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/03/2007	Telephone: 703-308-8245
Date Made Active in Reports: 01/24/2008	Last EDR Contact: 08/03/2012
Number of Days to Update: 52	Next Scheduled EDR Contact: 11/19/2012
	Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs

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

Date of Government Version: 03/16/2012	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 06/12/2012	Telephone: 202-307-1000
Date Made Active in Reports: 07/16/2012	Last EDR Contact: 09/05/2012
Number of Days to Update: 34	Next Scheduled EDR Contact: 12/17/2012
	Data Release Frequency: Quarterly

DEL SHWS: Registry Sites Withdrawn or Deleted

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

Date of Government Version: 06/06/2012	Source: Department of Natural Resources
Date Data Arrived at EDR: 06/07/2012	Telephone: 573-522-3710
Date Made Active in Reports: 07/18/2012	Last EDR Contact: 09/18/2012
Number of Days to Update: 41	Next Scheduled EDR Contact: 12/17/2012
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CDL: Environmental Emergency Response System

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

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

US HIST CDL: National Clandestine Laboratory Register

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

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

Local Land Records

LIENS 2: CERCLA Lien Information

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

Date of Government Version: 02/16/2012	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/26/2012	Telephone: 202-564-6023
Date Made Active in Reports: 06/14/2012	Last EDR Contact: 07/27/2012
Number of Days to Update: 80	Next Scheduled EDR Contact: 11/12/2012
	Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

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

Date of Government Version: 04/01/2012	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 04/03/2012	Telephone: 202-366-4555
Date Made Active in Reports: 06/14/2012	Last EDR Contact: 10/02/2012
Number of Days to Update: 72	Next Scheduled EDR Contact: 01/14/2013
	Data Release Frequency: Annually

SPILLS: Environmental Response Tracking Database

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

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

Other Ascertainable Records

RCRA-NonGen: RCRA - Non Generators

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transportation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 08/07/2012
Next Scheduled EDR Contact: 11/19/2012
Data Release Frequency: Varies

DOD: Department of Defense Sites

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

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

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 10/18/2012
Next Scheduled EDR Contact: 01/28/2013
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

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

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 08/12/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 112

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 09/10/2012
Next Scheduled EDR Contact: 12/24/2012
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

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

Date of Government Version: 06/01/2012
Date Data Arrived at EDR: 07/24/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 56

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 10/01/2012
Next Scheduled EDR Contact: 01/14/2013
Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 02/27/2012
Date Data Arrived at EDR: 03/14/2012
Date Made Active in Reports: 06/14/2012
Number of Days to Update: 92

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 09/12/2012
Next Scheduled EDR Contact: 12/24/2012
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

MINES: Mines Master Index File

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

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

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

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

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

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 09/20/2012
Next Scheduled EDR Contact: 12/10/2012
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

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

Date of Government Version: 12/31/2006
Date Data Arrived at EDR: 09/29/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 64

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/29/2012
Next Scheduled EDR Contact: 01/07/2013
Data Release Frequency: Every 4 Years

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

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

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/22/2012
Next Scheduled EDR Contact: 12/10/2012
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/22/2012
Next Scheduled EDR Contact: 12/10/2012
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

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

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

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

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

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 07/27/2012
Next Scheduled EDR Contact: 11/12/2012
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 07/20/2011
Date Data Arrived at EDR: 11/10/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 61

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

PADS: PCB Activity Database System

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

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

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 10/19/2012
Next Scheduled EDR Contact: 01/28/2013
Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

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

Date of Government Version: 06/21/2011
Date Data Arrived at EDR: 07/15/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 60

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RADINFO: Radiation Information Database

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

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

FINDS: Facility Index System/Facility Registry System

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

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

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

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

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

UIC: Underground Injection Wells Database

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

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

DRYCLEANERS: Drycleaners in Missouri Listing

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/18/2012
Date Data Arrived at EDR: 09/19/2012
Date Made Active in Reports: 10/09/2012
Number of Days to Update: 20

Source: Department of Natural Resources
Telephone: 573-526-8913
Last EDR Contact: 09/18/2012
Next Scheduled EDR Contact: 12/31/2012
Data Release Frequency: Varies

RRC: Certified Hazardous Waste Resource Recovery Facilities

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

Date of Government Version: 09/13/2012
Date Data Arrived at EDR: 09/20/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 26

Source: Department of Natural Resources
Telephone: 573-751-3176
Last EDR Contact: 09/18/2012
Next Scheduled EDR Contact: 12/31/2012
Data Release Frequency: Semi-Annually

NPDES: Permitted Facility Listing

A listing of permitted facilities from the Water Pollution Branch.

Date of Government Version: 07/13/2012
Date Data Arrived at EDR: 07/16/2012
Date Made Active in Reports: 09/07/2012
Number of Days to Update: 53

Source: Department of Natural Resources
Telephone: 573-751-7023
Last EDR Contact: 10/04/2012
Next Scheduled EDR Contact: 01/21/2013
Data Release Frequency: Varies

AIRS: Permit Facility Listing

A listing of Air Pollution Control Program permits.

Date of Government Version: 09/18/2012
Date Data Arrived at EDR: 09/21/2012
Date Made Active in Reports: 10/09/2012
Number of Days to Update: 18

Source: Department of Natural Resources
Telephone: 573-751-4817
Last EDR Contact: 09/18/2012
Next Scheduled EDR Contact: 12/31/2012
Data Release Frequency: Varies

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 10/18/2012
Next Scheduled EDR Contact: 01/28/2013
Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

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

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 10/22/2012
Next Scheduled EDR Contact: 02/04/2013
Data Release Frequency: Varies

FINANCIAL ASSURANCE 2: Financial Assurance Information Listing

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

COAL ASH: Coal Ash Disposal Sites

A listing of power plants with coal ash ponds.

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

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

FINANCIAL ASSURANCE 1: Financial Assurance Information Listing

Financial Assurance information.

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

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

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 11/11/2011
Date Data Arrived at EDR: 05/18/2012
Date Made Active in Reports: 05/25/2012
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 08/16/2012
Next Scheduled EDR Contact: 11/26/2012
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

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

Date of Government Version: 08/17/2010
Date Data Arrived at EDR: 01/03/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 77

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

COAL ASH DOE: Sleam-Electric Plan Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 10/16/2012
Next Scheduled EDR Contact: 01/28/2013
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 08/03/2012
Next Scheduled EDR Contact: 11/12/2012
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

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

EPA WATCH LIST: EPA WATCH LIST

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

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

FEDLAND: Federal and Indian Lands

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

Date of Government Version: 12/31/2005	Source: U.S. Geological Survey
Date Data Arrived at EDR: 02/06/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 10/18/2012
Number of Days to Update: 339	Next Scheduled EDR Contact: 01/28/2013
	Data Release Frequency: N/A

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

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

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

OTHER DATABASE(S)

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

CT MANIFEST: Hazardous Waste Manifest Data

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

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

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

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

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

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

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

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

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

RI MANIFEST: Manifest information

Hazardous waste manifest information

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

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

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

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

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

Electric Power Transmission Line Data

Source: Rextag Strategies Corp.

Telephone: (281) 769-2247

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

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

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

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

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

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

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

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

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

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

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

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

Daycare Centers: Licensed Child Care Facilities

Source: Department of Health & Senior Services

Telephone: 573-751-2450

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

HISTORIC HALL OF WATERS BUILDING
201 EAST BROADWAY
EXCELSIOR SPRINGS, MO 64024

TARGET PROPERTY COORDINATES

Latitude (North):	39.3423 - 39° 20' 32.28"
Longitude (West):	94.2223 - 94° 13' 20.28"
Universal Transverse Mercator:	Zone 15
UTM X (Meters):	394666.4
UTM Y (Meters):	4355266.5
Elevation:	784 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	39094-C2 EXCELSIOR SPRINGS, MO
Most Recent Revision:	1975

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).

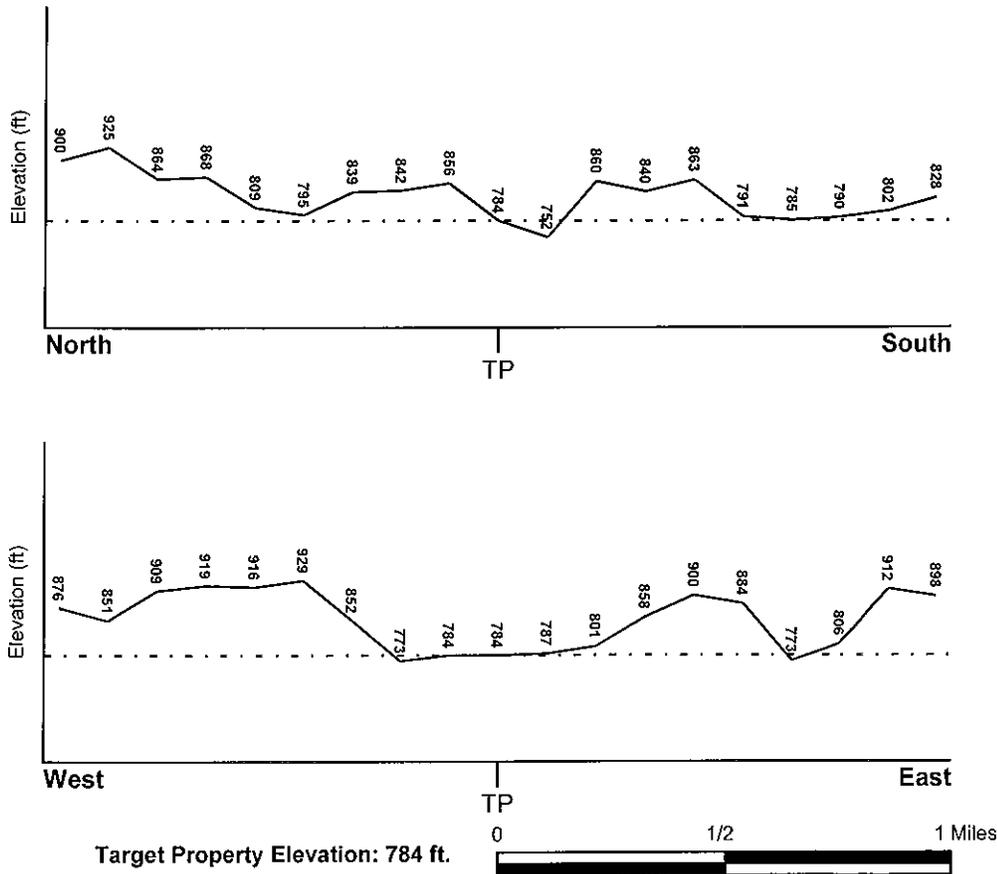
TOPOGRAPHIC INFORMATION

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 WNW

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> CLAY, MO	<u>FEMA Flood Electronic Data</u> YES - refer to the Overview Map and Detail Map
Flood Plain Panel at Target Property:	2900900002B - FEMA Q3 Flood data
Additional Panels in search area:	2900860050B - FEMA Q3 Flood data 2900860100A - FEMA Q3 Flood data

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u> EXCELSIOR SPRINGS	<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

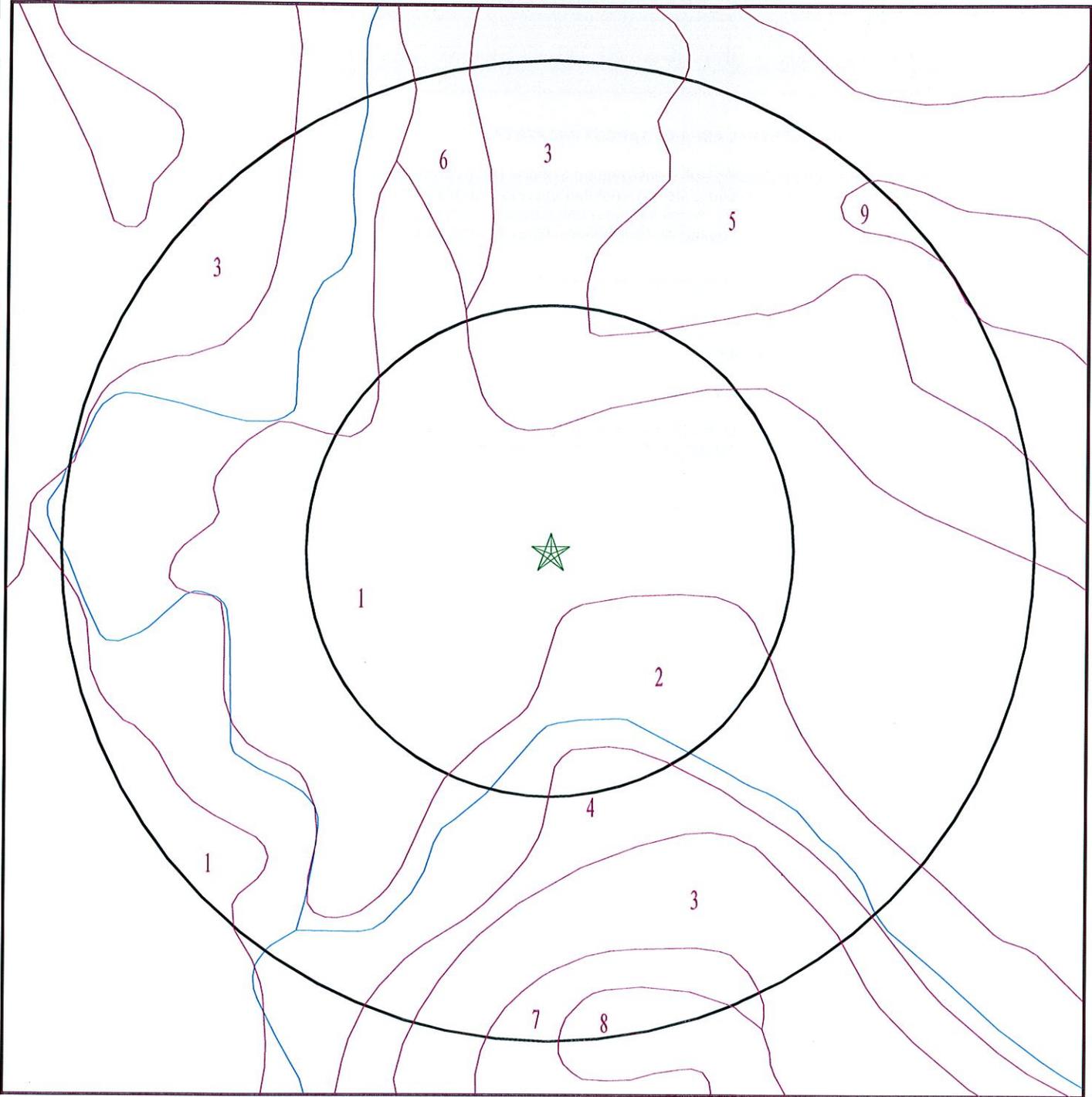
Era:	Paleozoic
System:	Pennsylvanian
Series:	Missourian Series
Code:	PP3 (<i>decoded above as Era, System & Series</i>)

GEOLOGIC AGE IDENTIFICATION

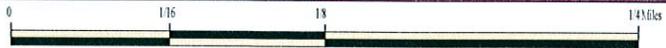
Category: Stratified Sequence

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 - 3439514.2s



- ★ Target Property
- ∕ SSURGO Soil
- ∕ Water



SITE NAME: Historic Hall of Waters Building
ADDRESS: 201 East Broadway
Excelsior Springs MO 64024
LAT/LONG: 39.3423 / 94.2223

CLIENT: Browning & Associates, Inc.
CONTACT: Bill Browning
INQUIRY #: 3439514.2s
DATE: October 23, 2012 6:27 pm

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

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

Soil Map ID: 1

Soil Component Name: 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

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	11 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 6.5 Min: 6.1
2	11 inches	48 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 6.5 Min: 6.1
3	48 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	Max: 14 Min: 4	Max: 6.5 Min: 6.1

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 2

Soil Component Name: Nodaway

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	7 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 7.3 Min: 6.1
2	7 inches	59 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 7.3 Min: 6.1

Soil Map ID: 3

Soil Component Name: Snead

Soil Surface Texture: flaggy silty clay loam

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

Soil Drainage Class: Moderately well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 76 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	11 inches	flaggy silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 1.4 Min: 0	Max: Min:
2	11 inches	18 inches	flaggy silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 1.4 Min: 0	Max: Min:
3	18 inches	38 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 1.4 Min: 0	Max: Min:
4	38 inches	59 inches	bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 1.4 Min: 0	Max: Min:

Soil Map ID: 4

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

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Partially 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	14 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 6.5 Min: 5.6
2	14 inches	50 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: 4 Min: 1.4	Max: 6.5 Min: 5.6
3	50 inches	59 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 6.5 Min: 5.6

Soil Map ID: 5

Soil Component Name: Snead

Soil Surface Texture: silty clay loam

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

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 76 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	7 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 1.4 Min: 0	Max: Min:
2	7 inches	29 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 1.4 Min: 0	Max: Min:
3	29 inches	59 inches	bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 1.4 Min: 0	Max: Min:

Soil Map ID: 6

Soil Component Name: Greenton

Soil Surface Texture: silty clay loam

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

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 53 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 8.4 Min: 6.6
2	5 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 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 8.4 Min: 6.6
3	46 inches	59 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 8.4 Min: 6.6

Soil Map ID: 7

Soil Component Name: Ladoga

Soil Surface Texture: silt loam

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

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 137 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	7 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 6.5 Min: 5.1
2	7 inches	51 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 6.5 Min: 5.1
3	51 inches	59 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 6.5 Min: 5.1

Soil Map ID: 8

Soil Component Name: Ladoga

Soil Surface Texture: silt loam

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

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 137 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), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 6.5 Min: 5.1
2	11 inches	46 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 6.5 Min: 5.1
3	46 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	Max: 14 Min: 4	Max: 6.5 Min: 5.1

Soil Map ID: 9

Soil Component Name: Ladoga

Soil Surface Texture: silt loam

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

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 137 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	7 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 6.5 Min: 5.1
2	7 inches	53 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 6.5 Min: 5.1
3	53 inches	59 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 6.5 Min: 5.1

LOCAL / REGIONAL WATER AGENCY RECORDS

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

WELL SEARCH DISTANCE INFORMATION

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

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A1	USGS2625206	0 - 1/8 Mile South
A2	USGS2625205	0 - 1/8 Mile South
A7	USGS2625207	0 - 1/8 Mile WSW
8	USGS2625210	0 - 1/8 Mile WNW
9	USGS2625204	1/8 - 1/4 Mile WSW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
10	USGS2625209	1/8 - 1/4 Mile West
12	USGS2625208	1/4 - 1/2 Mile East
B14	USGS2625211	1/2 - 1 Mile North

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
11	MO1024147	1/4 - 1/2 Mile SW

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

STATE DATABASE WELL INFORMATION

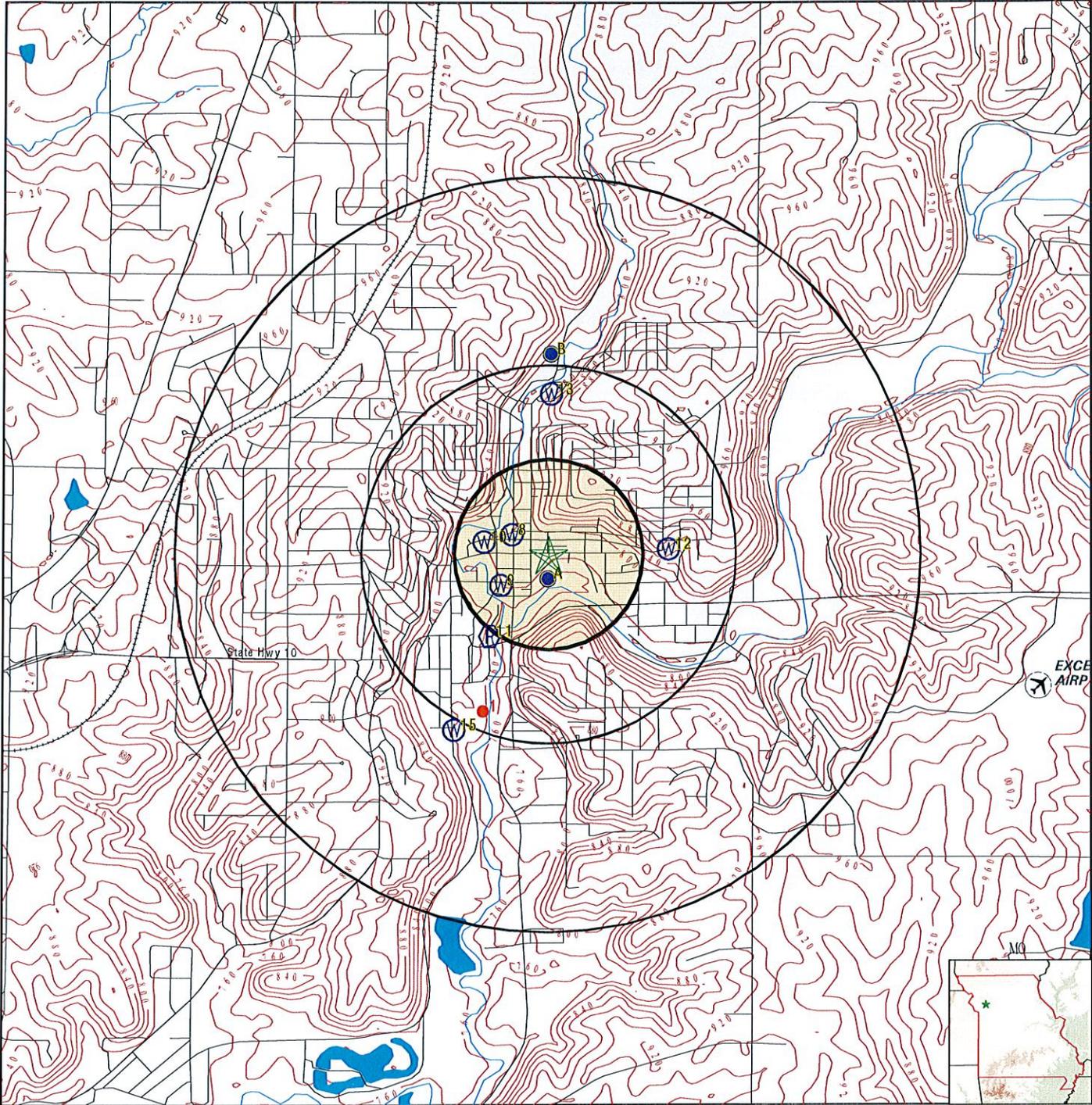
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A3	MOLOG1000022866	0 - 1/8 Mile South
A4	MOLOG1000022865	0 - 1/8 Mile South
A5	MOLOG1000022863	0 - 1/8 Mile South
A6	MOLOG1000022864	0 - 1/8 Mile South
13	MOLOG1000022884	1/4 - 1/2 Mile North
15	MOLOG1000022850	1/2 - 1 Mile SSW
B16	MOLOG1000022888	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	MOOG40000009468	1/4 - 1/2 Mile SSW

PHYSICAL SETTING SOURCE MAP - 3439514.2s



- 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: Historic Hall of Waters Building
 ADDRESS: 201 East Broadway
 Excelsior Springs MO 64024
 LAT/LONG: 39.3423 / 94.2223

CLIENT: Browning & Associates, Inc.
 CONTACT: Bill Browning
 INQUIRY #: 3439514.2s
 DATE: October 23, 2012 6:27 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

A1
South
0 - 1/8 Mile
Lower

FED USGS USGS2625206

Agency cd:	USGS	Site no:	392030094132001
Site name:	T52N R30W 01CDA3	EDR Site id:	USGS2625206
Latitude:	392030	Dec lat:	39.34167135
Longitude:	0941320	Coord meth:	M
Dec lon:	-94.22244475	Latlong datum:	NAD27
Coord accr:	M	District:	29
Dec latlong datum:	NAD83	County:	047
State:	29	Land net:	NESESWS01 T52N R30W 5
Country:	US	Map scale:	24000
Location map:	EXCELSIOR SPRINGS		
Altitude:	763.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Lower Missouri Crooked. Kansas, Missouri. Area = 2650 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19440401
Date inventoried:	Not Reported	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	PLEASANTON GROUP		
Well depth:	110	Hole depth:	110
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0		
Daily flow data end date:	0000-00-00	Daily flow data begin date:	0000-00-00
Peak flow data begin date:	0000-00-00	Daily flow data count:	0
Peak flow data count:	0	Peak flow data end date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data begin date:	0000-00-00
Ground water data begin date:	1944-04-01	Water quality data count:	0
Ground water data count:	1	Ground water data end date:	1944-04-01

Ground-water levels, Number of Measurements: 1

	Feet below	Feet to
Date	Surface	Sealevel

1944-04-01	88	

A2
South
0 - 1/8 Mile
Lower

FED USGS USGS2625205

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	392029094131901
Site name:	T52N R30W 01CDA1	EDR Site id:	USGS2625205
Latitude:	392029	Dec lat:	39.34139358
Longitude:	0941319	Coord meth:	M
Dec lon:	-94.22216697	Latlong datum:	NAD27
Coord accr:	S	District:	29
Dec latlong datum:	NAD83	County:	047
State:	29	Land net:	NESESWS01 T52N R30W 5
Country:	US	Map scale:	24000
Location map:	EXCELSIOR SPRINGS		
Altitude:	792.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5.		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Lower Missouri Crooked. Kansas, Missouri. Area = 2650 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19350101
Date inventoried:	Not Reported	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	1460	Hole depth:	1460
Source of depth data:	logs		
Project number:	Not Reported		
Real time data flag:	0		
Daily flow data end date:	0000-00-00	Daily flow data begin date:	0000-00-00
Peak flow data begin date:	0000-00-00	Daily flow data count:	0
Peak flow data count:	0	Peak flow data end date:	0000-00-00
Water quality data end date:	1935-05-15	Water quality data begin date:	1935-05-15
Ground water data begin date:	0000-00-00	Water quality data count:	1
Ground water data count:	0	Ground water data end date:	0000-00-00

Ground-water levels, Number of Measurements: 0

A3
South
0 - 1/8 Mile
Lower

MO WELLS MOLOG1000022866

Id:	008531	Located:	Not Reported
Not enough:	Not Reported	Scale:	100k
Locator:	VBProgram	Sname:	MISSOURI
Stabbrev:	MO	County:	CLAY
Utm x:	394687		
Utm y:	4355145		
Latitude:	39.34121		
Longitude:	-94.22204		
Qtr3:	NE	Qtr2:	SE
Qtr1:	SW		
Section:	1		
Tnsp:	52		
Tnspdir:	Not Reported		
Rng:	30		
Rngdir:	W		
P1ssx:	394787		
P1ssy:	4355647		
Location p:	142		
Elev:	763		
Idnum:	8531		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Swl:	88	Site id:	MOLOG1000022866
Quadrangle:	EXCELSIOR SPRINGS		
Header Information:			
Id:	008531	Well type:	Community Public Well
Agencyname:	GEOLOGICAL SURVEY (DGLS)	County:	CLAY
Fips:	047	Stname:	MISSOURI
Stabbrev:	MO	Qtr3:	NE
Qtr2:	SE	Qtr1:	SW
Section:	01	Tnsp:	52
Tnspdir:	N	Rng:	30
Rngdir:	W		
Latitude:	39.34121		
Longitude:	-94.22204		
Utm x:	394687		
Utm y:	4355145		
Quadmap na:	EXCELSIOR SPRINGS	Ohio code:	39094C2
Llmeas:	D	Scale:	100k
Locator:	VBProgram	Typelog1:	S
Typelog2:	Not Reported	Typelog3:	Not Reported
Ownerind:	1	Owner:	City of Excelsior Springs Well #1
Leasenam:	Not Reported	Driller:	Layne-Western
Drldate:	1944/04/01	Permit:	Not Reported
Logdate:	0000/00/00	Logger:	McManamy
Elev:	763		
Elevbase:	S	Prodyld:	Not Reported
Gpmcfs:	Not Reported		
Depthbed:	10		
Sampsav:	1	Swla:	88
Swlb:	Not Reported		
Water at:	22'		
Totdepth:	110	Formation :	PLEASANTON GROUP
Formation1:	PLEASANTON GROUP		
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:	PUBLIC DRINKING WATER
Atagency1:	PW	Add databa:	1010261
Addition 1:	Not Reported	Add data 1:	Not Reported
Alnum2:	Not Reported	Add data 2:	Not Reported
Add data 3:	Not Reported	Rmkind:	Y
Remarks:	SODA WATER WELL, MINERAL WATER SYSTEM		
C total:	152	C plugind:	N
C remarks:	GROUTED WITH 10 SX OF CEMENT		
Construction Information:			
Id:	008531	Well type:	Community Public Well
Agencyname:	GEOLOGICAL SURVEY (DGLS)	Datecomp:	194404
Plugind:	N	Dateplug:	Not Reported
Casemat1:	Not Reported	Casemat2:	Not Reported
Cas1dpth:	44		
Cas1diam:	10		
Cas2dpth:	108		
Cas2diam:	8		
Cas3dpth:	0		
Cas3diam:	0		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Cas4dpth:	0		
Cas4diam:	0		
Inout1:	0	Typgrr1:	C
Typgrr2:	Not Reported	Typgrr3:	Not Reported
Mthgrout:	G	Rigtype:	Not Reported
Weltreat:	Not Reported	Rmkind:	Y
Dateabnd:	Not Reported		
Plgdpt1b:	0		
Plgdpt1t:	0		
Multcase:	Y		
Szcashol:	0		
Szbelcas:	0		
Sizscrn:	0		
Slotsize:	0		
Lenscrn:	0		
Typescrn:	Not Reported	Typedev:	Not Reported
Typepump:	Not Reported		
Pumpcap:	0		
Pumpldh:	0		
Pumpset:	0		
Typecomp:	Not Reported		
Perfintt:	0		
Perfintb:	0		
Oilprod:	Not Reported	Gasprod:	Not Reported
Tubeptes:	Not Reported	Remarks:	GRouted WITH 10 SX OF CEMENT
Other data:	Not Reported	Formation :	PLEASANTON GROUP
Formation1:	PLEASANTON GROUP		

Strata Information:			
Id:	008531	Stratordr:	100
Fmtp:	0		
Fmbot:	10		
Formation :	RESIDUUM & TOP SOIL		
Primlith:	CLAY	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:	008531	Stratordr:	4800
Fmtp:	10		
Fmbot:	110		
Formation :	PENNSYLVANIAN SYSTEM		
Primlith:	Not Reported	Minlith:	Not Reported
Seclith:	Not Reported		
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Minrocc: 0
Rmk20: Not Reported

Strata Information:

Id:	008531	Stratordr:	13500
Fmtop:	10		
Fmbot:	110		
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:	008531	Stratordr:	18800
Fmtop:	10		
Fmbot:	110		
Formation :	PLEASANTON GROUP		
Primlith:	SHALE		
Seclith:	LIMESTONE	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	008531	Stratordr:	99900
Fmtop:	110		
Fmbot:	110		
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		

Remarks:

Id:	008531	Feature:	WC
Agency:	GS	Fileid:	H
Remarks:	SODA WATERWELL, MINERAL WATER SYSTEM		

Remarks:

Id:	008531	Feature:	WC
Agency:	GS	Fileid:	C
Remarks:	2ND CASING 8" TO 108'		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

A4
South
0 - 1/8 Mile
Lower

MO WELLS MOLOG1000022865

Id:	009076	Located:	Not Reported
Notenough:	Not Reported	Scale:	100k
Locator:	VBProgram	Sname:	MISSOURI
Stabbrev:	MO	County:	CLAY
Utm x:	394687		
Utm y:	4355145		
Latitude:	39.34121		
Longitude:	-94.22204		
Qtr3:	NE	Qtr2:	SE
Qtr1:	SW		
Section:	1		
Tnsp:	52		
Tnspdir:	Not Reported		
Rng:	30		
Rngdir:	W		
Plssx:	394787		
Plssy:	4355647		
Location p:	142		
Elev:	760		
Idnum:	9076		
Swl:	0		
Quadrangle:	EXCELSIOR SPRINGS	Site id:	MOLOG1000022865

Header Information:

Id:	009076	Well type:	Community Public Well
Agencyname:	GEOLOGICAL SURVEY (DGLS)	County:	CLAY
Fips:	047	Sname:	MISSOURI
Stabbrev:	MO	Qtr3:	NE
Qtr2:	SE	Qtr1:	SW
Section:	01	Tnsp:	52
Tnspdir:	N	Rng:	30
Rngdir:	W		
Latitude:	39.34121		
Longitude:	-94.22204		
Utm x:	394687		
Utm y:	4355145		
Quadmap na:	EXCELSIOR SPRINGS	Ohio code:	39094C2
Llmeas:	D	Scale:	100k
Locator:	VBProgram	Typelog1:	Not Reported
Typelog2:	S	Typelog3:	Not Reported
Ownerind:	1	Owner:	Mineral Water System Co #2
Leasenam:	Not Reported	Driller:	Layne-Western
Drldate:	1946/02/00	Permit:	Not Reported
Logdate:	1946/03/00	Logger:	A.R. Ostrander
Elev:	760		
Elevbase:	S	Prodyld:	Not Reported
Gpmcfs:	G		
Depthbed:	0		
Sampsav:	0	Swla:	Not Reported
Swlb:	Not Reported		
Water at:	Not Reported		
Totdepth:	107	Formation :	PLEASANTON GROUP
Formation1:	MARMATON GROUP		
Intcrdtp:	0		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Intcrdbt:	0	Aquclass:	Not Reported
Drawdown:	Not Reported	Reidate:	Not Reported
Confind:	0	Probind2:	Not Reported
Probind1:	Not Reported	Additional:	Not Reported
Probind3:	Not Reported	Add databa:	Not Reported
Alagency1:	Not Reported	Add data 1:	Not Reported
Addition 1:	Not Reported	Add data 2:	Not Reported
Alnum2:	Not Reported	Rmkind:	N
Add data 3:	Not Reported	C plugind:	N
Remarks:	50' E OF HALL OF WATERS; YIELD - 50 G/DAY - DRILLER'S LOG ONLY		
C total:	156		
C remarks:	Not Reported		

Construction Information:

Id:	009076	Well type:	Private Well
Agencyname:	GEOLOGICAL SURVEY (DGLS)	Datecomp:	194602
Plugind:	N	Dateplug:	Not Reported
Casemat1:	Not Reported	Casemat2:	Not Reported
Cas1dpth:	46		
Cas1diam:	10		
Cas2dpth:	110		
Cas2diam:	8		
Cas3dpth:	0		
Cas3diam:	0		
Cas4dpth:	0		
Cas4diam:	0		
Inout1:	0	Typgrrt1:	Not Reported
Typgrrt2:	Not Reported	Typgrrt3:	Not Reported
Mthgrout:	Not Reported	Rigtype:	Not Reported
Weltreat:	Not Reported	Rmkind:	Not Reported
Dateabnd:	Not Reported		
Plgdpt1b:	0		
Plgdpt1t:	0		
Multcase:	N		
Szcashol:	0		
Szbelcas:	0		
Sizscrn:	0		
Slotsize:	0		
Lenscrn:	0		
Typescrn:	Not Reported	Typedev:	Not Reported
Typepump:	Not Reported		
Pumpcap:	0		
Pumpthd:	0		
Pumpset:	0		
Typecomp:	Not Reported		
Perfintt:	0		
Perfintb:	0		
Oilprod:	Not Reported	Gasprod:	Not Reported
Tubepras:	Not Reported	Remarks:	Not Reported
Other data:	Not Reported	Formation :	MARMATON GROUP
Formation1:	MARMATON GROUP		

Strata Information:

Id:	009076	Stratordr:	4800
Fmtp:	0		
Fmbot:	107		
Formation :	PENNSYLVANIAN SYSTEM		
Primlith:	Not Reported	Minlith:	Not Reported
Seclith:	Not Reported		
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Minrocc: 0
Rmk20: Not Reported

Strata Information:

Id:	009076	Stratordr:	18800
Fmtp:	0		
Fmbot:	65		
Formation :	PLEASANTON GROUP		
Prmlith:	SHALE		
Seclith:	SAND	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	009076	Stratordr:	19600
Fmtp:	65		
Fmbot:	107		
Formation :	MARMATON GROUP		
Prmlith:	DOLOMITE		
Seclith:	LIMESTONE	Minlith:	SHALE
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	009076	Stratordr:	99900
Fmtp:	107		
Fmbot:	107		
Formation :	TOTAL DEPTH		
Prmlith:	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		

A5
South
0 - 1/8 Mile
Lower

MO WELLS MOLOG1000022863

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Id: Not enough: Locator: Stabbrev: Utm x: Utm y: Latitude: Longitude: Qtr3: Qtr1: Section: Tnsp: Tnsmdir: Rng: Rngdir: Plssx: Plssy: Location p: Elev: Idnum: Swl: Quadrangle:	009619 Not Reported VBProgram MO 394687 4355145 39.34121 -94.22204 NE SW 1 52 Not Reported 30 W 394787 4355647 142 761 9619 0 EXCELSIOR SPRINGS	Located: Scale: Sname: County: Qtr2: Site id:	Not Reported 100k MISSOURI CLAY SE MOLOG1000022863
---	--	--	---

Header Information:

Id: Agencyname: Fips: Stabbrev: Qtr2: Section: Tnsmdir: Rngdir: Latitude: Longitude: Utm x: Utm y: Quadmap na: Lmeas: Locator: Typelog2: Ownerind: Leasename: Drldate: Logdate: Elev: Elevbase: Gpmcfs: Depthbed: Sampsav: Swl: Water at: Totdepth: Formation1: Intrdtp:	009619 GEOLOGICAL SURVEY (DGLS) 047 MO SE 01 N W 39.34121 -94.22204 394687 4355145 EXCELSIOR SPRINGS D VBProgram S 1 Not Reported 1947/08/00 1947/09/00 761 S Not Reported 21 0 Not Reported 44' 100 PLEASANTON GROUP 0	Well type: County: Sname: Qtr3: Qtr1: Tnsp: Rng: Ohio code: Scale: Typelog1: Typelog3: Owner: Driller: Permit: Logger: Prodyld: Swla: Formation :	Community Public Well CLAY MISSOURI NE SW 52 30 39094C2 100k Not Reported Not Reported Excelsior Springs Mineral Water Cullum & Brown Not Reported McCracken Not Reported Not Reported PLEASANTON GROUP
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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Intcrdbt:	0	Aquclass:	Not Reported
Drawdown:	Not Reported	Reidate:	Not Reported
Confind:	0	Probind2:	Not Reported
Probind1:	Not Reported	Additional:	Not Reported
Probind3:	Not Reported	Add databa:	Not Reported
Alagency1:	Not Reported	Add data 1:	Not Reported
Addition 1:	Not Reported	Add data 2:	Not Reported
Alnum2:	Not Reported	Rmkind:	N
Add data 3:	Not Reported	C plugind:	N
Remarks:	DRILLER'S LOG ONLY		
C total:	53		
C remarks:	Not Reported		

Construction Information:

Id:	009619	Well type:	Private Well
Agencyname:	GEOLOGICAL SURVEY (DGLS)	Datecomp:	194708
Plugind:	N	Dateplug:	Not Reported
Casemat1:	Not Reported	Casemat2:	Not Reported
Cas1dpth:	53		
Cas1diam:	8		
Cas2dpth:	0		
Cas2diam:	0		
Cas3dpth:	0		
Cas3diam:	0		
Cas4dpth:	0		
Cas4diam:	0		
Inout1:	0	Typgrt1:	Not Reported
Typgrt2:	Not Reported	Typgrt3:	Not Reported
Mthgrout:	Not Reported	Rigtype:	Not Reported
Weltreat:	Not Reported	Rmkind:	Not Reported
Dateabnd:	Not Reported		
Plgdp11b:	0		
Plgdp11t:	0		
Multcase:	N		
Szcashol:	0		
Szbelcas:	0		
Sizscrn:	0		
Slotsize:	0		
Lenscrn:	0		
Typescrn:	Not Reported	Typedev:	Not Reported
Typepump:	Not Reported		
Pumpcap:	0		
Pumptdh:	0		
Pumpset:	0		
Typecomp:	Not Reported		
Perfint:	0		
Perfintb:	0		
Oilprod:	Not Reported	Gasprod:	Not Reported
TubePRES:	Not Reported	Remarks:	Not Reported
Other data:	Not Reported	Formation :	PLEASANTON GROUP
Formation1:	PLEASANTON GROUP		

Strata Information:

Id:	009619	Stratordr:	0
Fmtp:	0		
Fmbot:	21		
Formation :	NO SAMPLES		
Primlith:	Not Reported		
Seclith:	Not Reported	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Minrocc: 0
Rmk20: Not Reported

Strata Information:

Id:	009619	Stratordr:	4800
Fmtop:	21		
Fmbot:	100		
Formation :	PENNSYLVANIAN SYSTEM		
Prmlith:	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:	009619	Stratordr:	18800
Fmtop:	21		
Fmbot:	100		
Formation :	PLEASANTON GROUP		
Prmlith:	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:	009619	Stratordr:	99900
Fmtop:	100		
Fmbot:	100		
Formation :	TOTAL DEPTH		
Prmlith:	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		

A6
South
0 - 1/8 Mile
Lower

MO WELLS MOLOG1000022864

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Id:	011079	Located:	Not Reported
Notenough:	Not Reported	Scale:	100k
Locator:	VBProgram	Sname:	MISSOURI
Stabbrev:	MO	County:	CLAY
Utm x:	394687		
Utm y:	4355145		
Latitude:	39.34121		
Longitude:	-94.22204		
Qtr3:	NE	Qtr2:	SE
Qtr1:	SW		
Section:	1		
Tnsp:	52		
Tnspdir:	Not Reported		
Rng:	30		
Rngdir:	W		
Plssx:	394787		
Plssy:	4355647		
Location p:	142		
Elev:	761		
Idnum:	11079		
Swl:	0		
Quadrangle:	EXCELSIOR SPRINGS	Site id:	MOLOG1000022864

Header Information:

Id:	011079	Well type:	Community Public Well
Agencyname:	GEOLOGICAL SURVEY (DGLS)	County:	CLAY
Fips:	047	Sname:	MISSOURI
Stabbrev:	MO	Qtr3:	NE
Qtr2:	SE	Qtr1:	SW
Section:	01	Tnsp:	52
Tnspdir:	N	Rng:	30
Rngdir:	W		
Latitude:	39.34121		
Longitude:	-94.22204		
Utm x:	394687		
Utm y:	4355145		
Quadmap na:	EXCELSIOR SPRINGS	Ohio code:	39094C2
Llmeas:	D	Scale:	100k
Locator:	VBProgram	Typelog1:	Not Reported
Typelog2:	S	Typelog3:	Not Reported
Ownerind:	1	Owner:	Excelsior Springs Mineral Wtr System
Leasenam:	Well #3	Driller:	Cullum & Brown
Drldate:	1947/09/08	Permit:	Not Reported
Logdate:	1949/11/18	Logger:	McCracken
Elev:	761		
Elevbase:	S	Prodyld:	Not Reported
Gpmcfs:	Not Reported		
Depthbed:	20		
Sampsav:	0	Swla:	Not Reported
Swlb:	Not Reported		
Water at:	Not Reported		
Totdepth:	100	Formation :	PLEASANTON GROUP
Formation1:	PLEASANTON GROUP		
Intcrdtp:	0		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Intcrdbt:	0	Aquclass:	Not Reported
Drawdown:	Not Reported	Reldate:	Not Reported
Confind:	0	Probind2:	Not Reported
Probind1:	Not Reported	Additional:	Not Reported
Probind3:	Not Reported	Add databa:	1010261
Alagency1:	Not Reported	Add data 1:	Not Reported
Addition 1:	Not Reported	Add data 2:	Not Reported
Alnum2:	Not Reported	Rmkind:	N
Add data 3:	Not Reported	C plugind:	N
Remarks:	HALL OF WATER GROUNDS		
C total:	0		
C remarks:	Not Reported		

Construction Information:

Id:	011079	Well type:	Private Well
Agencyname:	GEOLOGICAL SURVEY (DGLS)	Datecomp:	194709
Plugind:	N	Dateplug:	Not Reported
Casemat1:	Not Reported	Casemat2:	Not Reported
Cas1dpth:	0		
Cas1diam:	0		
Cas2dpth:	0		
Cas2diam:	0		
Cas3dpth:	0		
Cas3diam:	0		
Cas4dpth:	0		
Cas4diam:	0		
Inout1:	0	Typgrt1:	Not Reported
Typgrt2:	Not Reported	Typgrt3:	Not Reported
Mthgrout:	Not Reported	Rigtype:	Not Reported
Wellreat:	Not Reported	Rmkind:	Not Reported
Dateabnd:	Not Reported		
Plgdpt1b:	0		
Plgdpt1t:	0		
Multcase:	N		
Szcashol:	0		
Szbelcas:	0		
Sizscrn:	0		
Slotsize:	0		
Lenscrn:	0		
Typescrn:	Not Reported	Typedev:	Not Reported
Typepump:	Not Reported		
Pumpcap:	0		
Pumptdh:	0		
Pumpset:	0		
Typecomp:	Not Reported		
Perfintt:	0		
Perfintb:	0		
Oilprod:	Not Reported	Gasprod:	Not Reported
Tubepres:	Not Reported	Remarks:	Not Reported
Other data:	Not Reported	Formation :	PLEASANTON GROUP
Formation1:	PLEASANTON GROUP		

Strata Information:

Id:	011079	Stratordr:	0
Fmtpo:	0		
Fmbo:	20		
Formation :	NO SAMPLES		
Primlith:	Not Reported	Minlith:	Not Reported
Seclith:	Not Reported		
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Minrocc: 0
Rmk20: Not Reported

Strata Information:

Id:	011079	Stratordr:	4800
Fmtop:	20		
Fmbot:	100		
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:	011079	Stratordr:	13500
Fmtop:	20		
Fmbot:	100		
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:	011079	Stratordr:	18800
Fmtop:	20		
Fmbot:	100		
Formation :	PLEASANTON GROUP		
Primlith:	SHALE		
Seclith:	SAND	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	011079	Stratordr:	99900
Fmtop:	100		
Fmbot:	100		
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		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Minrocc: 0
Rmk20: Not Reported

A7
WSW
0 - 1/8 Mile
Higher

FED USGS USGS2625207

Agency cd:	USGS	Site no:	392030094132401
Site name:	T52N R30W 01CDA2	EDR Site id:	USGS2625207
Latitude:	392030	Dec lat:	39.34167132
Longitude:	0941324	Coor meth:	M
Dec lon:	-94.22355587	Latlong datum:	NAD27
Coor accr:	M	District:	29
Dec latlong datum:	NAD83	County:	047
State:	29	Land net:	NESESWS01 T52N R30W 5
Country:	US	Map scale:	24000
Location map:	EXCELSIOR SPRINGS		
Altitude:	760.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Lower Missouri Crooked. Kansas, Missouri. Area = 2650 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19460224
Date inventoried:	Not Reported	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Unconfined single aquifer		
Aquifer:	ALLUVIUM		
Well depth:	107	Hole depth:	110
Source of depth data:	logs		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	0000-00-00	Ground water data end date:	0000-00-00
Ground water data count:	0		

Ground-water levels, Number of Measurements: 0

8
WNW
0 - 1/8 Mile
Lower

FED USGS USGS2625210

Agency cd:	USGS	Site no:	392035094132601
Site name:	T52N R30W 01CAC1	EDR Site id:	USGS2625210
Latitude:	392035	Dec lat:	39.3430602
Longitude:	0941326	Coor meth:	M
Dec lon:	-94.22411141	Latlong datum:	NAD27
Coor accr:	S	District:	29
Dec latlong datum:	NAD83	County:	047
State:	29	Land net:	SWNESWS01 T52N R30W 5
Country:	US	Map scale:	24000
Location map:	EXCELSIOR SPRINGS		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Altitude: 805.00
 Altitude method: Interpolated from topographic map
 Altitude accuracy: 5.
 Altitude datum: National Geodetic Vertical Datum of 1929
 Hydrologic: Lower MissouriCrooked. Kansas, Missouri. Area = 2650 sq.mi.
 Topographic: Not Reported
 Site type: Ground-water other than Spring Date construction: 19350101
 Date inventoried: Not Reported Mean greenwich time offset: CST
 Local standard time flag: Y
 Type of ground water site: Single well, other than collector or Ranney type
 Aquifer Type: Not Reported
 Aquifer: Not Reported
 Well depth: 202 Hole depth: 202
 Source of depth data: logs
 Project number: Not Reported
 Real time data flag: 0 Daily flow data begin date: 0000-00-00
 Daily flow data end date: 0000-00-00 Daily flow data count: 0
 Peak flow data begin date: 0000-00-00 Peak flow data end date: 0000-00-00
 Peak flow data count: 0 Water quality data begin date: 1935-05-15
 Water quality data end date: 1935-05-15 Water quality data count: 1
 Ground water data begin date: 0000-00-00 Ground water data end date: 0000-00-00
 Ground water data count: 0

Ground-water levels, Number of Measurements: 0

9

WSW
1/8 - 1/4 Mile
Lower

FED USGS USGS2625204

Agency cd: USGS Site no: 392028094132801
 Site name: T52N R30W 01CDB1
 Latitude: 392028 EDR Site id: USGS2625204
 Longitude: 0941328 Dec lat: 39.34111573
 Dec lon: -94.22466701 Coord meth: M
 Coord acc: S Latlong datum: NAD27
 Dec latlong datum: NAD83 District: 29
 State: 29 County: 047
 Country: US Land net: NWSEWS01 T52N R30W 5
 Location map: EXCELSIOR SPRINGS Map scale: 24000
 Altitude: 801.00
 Altitude method: Interpolated from topographic map
 Altitude accuracy: 5.
 Altitude datum: National Geodetic Vertical Datum of 1929
 Hydrologic: Lower MissouriCrooked. Kansas, Missouri. Area = 2650 sq.mi.
 Topographic: Not Reported
 Site type: Ground-water other than Spring Date construction: 19060000
 Date inventoried: Not Reported Mean greenwich time offset: CST
 Local standard time flag: Y
 Type of ground water site: Single well, other than collector or Ranney type
 Aquifer Type: Not Reported
 Aquifer: Not Reported
 Well depth: 750 Hole depth: 750
 Source of depth data: logs
 Project number: Not Reported
 Real time data flag: 0 Daily flow data begin date: 0000-00-00
 Daily flow data end date: 0000-00-00 Daily flow data count: 0
 Peak flow data begin date: 0000-00-00 Peak flow data end date: 0000-00-00

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Peak flow data count: 0	Water quality data begin date: 1936-05-15
Water quality data end date: 1936-05-15	Water quality data count: 1
Ground water data begin date: 0000-00-00	Ground water data end date: 0000-00-00
Ground water data count: 0	

Ground-water levels, Number of Measurements: 0

10
West
1/8 - 1/4 Mile
Lower

FED USGS USGS2625209

Agency cd:	USGS	Site no:	392034094133101
Site name:	T52N R30W 01CAC2	EDR Site id:	USGS2625209
Latitude:	392034	Dec lat:	39.34278239
Longitude:	0941331	Coor meth:	M
Dec lon:	-94.22550032	Latlong datum:	NAD27
Coor accr:	S	District:	29
Dec latlong datum:	NAD83	County:	047
State:	29	Land net:	SWNESWS01 T52N R30W 5
Country:	US	Map scale:	24000
Location map:	EXCELSIOR SPRINGS		
Altitude:	Not Reported		
Altitude method:	Not Reported		
Altitude accuracy:	Not Reported		
Altitude datum:	Not Reported		
Hydrologic:	Lower Missouri Crooked. Kansas, Missouri. Area = 2650 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19350101
Date inventoried:	Not Reported	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	ALLUVIUM		
Well depth:	25.0	Hole depth:	25.0
Source of depth data:	logs		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1935-05-15
Water quality data end date:	1935-05-15	Water quality data count:	1
Ground water data begin date:	0000-00-00	Ground water data end date:	0000-00-00
Ground water data count:	0		

Ground-water levels, Number of Measurements: 0

11
SW
1/4 - 1/2 Mile
Lower

FRDS PWS MO1024147

PWS ID:	MO1024147	
Date Initiated:	Not Reported	Date Deactivated: Not Reported
PWS Name:	CLAY CO PWSD #7 CLAY CO. PWSD #7 ROUTE 3-BOX 345 EXCELSIOR SPRGS, MO 64024	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Addressee / Facility: Not Reported

Facility Latitude: 39 20 21
 City Served: EXCELSIOR SPGS.
 Treatment Class: Treated

Facility Longitude: 094 13 30

Population: 200

Violations information not reported.

ENFORCEMENT INFORMATION:

Truedate:	03/31/2009	Pwsid:	MO1024147
Pwsname:	CLAY CO PWSD #7		
Retpopsrvd:	200	Pwstypecod:	C
Void:	5402604	Contaminant:	7000
Viol. Type:	CCR Complete Failure to Report		
Complperbe:	7/1/2003 0:00:00		
Complperen:	6/19/2006 0:00:00	Enfdate:	6/19/2006 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	MO1024147
Pwsname:	CLAY CO PWSD #7		
Retpopsrvd:	200	Pwstypecod:	C
Void:	5402604	Contaminant:	7000
Viol. Type:	CCR Complete Failure to Report		
Complperbe:	7/1/2003 0:00:00		
Complperen:	6/19/2006 0:00:00	Enfdate:	7/24/2008 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	MO1024147
Pwsname:	CLAY CO PWSD #7		
Retpopsrvd:	200	Pwstypecod:	C
Void:	5402805	Contaminant:	LEAD & COPPER RULE
Viol. Type:	Follow-up and Routine Tap Sampling		
Complperbe:	10/1/2004 0:00:00		
Complperen:	10/5/2006 0:00:00	Enfdate:	10/5/2006 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	MO1024147
Pwsname:	CLAY CO PWSD #7		
Retpopsrvd:	200	Pwstypecod:	C
Void:	5402906	Contaminant:	7000
Viol. Type:	CCR Complete Failure to Report		
Complperbe:	7/1/2005 0:00:00		
Complperen:	6/19/2006 0:00:00	Enfdate:	6/19/2006 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

Truedate:	03/31/2009	Pwsid:	MO1024147
Pwsname:	CLAY CO PWSD #7		
Retpopsrvd:	200	Pwstypecod:	C
Void:	5403108	Contaminant:	7000
Viol. Type:	CCR Complete Failure to Report		
Complperbe:	7/1/2007 0:00:00		
Complperen:	7/24/2008 0:00:00	Enfdate:	7/24/2008 0:00:00
Enf action:	State Compliance Achieved		
Violmeasur:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Truedate: 03/31/2009 Pwsid: MO1024147
 Pwsname: CLAY CO PWSD #7
 Retpopsrvd: 200 Pwstypecod: C
 Vioi d: 5403208 Contaminant: COLIFORM (TCR)
 Viol. Type: Monitoring, Routine Major (TCR)
 Complperbe: 1/1/2008 0:00:00
 Complperen: 1/31/2008 0:00:00 Enfdate: 2/22/2008 0:00:00
 Enf action: State Violation/Reminder Notice
 Violmeasur: Not Reported

Truedate: 03/31/2009 Pwsid: MO1024147
 Pwsname: CLAY CO PWSD #7
 Retpopsrvd: 200 Pwstypecod: C
 Vioi d: 5403208 Contaminant: COLIFORM (TCR)
 Viol. Type: Monitoring, Routine Major (TCR)
 Complperbe: 1/1/2008 0:00:00
 Complperen: 1/31/2008 0:00:00 Enfdate: 2/22/2008 0:00:00
 Enf action: State Public Notif Requested
 Violmeasur: Not Reported

Truedate: 03/31/2009 Pwsid: MO1024147
 Pwsname: CLAY CO PWSD #7
 Retpopsrvd: 200 Pwstypecod: C
 Vioi d: 5403208 Contaminant: COLIFORM (TCR)
 Viol. Type: Monitoring, Routine Major (TCR)
 Complperbe: 1/1/2008 0:00:00
 Complperen: 1/31/2008 0:00:00 Enfdate: 3/19/2008 0:00:00
 Enf action: State Public Notif Received
 Violmeasur: Not Reported

System Name: CLAY CO PWSD #7
 Violation Type: CCR Complete Failure to Report
 Contaminant: 7000
 Compliance Period: 07/01/03 - 06/19/06
 Violation ID: 5402604
 Enforcement Date: 06/19/06 Enf. Action: State Compliance Achieved

System Name: CLAY CO PWSD #7
 Violation Type: CCR Complete Failure to Report
 Contaminant: 7000
 Compliance Period: 7/1/2003 0:00:00 - 12/31/2025 0:00:00
 Violation ID: 5402604
 Enforcement Date: No Enf Action as of Enf. Action: 10/17/2006 0:00:00

System Name: CLAY CO PWSD #7
 Violation Type: Follow-up and Routine Tap Sampling
 Contaminant: LEAD & COPPER RULE
 Compliance Period: 10/1/2004 0:00:00 - 12/31/2025 0:00:00
 Violation ID: 5402805
 Enforcement Date: No Enf Action as of Enf. Action: 10/17/2006 0:00:00

System Name: CLAY CO PWSD #7
 Violation Type: Follow-up and Routine Tap Sampling
 Contaminant: LEAD & COPPER RULE
 Compliance Period: 10/01/04 - 10/05/06
 Violation ID: 5402805
 Enforcement Date: 10/05/06 Enf. Action: State Compliance Achieved

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

ENFORCEMENT INFORMATION:

System Name:	CLAY CO PWSD #7		
Violation Type:	CCR Complete Failure to Report		
Contaminant:	7000		
Compliance Period:	07/01/05 - 06/19/06		
Violation ID:	5402906		
Enforcement Date:	06/19/06	Enf. Action:	State Compliance Achieved
System Name:	CLAY CO PWSD #7		
Violation Type:	CCR Complete Failure to Report		
Contaminant:	7000		
Compliance Period:	7/1/2005 0:00:00 - 12/31/2025 0:00:00		
Violation ID:	5402906		
Enforcement Date:	No Enf Action as of	Enf. Action:	10/17/2006 0:00:00
System Name:	CLAY CO PWSD #7		
Violation Type:	Monitoring, Routine Minor (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	1998-02-01 - 1998-02-28		
Violation ID:	98000021		
Enforcement Date:	Not Reported	Enf. Action:	Not Reported

CONTACT INFORMATION:

Name:	CLAY CO PWSD #7	Population:	200
Contact:	BAILEY, BRACE	Phone:	Not Reported
Address:	9301 JJ HWY		
Address 2:	EXCELSIOR SPRING		
	MO, 64 816-7		

**12
East
1/4 - 1/2 Mile
Higher**

FED USGS USGS2625208

Agency cd:	USGS	Site no:	392033094125801
Site name:	T52N R30W 01DBD1	EDR Site id:	USGS2625208
Latitude:	392033	Dec lat:	39.34250484
Longitude:	0941258	Coord meth:	M
Dec lon:	-94.21633355	Latlong datum:	NAD27
Coord accr:	M	District:	29
Dec latlong datum:	NAD83	County:	047
State:	29	Land net:	SENWSES01 T52N R30W 5
Country:	US	Map scale:	24000
Location map:	EXCELSIOR SPRINGS		
Altitude:	825.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	10		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Lower Missouri/Crooked. Kansas, Missouri. Area = 2650 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19360418
Date inventoried:	Not Reported	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Unconfined single aquifer		
Aquifer:	PENNSYLVANIAN SYSTEM		
Well depth:	Not Reported	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0		
Daily flow data begin date:	0000-00-00	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Peak flow data count: 0
 Water quality data end date: 1936-11-23
 Ground water data begin date: 0000-00-00
 Ground water data count: 0

Water quality data begin date: 1936-11-23
 Water quality data count: 1
 Ground water data end date: 0000-00-00

Ground-water levels, Number of Measurements: 0

13
North
1/4 - 1/2 Mile
Higher

MO WELLS MOLOG1000022884

Id:	003992	Located:	Not Reported
Notenough:	Not Reported	Scale:	100k
Locator:	VBProgram	Stname:	MISSOURI
Stabbrev:	MO	County:	CLAY
Utm x:	394687		
Utm y:	4355949		
Latitude:	39.34845		
Longitude:	-94.22217		
Qtr3:	NE	Qtr2:	SE
Qtr1:	NW		
Section:	1		
Tnsp:	52		
Tnspdir:	Not Reported		
Rng:	30		
Rngdir:	W		
Plssx:	394787		
Plssy:	4355647		
Location p:	142		
Elev:	812		
Idnum:	3992		
Swl:	0		
Quadrangle:	EXCELSIOR SPRINGS	Site id:	MOLOG1000022884

Header Information:

Id:	003992	Well type:	Community Public Well
Agencyname:	GEOLOGICAL SURVEY (DGLS)	County:	CLAY
Fips:	047	Stname:	MISSOURI
Stabbrev:	MO	Qtr3:	NE
Qtr2:	SE	Qtr1:	NW
Section:	01	Tnsp:	52
Tnspdir:	N	Rng:	30
Rngdir:	W		
Latitude:	39.34845		
Longitude:	-94.22217		
Utm x:	394687		
Utm y:	4355949		
Quadmap na:	EXCELSIOR SPRINGS	Ohio code:	39094C2
Llmeas:	D	Scale:	100k
Locator:	VBProgram	Typelog1:	D
Typelog2:	Not Reported	Typelog3:	S
Ownerind:	1	Owner:	City of Excelsior Springs Well #1
Leasenam:	Not Reported	Driller:	Layne-Western
Drldate:	1936/10/13	Permit:	Not Reported
Logdate:	0000/00/00	Logger:	Hundhausen

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Elev:	812		
Elevbase:	S	Prodyld:	Not Reported
Gpmcfs:	Not Reported		
Depthbed:	75		
Sampsav:	1	Swla:	Not Reported
Swlb:	Not Reported		
Water at:	Not Reported		
Totdepth:	873	Formation :	KANSAS CITY GROUP
Formation1:	KEOKUK-BURLINGTON LS. UNDIFF		
Intcrdtp:	0		
Intcrdbt:	0		
Drawdown:	Not Reported	Aquclass:	Not Reported
Confind:	0	Reidate:	Not Reported
Probind1:	Not Reported	Probind2:	Not Reported
Probind3:	Not Reported	Additional:	PUBLIC DRINKING WATER
Alagny1:	PW	Add databa:	1010261
Addition 1:	Not Reported	Add data 1:	Not Reported
Alnum2:	Not Reported	Add data 2:	Not Reported
Add data 3:	Not Reported	Rmkind:	Y
Remarks:	SALT - SULFUR WATER; DRILLERS LOG TO 550'		
C total:	0	C plugind:	Not Reported
C remarks:	Not Reported		

Strata Information:

Id:	003992	Stratordr:	100
Fmtp:	0		
Fmbot:	20		
Formation :	RESIDUUM & TOP SOIL		
Primlith:	CLAY		
Seclith:	GRAVEL	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	003992	Stratordr:	4800
Fmtp:	75		
Fmbot:	605		
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:	003992	Stratordr:	19600
Fmtp:	75		
Fmbot:	216		
Formation :	MARMATON GROUP		
Primlith:	LIMESTONE		
Seclith:	SHALE	Minlith:	COAL
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:	003992	Stratordr:	23400
Fmtop:	248		
Fmbot:	605		
Formation :	CHEROKEE GROUP		
Primlith:	SHALE		
Seclith:	SANDSTONE	Minlith:	LIMESTONE
Primmin:	FES2		
Primocc:	4		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	003992	Stratordr:	28400
Fmtop:	605		
Fmbot:	873		
Formation :	MISSISSIPPIAN 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:	003992	Stratordr:	30800
Fmtop:	605		
Fmbot:	700		
Formation :	MERAMECIAN 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:	003992	Stratordr:	31000
Fmtop:	605		
Fmbot:	650		
Formation :	SALEM FORMATION		
Primlith:	LIMESTONE		
Seclith:	Not Reported	Minlith:	CHERT
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:	003992	Stratordr:	31000
Fmtop:	605		
Fmbot:	650		
Formation :	SALEM FORMATION		
Prmlith:	LIMESTONE		
Seclith:	Not Reported	Minlith:	CHERT
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	003992	Stratordr:	31200
Fmtop:	650		
Fmbot:	700		
Formation :	WARSAW FORMATION		
Prmlith:	LIMESTONE		
Seclith:	CHERT	Minlith:	SHALE
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	003992	Stratordr:	31800
Fmtop:	700		
Fmbot:	873		
Formation :	OSAGEAN SERIES		
Prmlith:	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:	003992	Stratordr:	32200
Fmtop:	700		
Fmbot:	873		
Formation :	KEOKUK-BURLINGTON LS. UNDIFF		
Prmlith:	LIMESTONE		
Seclith:	CHERT	Minlith:	DOLOMITE
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:	003992	Stratordr:	99900
Fmtop:	873		
Fmbot:	873		
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		

Remarks:

Id:	003992	Feature:	WC
Agency:	GS	Fileid:	H
Remarks:	DRILLER'S LOG TO 550', SAMPLES 550' TO 873'.		SALT-SULFUR WATER.

**B14
North
1/2 - 1 Mile
Higher**

FED USGS USGS2625211

Agency cd:	USGS	Site no:	392059094131901
Site name:	T52N R30W 01BAD1		
Latitude:	392059	EDR Site id:	USGS2625211
Longitude:	0941319	Dec lat:	39.34972693
Dec lon:	-94.22216684	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	29
State:	29	County:	047
Country:	US	Land net:	SENENWS01 T52N R30W 5
Location map:	EXCELSIOR SPRINGS	Map scale:	24000
Altitude:	821.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5.		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Lower MissouriCrooked. Kansas, Missouri. Area = 2650 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19360101
Date inventoried:	Not Reported	Mean greenwich time offset:	CST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Confined multiple aquifers		
Aquifer:	ST PETER SANDSTONE		
Well depth:	1300	Hole depth:	1300
Source of depth data:	logs		
Project number:	MO 79-0360		
Real time data flag:	0		
Daily flow data end date:	0000-00-00	Daily flow data begin date:	0000-00-00
Peak flow data begin date:	0000-00-00	Daily flow data count:	0
		Peak flow data end date:	0000-00-00

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Peak flow data count: 0
 Water quality data end date: 1936-11-23
 Ground water data begin date: 0000-00-00
 Ground water data count: 0

Water quality data begin date: 1936-02-27
 Water quality data count: 10
 Ground water data end date: 0000-00-00

Ground-water levels, Number of Measurements: 0

15
SSW
1/2 - 1 Mile
Lower

MO WELLS MOLOG1000022850

Id:	003600	Located:	Not Reported
Notenough:	Not Reported	Scale:	100k
Locator:	VBProgram	Stname:	MISSOURI
Stabbrev:	MO	County:	CLAY
Utm x:	394252		
Utm y:	4354525		
Latitude:	39.33557		
Longitude:	-94.22699		
Qtr3:	SE	Qtr2:	NW
Qtr1:	NW		
Section:	12		
Tnsp:	52		
Tnspdir:	Not Reported		
Rng:	30		
Rngdir:	W		
P1ssx:	394752		
P1ssy:	4354026		
Location p:	141		
Elev:	812		
Idnum:	3600		
Swl:	0		
Quadrangle:	EXCELSIOR SPRINGS	Site id:	MOLOG1000022850

Header Information:

Id:	003600	Well type:	Community Public Well
Agencyname:	GEOLOGICAL SURVEY (DGLS)	County:	CLAY
Fips:	047	Stname:	MISSOURI
Stabbrev:	MO	Qtr3:	SE
Qtr2:	NW	Qtr1:	NW
Section:	12	Tnsp:	52
Tnspdir:	N	Rng:	30
Rngdir:	W		
Latitude:	39.33557		
Longitude:	-94.22699		
Utm x:	394252		
Utm y:	4354525		
Quadmap na:	EXCELSIOR SPRINGS	Ohio code:	39094C2
L1meas:	D	Scale:	100k
Locator:	VBProgram	Typelog1:	D
Typelog2:	Not Reported	Typelog3:	S
Ownerind:	1	Owner:	McCleary Clinic
Leasenam:	Not Reported	Driller:	Cullum, E. A.
Dr1date:	1932/07/00	Permit:	Not Reported
Logdate:	Not Reported	Logger:	Grohskopf

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Elev:	812	Prodyld:	Not Reported
Elevbase:	S		
Gpmcfs:	Not Reported		
Depthbed:	20		
Sampsav:	1	Swla:	Not Reported
Swlb:	Not Reported		
Water at:	Not Reported		
Totdepth:	1170	Formation :	PLEASANTON GROUP
Formation1:	KIMMSWICK LIMESTONE		
Intcrdtp:	0		
Intcrdbt:	0		
Drawdown:	Not Reported	Aquclass:	Not Reported
Confind:	0	Reldate:	194909
Probind1:	Not Reported	Probind2:	Not Reported
Probind3:	Not Reported	Additional:	PUBLIC DRINKING WATER
Alagency1:	PW	Add databa:	010000
Addition 1:	Not Reported	Add data 1:	Not Reported
Alnum2:	Not Reported	Add data 2:	Not Reported
Add data 3:	Not Reported	Rmkind:	Y
Remarks:	#1 CRYSTAL PLANT - DRILLER'S LOG ONLY		
C total:	1301	C plugind:	N
C remarks:	Not Reported		

Construction Information:

Id:	003600	Well type:	Noncommunity Public Well
Agencyname:	GEOLOGICAL SURVEY (DGLS)	Datecomp:	193207
Plugind:	N	Dateplug:	Not Reported
Casemat1:	Not Reported	Casemat2:	Not Reported
Cas1dpth:	55		
Cas1diam:	10		
Cas2dpth:	505		
Cas2diam:	8.25		
Cas3dpth:	741		
Cas3diam:	6.25		
Cas4dpth:	0		
Cas4diam:	0		
Inout1:	O	Typgrt1:	Not Reported
Typgrt2:	Not Reported	Typgrt3:	Not Reported
Mthgrout:	Not Reported	Rigtype:	Not Reported
Wellreat:	Not Reported	Rmkind:	Y
Dateabnd:	Not Reported		
Plgdpt1b:	0		
Plgdpt1t:	0		
Multcase:	Y		
Szcashol:	0		
Szbelcas:	0		
Sizscrn:	0		
Slotsize:	0		
Lenscrn:	0		
Typescrn:	Not Reported	Typedev:	Not Reported
Typepump:	Not Reported		
Pumpcap:	0		
Pumptdh:	0		
Pumpset:	0		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Typecomp:	Not Reported	Gasprod:	Not Reported
Perfintt:	0	Remarks:	Not Reported
Perfintb:	0	Formation :	Not Reported
Oilprod:	Not Reported		
Tubepris:	Not Reported		
Other data:	Not Reported		
Formation1:	Not Reported		

Strata Information:			
Id:	003600	Stratordr:	0
Fmtop:	1130		
Fmbot:	1170		
Formation :	MIDDLE ORDOVICIAN 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:	003600	Stratordr:	1200
Fmtop:	0		
Fmbot:	20		
Formation :	DRIFT		
Primlith:	CLAY		
Seclith:	GRAVEL	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:			
Id:	003600	Stratordr:	4800
Fmtop:	20		
Fmbot:	560		
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:	003600	Stratordr:	18800
Fmtop:	20		
Fmbot:	85		
Formation :	PLEASANTON GROUP		
Primlith:	SHALE		
Seclith:	LIMESTONE	Minlith:	SAND
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:	003600	Stratordr:	19600
Fmtp:	85		
Fmbot:	220		
Formation :	MARMATON GROUP		
Prmlith:	SHALE		
Seclith:	SANDSTONE	Minlith:	LIMESTONE
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	003600	Stratordr:	23400
Fmtp:	220		
Fmbot:	560		
Formation :	CHEROKEE GROUP		
Prmlith:	SHALE		
Seclith:	SANDSTONE	Minlith:	LIMESTONE
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	003600	Stratordr:	28400
Fmtp:	560		
Fmbot:	955		
Formation :	MISSISSIPPIAN SYSTEM		
Prmlith:	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:	003600	Stratordr:	30800
Fmtp:	560		
Fmbot:	700		
Formation :	MERAMECIAN SERIES		
Prmlith:	Not Reported		
Seclith:	Not Reported	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Minrocc: 0
Rmk20: Not Reported

Strata Information:

Id:	003600	Stratordr:	31100
Fmtop:	560		
Fmbot:	700		
Formation :	SALEM - WARSAW FMS.		
Primlith:	LIMESTONE		
Seclith:	CHERT	Minlith:	SHALE
Primmin:	FES2		
Primocc:	2		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	003600	Stratordr:	31100
Fmtop:	560		
Fmbot:	700		
Formation :	SALEM - WARSAW FMS.		
Primlith:	LIMESTONE		
Seclith:	CHERT	Minlith:	SHALE
Primmin:	FES2		
Primocc:	2		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	003600	Stratordr:	31800
Fmtop:	700		
Fmbot:	865		
Formation :	OSAGEAN 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:	003600	Stratordr:	32200
Fmtop:	700		
Fmbot:	865		
Formation :	KEOKUK-BURLINGTON LS. UNDIFF		
Primlith:	LIMESTONE		
Seclith:	CHERT	Minlith:	DOLOMITE
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:	003600	Stratordr:	33700
Fmtop:	865		
Fmbot:	955		
Formation :	KINDERHOOKIAN SERIES		
Prmlith:	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:	003600	Stratordr:	33800
Fmtop:	950		
Fmbot:	955		
Formation :	KINDERHOOK SHALE		
Prmlith:	SHALE		
Seclith:	Not Reported	Minlith:	Not Reported
Primmin:	FES2		
Primocc:	1		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	003600	Stratordr:	34300
Fmtop:	885		
Fmbot:	950		
Formation :	CHOUTEAU GROUP		
Prmlith:	LIMESTONE		
Seclith:	SHALE	Minlith:	CHERT
Primmin:	ZNS		
Primocc:	2		
Secmin:	FES2		
Secocc:	3		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	003600	Stratordr:	34700
Fmtop:	865		
Fmbot:	885		
Formation :	SEDALIA FORMATION		
Prmlith:	SHALE		
Seclith:	CHERT	Minlith:	Not Reported
Primmin:	ZNS		
Primocc:	2		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Minrocc: 0
Rmk20: Not Reported

Strata Information:

Id:	003600	Stratordr:	35100
Fmtop:	955		
Fmbot:	1130		
Formation :	DEVONIAN SYSTEM		
Prmlith:	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:	003600	Stratordr:	36700
Fmtop:	955		
Fmbot:	1130		
Formation :	MIDDLE DEVONIAN SERIES		
Prmlith:	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:	003600	Stratordr:	36900
Fmtop:	955		
Fmbot:	1130		
Formation :	CEDAR VALLEY LIMESTONE		
Prmlith:	LIMESTONE		
Seclith:	SHALE	Minlith:	CHERT
Primmin:	FES2		
Primocc:	5		
Secmin:	ZNS		
Secocc:	1		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	003600	Stratordr:	39000
Fmtop:	1130		
Fmbot:	1170		
Formation :	ORDOVICIAN SYSTEM		
Prmlith:	Not Reported		
Seclith:	Not Reported	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Minrocc: 0
Rmk20: Not Reported

Strata Information:

Id:	003600	Stratordr:	40200
Fmtop:	1130		
Fmbot:	1170		
Formation :	KIMMSWICK LIMESTONE		
Prmlith:	CHERT		
Seclith:	LIMESTONE	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	003600	Stratordr:	99900
Fmtop:	1170		
Fmbot:	1170		
Formation :	TOTAL DEPTH		
Prmlith:	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		

Remarks:

Id:	003600	Feature:	WN
Agency:	GS	Fileid:	H
Remarks:	SULPHO SALINE WELL. FROM DRILL. LOG TO 560' THEN FROM SAMPLES AND COMPARISONS.		

Remarks:

Id:	003600	Feature:	WN
Agency:	GS	Fileid:	C
Remarks:	2ND CASING 8.3" TO 505'	3RD CASING 6.3 TO 741'	

**B16
North
1/2 - 1 Mile
Higher**

MO WELLS MOLOG1000022888

Id:	003554	Located:	Not Reported
Notenough:	Not Reported		
Locator:	VBProgram	Scale:	100k
Stabbrev:	MO	Stname:	MISSOURI
Utm x:	394687	County:	CLAY
Utm y:	4356149		
Latitude:	39.35025		
Longitude:	-94.2222		
Qtr3:	SE	Qtr2:	NE
Qtr1:	NW		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Section:	1		
Tnsp:	52		
Tnspdir:	Not Reported		
Rng:	30		
Rngdir:	W		
Plssx:	394787		
Plssy:	4355647		
Location p:	142		
Elev:	821		
Idnum:	3554		
Swl:	0		
Quadrangle:	EXCELSIOR SPRINGS	Site id:	MOLOG1000022888
 Header Information:			
Id:	003554	Well type:	Community Public Well
Agencyname:	GEOLOGICAL SURVEY (DGLS)	County:	CLAY
Fips:	047	Sname:	MISSOURI
Stabbrev:	MO	Qtr3:	SE
Qtr2:	NE	Qtr1:	NW
Section:	01	Tnsp:	52
Tnspdir:	N	Rng:	30
Rngdir:	W		
Latitude:	39.35025		
Longitude:	-94.2222		
Utm x:	394687		
Utm y:	4356149		
Quadmap na:	EXCELSIOR SPRINGS	Ohio code:	39094C2
Limeas:	Not Reported	Scale:	100k
Locator:	VBProgram	Typelog1:	S
Typelog2:	Not Reported	Typelog3:	Not Reported
Ownerind:	Not Reported	Owner:	City of Excelsior Springs Well #1
Leasenam:	Not Reported	Driller:	Layne-Western
Drldate:	1936/03/25	Permit:	Not Reported
Logdate:	Not Reported	Logger:	Grohskopf / McQueen
Elev:	821		
Elevbase:	S	Prodyld:	30
Gpmcfs:	Not Reported		
Depthbed:	25		
Sampsav:	0	Swla:	85
Swlb:	Not Reported		
Water at:	Not Reported		
Totdepth:	1300	Formation :	PLEASANTON GROUP
Formation1:	ST. PETER SANDSTONE		
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:	PUBLIC DRINKING WATER
Alagency1:	Not Reported	Add databa:	1010261
Addition 1:	Not Reported	Add data 1:	Not Reported
Alnum2:	Not Reported	Add data 2:	Not Reported
Add data 3:	Not Reported	Rmkind:	Not Reported
Remarks:	SULPHO-SALINE; ORIGINALLY # 3554; NUMBER TAKEN BY OTHER LOG		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

C total:	0	C plugind:	Not Reported
C remarks:	Not Reported		

Strata Information:

Id:	003554	Stratordr:	0
Fmtop:	7		
Fmbot:	25		
Formation :	NO SAMPLES		
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:	003554	Stratordr:	0
Fmtop:	0		
Fmbot:	5		
Formation :	NO SAMPLES		
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:	003554	Stratordr:	4800
Fmtop:	5		
Fmbot:	363		
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:	003554	Stratordr:	18800
Fmtop:	5		
Fmbot:	7		
Formation :	PLEASANTON GROUP		
Primlith:	SANDSTONE		
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:	003554	Stratordr:	19600
Fmtop:	25		
Fmbot:	150		
Formation :	MARMATON GROUP		
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:	003554	Stratordr:	22600
Fmtop:	115		
Fmbot:	150		
Formation :	FORT SCOTT SUBGROUP		
Primlith:	LIMESTONE		
Seclith:	SHALE	Minlith:	Not Reported
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	Not Reported		

Strata Information:

Id:	003554	Stratordr:	23400
Fmtop:	150		
Fmbot:	363		
Formation :	CHEROKEE GROUP		
Primlith:	SAND		
Seclith:	SHALE	Minlith:	LIMESTONE
Primmin:	Not Reported		
Primocc:	0		
Secmin:	Not Reported		
Secocc:	0		
Minrmin:	Not Reported		
Minrocc:	0		
Rmk20:	FORMATION QUESTIONED		

Strata Information:

Id:	003554	Stratordr:	24600
Fmtop:	242		
Fmbot:	246		
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		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Minrocc: 0
Rmk20: Not Reported

Strata Information:

Id:	003554	Stratordr:	99900
Fmtop:	363		
Fmbot:	363		
Formation :	TOTAL DEPTH		
Prmlith:	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		

Remarks:

Id:	003554	Feature:	WC
Agency:	GS	Fileid:	H
Remarks:	Not Reported		

Remarks:

Id:	003554	Feature:	WC
Agency:	GS	Fileid:	C
Remarks:	615' OF 8" CASING IN CEMENT. 55' OF 12"		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

1
SSW

OIL_GAS MOOG4000009468

1/4 - 1/2 Mile

County:	CLAY	Countycode:	047
Township:	52		
Range:	30		
Rangedir:	W		
Section:	12		
Surveyloc1:	754 FNL	Surveyloc2:	1434 FWL
Ognumber:	20006	Quadname:	EXCELSIOR SPRINGS
Coname:	REESE EXPLORATION CO.	Leasename:	BISBEE
Wellno:	1		
Well type:	9		
Well stat:	NF	Status :	OTHER
Bonded y n:	Not Reported	Dateapprov:	24-Dec-81
Can dt:	Not Reported		
Spud date:	12/28/81	Compl dt:	02/13/82
Plug dt:	Not Reported		
Elevation:	770		
Proposedtd:	1000		
Actualtd:	1362		
Pbtd:	0		
Orig oper:	REESE EXPLORATION CO.	Latitude :	39 20 10
Longitude :	-94 13 31		
Latdec:	39.33629		
Longdec:	-94.22555		
Log type:	GRN,SP,RES		
Log depth:	710		
Perf int:	1234-1237	Ip:	Not Reported
Gravity:	Not Reported	Prod form:	Not Reported
Mitcomment:	Not Reported		
Comment :	CONVERTED TO WATER WELL 9/2/83		
Spl log:	Not Reported	Site id:	MOOG4000009468

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: MO Radon

Radon Test Results

Zipcode	Test Date	Result
64024	01/30/06	9.5
64024	02/09/09	30.6
64024	04/07/08	1.1
64024	04/07/08	2.5
64024	04/29/08	1.3
64024	06/05/07	0.7
64024	08/14/06	1.1
64024	06/17/08	1

Federal EPA Radon Zone for CLAY 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: 64024

Number of sites tested: 11

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.500 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	6.700 pCi/L	64%	18%	18%

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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per...&naics_type=Equal+to&naics_to=&chem_name=&chem_search=Beginning+With&cas_num=&page_no=1&output_sql_switch=FALSE&report=1&database_type=Multisystem



Envirofacts Search Results

[<< Return](#)

Location Address: 201 East Broadway Street
City Name: Excelsior Springs
County Name: Clay
State Abbreviation: MO

Total Number of Facilities Displayed: 0

Last updated on Sunday, November 11, 2012

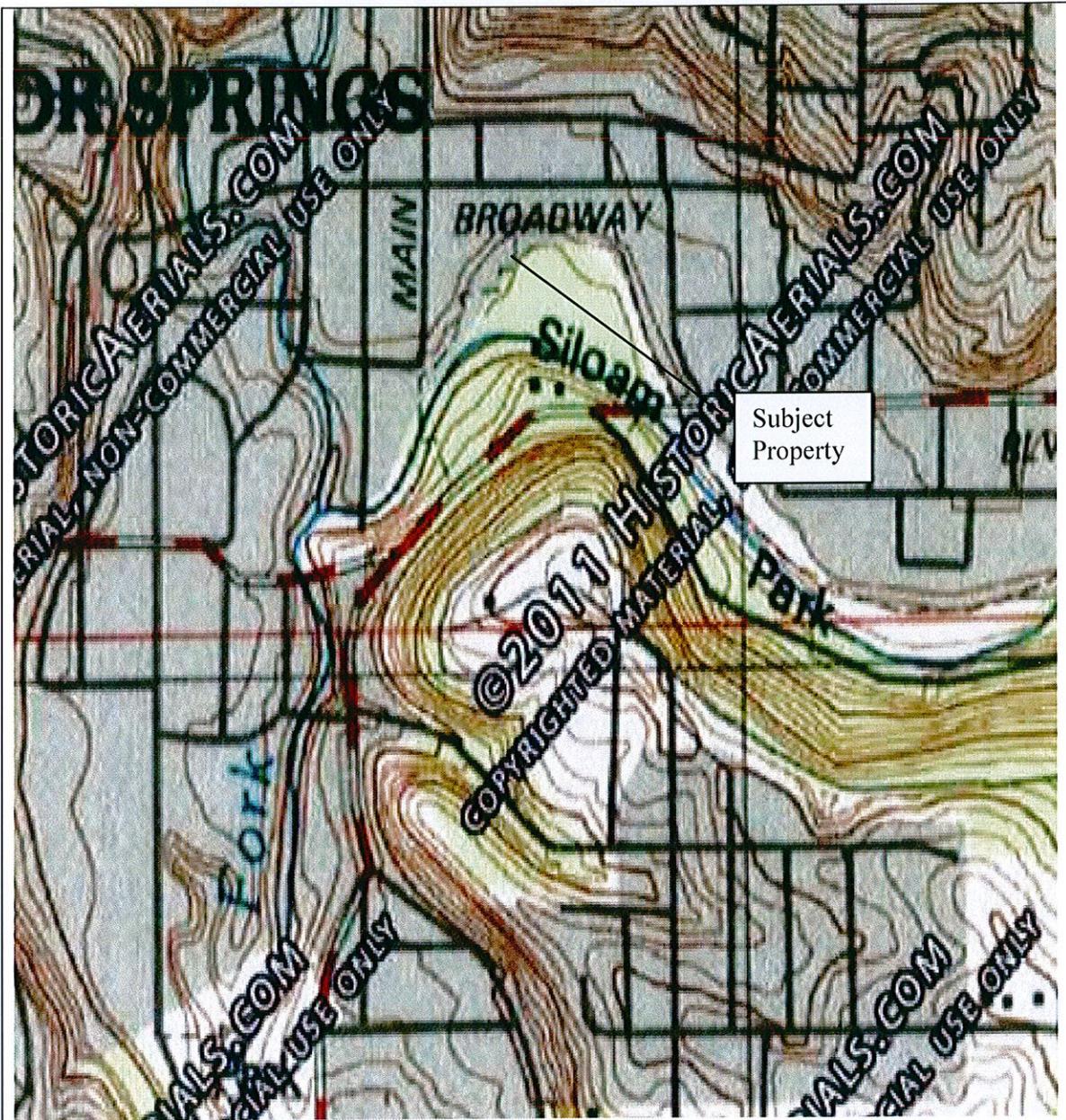
Envirofacts Links

- [EF Overview](#)
- [Search](#)
- [Model](#)
- [Data Update](#)
- [Multisystem Search User Guide](#)
- [Contact Us](#)



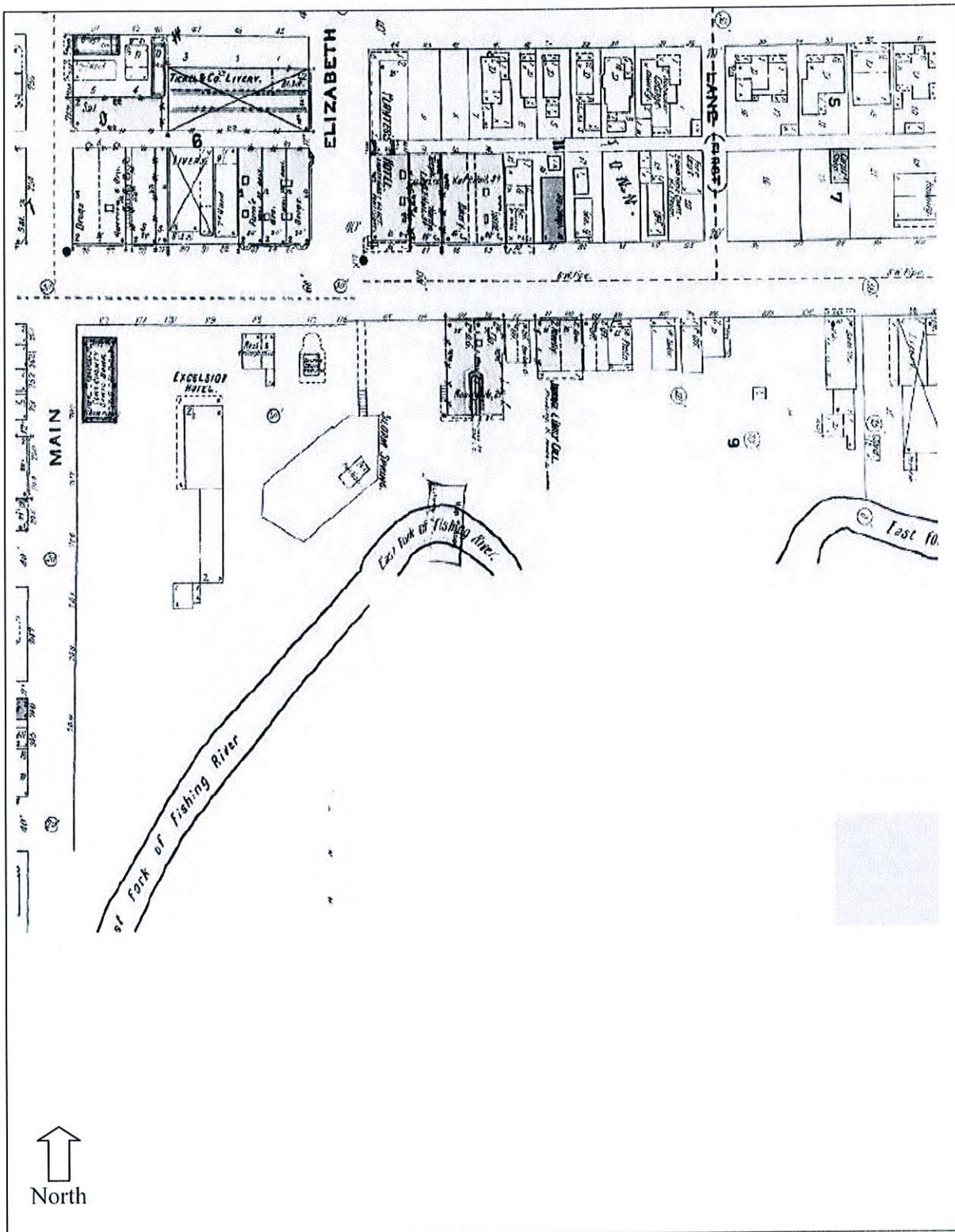
APPENDIX C

Topo's, Sanborns, and Aerials

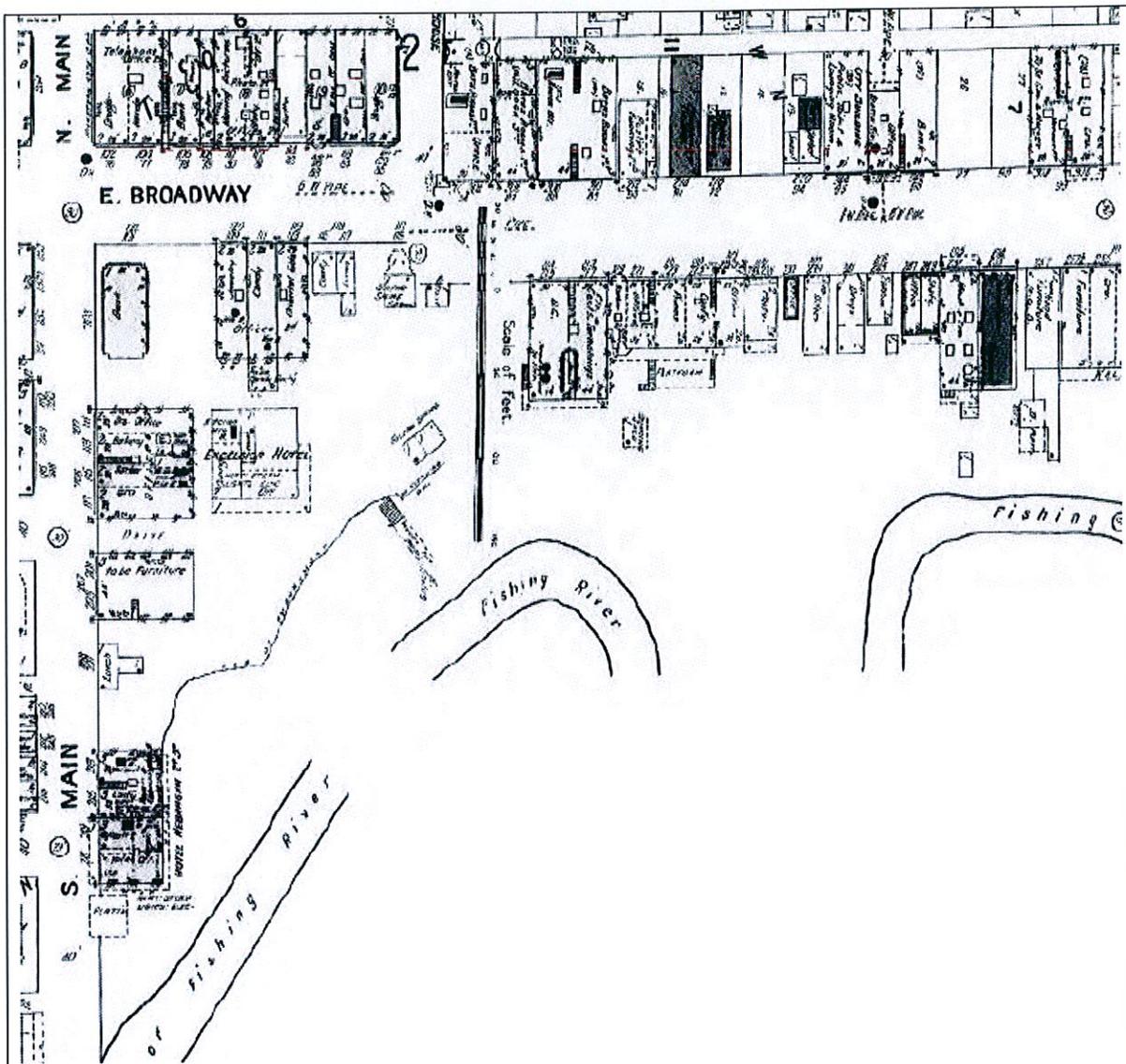


North

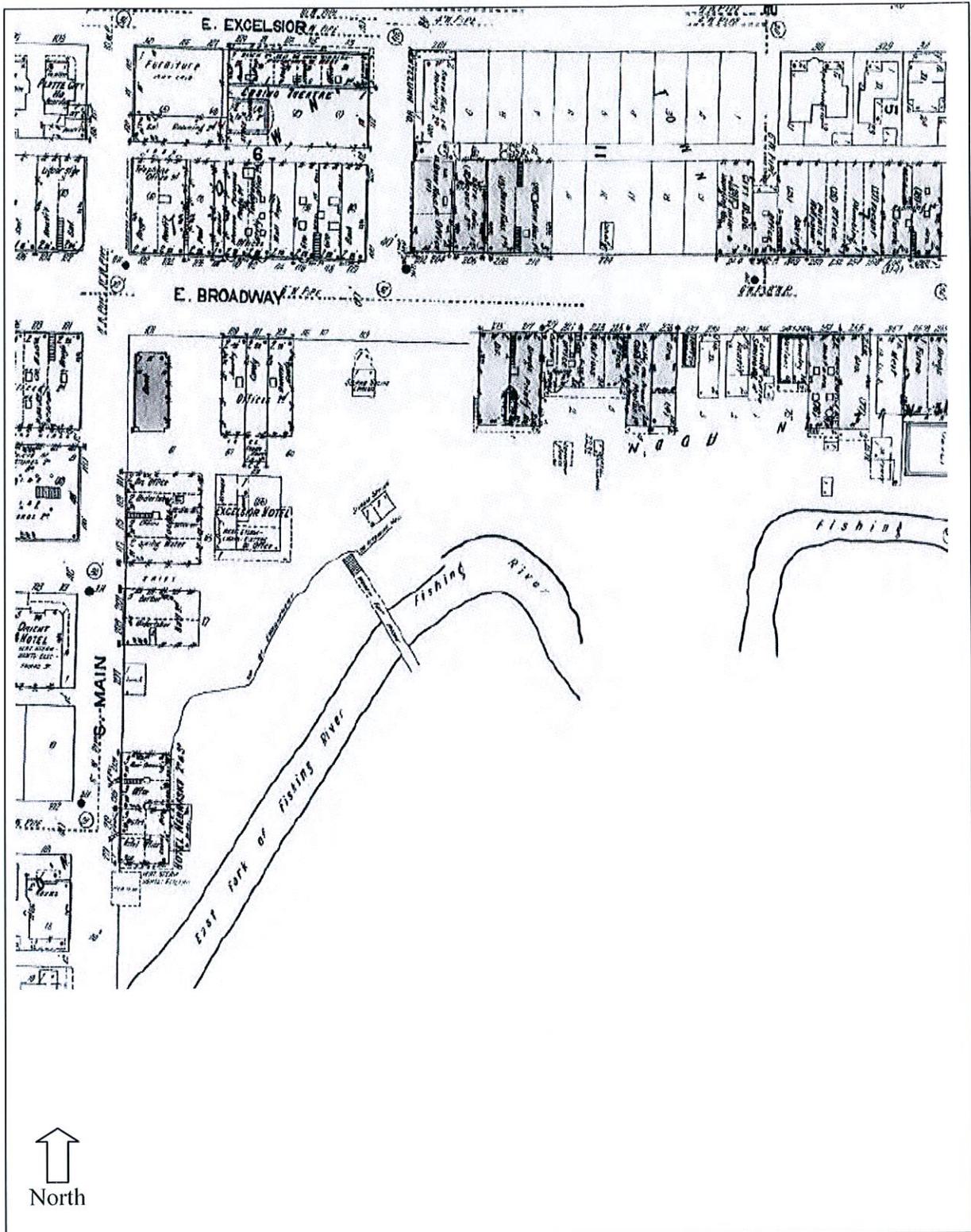
1997 Topographic Map
201 East Broadway
Excelsior Springs, Missouri



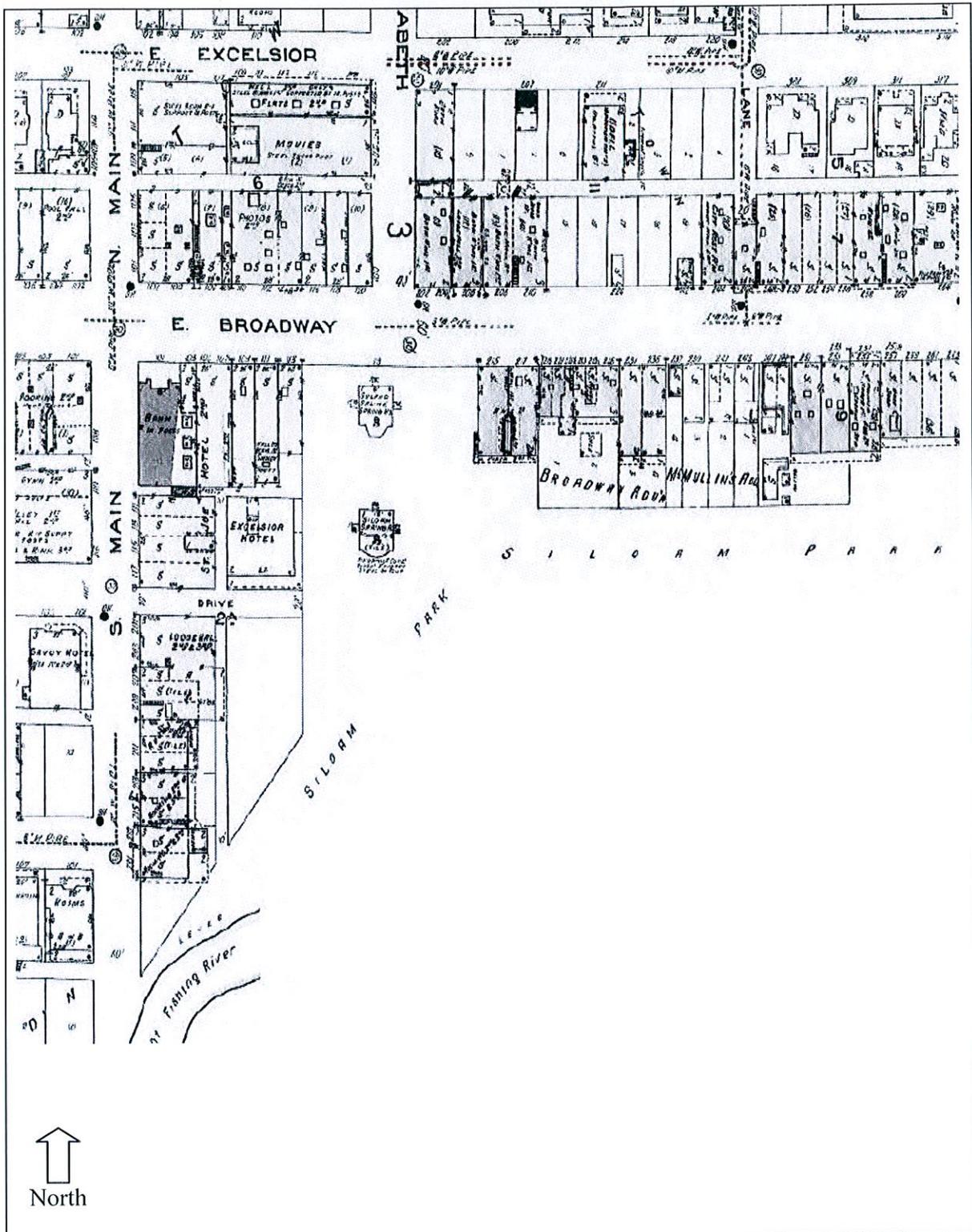
1905 Sanborn Map
 201 East Broadway
 Excelsior Springs, Missouri



1909 Sanborn Map
 201 East Broadway
 Excelsior Springs, Missouri

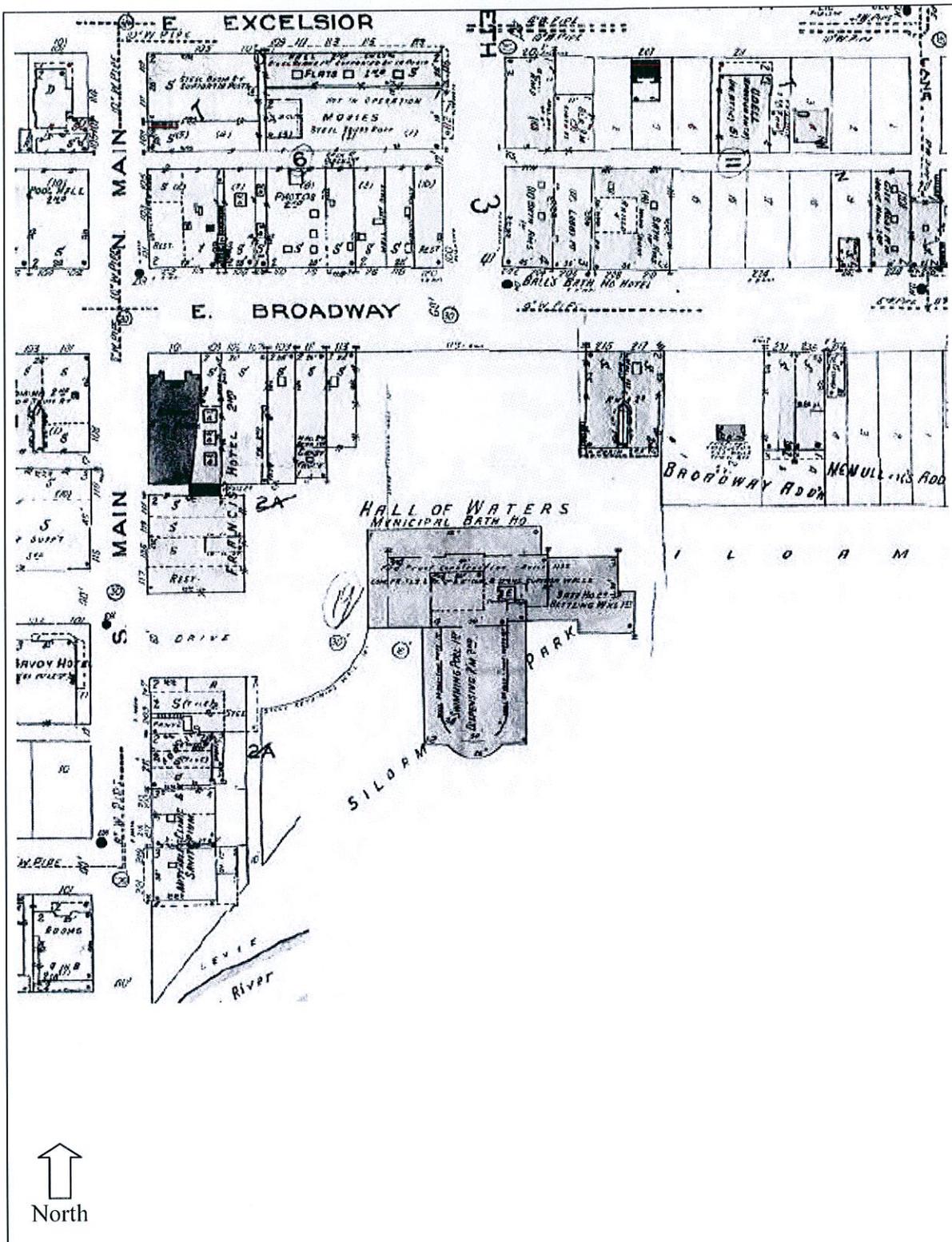


1913 Sanborn Map
201 East Broadway
Excelsior Springs, Missouri

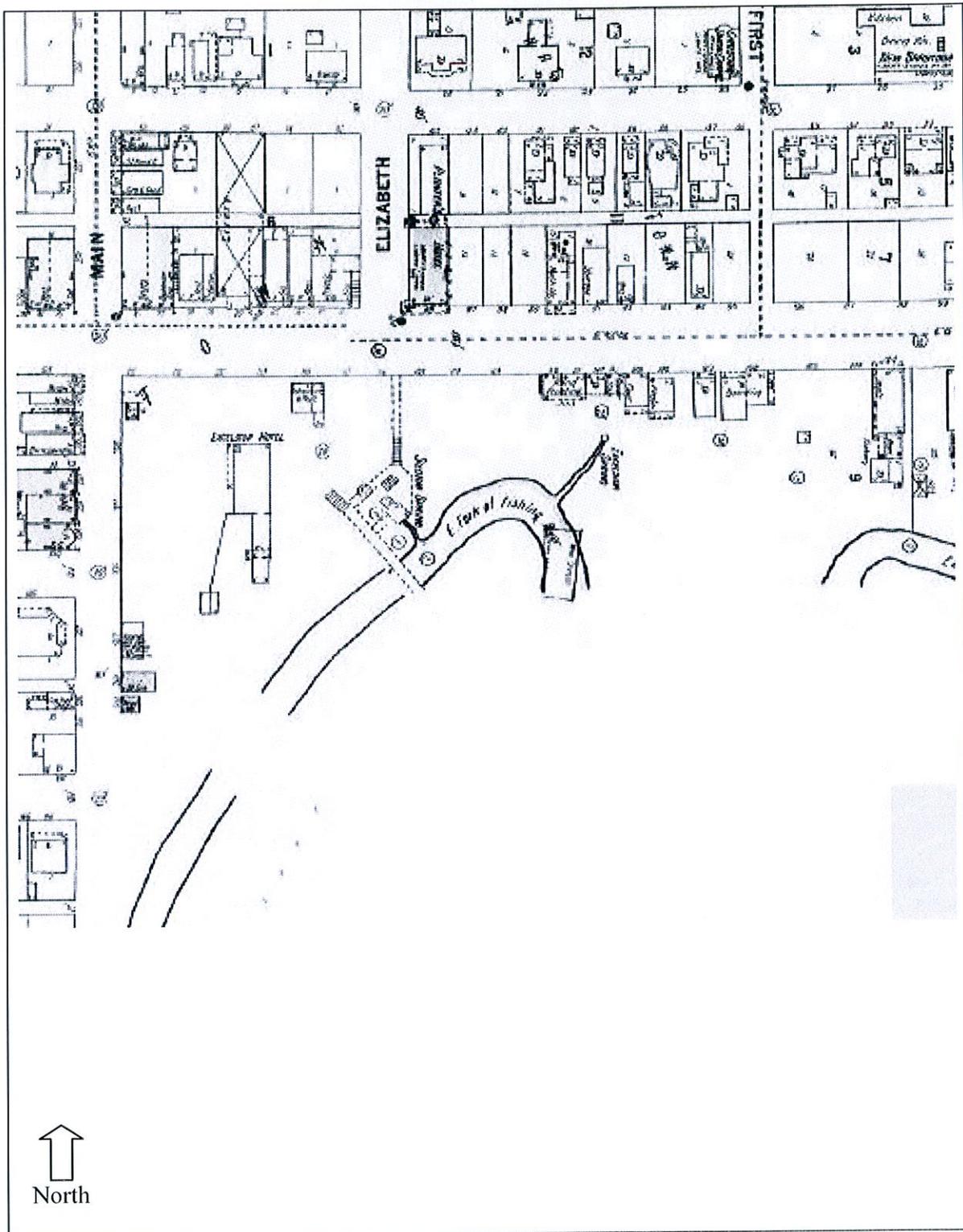


1926 Sanborn Map

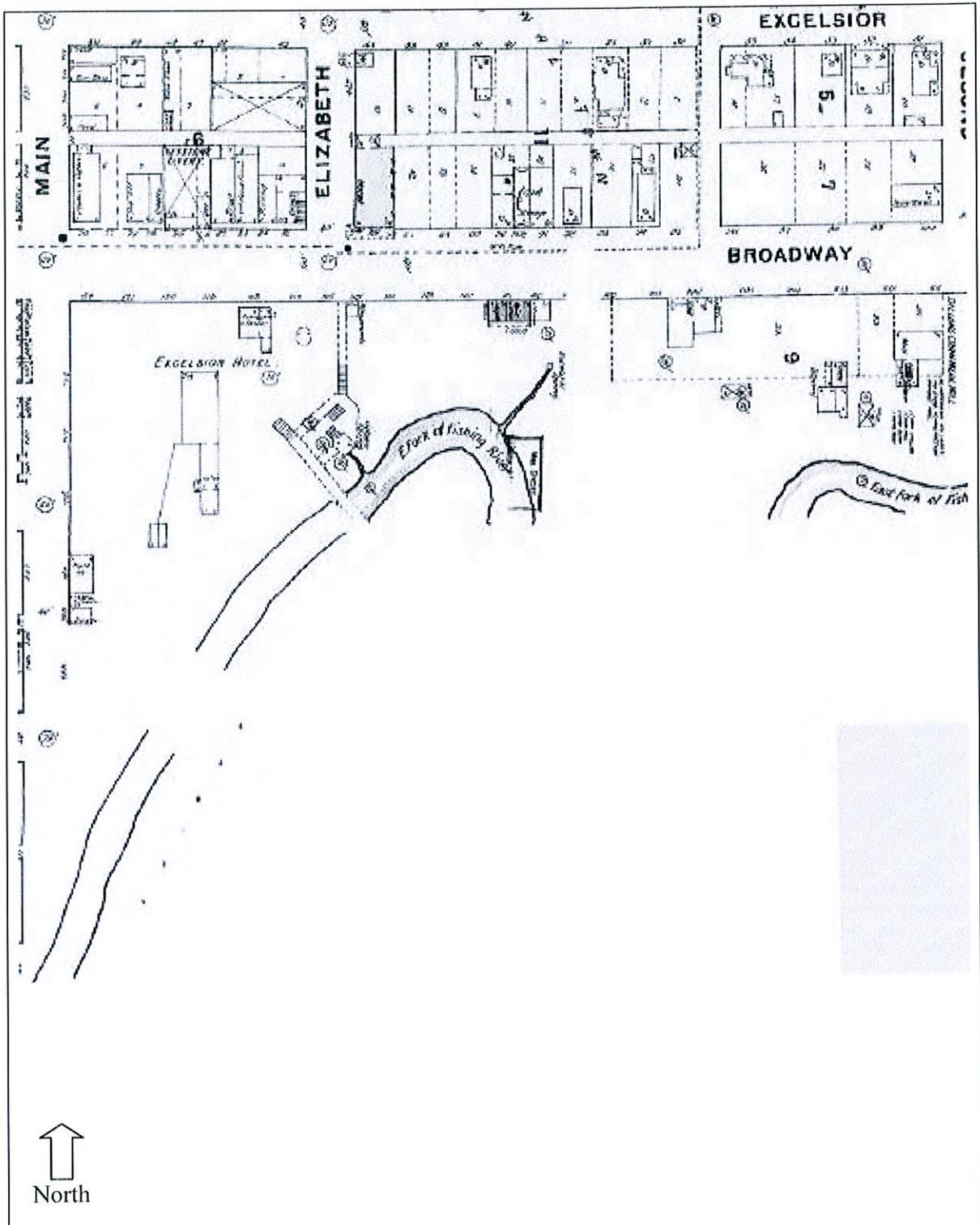
201 East Broadway
Excelsior Springs, Missouri



1942 Sanborn Map
 201 East Broadway
 Excelsior Springs, Missouri



1900 Sanborn Map
 201 East Broadway
 Excelsior Springs, Missouri



1894 Sanborn Map
 201 East Broadway
 Excelsior Springs, Missouri



North

1947 Aerial Photograph

201 East Broadway
Excelsior Springs, Missouri



North

1970 Aerial Photograph

201 East Broadway
Excelsior Springs, Missouri



North

1975 Aerial Photograph

201 East Broadway
Excelsior Springs, Missouri



North

1996 Aerial Photograph
201 East Broadway
Excelsior Springs, Missouri



North

2005 Aerial Photograph

201 East Broadway
Excelsior Springs, Missouri



North

2007 Aerial Photograph

201 East Broadway
Excelsior Springs, Missouri

APPENDIX D

Lead Report

LEAD SUMMARY

The lead-based paint evaluation was performed by Alvin H. Stuke and Kurt Mock on November 1, 2012, and November 9, 2012, testing the interior and exterior painted surfaces.

XRF testing was performed using an X-Ray fluorescence (XRF) lead paint analyzer to test painted and/or coated components. Radiation safety procedures as required by the U.S. Nuclear Regulatory Commission and applicable State and Local regulations were followed when using the Olympus Innov-x instrument.

According to the HUD guidelines, a lead reading by XRF of 1.0 mg/cm² or above is considered positive for the presence of LBP. The State of Missouri also uses 1.0 mg/cm² for LBP.

The XRF testing was conducted using an Olympus Innov-x XRF lead paint analyzer.

AOC has determined there is LBP at the property. The following components contain LBP in amounts equal to or exceeding 1.0 mg/cm² on the surfaces tested.

Room Location	Floor/ Location	Side	Component	Color	Substrate	Poor Intact	Pass Fail Standard	Reading
108	Hallway	D	Wall	Orange	Plaster	Intact	Positive	1.00
121	First Floor	A	Wall	Brown	Plaster		Positive	1.00
129	First Floor	B	Wall	Brown	Tile	Intact	Positive	1.00
Exterior	level GM	B	Wrought Iron	Black	Metal	Intact	Positive	1.19
Exterior	level GM	B	Window	Green	Metal	Intact	Positive	5.00
215	Second Floor	D	Wall	Brown	Plaster	Intact	Positive	1.00
9	Stair 209	D	Stair Riser	Green	Metal	Intact	Positive	5.00
P02	Penthouse	B	Hatch Door	Green	Wood	Intact	Positive	5.00
P02	Penthouse	C	Door Jamb	Green	Wood	Intact	Positive	5.00
P02	Penthouse	C	Door Trim	Green	Wood	Intact	Positive	5.00
G23	Ground	B	Window sash	Beige	Metal	Poor	Positive	2.74
G30	Ground	B	Vent	Green	Metal	Poor	Positive	1.00
Exterior		A	Door Décor	Black	Metal	Intact	Positive	5.00
Exterior		A	Door Décor	Blue	Metal	Intact	Positive	5.00
Exterior		A	Wrought iron	Yellow	Metal	Intact	Positive	2.93
Exterior		C	Door frame	Blue	Metal	Intact	Positive	4.13
Exterior		C	Door header	Blue	Metal	Intact	Positive	5.00
Exterior		C	Wall	Blue	Cer.Tile	Intact	Positive	1.00
Exterior		B	Door	Brown	Wood	Poor	Positive	5.00
Exterior		B	Door jamb	Brown	Wood	Poor	Positive	5.00
Exterior		B	Door	Brown	Wood	Poor	Positive	5.00
Exterior		A	Window frame	Blue	Metal	Intact	Positive	5.00
Exterior		A	Window header	Blue	Metal	Intact	Positive	4.77
Dock		D	Wall	White	Concrete	Poor	Positive	1.00
Dock		D	Window	White	Metal	Poor	Positive	5.00
Dock		D	Signage	Yellow	Concrete	Poor	Positive	4.47
Dock		D	Signage	Black	Concrete	Poor	Positive	2.72

Training Requirements

All individuals who performed this XRF testing and visual assessment have EPA and/or State licensure as Lead Inspector or Risk Assessors and have been trained in the use, calibration and maintenance of the Olympus Innov-x XRF, along with the principles of radiation safety, in accordance with the work practices of 40 CFR 745, Section 227, for States and Indian Tribes.

Equipment

The Olympus Innov-x XRF used for this evaluation was an XRF bearing instrument Number 5995. AOC followed the Performance Characteristics Sheet (PCS) for the specific X-Ray fluorescence instrument (XRF) used during the LBP evaluation of the property.

Calibration of XRF Equipment

The calibration of the instrument is done in accordance with the Performance Characteristic Sheet (PCS) for this instrument. These instruments are calibrated using the paint film nearest 1.0 mg/cm² in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2573, used the 1.040 mg/cm² film). Standardization procedures were conducted at the beginning of the LBP testing and each four hour thereafter to insure manufacturer's standards are met. If for any reason the instruments are not maintaining a consistent calibration reading within the manufacturer's standards for performance on the calibration block supplied by the manufacturer, manufacturer's recommendations are used to bring the instrument into calibration. If the instrument cannot be brought back into calibration, it is taken off the site and sent back to the manufacturer for repair and/or re-calibration.

DISCLAIMER

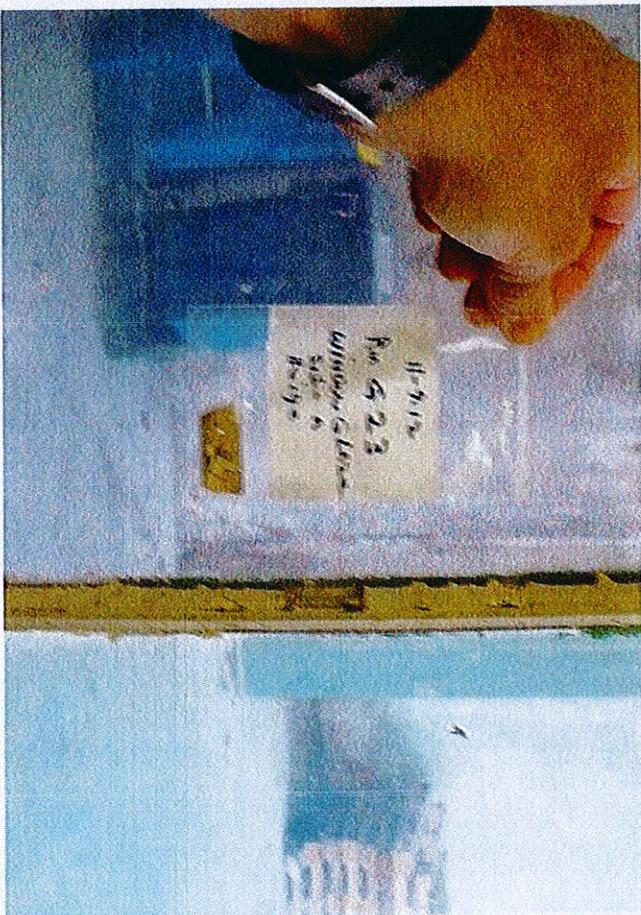
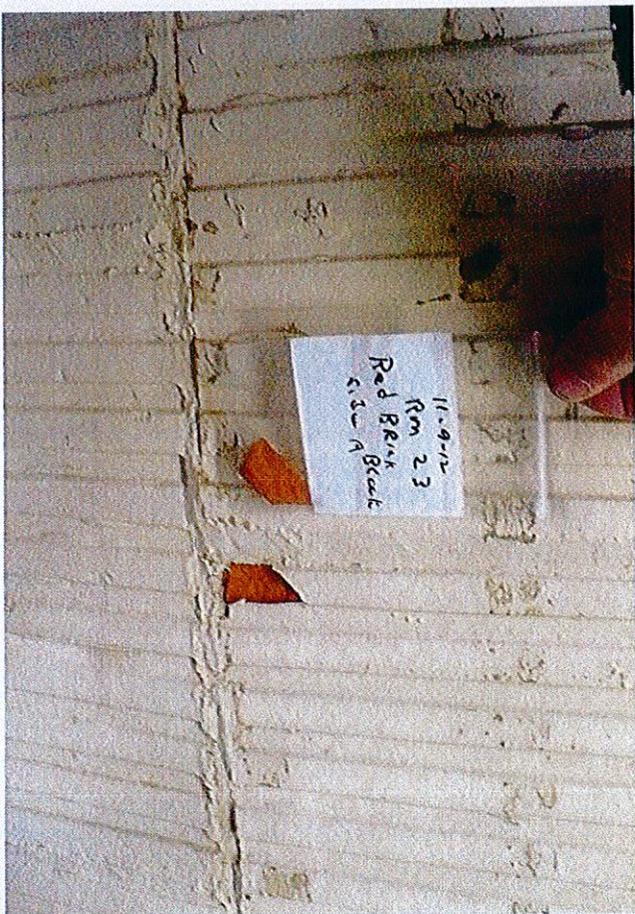
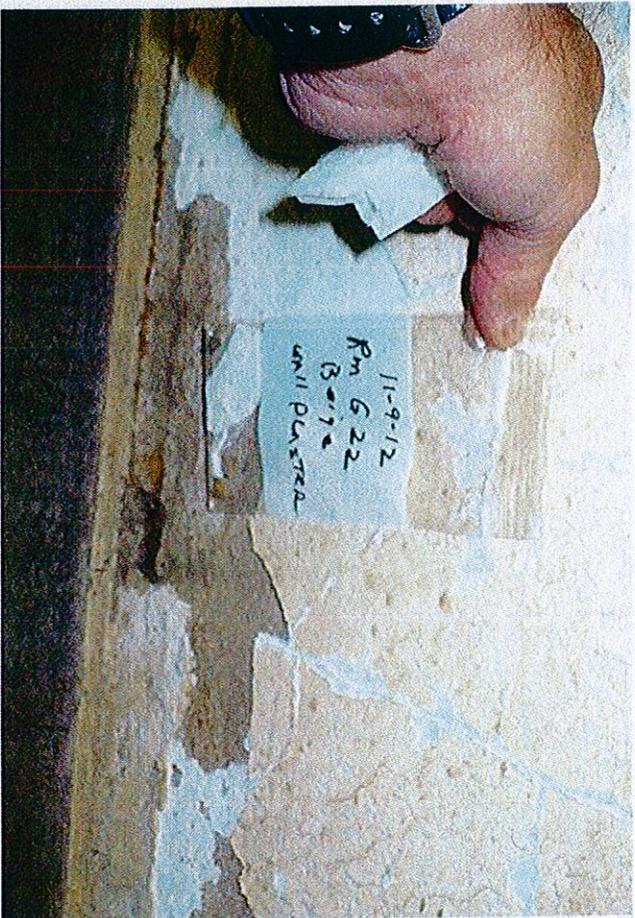
This is our report of a visual survey, and X-Ray Fluorescence (XRF) analysis of the readily accessible areas of this building and tested components. The presence or absence of LBP or LBP hazards applies only to the tested or assessed surfaces on the date of the field visit and it should be understood that conditions may change due to deterioration or maintenance. The results and material conditions noted within this report were accurate at the time of the evaluation and in no way reflect the conditions at the property after the date of the evaluation. No other environmental concerns or conditions were addressed during this evaluation.

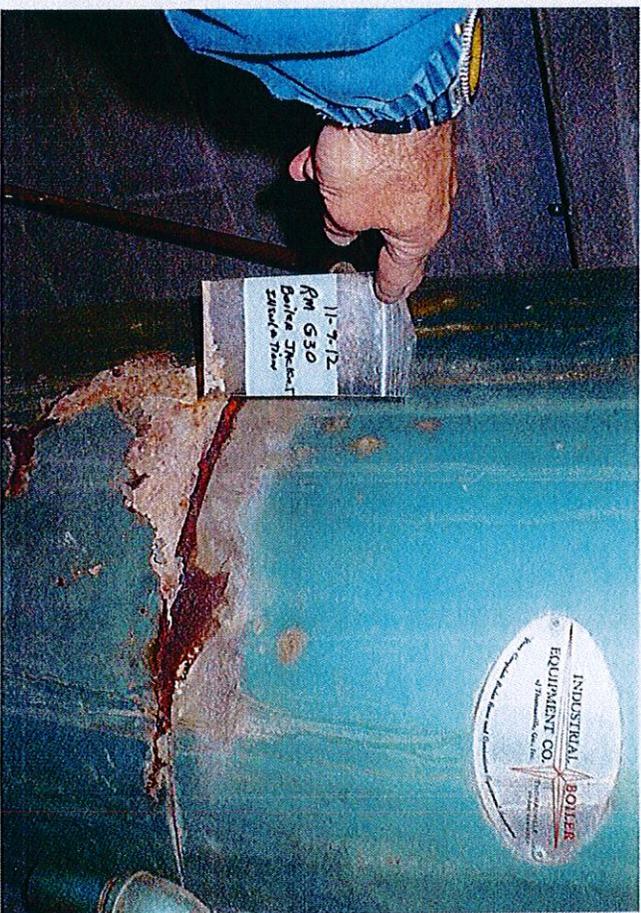
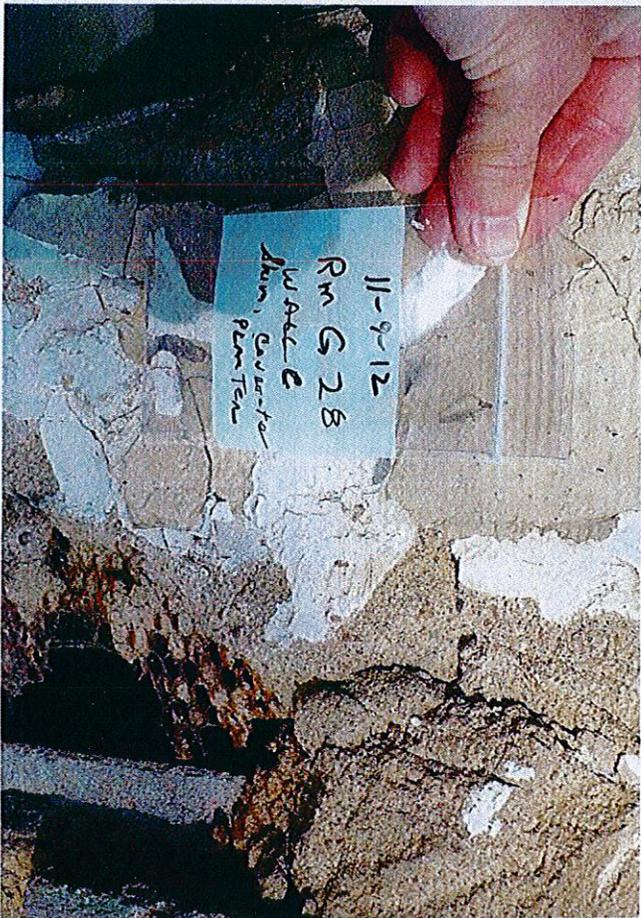
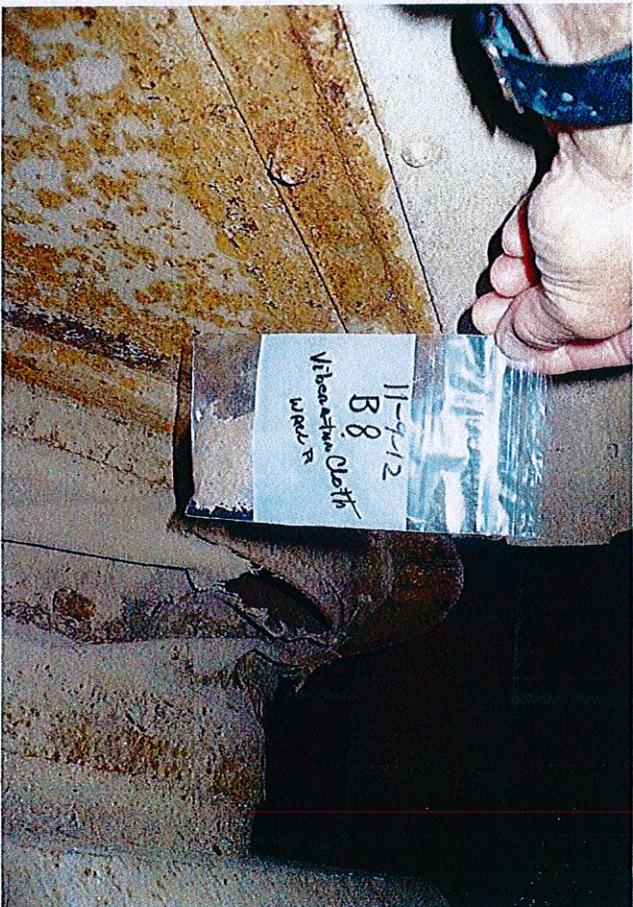
Historic Hall of Waters Building
201 E. Broadway
Excelsior Springs, MO

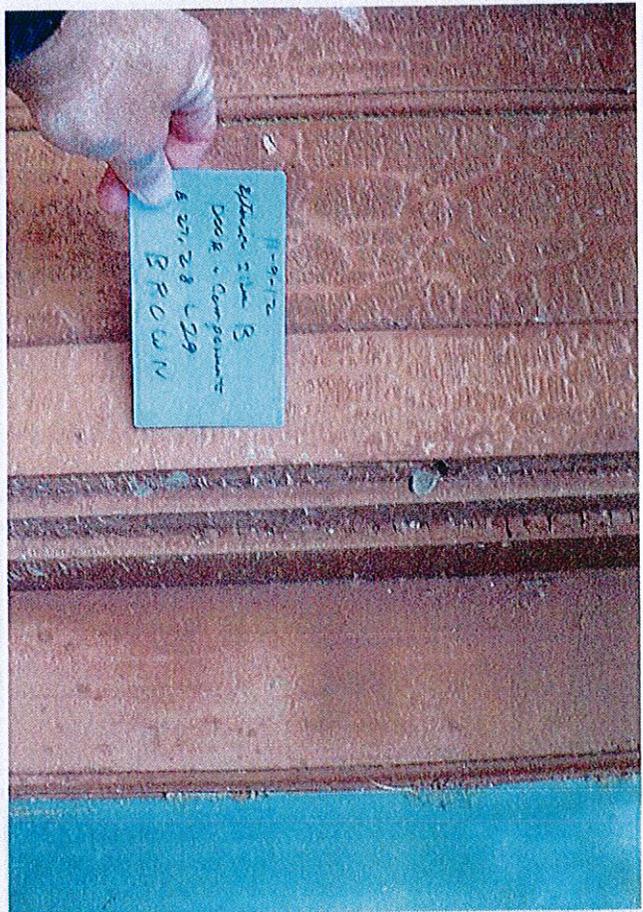
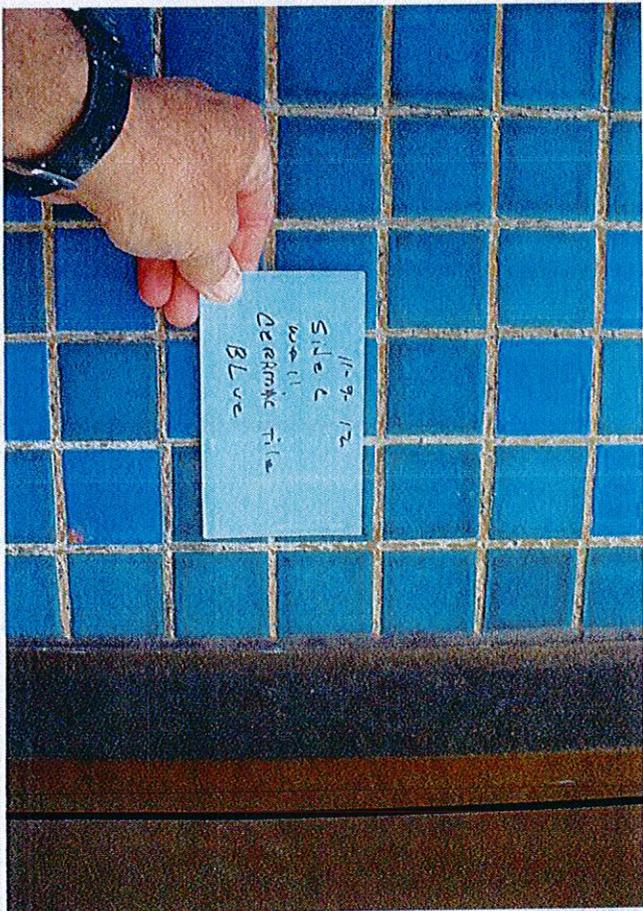
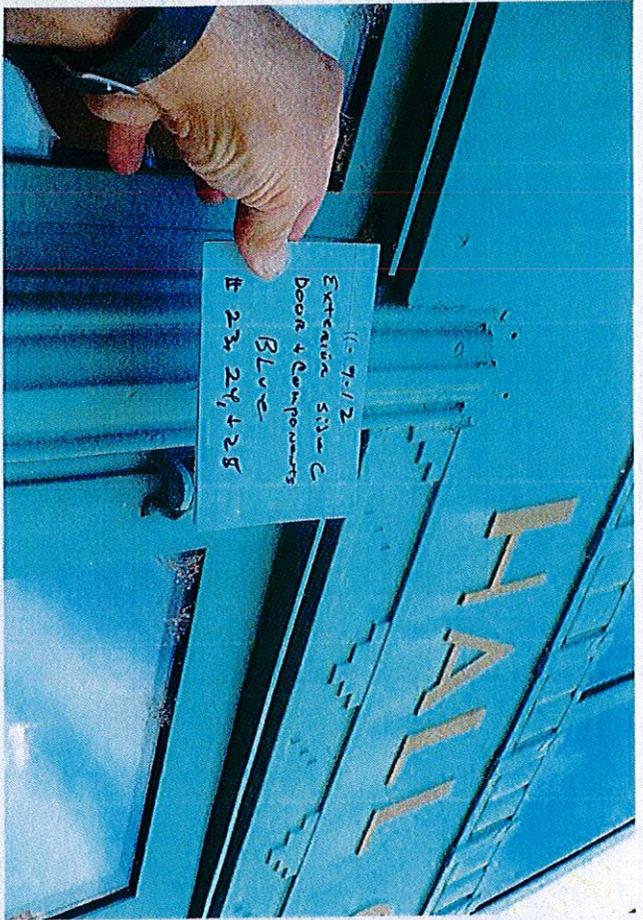
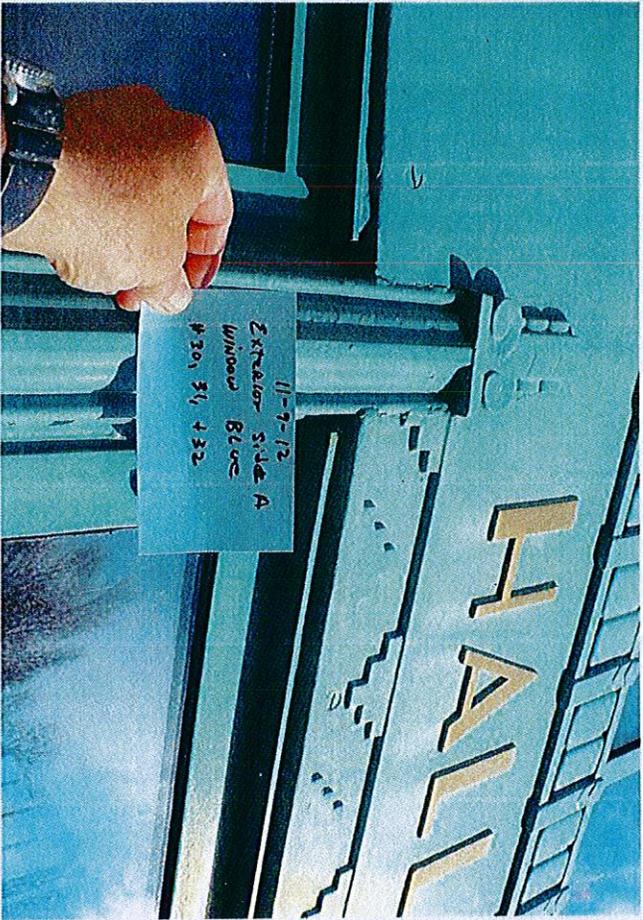
Prepared by:
American Osage Consulting, Inc.
8700 Monrovia, #310
Lenexa, KS 66215

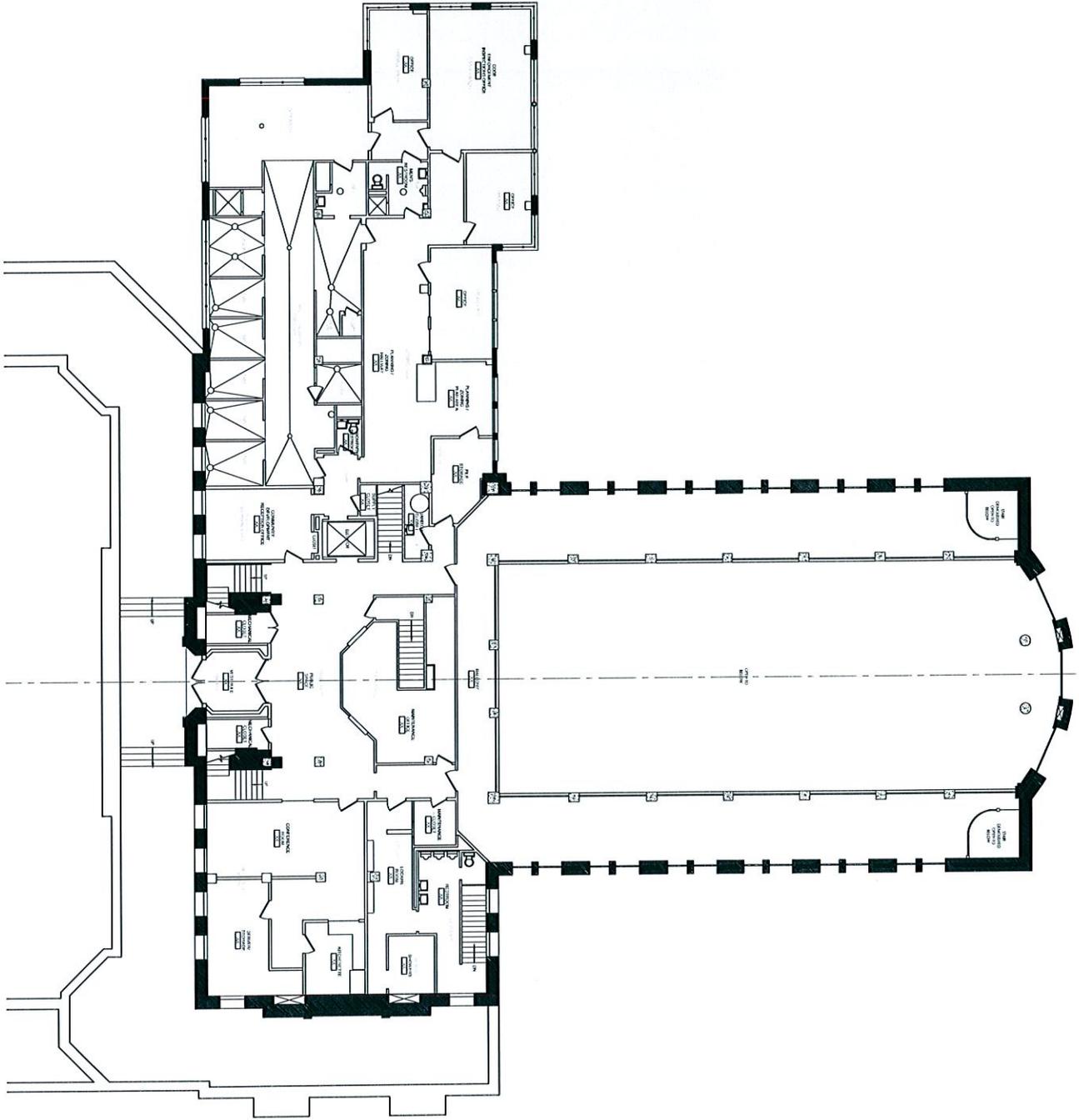
November 1, 2012

Sample Number	Room Location	Floor/ Location	Side	Component	Color	Substrate	Poor Intact	Pass Fail Standard	Reading
1		Standardization						PASS	
2		Calibration						Positive	1.11
3		Calibration						Positive	1.02
4	108	Hallway	D	Wall	Orange	Plaster	Intact	Positive	1.00
5	108	Hallway	B	Wall	Tile	Tile	Intact	Negative	0.02
6	110	First Floor	B	Window Frame	Blue	Wood	Intact	Negative	0.00
7	110	First Floor	B	Window	Black	Metal	Intact	Negative	0.00
8		Calibration						Negative	0.71
9		Standardization						PASS	
10	116	First Floor	D	Register	White	Metal	Intact	Negative	0.00
11	121	First Floor	A	Wall	Brown	Plaster		Positive	1.00
12		Standardization						PASS	
13		Calibration		Wall				Positive	1.09
14	128	First Floor	B	Wall	Brown	Tile	Intact	Negative	0.00
15	129	First Floor	B	Wall	Brown	Tile	Intact	Positive	1.00
16	130	First Floor	C	Wall	Brown	Tile	Intact	Negative	0.00
17	Exterior	level GM	B	Wrought Iron	Black	Metal	Intact	Positive	1.19
18	Exterior	level GM	B	Window	Green	Metal	Intact	Positive	5.00
19	215	Second Floor	D	Wall	Brown	Plaster	Intact	Positive	1.00
20	9	Stair 209	D	Wall	Beige	Plaster	Intact	Negative	0.02
21	9	Stair 209	D	Stair Riser	Green	Metal	Intact	Positive	5.00
22	P02	Penthouse	B	Hatch Door	Green	Wood	Intact	Positive	5.00
23	P02	Penthouse	C	Door Jamb	Green	Wood	Intact	Positive	5.00
24	P02	Penthouse	C	Door Trim	Green	Wood	Intact	Positive	5.00
25	Vestibule	GM3	B	Wall	Beige	Plaster	Intact	Negative	0.21
26	Vestibule	GM3	B	Ceiling	White	Plaster	Intact	Negative	0.06
27	GM7	Ground Mezzaine	C	Floor	Gray	Concrete	Poor	Negative	0.04
28	GM12	Ground Mezzaine	D	Wall	Beige	Plaster	Poor	Negative	0.00
29	GM12	Ground Mezzaine	B	Handrail	White	Metal	Poor	Negative	0.01
30	GM25	Ground Mezzaine		Wall	Black	Concrete	Poor	Negative	0.00
31	G03	Ground Floor	B	Wall	Beige	Plaster	Poor	Negative	0.00
32		Calibration						Positive	1.17
33	G05 RR	Ground Floor	C	Wall	Blue	Plaster		Negative	0.03
34	G05 RR	Ground Floor	A	Wall	White	Plaster		Negative	0.00
35		Standardization						PASS	
36		Calibration						Positive	1.40
37	G12	Ground Floor	A	Wall	Green	Plaster	Poor	Negative	0.13
38	G14	Ground Floor	A	Floor	Gray	Concrete	Poor	Negative	0.23







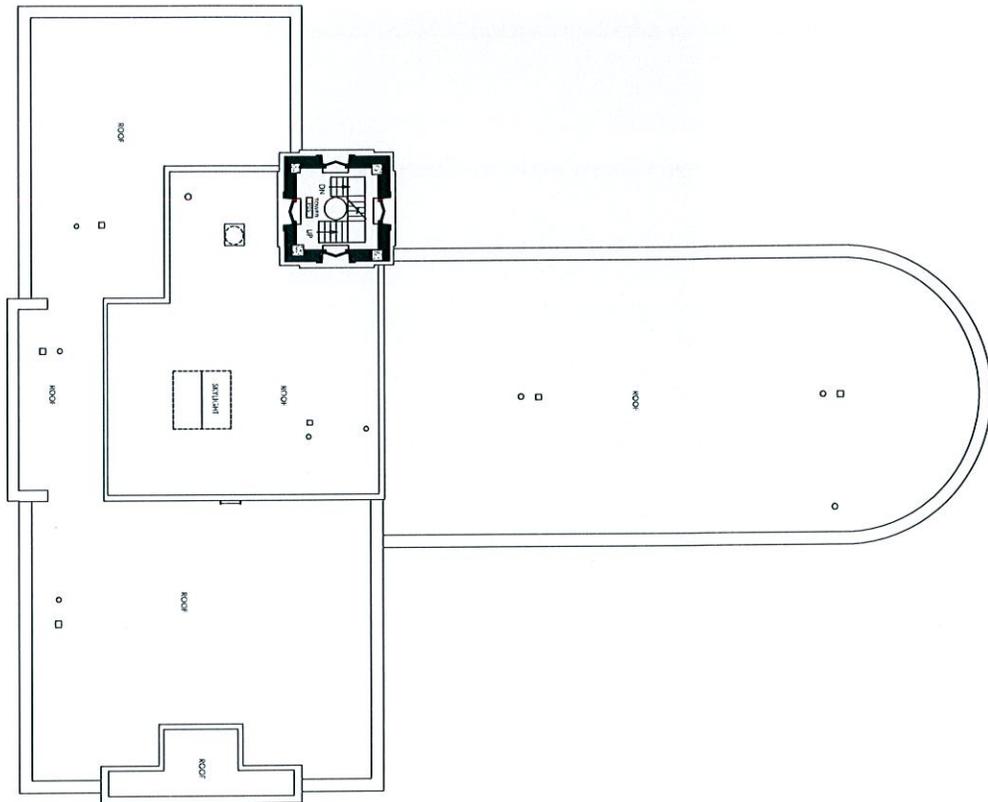


1 GROUND FLOOR MEZZANINE

Scale: 1/8" = 1'-0"

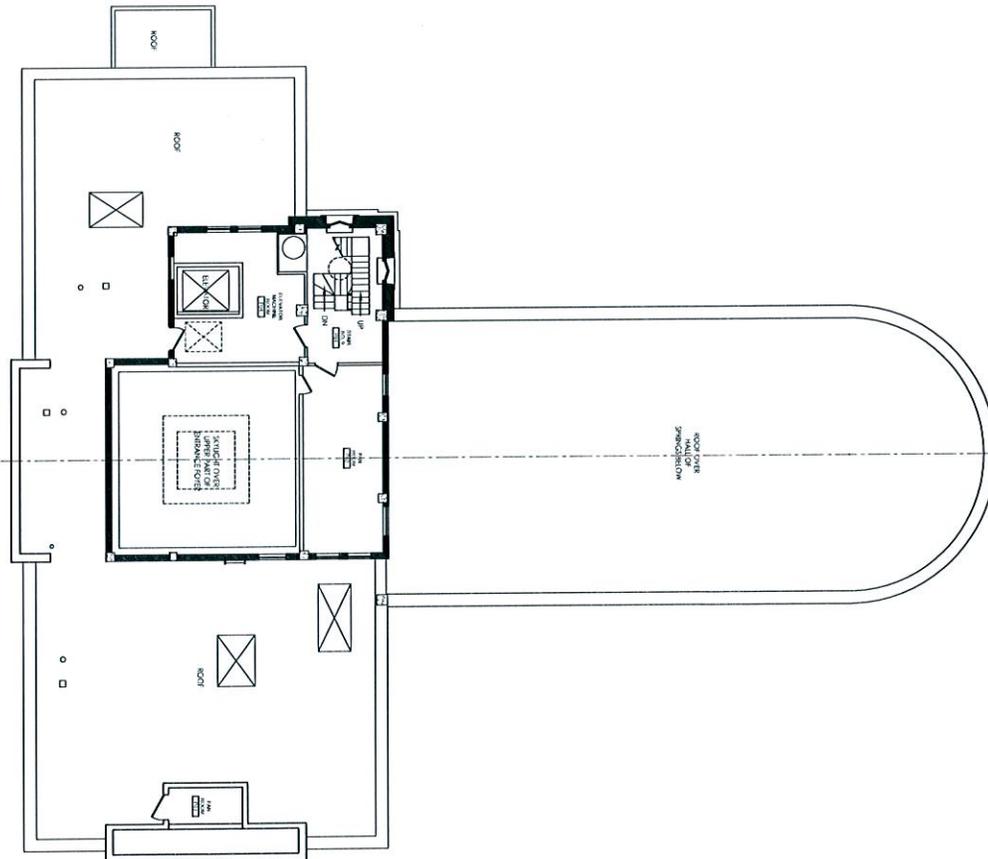
1 ROOF PLAN

Scale: 1/8" = 1'-0"



1 PENTHOUSE FLOOR PLAN

Scale: 1/8" = 1'-0"



SHEET NUMBER	
DATE	7.5.2012
REVISION & DATE	

NOT FOR CONSTRUCTION

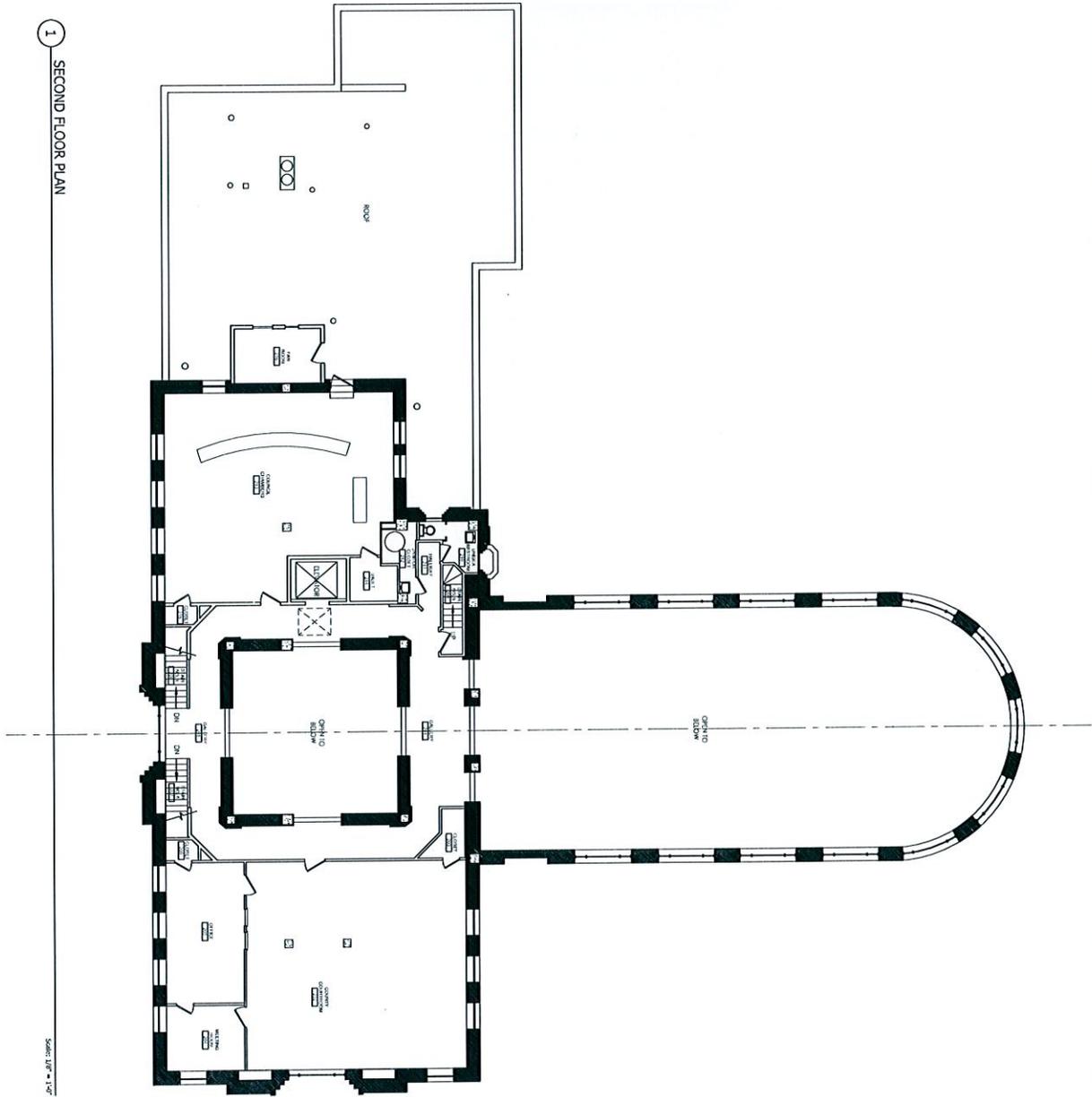
All drawings, data and information are the property of Susan Richards Johnson & Associates, Inc. and shall remain confidential and shall not be used without the written consent of the architect.

HALL OF WATERS
ASSESSMENT & FEASIBILITY STUDY
 CITY OF EXCELSIOR SPRINGS, 201 EAST BROADWAY
 EXCELSIOR SPRINGS, MO 64024

SUSAN RICHARDS JOHNSON & ASSOCIATES, INC.
 ARCHITECTURE
 RENOVATION
 PRESERVATION

118 Grand Boulevard, Suite 1100
 Kansas City, Missouri 64108
 Telephone: 816-474-0800
 Fax: 816-474-0800
 Website: www.srjarch.com

1 SECOND FLOOR PLAN



Scale: 1/8" = 1'-0"

DATE: 7.5.2012
REVISION & DATE:
SHEET NUMBER:

NOT FOR CONSTRUCTION

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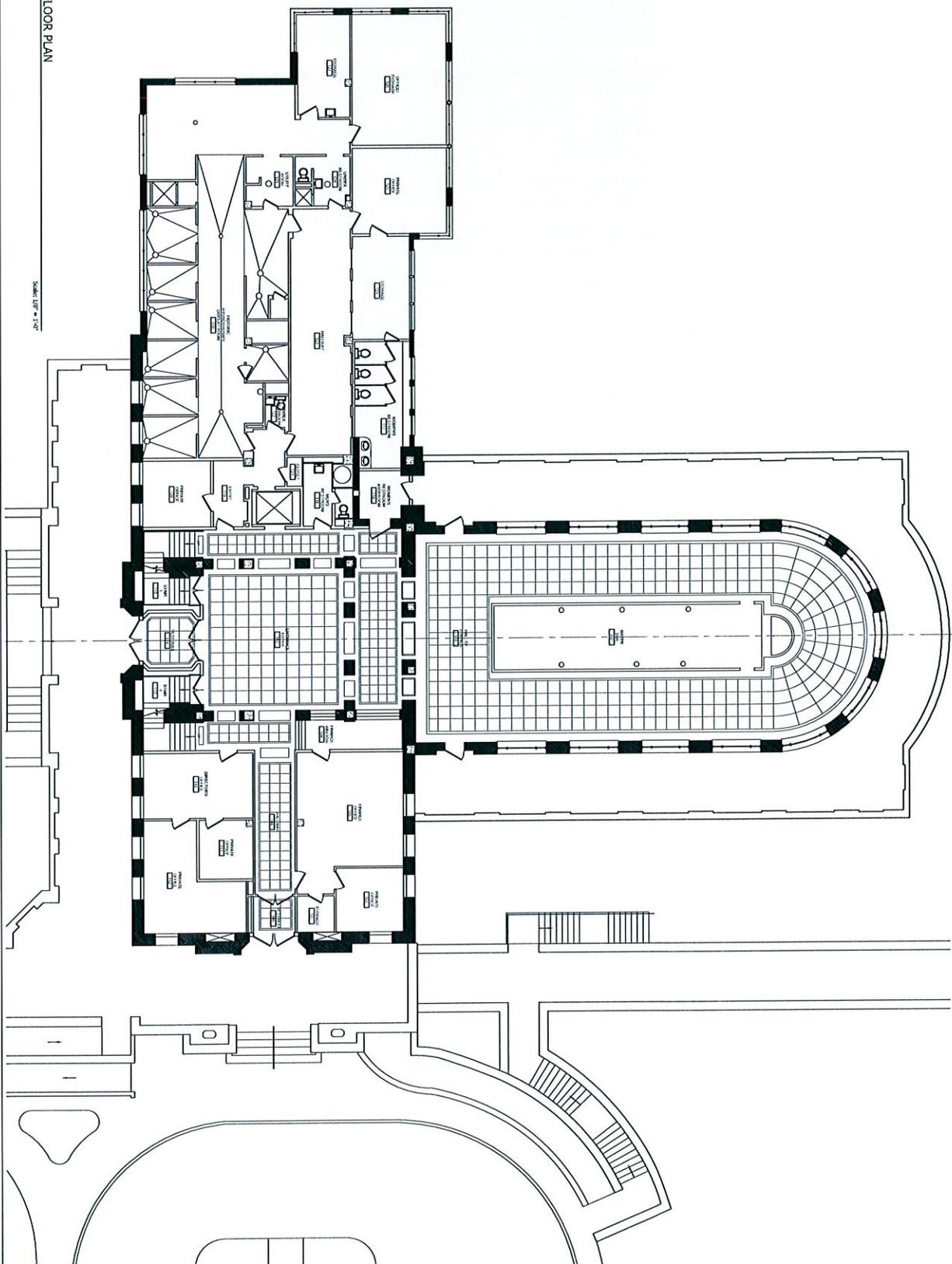
HALL OF WATERS
ASSESSMENT & FEASIBILITY STUDY
 CITY OF EXCELSIOR SPRINGS, 201 EAST BROADWAY
 EXCELSIOR SPRINGS, MO 64024

SUSAN RICHARDS JOHNSON & ASSOCIATES, INC.
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 RENOVATION
 PRESERVATION

818 Grand Boulevard, Suite 1130
 Kansas City, Missouri 64108
 Telephone: 816.474.0808
 Fax: 816.474.0808
 Website: www.srjarch.com

1 FIRST FLOOR PLAN

Scale: 1/8" = 1'-0"



DATE: 7.3.2012
 REVISION & DATE:

NOT FOR CONSTRUCTION

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SHEET NUMBER:

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ASSESSMENT & FEASIBILITY STUDY
 CITY OF EXCELSIOR SPRINGS, 201 EAST BROADWAY
 EXCELSIOR SPRINGS, MO 64024

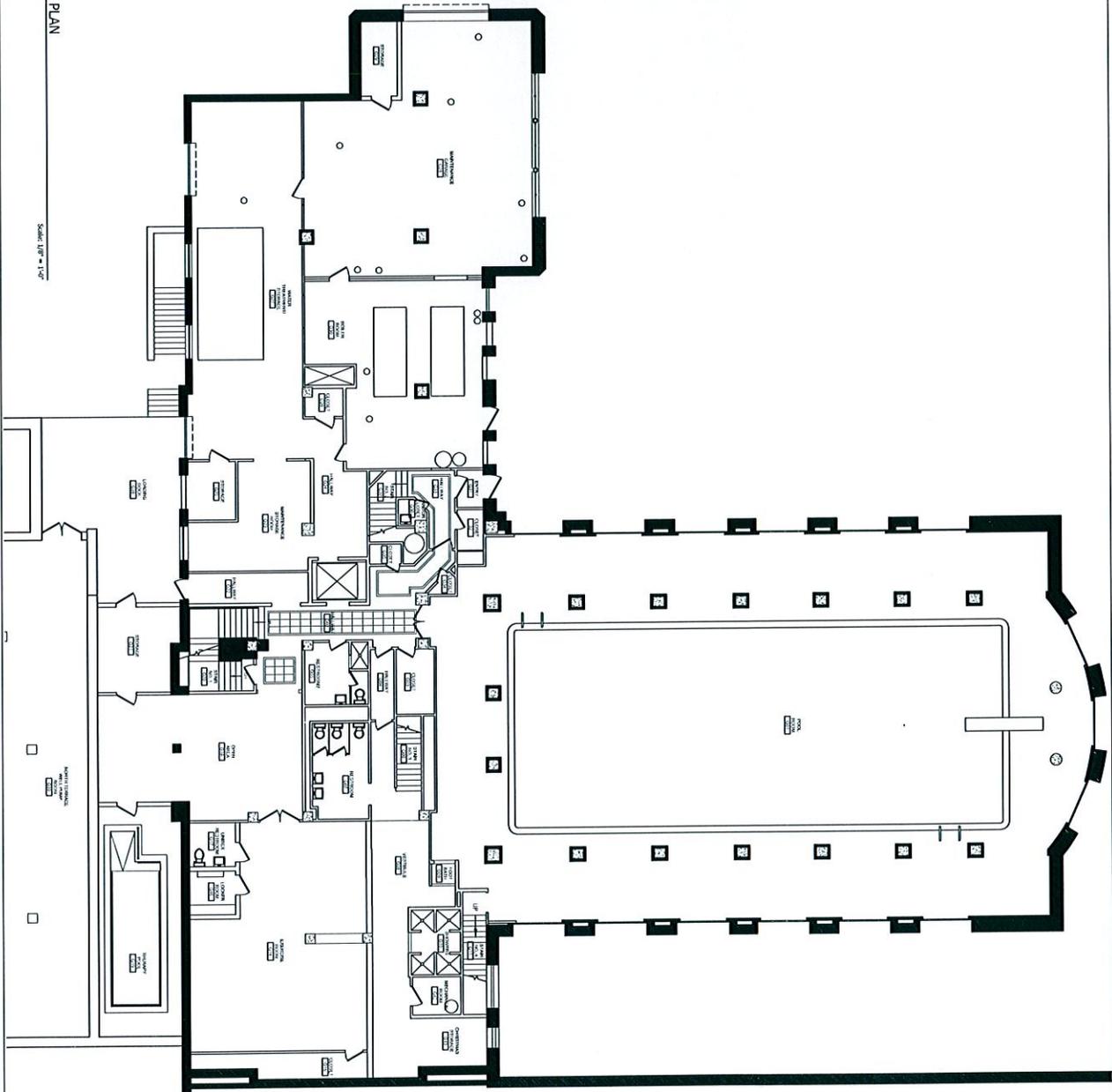
SUSAN RICHARDS JOHNSON & ASSOCIATES, INC.
 ARCHITECTURE
 RENOVATION
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218 Grand Boulevard, Suite 1150
 Kansas City, Missouri 64108
 Telephone: 816.474.0800
 Fax: 816.474.0808
 Website: www.srjarch.com

1

GROUND FLOOR PLAN

Scale: 1/8" = 1'-0"



SHEET NUMBER
DATE: 7.5.2012
REVISION & DATE

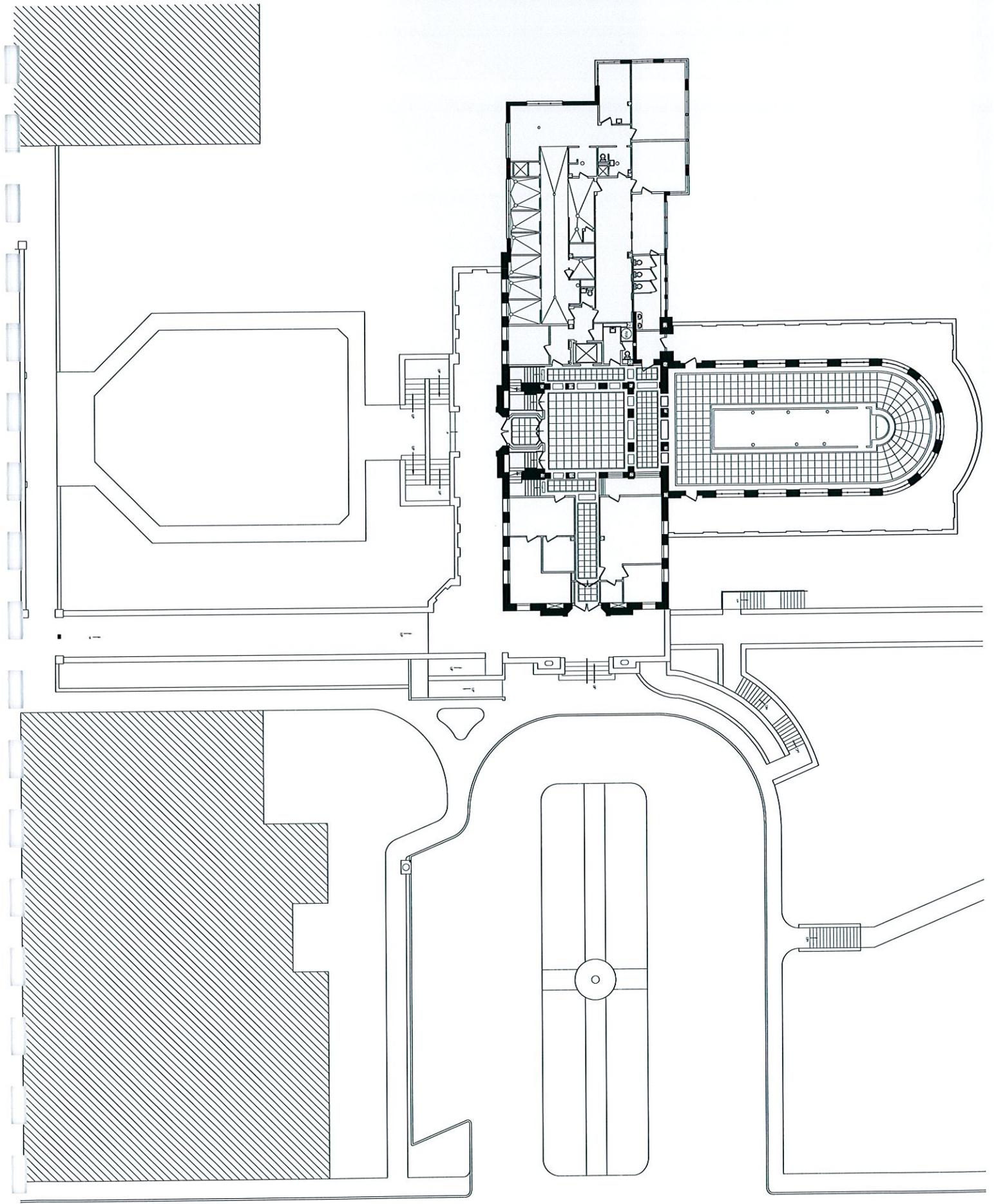
NOTICE OF CONSTRUCTION

All drawings and written information submitted herewith are for the use of the contractor and are not to be used without the written consent of the architect.

HALL OF WATERS
ASSESSMENT & FEASIBILITY STUDY
 CITY OF EXCELSIOR SPRINGS, 201 EAST BROADWAY
 EXCELSIOR SPRINGS, MO 64024

SUSAN RICHARDS JOHNSON & ASSOCIATES, INC.
 ARCHITECTURE
 RENOVATION
 PRESERVATION

618 Grand Boulevard, Suite 1100
 Kansas City, Missouri 64108
 Telephone: 816-474-0900
 Facsimile: 816-474-0900
 Website: www.srjarch.com



S MAIN STREET

APPENDIX E

Asbestos Report

ASBESTOS SUMMARY

On November 1, 2012, and November 9, 2012, American Osage Consulting, Inc. (AOC) conducted a survey to identify asbestos containing building material (ACBM) at the above site. The ACBM survey was conducted by Alvin H. Stuke. There were 32 bulk samples collected. Some samples were layered and required multiple analyses.

The bulk samples and Asbestos Chain of Custody/Analysis request form was sent to Quantem Laboratories, Oklahoma City, Oklahoma, for asbestos analysis. Quantem Laboratory analytical results are included in this report.

Asbestos Containing material (ACM) is defined by Asbestos NESHAP as any material containing more than one percent (1%) asbestos. Quantem Laboratories result indicated the following components contained asbestos greater than 1%.

The following ACBM components tested positive for asbestos:

<u>Sample No.</u>	<u>Location</u>	<u>Component</u>	<u>Color</u>	<u>Chrysotile %</u>
07-01	Vault Room 214	Floor Tile	Black	6.0
08-01	Various	Thermal Systems Insulation (TSI)	Gray	75.0

TSI includes all mudded fittings and pipe insulation throughout the building and considered to be a health hazard. It is recommended all areas and rooms having exposed or damaged TSI be closed and sealed to all traffic and occupancy.

Materials sampled and identified as Thermal System insulation (ACM) were homogenous throughout the building. A homogeneous area consists of materials which appear similar throughout in terms of color, texture and date of application. Six samples were taken in two different areas. If one sample tests positive for asbestos, all samples and material is considered positive.

Asbestos Containing Material (ACM) Categories:

Friable ACM (F)	Any material containing more than one percent asbestos that, when dry, can be crumbled, pulverized or reduced to powder by hand pressure.
Category I non-friable ACM (I)	Packing, gaskets, resilient floor covering, asphalt roofing products containing more than one percent asbestos.
Category II non-friable ACM (II)	Any non-friable material, other than Category I materials, that contain one percent asbestos.

The following Interior Bulk Samples tested Positive:

In the Vault, Room 214, black 12" X 12" Floor Tile contains 6.0% chrysotile asbestos. It is estimated to be approximately 42 square feet in the Vault.

Throughout the building TSI, 75% chrysotile, covers pipes and fittings. Fittings include elbows, T's, valves, and other pipe attachments. TSI is referred to as mudded insulation. The following is a short list locating some of the TSI during the survey. These are estimates.

<u>Location</u>	<u>Room</u>	<u>Component</u>	<u>Estimate</u>
First Floor	Room 122	5 fittings	15 linear feet
Ground Floor			
Mezzanine	Room GM 2	6 fittings	40 linear feet
Ground Floor	Room G10		15 linear feet
	Room G12		14 linear feet
	Room G13		30 linear feet
	Room G23	8 fittings	46 linear feet
	Room G25	6 fittings	10 linear feet
Ground Floor	Room 26	2 fittings	8 linear feet
	Room 28	25 fittings	180 linear feet
	Room 29	1 fitting	20 linear feet
	Room 30	20 fittings	80 linear feet
Swimming Pool Area		50 fittings	1500 linear feet
Penthouse	Fan Room	4 fittings	15 linear feet

CONCLUSION

There is a serious health hazard in the building relating to asbestos containing building material found in many areas. The thermal system insulation (TSI) is 75% chrysotile friable asbestos and in poor condition in some areas. In the swimming pool area it appears a renovation and repair project has stopped. The area is not locked or sealed off and clean up was not completed. The asbestos containing TSI and debris is found in the pool area. Loose pieces of TSI and powder can be found on the floor and track outside the swimming pool area.

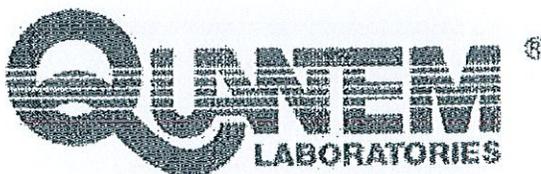
DISCLAIMER

This is our report of a visual survey, and bulk sampling readily accessible areas of suspect asbestos containing building materials. The presence or absence of ACBM or

Asbestos hazards applies only to the tested or assessed surfaces on the date of the field visit and it should be understood that conditions may change due to deterioration or maintenance. The results and material conditions noted within this report were accurate at the time of the evaluation and in no way reflect the conditions at the property after the date of the evaluation. No other environmental concerns or conditions were addressed during this evaluation.

Alvin H Stake

Missouri Asbestos Inspector
7011010612MOIR10763



2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

American Osage Consulting, Inc.
8700 Monrovia, Suite 310
Lenexa, KS 66215

Re: QuantEM ID 214838

QuantEM appreciates the opportunity to provide analytical testing services to you. Attached are your reports and other supporting documentation for the above referenced project.

Thank you for making QuantEM your lab of choice. If you have any question concerning this or other reports please feel free to contact us at 800-822-1650.

We continually work to improve our service. Help us out by providing feed back on your experience at www.QuanTEM.com. Click on Service Survey and fill out the form. We look forward to hearing from you.

Respectfully,
QuantEM Laboratories, LLC.





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Polarized Light Microscopy Asbestos Analysis Report

Quantem Lab No. 214838

Account Number: B467

Date Received: 11/06/2012

Received By: Joanna Mueller

Date Analyzed: 11/07/2012

Analyzed By: Sandy Baker

Methodology: EPA/600/R-93/116

Client: American Osage Consulting, Inc.
8700 Monrovia, Suite 310
Lenexa, KS 66215

Project: Phase I Asbestos

Project Location: 201 E Broadway Excelsior Springs MO

Project Number: 12210

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
001	01-01	Layered	White Skim Coat	Asbestos Not Present	NA	CaCO3 Binder
001a		Layered	Light Gray Plaster	Asbestos Not Present	NA	Quartz CaCO3
002	01-02	Homogeneous	Gray Plaster	Asbestos Not Present	NA	Quartz CaCO3
003	02-01	Homogeneous	Gray Plaster	Asbestos Not Present	NA	Quartz CaCO3
004	02-02	Homogeneous	Gray Plaster	Asbestos Not Present	NA	Quartz CaCO3
005	02-03	Homogeneous	Gray Plaster	Asbestos Not Present	NA	Quartz CaCO3
006	03-01	Layered	White Skim Coat	Asbestos Not Present	NA	CaCO3 Binder

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Quantem is a NVLAP accredited TEM and PLM laboratory (Lab Code: 101959-0). This report relates only to the specific items tested. NVLAP accreditation applies only to analysis performed utilizing EPA/600/M4-82-020 and EPA/600/R-93/116 methods. This report may not be used to claim product endorsement by NVLAP or any other agency of the US Government. This report may not be reproduced except in full, without the written approval of the laboratory.



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Project: Phase I Asbestos

Project Location: 201 E Broadway Excelsior Springs MO

Project Number: 12210

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
006a		Layered	Gray Plaster	Asbestos Not Present	NA	Quartz CaCO3
007	03-02	Homogeneous	Gray Plaster	Asbestos Not Present	NA	Quartz CaCO3
008	04-01	Homogeneous	White Ceiling Tile	Asbestos Not Present	Cellulose 30 Glass Fiber 30	Perlite 30 Paint
009	05-01	Homogeneous	White Ceiling Tile	Asbestos Not Present	Cellulose 30 Glass Fiber 30	Perlite 30 Paint
010	06-01	Homogeneous	White Ceiling Texture	Asbestos Not Present	NA	CaCO3 Binder
011	07-01	Homogeneous	Black Floor Tile	Asbestos Present Chrysotile 6	NA	Vinyl CaCO3
012	08-01	Homogeneous	Gray Insulation	Asbestos Present Chrysotile 75	NA	Binder

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QuanTEM Lab No. 214838

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Date Analyzed: 11/07/2012

Analyzed By: Sandy Baker

Methodology: EPA/600/R-93/116

Client: American Osage Consulting, Inc.
8700 Monrovia, Suite 310
Lenexa, KS 66215

Project: Phase I Asbestos

Project Location: 201 E Broadway Excelsior Springs MO

Project Number: 12210

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
013	08-02	**	** Insulation	**	Not Analyzed	
Positive Stop						
014	08-03	**	** Insulation	**	Not Analyzed	
Positive Stop						
015	08-04	**	** Insulation	**	Not Analyzed	
Positive Stop						
016	08-05	**	** Insulation	**	Not Analyzed	
Positive Stop						
017	08-06	**	** Insulation	**	Not Analyzed	
Positive Stop						
018	09-01	Homogeneous	Black Tar	Asbestos Not Present	Cellulose 25	Tar
019	09-02	**	** **	**	Not Analyzed	

Metal fragments in container. No tar found in sample container.

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

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8700 Monrovia, Suite 310
Lenexa, KS 66215

Project: Phase I Asbestos

Project Location: 201 E Broadway Excelsior Springs MO

Project Number: 12210

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
020	09-03	Homogeneous	Black Tar	Asbestos Not Present	Cellulose 25	Tar
021	10-01	Homogeneous	Beige Window Glazing	Asbestos Not Present	NA	CaCO3 Binder
022	11-01	Layered	White Skim Coat	Asbestos Not Present	NA	CaCO3 Binder
022a		Layered	Gray Plaster	Asbestos Not Present	NA	Quartz CaCO3
023	11-02	Layered	White Skim Coat	Asbestos Not Present	NA	CaCO3 Binder
023a		Layered	Gray Plaster	Asbestos Not Present	NA	Quartz CaCO3

Sandy Baker, Analyst

11/7/2012

Date of Report

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

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 Lab No. 214838
 Accept Reject
 Report Results (in one box)
 QuanTEM Website
 Other _____

Company: American OSABE Consulting Project Name: Phase I Asbestos
 Contact: Patsy Stoker Project Location: 201 E Broadway Springs MO
 Account #: B 467 Project ID: 12210
 Sampled By: Alvin H. Stoker Date: 11-1-2012 VIA postulco@amercon.com

REINQUISHED BY: Alvin H. Stoker DATE & TIME: 11/5/12 PM RECEIVED BY: [Signature] DATE & TIME: 11/6/12 9:50

REQUESTED SERVICES (Please check the appropriate boxes)

PLM	PLM	TEM	TEM
<input checked="" type="checkbox"/> Bulk Analysis (EPA 600/R-93/116)	<input type="checkbox"/> Vermiculite Attic Insulation (EPA 600/R-04/004)	<input type="checkbox"/> Air- AHERA	<input type="checkbox"/> Bulk- Presence / Absence EPA600/R-93/116
<input type="checkbox"/> 400 Point Count	<input type="checkbox"/> Other	<input type="checkbox"/> Air- MOSH 7402	<input type="checkbox"/> Bulk- Quantitative [weight%]- Chatfield
<input type="checkbox"/> 1000 Point Count	PCM	<input type="checkbox"/> Air-ISO 10312	<input type="checkbox"/> Dust- Presence / Absence
<input type="checkbox"/> Gravimetric Preparation		<input type="checkbox"/> Drinking Water- EPA 100.2	<input checked="" type="checkbox"/> 24 - Hour
<input type="checkbox"/> Particle ID	<input type="checkbox"/> NIOSH 7400	<input type="checkbox"/> Waste Water- EPA 600/4-83-043	<input type="checkbox"/> 3 - Day
			<input type="checkbox"/> 5 - Day

No.	Sample ID (10 Characters Max)	To Be Analyzed	Description	Volume / Area (as applicable)	Comments / Notes
1	01-01	<input checked="" type="checkbox"/>	white ceiling plaster	Room 110	
2	01-02	<input type="checkbox"/>	" "	" 202	
3	02-01	<input type="checkbox"/>	Mortar	" 212	
4	02-02	<input type="checkbox"/>	" "	" P04	
5	02-03	<input type="checkbox"/>	" "	" Gm12	
6	03-01	<input type="checkbox"/>	WALL PLASTER	" 215	
7	03-02	<input type="checkbox"/>	" "	" G 05	
8	04-01	<input type="checkbox"/>	2x2 Ceiling Tile	Room 213	
9	05-01	<input type="checkbox"/>	Ceiling tile	RR G11	
10	06-01	<input type="checkbox"/>	Ceiling Plaster/Texture Open Space	RR G18	

SATURDAY SAMPLE DELIVERY - CALL TO SCHEDULE • Use this address for Saturday Delivery only: 4220 N. Santa Fe Ave., Oklahoma City, OK 73105-8517 • Mark Package "Hold for Saturday Pickup"

Alvin Stoker
 Positive
 Thank you



www.QuanTEM.com

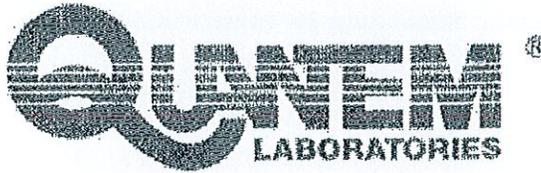
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 Lab No. 214838
 Accept Reject

Project Information		Project Name: <u>Phase I Asbestos</u>		Project Location: <u>Excelsior Springs MO</u>		
No.	Sample ID (10 Characters Max)	To Be Analyzed	Color	Description	Volume/Area (as applicable)	Comments / Notes
11	07-01	<input checked="" type="checkbox"/>	BLK	12X12 FT	Room 214 Vault	
12	08-01	<input checked="" type="checkbox"/>	Stop Position Gray	MUD FILLING TSI	PO 2	
13	08-02	<input type="checkbox"/>		"	"	
14	08-03	<input type="checkbox"/>		"	"	
15	08-04	<input type="checkbox"/>		"	Rm 122	
16	08-05	<input type="checkbox"/>		"	"	
17	08-06	<input type="checkbox"/>		"	"	
18	09-01	<input type="checkbox"/>	Black	ROOF TAR	Roof	
19	09-02	<input type="checkbox"/>	"	"	"	
20	09-03	<input type="checkbox"/>	"	"	"	
21	10-01	<input type="checkbox"/>	Black	WINDOW GLAZE	PO 4	
22	11-01	<input type="checkbox"/>	Gray	WALL Concrete/Plaster	Rm 121	
23	11-02	<input type="checkbox"/>	"	"	PO 1	
24		<input type="checkbox"/>				
25		<input type="checkbox"/>				
26		<input type="checkbox"/>				
27		<input type="checkbox"/>				
28		<input type="checkbox"/>				
29		<input type="checkbox"/>				
30		<input type="checkbox"/>				



2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

American Osage Consulting, Inc.
8700 Monrovia, Suite 310
Lenexa, KS 66215

Re: QuantEM ID 215046

QuantEM appreciates the opportunity to provide analytical testing services to you. Attached are your reports and other supporting documentation for the above referenced project.

Thank you for making QuantEM your lab of choice. If you have any question concerning this or other reports please feel free to contact us at 800-822-1650.

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Respectfully,
QuantEM Laboratories, LLC.





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Polarized Light Microscopy Asbestos Analysis Report

Quantem Lab No. 215046

Account Number: B467

Date Received: 11/12/2012

Received By: Joanna Mueller

Date Analyzed: 11/13/2012

Analyzed By: Sandy Baker

Methodology: EPA/600/R-93/116

Client: American Osage Consulting, Inc.
8700 Monrovia, Suite 310
Lenexa, KS 66215

Project: Phase I Asbestos

Project Location: Excelsior Springs, MO

Project Number: 12210

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
001	03-03	Layered	White Texture	Asbestos Not Present	NA	CaCO3 Paint
001a		Layered	White Skim Coat	Asbestos Not Present	NA	CaCO3 Binder
001b		Layered	Tan Plaster	Asbestos Not Present	NA	Quartz CaCO3
002	06-02	Layered	White Texture	Asbestos Not Present	NA	CaCO3 Paint
002a		Layered	White Skim Coat	Asbestos Not Present	NA	CaCO3 Binder
002b		Layered	Tan Plaster	Asbestos Not Present	NA	Quartz CaCO3
003	10-03	Homogeneous	Tan Window Glazing	Asbestos Not Present	NA	CaCO3 Binder

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Quantem is a NVLAP accredited TEM and PLM laboratory (Lab Code: 101959-0). This report relates only to the specific items tested. NVLAP accreditation applies only to analysis performed utilizing EPA/600/M4-82-020 and EPA/600/R-93/116 methods. This report may not be used to claim product endorsement by NVLAP or any other agency of the US Government. This report may not be reproduced except in full, without the written approval of the laboratory.



2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

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004b		Layered	Tan Plaster	Asbestos Not Present	NA	Quartz CaCO3
005	12-01	Homogeneous	White Gasket	Asbestos Not Present	Glass Fiber 98	
006	13-01	Homogeneous	Tan Insulation	Asbestos Not Present	NA	Clay Binder
007	14-01	Homogeneous	Red Brick	Asbestos Not Present	NA	Clay Binder
008	14-02	Homogeneous	Red Brick	Asbestos Not Present	NA	Clay Binder

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Client: American Osage Consulting, Inc.

8700 Monrovia, Suite 310

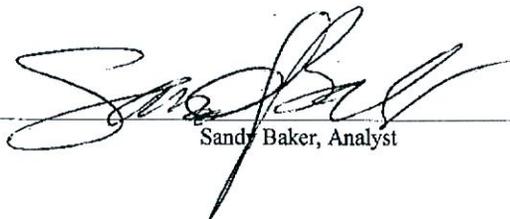
Lenexa, KS 66215

Project: Phase I Asbestos

Project Location: Excelsior Springs, MO

Project Number: 12210

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
009	15-01	Homogeneous	Gray Vibration Cloth	Asbestos Not Present	Cellulose	95



Sandy Baker, Analyst

11/13/2012
Date of Report

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

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ASBESTOS CHAIN OF CUSTODY

2033 Heritage Park Drive, Oklahoma City, OK 73120-7502
 (800) 822-1650 • (405) 755-7272 • Fax: (405) 755-2058

Lab No. 215046
 Accept Reject

Report Results (Phone-Box)
 QuantEM Website
 Other

Company: American Usage Consulting
 Contact: Patsy Stuke
 Account #: B 467
 Project Name: Phase I Asbestos
 Project Location: Spallion Springs MO
 Project ID: 12210

Sampled By: Alvin H. Stuke Date: 11-9-12
 Date & Time: 11/9/12 8m FedEx RECEIVED BY: J. Mueller DATE & TIME: 11/12/12 10:15

REQUESTED SERVICES (Please check the appropriate boxes)

PLM	PLM	TEM	TEM	TEM	TURNAROUND TIME
<input checked="" type="checkbox"/> Bulk Analysis (EPA 600/R-93/116)	<input type="checkbox"/> Vermiculite Attic Insulation (EPA 600/R-04/004)	<input type="checkbox"/> Air-AHERA	<input type="checkbox"/> Bulk-Presence / Absence EPA600/R-93/116	<input type="checkbox"/> Rush	
<input type="checkbox"/> 400 Point Count	<input type="checkbox"/> Other	<input type="checkbox"/> Air-NIOSH 7402	<input type="checkbox"/> Bulk-Quantitative (weight%) - Chatfield	<input type="checkbox"/> Same Day	
<input type="checkbox"/> 1000 Point Count		<input type="checkbox"/> Air-ISO 10312	<input type="checkbox"/> Dust-Presence / Absence	<input checked="" type="checkbox"/> 24-Hour	
<input type="checkbox"/> Gravimetric Preparation	<input type="checkbox"/> PCM	<input type="checkbox"/> Drinking Water-EPA 100.2	<input type="checkbox"/> Dust-Quantitative (fibers/sq.cm) - ASTM D5755	<input type="checkbox"/> 3-Day	
<input type="checkbox"/> Particle ID	<input type="checkbox"/> NIOSH 7400	<input type="checkbox"/> Waste Water-EPA 600/4-83-043	<input type="checkbox"/> Other	<input type="checkbox"/> 5-Day	

No.	Sample ID (10 Characters Max)	To Be Analyzed	Color	Description	Volume/Area (as applicable)	Comments/Notes
1	03-03	<input checked="" type="checkbox"/>	white	Wall Paper		Room G 22
2	06-02	<input checked="" type="checkbox"/>	white	Ceiling Texture		Room G 22 & G 23
3	10-03	<input checked="" type="checkbox"/>	Beige	Window Sillings		Room G 23
4	11-03	<input checked="" type="checkbox"/>	White	Wall Skim Costrate, Plaster		" G 28
5	12-01	<input checked="" type="checkbox"/>	white	Boiler Jacket		" G 30
6	13-01	<input checked="" type="checkbox"/>	TAN	Boiler Jacket Insulation		" G 30
7	14-01	<input checked="" type="checkbox"/>	Red	Bricks		G 22
8	14-02	<input checked="" type="checkbox"/>	Red	"		G 23
9	15-01	<input checked="" type="checkbox"/>	Gray	Vibration Cloth		B 8
10		<input type="checkbox"/>				

APPENDIX F

Certificates and Resumes

STATE OF MISSOURI
DEPARTMENT OF HEALTH AND SENIOR SERVICES

Lead Abatement Contractor License

The person, firm or corporation whose name appears on this certificate is licensed as a Lead Abatement Contractor as set forth in the Missouri Revised Statutes 701.300-701.338 and 19 CSR 30-70.180, as long as not suspended or revoked, and is hereby authorized to engage in lead-bearing substance activities.

Issued to:

AMERICAN OSAGE CONSULTING INC
8700 MONROVIA #310
LENEXA KS 66215

Issuance Date: 8/31/2011
Expiration Date: 8/31/2013
License Number: 070831-004320



Margaret T. Donnelly

Margaret T. Donnelly
Director

Department of Health and Senior Services

Lead Licensing Program, PO Box 570, Jefferson City, MO 65102

STATE OF MISSOURI
DEPARTMENT OF HEALTH AND SENIOR SERVICES

LEAD OCCUPATION LICENSE REGISTRATION

Issued to:

ALVIN STUKE

The person, firm or corporation whose name appears on this certificate has fulfilled the requirements for licensure as set forth in the Missouri Revised Statutes 701.300-701.338, as long as not suspended or revoked, and is hereby authorized to engage in the activity listed below.

Lead Risk Assessor
Category of License

Issuance Date: 4/7/2011
Expiration Date: 4/7/2013
License Number: 050407-300000776



A handwritten signature in black ink that reads "Margaret T. Donnelly".

Margaret T. Donnelly
Director

Department of Health and Senior Services

Lead Licensing Program, PO Box 570, Jefferson City, MO 65102

Expiration Date **1/19/2013** Certificate Number: 7011010612MOIR10763

Training Date: **1/6/2012**

Missouri State Certificate for Asbestos Related Occupations

issued by Department of Natural Resources
P.O. Box 176
Jefferson City, MO 65102
Phone (573) 751-4817

Alvin H. Stuke

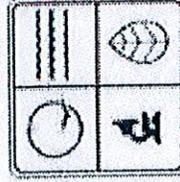
has successfully completed the requirements for certification as a INSPECTOR. This Missouri State Certification is subject to review and the director may deny, suspend or revoke the certification per RSMo chapter 643.230.

1/20/2012

Date

Kyra L Moore

Director of Air Pollution Control Program



SUMMARY OF EXPERIENCE

William R. Browning REPA, REA
Civil/Environmental Engineer

AREAS OF SPECIALIZATION

Phase I and Environmental Site Assessments, Toxic Substances Control Act (TSCA), Asbestos and Lead-based Paint Consultation, Clean Water Act permitting, Building/Property Condition Assessments, Project Management, and Program Development/Investigation. Experienced in Environmental Permitting (Clean Air Act Amendments and Resource Conservation & Recovery Act).

TECHNICAL EXPERIENCE

Mr. Browning has over 20 years experience performing Phase I and II investigations, property condition assessments, asbestos and lead-based paint inspections, and other environmental services. Mr. Browning has over 25 years of diversified engineering and project management experience including over three years of engineering economic/finance analysis experience and six years of construction management experience in heavy and light commercial construction.

Phase I, II, and III Environmental Site Assessments, Various Client Types From Government Agencies, Manufacturing Facilities, to numerous Commercial Lenders, Project Manager

Mr. Browning has been involved in all aspects of ESA's. Duties have included: project management, site coordination, field leadership, sampling and analysis, field inspection, and report authorship. Mr. Browning has completed/managed approximately 4,500 Phase I ESAs in over 35 states, including Alaska, and Mexico.

Examples of Phase I Projects:

Hundreds of office, office/warehouse, apartment, and retail facilities in over 35 states.

35+ apartment complexes throughout Oklahoma City, OK metro area

35+ commercial/industrial sites in North Kansas City, MO

49 rural US Postal facilities in 11 states

Eleven (11) former Franklin Saving Assoc. facilities to RTC requirements

Approximately 80-100 ESA projects total completed to RTC requirements

Project Manager of consulting group assigned to RTC responsible for reviewing hundreds of Phase I and other environmental reports submitted to RTC

12 building historic warehouse complex in Topeka, KS

30 to 40 building office/warehouse facility in Miami, FL

Multiple chemical manufacturing facilities in Kansas and Missouri

Multiple plastics manufacturing facilities in Kansas City

Mirror manufacturing facility in central California

Multiple steel fabrication facilities in Kansas

Pre-cast concrete manufacturer in Missouri

Multiple medical facilities in Kansas and Missouri

Regional hospital in Independence, MO

Several undeveloped tracts of land including sites as large as 500 acres

Miscellaneous Phase I ESAs

Historic Building, Cleveland, OH, Project Manager--Provided government agency consultation concerning the structural and environmental concerns associated with a 150-year-old building.

Historic Building, Boston, MA, Project Consultant--Provided lender consultation concerning the structural and environmental concerns associated with a 200-year-old building in Boston port area.

Technical Compliance Audit, Resolution Trust Corporation, Project Manager--While serving as a Project Engineer for ESE, Mr. Browning managed an audit team, which reviewed Phase I, Phase II, and Phase III ESAs; asbestos surveys; environmental liability claims; and UST investigations/closures for Kansas City regional RTC office. Reviews were

contaminated. Four borings completed in the area of the former USTs and product lines. Monitoring wells were to be installed if groundwater (none) was encountered. Phase II was done in conjunction with a Phase I.

Phase II, U.S. Leasing/Ford Motor Company, Kansas City, MO, Project Manager--Prior to foreclosure Mr. Browning was requested to complete a Phase I and to ascertain whether the USTs, product lines, and underground waste oil tank had leaked historically. Four borings were completed in the area of the USTs and product lines. One boring was completed adjacent to the waste oil tank. Monitoring wells were to be installed if groundwater (none) was encountered. Conducted leak investigation of UST system and supply lines to ascertain rate of leaking USTs.

Comprehensive Phase II Investigation, Confidential Governmental Client/Two Closed Medical Facilities in Kansas City, MO, Project Manager--Mr. Browning managed a technical team to determine if a two adjacent medical facilities were contaminated through off-site means. Study involved soil and groundwater sampling and analysis and air sampling and analysis. Eleven borings were made and four wells were installed. Soil was analyzed via TCLP method. The study also involved the identification and quantification of asbestos-containing materials and the remediation/removal of remaining medical supplies and chemicals.

Phase II, Equipment Manufacturer, Kansas City, MO, Project Manager--Prior to the purchase of a piece of undeveloped property, Mr. Browning was requested to perform a Phase I and Phase II of the property. The property had underground pipelines which the client was concerned may have leaked historically; although, the pipeline company and state had no records of such a leak. Two borings were made adjacent to the pipeline on the property to be purchased. No groundwater was encountered and the soil was tested for total petroleum hydrocarbons.

Phase II, Nationwide Life Insurance Company, Phoenix, AZ, Project Director--Prior to foreclosure, Mr. Browning was requested to complete a Phase II to ascertain whether a dry well located on site may have been used to dispose of hazardous materials. The area of the site is located in a state superfund area and the attempt was to ascertain whether the site had contributed to the groundwater contamination. Two borings were placed adjacent to the dry well and the soil was analyzed for TCE.

Phase II, Life Insurance Company Client, Oklahoma City, OK, Project Manager--B&A identified in its Phase I the past usage of a site as a gasoline station. At the request of the client, B&A performed soil and groundwater sampling for residual contamination.

Phase II, Kansas City Developer, Overland Park, KS, Project Manager--B&A identified in a Phase I prepared by others that a LUST site was located across from a piece of property to be developed. At the request of the client and due to short comings on the part of the Phase I consultant, B&A performed soil and groundwater sampling to ascertain whether the property to be developed had been impacted.

Phase II, Governmental Client, Topeka, KS, Project Manager--Prior to sale of a several pieces of property in the downtown area, Mr. Browning was requested to investigate whether historic underground storage tanks (USTs) had contaminated the site. Four borings were completed in the area of the former USTs and product lines. Monitoring wells were to be installed if groundwater (none) was encountered. Phase II was done in conjunction with a Phase I.

Phase II, Governmental Client, Alton, IL, Project Manager--Prior to sale of the property, Mr. Browning was requested to complete a Phase II and to ascertain whether existing USTs and product lines had leaked historically. Four borings were completed in the area of the USTs and product lines. Monitoring wells were to be installed if groundwater (none) was encountered. Responsibilities for the above projects included: Project management, field leadership, subcontractor selection, drilling oversight, sample collection, and report authorship.

Phase II, Private Developer, Mission, KS, Project Manager--Private developer requested Phase I which concluded the site was a former gas station from the 1930s. Mr. Browning completed multiple borings to ascertain whether petroleum products had impacted site.

NESHAP Compliance Inspections, Various Clients, Project Manager--Mr. Browning has performed numerous asbestos inspections of commercial buildings as a precursor to demolition. Duties included sampling, quantity take-offs, and coordination abatement contractors.

Asbestos Consultation, Various Client Types Including Government Agencies, Manufacturing Facilities, Lenders, and Private Industry, Project Manager/Task Manager--Provide consultation, prepare operation and maintenance plans, abatement design documents, and assist in abatement bidding process.

Indoor Air Quality, Private Client/Shopping Center Manager, Kansas City, Project Engineer--Mr. Browning has been involved in the field investigation of and corrective action for the air quality problem of a shopping center. Responsibilities included: field investigation, corrective action, and report preparation.

Examples of UST Projects:

UST Removal Management, Kansas City, Project Engineer--Conducted UST removal for a former express mail delivery company warehouse. Responsible for field direction, selecting subcontractors, drilling oversight, sample collection and report authorship.

UST Testing, Confidential Client, Kansas City, Project Manager--Conducted leak investigation of UST system and supply lines. Responsibilities included: Project management, field leadership, subcontractor selection, drilling oversight, sample collection, and report authorship.

Spill Prevention Plan (SPCC Plan) for Re-fueling center in Western Kansas--Mr. Browning inspected the facility and completed an SPCC Plan in the event of a release of petroleum/diesel fuel.

UST Closure, Manufacturing Facility, Kansas City, Missouri, Project Manager--Mr. Browning completed a Phase II and site closure investigation of manufacturing facility prior to sale of building.

UST Compliance, Petroleum Retail Marketers, Houston, Texas, Project Manager--Mr. Browning managed a team who investigated several petroleum marketer retail sites in Texas for compliance with state and federal regulations.

UST Consultation, Various Clients, Various States--Mr. Browning has provided compliance and investigative consultation services for existing USTs. Consultation services have included development of scopes of work, regulatory compliance, and liability issues. States include: Texas, Oklahoma, Kansas, Missouri, Minnesota, Nebraska, Iowa, Colorado, California, North Carolina, Wisconsin, and others.

Examples of Property Condition Assessments/Building Inspections:

Mr. Browning has performed over 3,000 PCAs/building assessments for apartments, offices, warehouses, and industrial facilities in over 35 states. Duties have included determination of current condition, immediate and long-term needs, life safety concerns, and building code and ADA compliance.

Examples include:

Over 30 apartment complexes
40-Unit Apartment
24-Unit Apartment
204-Unit Apartment
24-Unit Apartment
200-Unit Apartment
Riverfront High Rise

Oklahoma City, OK
Gainesville, FL
Miami, FL
Miami, FL
Atchison, KS (HUD)
Wichita, KS (Fannie Mae)
St. Louis, MO (Fannie Mae)

Examples, continued:

40-Unit Apartment
150-Unit Apartment
200-Unit Apartment

Kansas City, MO (Fannie Mae)
Kansas City, KS
Las Vegas, NV

Retail Shopping Center, Eagan, MN, Project Manager--Performed detailed inspection of building and building systems, including ADA compliance and life safety concerns. Estimated immediate needs and replacements over the life of the loan.

General Commercial

Office-Warehouse Facility, Oklahoma City, OK, Project Manager--Performed detailed inspection of building and building systems, including ADA compliance, and life safety concerns. Estimated immediate needs and replacements over the life of the loan.

Office Complex, Memphis, TN, Project Manager--Performed detailed inspection of building and building systems, including ADA compliance, and life safety concerns. Estimated immediate needs and replacements over the life of the loan. Attention to HVAC system and roof due to condition of same.

Office Complex, Fort Collins, CO, Project Manager--Performed detailed inspection of building and building systems, including ADA compliance, and life safety concerns. Estimated immediate needs and replacements over the life of the loan. Attention to roof due to condition of same.

Office Complex, Beaumont, TX, Project Manager--Performed detailed inspection of building and building systems, including ADA compliance, and life safety concerns. Estimated immediate needs and replacements over the life of the loan. Attention to interior refinishing and related code compliance due to extensive repairs.

30 to 40 building Warehouse Complex, Miami, Florida, Project Engineer--Inspection and identification of structural/building concerns, as part of Phase I ESA, for warehouse complex to future owner.

Numerous Self-Storage Facilities, Detroit, MI and Memphis, TN, Project Engineer--Performed detailed inspection of building and building systems, including life safety concerns. Estimated immediate needs as well as replacements and reserves.

Ten (10) Retail Shopping Centers, Texas, Project Manager--Performed detailed inspection of building and building systems, including ADA compliance and life safety concerns. Estimated immediate needs and replacements over the life of the loan.

Industrial

Former ATT Facility, Central Florida, Project Manager--Performed detailed analysis of the condition of the building formerly used as a computer switching station. Project included condition, immediate repairs, future repairs, ADA compliance, life safety, etc. Attention placed on HVAC, energy generation, and electrical systems. Coordinated the disassembly of the power generation/fuel unit, former computer rooms, electrical equipment, etc., to convert facility to a normal warehouse.

Former Manufacturing Facility, Kansas City, MO, Project Manager--Performed detailed inspection of building and building systems, including ADA compliance, and life safety concerns. Estimated immediate needs and replacements over the life of the loan. Attention to HVAC system and roof.

Mirror Manufacturing Facility, Fresno, California, Project Manager--Performed detailed inspection of building and building systems, including ADA compliance and life safety concerns. Estimated immediate needs and replacements over the life of the loan.

Historic Building, Cleveland, OH, Project Consultant--Provided government agency consultation concerning the structural and environmental concerns associated with a 150-year-old building in Ohio.

Plastics Manufacturing Facility, Smyrna, TN-- Performed detailed inspection of building and building systems, including ADA compliance and life safety concerns. Estimated immediate needs and replacements over the life of the loan.

NPDES Storm Water Permit Training, Omaha, NE, 1991
Environmental Regulations, Executive Enterprises, 1991

REGISTRATIONS AND AFFILIATIONS

Engineer-in-Training (EIT), No. 279ET89

Member - National Registry of Environmental Professionals

to verify technical data was reasonable and for compliance to contract. Reviews involved approximately 400 properties. Mr. Browning provided the RTC with environmental consulting expertise regarding the implications of report results and to ascertain what further investigation is needed. Mr. Browning also developed scopes of work for asbestos surveys, subsurface soil/groundwater investigation, and other environmental tasks.

Examples of Phase II Projects:

Mr. Browning has completed hundreds of Phase II/Leaking Underground Storage Tank (LUST) investigations in KS, MO, FL, IL, TX, OK, and MN. Mr. Browning has provided consultation on other Phase II and/or UST/LUST investigations in CA, AZ, NM, and WI. Examples of Phase II investigations include the following:

Phase II/III, CERCLA Listed Site, Confidential Client, Kansas City Metro area, Field/Project Manager--Mr. Browning performed a detailed analysis of a 30+-acre tract used to receive questionable fill materials along the Missouri River alluvial area. Project included reviewing state and EPA files of site; development of work plan for submission to client, state and EPA; installation of monitoring wells; review of fill by excavation and physical review; and site characterization. Constituents of concern within soil and groundwater were RCRA metals and extractable organic compounds. Mr. Browning worked with both state and EPA regulators throughout the project to obtain closure letter for the client. Project was completed and closed in a timely, cost effective manner.

Phase II, Pending Casino Site, Confidential Client, North Kansas City area, Field/Project Manager--Mr. Browning performed a detailed analysis of a 20+-acre tract selected as a potential casino site in the metro area. Project included reviewing Corp of Engineers and state files of site; development of work plan for submission to client and Corp of Engineers; soil sampling; collection of groundwater samples; and collection of river water samples. Constituents of concern within soil and groundwater were RCRA metals and extractable organic compounds. Mr. Browning worked with both the Army Corp of Engineers and state regulators throughout the project to meet the client's needs.

Phase II, Former Trucking Terminal, Kansas City, KS, Field/Project Manager--Mr. Browning performed a Phase II of a former trucking terminal to ascertain whether existing closed USTs had impacted the site prior to purchase.

Phase II/Risk Assessment, Overland Park, Kansas, Project Manager--Mr. Browning oversaw the collection of field data and preparation of a risk assessment for an area contaminated by petroleum pipeline company. Risk assessment was used in lieu of remediation as a quicker means to resolve issues.

Phase II, Industrial Client, Kansas City, Project Manager--Mr. Browning performed Phase II/remediation of petroleum-impacted soil associated with plastics manufacturer. Duties included coordination of spill response/disposal notification to proper authorities, investigation, and remediation.

Phase II, Industrial Client, Kansas City, Project Manager--Mr. Browning performed Phase II of industrial facility as part of Phase I ESA. Concerns raised in Phase I included contamination of site by RCRA metals, various petroleum products, and extractable organics.

Phase II, Private Developer, Kansas City, Project Manager--Mr. Browning performed a Phase II to ascertain whether an adjacent LUST site had impacted adjacent property being development.

Phase II, Private Client, Southwest Florida, Project Manager--Client was involved in the purchase of a piece of vacant land for development. Phase I, also completed by Mr. Browning, revealed the property was adjacent to an illegal landfill. Phase II was completed for the possibility of on-site contamination due to off-site sources. Parameters of the investigation: RCRA metals, pesticides, herbicides, and solvents in soil and groundwater. Three to four borings completed downgradient of the dumping area on property, which was being purchased.

Phase II, Life Insurance Company, Dallas, Texas, Project Manager--Prior to foreclosure, Mr. Browning was requested to investigate whether a warehouse lot, which historically had underground storage tanks (USTs), was

Soil/Groundwater Contamination Studies, Various Clients Including Governmental Agencies and Private Business, Project Manager--Mr. Browning has been involved in several comprehensive soil and groundwater studies to ascertain contamination. Sites have included Florida, Missouri, Kansas, and Texas. Responsibilities included project management, field leadership, field and technical analysis, and report authorship.

Examples of Regulatory Compliance/Environmental Permitting Projects:

PCB Compliance Audit, Midwest Utility, Project Engineer--Mr. Browning was the principal investigator on a PCB compliance audit involving twenty-four utility sites. Audit activities included facility inspections, complete utility file documentation review, field verification of records and oil sampling, and report authorship.

Broad Spectrum Regulatory Compliance Audit, Confidential Midwest Government Contractor, Project Manager--Mr. Browning managed a technical audit team which was involved in reviewing a DOD contractor for compliance with RCRA, Clean Air, Clean Water, USTs, and other required environmental regulations.

Clean Air Act Permitting, Midwest Chemical Manufacturer, Project Manager--Mr. Browning performed emissions sampling and calculated amount of emissions generated at facility on a yearly basis. Mr. Browning also completed the inventory questionnaire required by the state of Missouri.

Clean Air Act Permitting, Midwest Book Publisher, Project Manager--Mr. Browning reviewed the facility and managed a staff involved in air sampling and permit application.

Management Systems Audit, Confidential Midwest Utility, Project Engineer--Mr. Browning was the principal investigator on a management systems audit to investigate the policies, procedures, etc., governing the methodology utilized by the client in managing/administrating its PCB program. Audit consisted of policy and procedure review, interviews with CEO to laborers, published documentation review, survey of other utility operations, and report authorship. Purpose of study was to ascertain what changes (organizational and other) were needed to improve regulatory compliance.

RCRA Compliance Reviews:

Mr. Browning has completed numerous RCRA compliance audits of various small-quantity generators. Examples include:

Machining facility	Minneapolis, MN
Various dry cleaners	Nationwide, typically associated with retail centers
Plastics manufacturing	Kansas City, KS and MO
Midwest Universities	States of Kansas and Missouri

NPDES and RCRA Compliance, Minnesota Manufacturer, Project Manager--Mr. Browning performed a RCRA compliance audit of a precision manufacturer in Minnesota. Facility generated large quantities of waste petroleum and machining oils, solvents, and others.

NPDES Permit Completion, Project Manager--NPDES permit completion and training of on-site personnel for storm water sampling for various industry types.

Examples of Asbestos/Lead-based Paint and Other Projects:

Comprehensive Asbestos Studies, Various Clients Including Governmental Agencies and Private Businesses, Project Manager--Mr. Browning has been involved in numerous projects involving asbestos screenings to sampling following AHERA protocol for apartment complexes, manufacturing facilities, commercial properties, medical facilities, and retail facilities. Responsibilities included: Project management, field leadership, selection of sampling protocol, field sampling, and report authorship.

Mr. Browning is an EPA certified lead inspector and has performed numerous lead studies using XRF, paint chip sampling, and chemical swabs. B&A also developed a lead-base paint-training program it offers to others for certification (service no longer provided).

140-Unit Apartment	Kansas City, MO
160-Unit Apartment	Midwest City, OK
60-Unit Apartment	Atlanta, GA
100-Unit Apartment	Omaha, NE
40-Unit Apartment	Omaha, NE
24-Unit Apartment	Omaha, NE
112-Unit Apartment	Omaha, NE
3-Building High Rise	Office Complex Miami, FL (Wall Street Firm)
6 Office-Warehouses	North Kansas City, MO
10 Industrial warehouses (2,250,000 sf)	Topeka, KS

Retail Shopping Centers

Retail Shopping Center, Kansas City, Kansas, Project Manger--Performed detailed inspection of building and building systems, including ADA compliance and life safety concerns. Estimated immediate needs and replacements over the life of the loan.

Four (4) Retail Shopping Centers, Houston, Texas, Project Manager--Performed detailed inspection of building and building systems, including ADA compliance and life safety concerns. Estimated immediate needs and replacements over the life of the loan. Attention to HVAC and roofing due to condition of same.

Two (2) Retail Shopping Centers, Beaumont/Bay City, Texas, Project Manager--Performed detailed inspection of building and building systems, including ADA compliance and life safety concerns. Estimated immediate needs and replacements over the life of the loan. Attention to code compliance and CO due to the fact facilities were new.

Three (3) Retail Shopping Centers, Dallas-Fort Worth Area, Texas, Project Manager--Performed detailed inspection of building and building systems, including ADA compliance and life safety concerns. Estimated immediate needs and replacements over the life of the loan.

Retail Shopping Center, Boca Ratan, Florida, Project Manager--Performed detailed inspection of building and building systems, including ADA compliance and life safety concerns. Estimated immediate needs and replacements over the life of the loan.

Large Nationwide Discount Retail Chain store, Wisconsin, Project Manager--Performed detailed inspection of building and building systems, including ADA compliance, and life safety concerns. Estimated immediate needs and replacements over the life of the loan.

Retail Shopping Center, Bogalusa, LA, Project Manager--Performed detailed inspection of building and building systems, including ADA compliance and life safety concerns. Estimated immediate needs and replacements over the life of the loan.

Retail Strip Center, Paris, TX, Project Engineer--Performed detailed inspection of building and building systems, including life safety concerns. Estimated immediate needs and replacements over the life of the loan. Attention to roof, parking lot, and HVAC equipment due to age.

Retail Shopping Center, Rolingbrook, IL, Project Manager--Performed detailed inspection of building and building systems, including ADA compliance and life safety concerns. Estimated immediate needs and replacements over the life of the loan.

Retail Shopping Center, Green Bay, WI, Project Manager--Performed detailed inspection of building and building systems, including ADA compliance and life safety concerns. Estimated immediate needs and replacements over the life of the loan.

Historic Building, Boston, MA, Project Consultant--Provided lender consultation concerning the structural and environmental concerns associated with a 200-year-old building in Boston port area.

Miscellaneous Experience/Projects:

Construction Management Experience

Black & Veatch

Mr. Browning performed construction management/engineering while at Black & Veatch pertaining to utility installation (power and communications), water and wastewater treatment plants, and power plants. Duties included field management, field construction changes, cost estimates and tracking, preparing as-built drawings, field/sub-contract management, etc.

Management Systems Audit/Program Development, Engineering Supervisor/Principal Investigator and Author--Mr. Browning completed many management system audits in an effort to revise administrative, operational, and QA procedures involving nuclear power plants.

Fluor-Daniel Company

Mr. Browning was in the role of field and supervising engineer for the construction of a Midwest power plant. Areas involved included structural steel, concrete, equipment, and piping. Duties included quantity take-offs, estimating, ordering, field construction changes, resolution of field installation problems, and supervision.

LECTURER

Lender Liability Update	Kansas City (lenders and RE professionals), 1994/95
Lender Liability	Orlando, FL (attorneys), 1991
Lender Liability	Des Moines, IA (lenders), 1991
Lender Liability	Omaha, NE (lenders), 1991
NPDES Permitting	Wichita, KS (industries), 1992
NPDES Permitting	Kansas City, MO (via <i>Executive Enterprises, Inc.</i>), 1992/93
NPDES Permitting	Houston, TX (via <i>Executive Enterprises, Inc.</i>), 1993
NPDES Permitting	Tulsa, Oklahoma (Oklahoma Health & Safety Conference), 1993
Compliance Audits	Kansas City (industries), 1993
CAAA Permitting	Kansas City (industries), 1993
Regulatory Compliance	Kansas City (industries), 1993

EDUCATION

Bachelor of Science in Engineering, University of Central Florida 1979. Major Civil Engineering. Three hours shy of double major in Environmental Engineering.

Master of Business Administration, Avila University, 1984.

Continued training at University of Missouri (course work)

Graduate classes in Civil Engineering

Continued training at University of Missouri, Kansas City

Graduate classes in Economics and Finance

SPECIAL TRAINING

All training through certified/accredited training institutions:

Lead Inspector, 1996 to 2002, 2005 to current

Lead Risk Assessor, 1996 to 2002

Asbestos Worker Supervisor, 1992 through 2001 (service no longer provided)

Asbestos Project Designer, 1992 through 2001 (service no longer provided)

AHERA Certified Inspector, 1991 through 2001, and 2005 to present

Hazardous Waste Site Operations (OSHA 40 hr.), 1993 through 2002, 2005

NPDES Storm Water Permit Training, University of Missouri, 1991

American Osage Consulting, Inc.

8700 Monrovia, #310, Lenexa, Kansas 66215
Phone: 913.322.3862 Fax: 913.322.3864

Alvin Stuke, Environmental & Safety Specialist

Background and Career Experience:

Position: Environmental & Safety Specialist

Mr. Stuke designed, implemented and monitored OSHA and EPA programs for an R & D facility in Topeka, Kansas. He has been the team leader for on-site inspections of multi-state manufacturing plants with total responsibility for OSHA and EPA compliance. He has performed environmental audits of manufacturing, commercial facilities; and environmental assessments for HUD, BOP, GSA, and VA.

Alvin has trained our clients' employees on OSHA and EPA regulations. He is qualified to teach OSHA classes in both general industry and construction. He consistently achieves high marks for safety class delivery. He is certified to teach both the State of KS and the EPA RRP class.

He has managed lead abatement projects for several real estate agencies; the Kansas Department of Health and Environment and KCMO Health Services. He has conducted numerous lead inspection projects for HUD in Kansas and Missouri; the Bureau of Prisons and the Veterans Administration.

Asbestos projects have included inspections at Bureau of Prisons locations; elementary and secondary schools in the State of Missouri, Kansas City Kansas Community College and for the General Services Administration in Kansas City, KS and Auburn, WA.

Air monitoring and/or clearance projects have included the Federal Reserve Bank in KCMO and school districts in Kansas and Missouri. Similar projects have been completed for the City of KCMO, Kansas City Kansas Community College, barracks, railroad yards, a power plant and an oil company.

Education:

- BA , Washburn University, Topeka
- Environmental & Safety Courses, Maple Woods Community College

Certifications and Registrations:

- Asbestos Contractor/Supervisor
- Asbestos Inspector/Management Planner
- Lead Inspector/Risk Assessor
- Lead Supervisor
- NIOSH/Air Technician
- OSHA Trainer Certification
- 40-Hr. HAZWOPER
- CPR & First Aid
- EPA Certified Renovator & Trainer